We Build Reputations™

RIDGID



PRIDE CONFIDENCE INNOVATION TRADITION TECHNOLOGY















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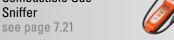
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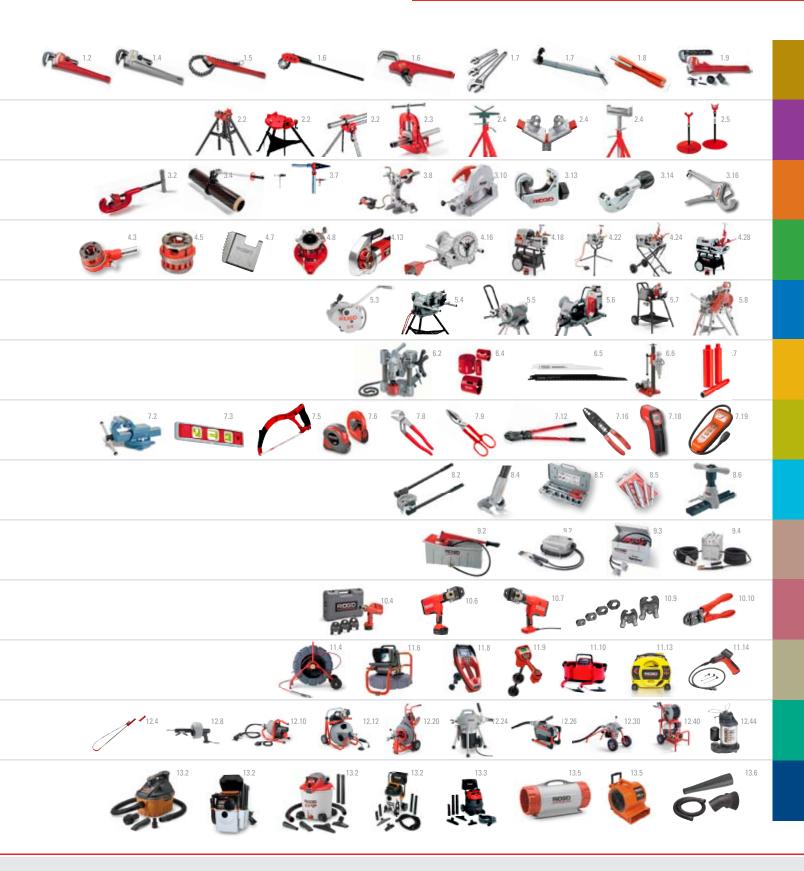
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We Build Reputations

Whether as a one person truck, or a member of a multinational crew, you have put immeasurable time and effort in building a business of which to be proud. Though individual heart is at the core, it is the customer's perception and visible results that enable success. These are what define a reputation.

A positive reputation delivers the calls and the contracts. It is a testament to hard work and business savvy. It builds over time. However, it can break in no time. Call backs and missed deadlines can be critical. This is why RIDGID® promises to deliver:

- Confidence that RIDGID products will consistently perform in the harsh demands of the professional's work site.
- Efficiency which results in faster work, more jobs and improved profits.
- Industry Innovations to help our customers create new services and income sources.

Maximizing uptime, through both tools and information, is how RIDGID strives to give you a competitive advantage. Whether a seasoned veteran or just starting out, RIDGID tools and services help you build what matters most – your good name.

As a group, we take pride in knowing our individual efforts serve the greater good. From potable water to a reliable infrastructure, it takes all of us working together to keep this world in action. For ourselves, for our businesses, and for the industry...

We Build Reputations

Why do so many professionals choose RIDGID tools? The answer is simple...trust. Millions of RIDGID tools go to work every day in plants, on construction sites and in countless other harsh environments.

These tools operate in extremes of heat and cold, withstand dirt and mud, and perform reliably day in and day out. RIDGID tools are known the world over as industry-leading products that allow professionals like you to complete jobs more quickly and reliably.



One of the design parameters for developing RIDGID tools is efficient operation. We engineer ease-of-use into every product. And, we include innovative features to ensure that our tools and machines get jobs done as quickly as possible without compromising quality.

Developing and manufacturing innovative products to meet the everchanging demands of your job are a continuous process at Ridge Tool. Not only do our evolving technologies help you solve today's problems, they are designed to address your future needs as well.

As a dependable partner for working professionals, we listen to your needs and encourage your feedback. We then use that information to provide you with the tools, equipment and support you've asked for.

The intuitive nature of our products helps you reduce your labor costs. For example, our line of pipe and drain locating equipment is designed for high performance, yet simple operation. With RIDGID, you spend less time training your employees and more time driving your business.

Even though selling tools is our business, we help you rely on fewer tools to get jobs done. Efficient operation means more jobs, higher revenues and increased customer satisfaction. We are committed to introducing new ways to help you grow your business and prosper.



Ridge Tool Company, a subsidary of Emerson, is part of Emerson
Professional Tools™. Emerson (NYSE: EMR) has more than 60 divisions that operate approximately 245 manufacturing locations worldwide with over 110,000 employees, and markets products in over 150 countries.

Emerson Network Power™ – reliable power, precision environmental and connectivity solutions for today's telecommunications and data network infrastructure.

Emerson Process Management™ – total process industry intelligent field devices, performance software and consulting and engineering expertise.

Our People Make the Difference

The talented, committed employees of Ridge Tool share the common vision of making our company the best. Together, we strive for the best in quality, product innovations, technical support and customer service.

Throughout the world, our local teams of RIDGID customer service personnel provide the friendly, knowledgeable support that you need to keep working. This support helps you select, obtain and use the proper tools to get jobs done right.

Our training centers are available to help you get maximum productivity and service life from our products. We offer you custom, hands-on training by expert instructors.

In addition, our international network of RIDGID distribution centers ensures that you get the products you want, when and where you want them. These centers feature the latest in supply chain logistic technologies so that our product stocking levels meet your delivery demands.

Global Support

Local teams of customer service personnel around the world provide the support our end users and distributors need to keep them working. Friendly, knowledgeable and courteous support help them select, obtain and use the right tools to get the job done right as quickly as possible.

They also choose us for our international network of factory and independently owned, authorized service centers. Local support helps our customers get the maximum service life from their tools and equipment.

To learn more about Ridge Tool and its industry leading products visit www.ridgid.com or contact one of the numbers below.

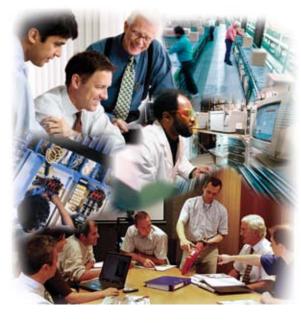
Inside the United States:

Schedule a Product Demonstration: 1.800.769.7743
Contact Customer Service: 1.888.743.4333

• Contact Technical Service: 1.800.519.3456

Outside the United States:

Contact: +1.440.323.5581



Global Locations	Manufacturing	Warehousing	Sales & Support
United States			
Elyria, Ohio Cambridge, Ohio			
Erie, Pennsylvania	111	•	•
Orange, Virginia	• 100	•	
Europe Clug, Romania			•
Leuven, Belgium Gevelsberg, Germany Sissach, Switzerland		79)	
Australia ampbellfield, Victoria		1	•
Asia Kangawa Pref., Japan Bhanghai, China	4	:	:
South America Guarulhos SP, Brazil		•	•
Latin America Mexico City, Mexico		•	•

Emerson Climate Technologies™ – heating, ventilating, air conditioning and refrigeration technologies and systems for commercial and residential applications.

Emerson Storage Solutions™ – innovative, sturdy and secure shelving and storage products and solutions for residential, commercial, and industrial locations.

Emerson Professional Tools™ – a broad range of tools and equipment for professional trades and do-it-yourselfers throughout the world.

Emerson Motor Technologies[™] –

motor and drive solutions and customized technologies that power everything from consumer appliances to large industrial applications.

Emerson Industrial Automation™ –

motion control systems and components; plastics joining and precision cleaning equipment; and materials testing equipment and supplies.

Emerson Appliance Solutions™ –

engineering and technologies for design and delivery of integrated appliance solutions for the residential and commercial marketplace.

Invest in RIDGID® Tools and We Protect Your Investment

What Is Covered

RIDGID tools are warranted to be free of defects in workmanship and material.

How Long Coverage Lasts

This warranty lasts for the lifetime of the RIDGID tool. Warranty coverage ends when the product becomes unusable for reasons other than defects in workmanship or material.

How You Can Get Service

To obtain the benefit of this warranty, deliver via prepaid transportation the complete product to Ridge Tool Company, Elyria, Ohio, or any authorized RIDGID Independent Service Center. Pipe wrenches and other hand tools should be returned to the place of purchase.

What We Will Do To Correct Problems

Warranted products will be repaired or replaced, at the option of Ridge Tool, and returned at no charge; or, if after three attempts to repair or replace during the warranty period the product is still defective, you can elect to receive a full refund of your purchase price.

What Is Not Covered

Failures due to misuse, abuse or normal wear and tear are not covered by this warranty. Ridge Tool shall not be responsible for any incidental or consequential damages.

How Local Law Relates To The Warranty

Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. This warranty gives you specific rights, and you may also have other rights, which vary, from state to state, province to province, or country to country.

No Other Express Warranty Applies

This Full Lifetime Warranty is the sole and exclusive warranty for RIDGID products. No employee, agent, dealer, or other person is authorized to alter this warranty or make any other warranty on behalf of the Ridge Tool Company.

Executing the RIDGID Lifetime Warranty

Ridge Tool Company offers a comprehensive lifetime warranty to support products purchased under the RIDGID Brand, excluding licensed goods.

RIDGID branded products are built with reliability, dependability and durability and are covered by a Full Lifetime Warranty against defects in materials or workmanship.



In the event that you have a problem with your RIDGID product due to a defect in materials or poor workmanship, we will attempt to remedy the problem in accordance with our printed warranty policy in a timely manner. For warranty information on RIDGID licensed goods, visit www.RIDGID.com.

Normal Wear and Tear

Commonly, our tools are used on job sites in the most demanding applications and environments. Under these conditions and over time, the RIDGID product may experience normal wear and tear and require service. While normal wear and tear is not considered a "defect" and is not covered by the RIDGID Lifetime Warranty, it is our goal to get your tool back in service a soon as possible. To help expedite this service, Ridge Tool offers a complete assortment of service parts and a network of RIDGID Independent Service Centers to meet your service needs. Technicians throughout our Service Center Network are Factory Trained to provide quality repair service as well as accurate determination and execution of RIDGID warranty if required. For a complete list of RIDGID Independent Service Centers visit www.RIDGID.com.

Defects in Materials and Workmanship

It is our experience that a product that fails prematurely due to a manufacturing defect in materials or workmanship, will generally do so very early in the product's life cycle, often the first or second time the product is used. When returned for inspection, these products are generally found to be in "like new" condition and show very little signs of use. It is uncommon for a product that was manufactured with a defect, to survive under normal use for any extended period of time. Products that are returned for warranty inspection after months or years of continuous reliable service are rarely found to be defective. The most common demand for service is the result of normal wear and tear issues, which are not considered to be a defect in materials or workmanship.

- 1923 Ridge Tool Company founded with the introduction of the RIDGID pipe wrench.
- **1940** Ridge Tool introduces power threading machines.
- 1943 Ridge Tool Company establishes its headquarters in Elyria, Ohio USA.
- **1946** Ridge Tool begins exporting products to help rebuild Europe.

Complete Product and Service Support Online 24/7

Search the Complete Offering of RIDGID Tools and Support

Our web site offers the latest information and support available from Ridge Tool:

- New and existing products.
- Operator's manuals.
- Request a demonstration.
- · Forums and tool tips.
- Available training.
- And more...

Visit this valuable resource at www.RIDGID.com

Get RIDGID Service from Where the Pros Go

For optimum service of your RIDGID tools and equipment, there is no better choice than an authorized RIDGID Service Center. To locate the service center near you, go online at www.RIDGID.com/service

Insist on Genuine RIDGID Replacement Parts

RIDGID products are designed and built to the highest quality standards to perform specific tasks with optimum and lasting efficiency. Tool components are made to complement each other to form an ideally functioning "system." As with any tools, certain parts will need to be replaced from time to time. To preserve the high standards of performance you expect from RIDGID tools, it is important to make sure you use trademarked RIDGID replacement parts.

Look for, and insist on, the "Genuine RIDGID Replacement Parts" label on all of the parts you buy. It is your best assurance of performance, efficiency and long service life.

To order parts online, go to www.ridgidparts.com

24/7 Service On Demand

RIDGID distributors have access to this comprehensive knowledgebase to get answers to a wealth of product application and service questions 24 hours a day, 7 days a week.

- Create a parts order with complete information with just a few taps of the keyboard.
- Online warranty claim processing and assistance with executing the RIDGID warranty.
- Develop and store repair quotes.
- FAO's, Tips and Tricks, Service Notes and more are included to provide fast answers to commonly asked questions.



- **1964** A new sales and manufacturing facility opens in St. Truiden, Belgium.
- 1966 Ridge Tool becomes part of Emerson Professional Tools™.
- 1967 The Kollmann line of drain cleaning and diagnostic tools becomes part of Ridge Tool.
- **1972** A new sales and manufacturing facility opens in Sao Paulo, Brazil.

Quality Management Systems

Ridge Tool manufacturing facilities listed below are certified to BS EN ISO 9001-2000 Quality Management System Standards by an accredited Registrar.

Manufacturing Plant Accredited Registrar

Elyria, Ohio BSI Erie, Pennsylvania BSI Orange, Virginia BVQI

Distributor Support

Rely on your RIDGID Distributor for our complete line of tools, parts, service and information. Your RIDGID Distributor:

- Keeps you competitive with the latest products for your industry.
- Guarantees your purchasing power by buying from hundreds of suppliers.
- Helps you get back in business fast when you need parts or service.
- Manages traffic so you get the goods on time and at the least cost.
- Warehouses products for you, saving capital, insurance and overhead.
- Brings technical aid to your staff to solve your problems.
- Simplifies your record-keeping with one billing for all your tool needs.

Parts and Repair Parts Catalogs

Catalogs illustrating parts for hand tools, machines and drain cleaning products are available upon request and cover all tools listed in this catalog. For ordering the exact parts needed, be sure to order by the catalog numbers that appear in the parts catalogs, as well as any other data that will help us avoid errors in filling the order.

Estimates on repairs and prices on repair parts will be furnished upon receipt of the tool or machine at our factory, or at a RIDGID Independent Authorized Service Center. Return all tools and machines freight prepaid.

Please Note

Engineering advances may cause changes to information shown in this catalog. Please contact your RIDGID distributor for current information.

Do not use RIDID tools and equipment for any other purpose, or beyond the capacity, than they are intended for. Always follow any instructions and warnings provided with RIDGID tools and equipment.



ISO 9001:2000 FM 68317 Erie, Pennsylvania



ISO 9001:2000 FM 65410 Elyria, Ohio





ISO 9001:2000 Orange, Virginia









- 1991 Ridge Tool establishes European headquarters and central distribution facility in Leuven, Belgium.
- 1996 Ridge Tool acquires Peddinghaus of Gevelsberg, Germany.
- 2002 Ridge Tool acquires Von Arx of Sissach, Switzerland.

Ridge Tool U.S. Patents

1822 Machine 4,757,598; 4,787,531; 4,811,639; 4,819,527; 5,074,176; 5,087,013 4,795,175 1224 Machine K-375 Drain Cleaner 4.914.775 4,956,889; 5,901,401 K-39 Drain Cleaner K-750 5,031,263; 5,031,276 916 Roll Groover 5,079,940 1233 Machine 5,199,928 1450 Test Pump 5 221 195 258 Pipe Cutter 5.261.301 Power Bender 5,284,040; 5,301,530 K-7500 Drum Machine 5,390,389 5.528.919 914 Roll Groover Basin Nut Wrench 5 542 321 300 Compact 5,560,582 KJ-1350 Water Jetter 5.622.319 K-60SP Drain Cleaner 5,657,505

K-40 Drain Cleaner 226 Soil Pipe Cutter Power Spin 122 Tube Cutter & Prep Tool HC300 Hole Saw 960 Roll Groover K-380 Drum Machine 117/118 Tubing Cutter 915 Roll Groover 920 Roll Groover RapidGrip Pipe Wrench 418 Oiler Auto-Spin Pressing

6,009,588; 6,243,905; 6,412,136 6.141.876 6.158.076: 6.615.436 6.189.216; 6,336,270 6.264.406 6,272,895 6,360,397; 6,381,798 6 393 700: D485 150 6,591,652; 6,606,893; 6,776,018 6,688,150; 6,708,545 6,742,419; D474,380 D498.487 D509 929 5,611,228; 6,244,085; 6,434,998; 6,510,719; 6,510,723; 6,662,621; 6,694,586; 6,729,009; 6,923,037; 7,155,955; 7,188,508; 7,260,975

Ridge Tool U.S. Trademarks

Registered Marks ®

1210 Threading Machine 5,826,469; 5,890,852

AUTOFEED **AUTO-SPIN** CABLE COMMAND CABLE COMMAND DESIGN COUNTIR CHEVRON DESIGN KWIK-SPIN

MATADOR MAXCORE NAVITRACK NAVITRACK SCOUT OIL LESS GOLD PEX POWER SPIN

QUICK-FEED **RAPIDGRIP** RAPRENCH RETRACT-A-RIP RIDGID (BLOCK LETTERS) RIDGID (D&G ADJACENT) RIDGID (D&G INTERLOCKED) RIDGID & RED BAR DESIGN RIDGIDCONNECT RIDGID KOLLMANN

RITCO **ROOT RANGER SCOUT**

SHP AND SHP DESIGN SOF-TOUCH

STONGER. FASTER. LONGER LIFE. TOOLS FOR A LIFETIME

TRIBENDER **TRISTAND** TRUE-TAPER U & DESIGN **UNIVERSAL GOLD WORK SAVER**

Pending Applications TM/SM

JOBMAX K-SPIN **MICRO** MICRO CG-100 OIL-LESS PERFECT PRESS PRESS TOOL PRESS TOOL TECHNOLOGY

PRESSING TECHNOLOGY **RIDG-BACK**

POWERFUL. DURABLE. PROFESSIONAL.

SEE IT. FIND IT. SOLVE IT. STANDARD HEX PRESS STANDARD HEX PROFILE TOOLS FOR THE PROFESSIONAL

WE BUILD REPUTATIONS

X-CEL X-TRA

• TODAY Ridge Tool has manufacturing facilities in the USA, Europe and Asia • Ridge Tool products are available in more than 140 countries around the world through a network of leading distributors • Ridge Tool offers more than 300 types of tools and machines in over 4,000 models and sizes.

Wrenches

RIDGID® Pipe Wrenches are world-renowned for their unsurpassed toughness and serviceability. The original heavy-duty pipe wrench, pictured below, has earned the confidence of pipe professionals for over 80 years because it does the job right the first time, every time. RIDGID Pipe Wrenches are also available in a wide variety of purpose-built configurations, and are available with cast aluminum handles that offer an average 40% weight reduction.

Anatomy of a Legend





Wrenches



Wrenches

- Time-tested designs. Often imitated, never duplicated.
- Efficient designs to improve productivity.
 Innovative to provide new solutions to old problems.

Wrench Type	No. of Models	Nom. Size (in.)	Capacity (in.)	Page
Heavy-Duty Pipe Wrencl	nes			
Straight Pipe	10	6 - 60	3/4 — 8	1.2
RapidGrip®	2	10 - 14	$1\frac{1}{2} - 2$	1.2
End Pipe	8	6-36	$\frac{3}{4} - 5$	1.2
Raprench®	1	10	11/2	1.3
Heavy-Duty Offset	3	14 - 24	2 - 3	1.3
Compound Leverage	4	_	2 - 8	1.3
Aluminum Pipe Wrenche	es			
Aluminum Straight	7	10 - 48	$1\frac{1}{2} - 6$	1.4
Aluminum Offset	3	14 - 24	2 - 3	1.4
Aluminum RapidGrip	2	14 - 18	2 - 3	1.4
Aluminum End	4	10 - 24	$1\frac{1}{2} - 3$	1.5
Specific Purpose Wrenc	hes			
Chain	5	12 - 36	$2 - 4\frac{1}{2}$	1.5
Strap	8	11¾ – 18	2 - 5	1.5
Chain Tongs	6	64 - 87	1/4 - 18	1.6
Hex	3	$9\frac{1}{2} - 20$	5⁄8 - 2	1.6
Spud	1	12	³ ⁄ ₈ − 25⁄ ₈	1.6
Adjustable	10	6 - 24	3/4 — 27/16	1.7
Internal	1	41/2	1 - 2	1.7
Basin	3	10 - 17	$\frac{3}{8} - \frac{21}{2}$	1.7
One Stop	1	_	_	1.8
Faucet & Sink Installer	1	11	_	1.8
Hand Tool Kit	1	_	_	1.9
Wrench Parts	_	_	_	1.9

Heavy-Duty Pipe Wrenches



Straight Pipe Wrench

- Sturdy, cast-iron housing and I-beam handle with full floating forged hook jaw, featuring self-cleaning threads with replaceable hook and heel jaws.
- Heavy-duty pipe wrenches comply with federal specifications GGG-W65IE, Type II, Class A.

Catalog	Model	Nom.	Size	Pipe C	apacity	Wei	ght	Std.	
No.	No.	in.	mm	in.	mm	lb.	kg	Pack	
31000	6	6	150	3/4	20	1/2	0.2	6	
31005	8	8	200	1	25	3/4	0.3	6	
31010	10	10	250	11/2	40	13/4	0.8	6	
31015	12	12	300	2	50	2 3/4	1.2	6	
31020	14	14	350	2	50	31/2	1.6	6	
31025	18	18	450	21/2	65	5¾	2.6	6	
31030	24	24	600	3	80	93/4	4.4	6	
31035	36	36	900	5	125	19	8.7	1	
31040	48	48	1200	6	150	341/4	15.6	1	
31045	60	60	1500	8	200	511/4	23.3	1	



RapidGrip®

- Quick one-handed operation makes your jobs move faster.
- The spring-loaded jaw design provides rapid ratcheting action.
- Unique combination heel/hook jaw design aggressively bites the work piece and ensures a secure grip.

Catalog No.	Model No.	Nom. Size		Pipe Capacity		Fittings Cap.		Weight		Std. Pack
NO.	INU.	in.	mm	in.	mm	in.	mm	lb.	kg	rack
10348	10	10	250	11/2	37.5	1	25	1.6	0.7	6
10358	14	14	350	2	50	1½	37.5	3.1	1.4	6



End Pipe Wrench

- Assures a fast and easy grip for pipe working in restricted spaces or close to a wall.
- Provides a faster, easier way to get a grip and long handle swing.
- Ideal for pipe work close to a wall, in tight quarters or in closely-spaced parallel lines.

Catalog	Model	Nom. Size		Pipe Capacity		Weight		Std.	
No.	No.	in.	mm	in.	mm	lb.	kg	Pack	
31050	E-6	6	150	3/4	20	1/2	0.2	6	
31055	E-8	8	200	1	25	3/4	0.3	6	
31060	E-10	10	250	11/2	40	13/4	0.8	6	
31065	E-12	12	300	2	50	23/4	1.2	6	
31070	E-14	14	350	2	50	31/2	1.6	6	
31075	E-18	18	450	21/2	65	53/4	2.6	6	
31080	E-24	24	600	3	80	9¾	4.4	6	
31085	E-36	36	900	5	125	19	8.7	1	







Raprench®

- A deeper and broader hook jaw housing provides a smooth, flat surface that is ideal for occasional use as a hammer.
- Offers all of the same outstanding qualities found in all RIDGID heavy-duty wrenches.

Catalog	Model	Nom.	Nom. Size		Pipe Capacity		Weight		
No.	No.	in.	mm	in.	mm	lb.	kg	Pack	
31395	10	10	250	1½	40	2	0.9	6	



Heavy-Duty Offset Pipe Wrench

- Features a jaw opening parallel to the handle and a narrower hook jaw head.
- Provides easy entry into tight spots.

Catalog	Model	odel Nom. Size		Pipe Capacity		Weight		Std.
No.	No.	in.	mm	in.	mm	lb.	kg	Pack
89435	14	14	350	2	50	21/4	1.0	6
89440	18	18	450	21/2	65	53/4	2.6	6
89445	24	24	600	3	80	93/4	4.4	6



Compound Leverage Wrench

- A unique design multiplies the turning force applied to a pipe.
- Ideal for freeing locked couplings and joints frozen by age or damage.
- Replaceable jaws are hardened alloy steel.

Catalog	Model	Nom.	Nom. Size Pipe Capacity		Wei	Std.		
No.	No.	in.	mm	in.	mm	lb.	kg	Pack
31375	S-2	_	_	2	50	71/4	3.3	1
31380	S-4A	-	-	5	125	33½	15.2	1
31385	S-6A	-	-	6	150	451/2	20.6	1
31390	S-8A	-	_	8	200	68½	31.1	1



Aluminum Pipe Wrenches

- Nearly 40% lighter than comparable cast-iron wrenches.
- Jaws and all other parts identical to RIDGID Heavy-Duty Wrenches.



Aluminum Straight Pipe Wrench

- Professional strength in lightweight aluminum.
- Offers the same durability and ease-of-use found in all RIDGID heavy-duty wrenches.

Catalog	alog Model Nom. Size		Pipe C	Pipe Capacity		ght	Std.	
No.	No.	in.	mm	in.	mm	lb.	kg	Pack
31090	810	10	250	11/2	40	1	0.4	6
47057	812	12	300	2	50	21/2	1.1	6
31095	814	14	350	2	50	21/2	1.1	6
31100	818	18	450	21/2	65	3¾	1.7	6
31105	824	24	600	3	80	6	2.7	6
31110	836	36	900	5	125	11	5.0	1
31115	848	48	1200	6	150	18½	8.4	1



Aluminum Offset Pipe Wrench

- Features a jaw opening parallel to the handle and a narrower hook jaw head.
- Provides easy entry into tight spots.

Catalog	Model	Nom. Size		Pipe Capacity		Weight		Std.
No.	No.	in.	mm	in.	mm	lb.	kg	Pack
31120	14	14	350	2	50	2	0.9	6
31125	18	18	450	21/2	65	31/2	1.6	6
31130	24	24	600	3	80	6	2.7	6



Aluminum	RanidGrin

- All the great benefits of the heavy-duty RapidGrip.
- 35% lighter than heavy-duty models.
- Ideal for overhead applications.

Catalog	Model	Nom	. Size	Pipe C	apacity Fittir Capa			Wei	ght	Std.
No.	No.	in.	mm	in.	mm	in.	mm	lb.	kg	Pack
12693	14	14	350	2	50	11/2	37.5	2.1	0.9	6
12698	18	18	450	3	75	21/2	62.5	4.3	1.9	6







Aluminum End Wrench

- Ideal for jobs in close quarters and overhead applications.
- Designed for easy access in close parallel lines.
- 40% lighter than heavy-duty wrenches.

Catalog	Model	Description	Nom.	Size	Pipe Ca	apacity	Weight		Std.
No.	No.	Description	in.	mm	in.	mm	lb.	kg	Pack
90107	E-910	Aluminum End	10	250	1½	40	1	0.4	6
90117	E-914	Aluminum End	14	350	2	50	2	0.9	6
90122	E-918	Aluminum End	18	450	21/2	65	3	1.4	6
90127	E-924	Aluminum End	24	600	3	80	5	2.2	6

Chain Wrenches



- A double jaw gives fast, ratchet-like action in either direction
- The heavy-duty model has replaceable alloy steel jaws.
- The light-duty model has a one-piece forged alloy steel handle and jaw. Ideal for use in close quarters.

Catalog No.	Model No.	Description		l Pipe acity		al O.D. acity	Cha Len		Wei	ght	Std. Pack
NO.	INU.		in.	mm	in.	mm	in.	mm	lb.	kg	Pack
31310	C-12	Light-Duty Chain	2	50	4	100	15¾	390	13/4	0.8	1
31315	C-14	Heavy-Duty Chain	2	50	5	125	18½	460	23/4	1.2	1
31320	C-18	Heavy-Duty Chain	21/2	60	5	125	201/4	500	6	2.7	1
31325	C-24	Heavy-Duty Chain	3	75	5	125	201/4	500	81/4	3.7	1
31330	C-36	Heavy-Duty Chain	41/2	110	71/2	185	29	725	15¾	7.1	1

Strap Wrenches





Catalog	Strap l	Length	Strap	Width
No.	in.	mm	in.	mm
31990	17	425	1/2	12
32015	17	425	11//8	30
32020	24	600	11//8	30
32025	30	760	11//8	30
32050	291/4	750	13/4	45
32055	48	1200	13/4	45
32035	17	425	1½16	27
32065	30	760	13/4	45

Replacement Straps

- · Best for any polished pipe.
- Strong, woven nylon strap gives tight grip.
- Two models available for plastic pipe.
- Polyurethane-coated strap.

Catalog	Model No.		igth		igth	Strap	Width		acity		acity	Wei	ight	Std. Pack
No.	NO.	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	lb.	kg	Pack
31335	1	113/4	300	17	425	1/2	12	2	50	31/2	90	11/4	0.5	1
31340	2	113/4	300	17	425	11//8	30	2	50	31/2	90	13/4	0.8	1
31345	2	113/4	300	30	760	11//8	30	2	50	51/2	135	13/4	0.8	1
31350	2	113/4	300	24	600	11//8	30	2	50	5½	135	13/4	0.8	1
31355	2P*	113/4	300	17	425	11/16	27	2	50	31/2	90	13/4	0.8	1
31360	5	18	450	291/4	750	13/4	45	5	125	7	175	2	0.9	1
31365	5	18	450	48	1200	13/4	45	5	125	12	300	2	0.9	1
31370	5P*	18	450	291/4	750	13/4	45	5	125	5½	135	21//8	1.0	1

^{*}Strap designed for use with plastic pipe.



Wrenches

Chain Tongs



- Designed and sized to provide extra leverage for the toughest jobs.
- All models feature double-end jaw styles which can be reversed, except Model 3215, which is a single-end tong.

	Catalog No.	Model No.	Description		tal igth		ipe acity	Chain	Length	Chain Breaking Load*		We	ight	Std.
	NU.	INO.	-	in.	mm	in.	mm	in.	mm	lb.	kg	lb.	kg	rack
Ī	92660	3215	Single-End	87	2209	4-18	114-457	74½	1892	56,000	25,401	156	71	1
	92665	3229	Double-End	27	686	1/4-21/2	13-73	171/2	445	13,800	6,260	11	5	1
	92670	3231	Double-End	37	939	3/4-4	26-114	221/2	572	17,600	7,983	21	10	1
	92675	3233	Double-End	44	1117	1-6	33-168	32	813	20,100	9,117	29	13	1
	92680	3235	Double-End	50	1270	1½-8	48-219	401/2	1029	22,000	9,979	39	18	1
L	92685	3237	Double-End	64	1625	2-12	60-323	55½	1410	31,000	14,061	67	30	1

^{*}All chains are tested to 2/3 of their breaking strength.

Hex Wrenches





- Hex jaw design gives multi-sided, secure grip on all hex nuts, square nuts, unions and valve packing nuts.
- The extra-wide opening offset model is ideal for securing drain nuts on sinks and tubs.
- Thin, smooth jaws slip into the tightest places.

Catalog	Model	Description	Nom.	Size	Pipe Cap	acity	Wei	ght	Std.
No.	No.	Description	in.	mm	in.	mm	lb.	kg	Pack
31305	E-110	Offset Hex	9½	240	11/8-25/8	29-67	1½	0.6	6
31275	17	Straight Hex	141/2	362	5/8-11/4	16-30	41/2	2.0	6
31280	25	Straight Hex	20	500	1-2	25-50	8¾	4.0	6

Spud Wrench



- 12" Spud Wrench features narrow jaws to fit into tight places.
- Smooth, toothless jaws ideal for square or rectangular stock.

Catalog	Model	Description	Nom.	Size	Pipe Cap	acity	Wei	ght	Std.
No.	No.	Description	in.	mm	in.	mm	lb.	kg	Pack
31400	_	Spud Wrench	12	300	3/8-25/8	10-67	21/2	1.1	1

Adjustable Wrenches



- High grade Chrome-Vanadium alloy steel.
- · Forged and heat-treated for durability.
- Cobalt-plated finish to reduce rust and corrosion.
- Jaw scales in SAE and metric for quick adjustment.
- Plumber's wide-mouth adjustable wrenches provide extended tapered jaws and a compact handle for hard to reach areas.

Catalog	Model	Danawinstian	Nom	. Size	Pipe Cap	acity	Wei	ight	Std.
No.	No.	Description	in.	mm	in.	mm	lb.	kg	Pack
86902	756	6" Adjustable	6	150	3/4	20	1/4	0.1	1
86907	758	8" Adjustable	8	200	7/8	25	1/2	0.2	1
86912	760	10" Adjustable	10	250	11//8	30	3/4	0.3	1
86917	762	12" Adjustable	12	300	15/16	35	1½	0.6	1
86922	765	15" Adjustable	15	375	11/16	40	3	1.3	1
86927	768	18" Adjustable	18	450	21/8	50	51/8	2.3	1
86932	774	24" Adjustable	24	600	27/16	60	91/4	4.2	1
16503	776	6" Plumber's Wide- Mouth Adjustable	6	204	7/8	25	3/4	0.4	2
16508	777	8" Plumber's Wide- Mouth Adjustable	8	255	11/8	33	1	0.5	2
16513	778	10" Plumber's Wide- Mouth Adjustable	10	305	15⁄16	35	1½	0.7	2

Internal Wrench



- · Holds closet spuds and bath, basin and sink strainers through 2". Use to install or extract 1" through 2" nipples.
- Jaws expand by eccentric action and are reversible for various sizes.

Catalog	Model	Description	Nom.	Size	Pipe Cap	acity	Wei	ght	Std.
No.	No.	Description	in.	mm	in.	mm	lb.	kg	Pack
31405	342	Internal	41/2	113	1-2	25-50	15⁄8	0.7	1





- · Spring-loaded jaws of forged alloy steel provide fast, one-hand ratcheting.
- Tension plug holds head in any position up to 90° angle.
- Telescopic shanks on Models 1017 and 1019 quickly adjust for lengths from 10" to 17".

Catalog	Model	Description	Non	n. Size	Pipe Cap	acity	Wei	ght	Std.
No.	No.	Description	in.	mm	in.	mm	lb.	kg	Pack
31170	1010	Basin	10	250	3/8 - 11/4	10-30	13/4	0.8	1
31175	1017	Telescoping Basin	10-17	250-425	3/8 - 11/4	10-30	2	0.9	1
31180	1019	Telescoping Basin	10-17	250-425	11/4-21/2	30-60	2	0.9	1



One Stop Wrench



- The One Stop Wrench is two wrenches in one.
- It provides the exact size wrench you need to install angle stops and compression couplings.



Catalog	Model	Description	Nom. Size		Wei	ght	Master
No.	No.	Description	in.	mm	lb.	kg	Pack
97452	2002	One Stop	_	_	.73	0.3	12

Faucet & Sink Installer



- Extra long to turn hard to reach mounting nuts on faucets, sprayers and ball cocks.
- Notched ends engage 2, 3, 4, and 6 tab basin nuts.
- Open slot allows easy access over existing supply lines.
- Shutoff valve attachment turns hard to reach angle stops without marring chrome.
- Strainer basket attachment holds drain unit in place while tightening strainer nut.
- Works with 1/8" & 1" metal or plastic hex nuts.
- Light-weight, high strength plastic construction with durable aluminum inserts.









Catalog	Model Description		Nom. Size		W	eight	Standard
No.	No.	Description	in.	mm	lb.	kg	Pack
66807 2006 Faucet & Sink Insta		Faucet & Sink Installer	101/4	260.35	0.77	0.35	6

Hand Tool Kit



- Adjustable wrenches feature increased capacity, precision broaching, and tapered jaws for reach.
- Tongue & groove pliers boast v-jaws and biased teeth for superior bite and grip.
- Pliers are high-strength forged and incorporate induction-hardened teeth and cutting edges for extended life.
- 6-in-1 multidriver has a contoured handle for superior feel and torque, plus easy to access reversible tips.

Catalog	Model	Description	Len	gth	Capa	city	We	ight
No.	No.	Description	in.	mm	in.	mm	lb.	kg
20243	-	Hand Tool Variety Case	_	-	-	-	9.5	4.4
86902	756	6" Adjustable Wrench	6	150	3/4	20	_	_
86907	758	8" Adjustable Wrench	8	200	7/8	25	_	_
86912	760	10" Adjustable Wrench	10	250	11/8	30	_	_
16503	776	8" Plumber's Wide Mouth	6	150	1	25	_	-
16508	777	10" Plumber's Wide Mouth	8	200	11/8	30	_	_
16458	767	8" Slip Joint Pliers	8	200	_	_	_	_
16483	761	7" Diagonal Cutters	7	178	_	_	_	_
16488	766	8" Long Nose Pliers	8	200	_	_	_	_
16493	763	9" Linesman Pliers	9	229	_	_	_	_
62352	709	9½" Tongue & Groove Pliers	9½	241	1¾	46	_	_
16468	710	10½" Tongue & Groove Pliers	10½	267	21/4	60	_	_
16573	1974	6-in-1 Screwdriver	8	200	_	_	_	_

Wrench Parts: Always Insist On Genuine RIDGID Parts



Wre Si				Handle A	ssembly		Nut	Pin	Heel Jaw & Pin Assembly	Coil & Flat Spring Assembly	Hook Jaw
		Pipe Cap.	Straight Iron	Straight Aluminum	End Iron	End Aluminum					
Str.	End		Catalog No.	Catalog No.	Catalog No.	Catalog No.	Catalog No.	Catalog No.	Catalog No.	Catalog No.	Catalog No.
6	E-6	3/4	31420	-	31470	-	31570	31575	31560	31565	31555
8	E-8	1	31425	-	31475	_	31595	31600	31585	31590	31580
10	E-10	1½	31430	31510	31480	93907	31615	31625**	31610	31620	31605
12	E-12	2	31435	49972	31485	_	31645	31650	31635	31640	31630
14	E-14	2	31440	31515	31490	93912	31665	31650**	31635	31660	31655
18	E-18	21/2	31445	31520	31495	93917	31685	31690	31675	31680	31670
24	E-24	3	31450	31525	31500	93922	31710	31715	31700	31705	31695
36	E-36	5	31455	31530	31505	_	31735	31740	31725	31730	31720
48	_	6	31460	31535	_	_	31760	31765	31750	31755	31745
60	_	8	31465	_	_	_	31785	31790	31775*	31780	31770
10 rap	rench	1½	32775	_	_	_	31615	31625	31610	31620	31605

^{*} Use with 60" Hook Jaw catalog number 31770.

** Pin for 10" Aluminum End Handle Assembly is catalog no. 95402. Pin for 14" Aluminum End Handle Assembly is catalog no. 95407.

For additional wrench parts, see RIDGID Hand Tool Parts Catalog.





Pipe Vises & Supports

- Wide selection of pipe accessories designed to work as one.
 Rugged construction for years of dependable service.

Pipe Vises & Supports	No. of Models	Pipe Capacity (in.)	Height Adj. (in.)	Page
Vises				
Portable TRISTAND®	5	1/8 - 6	_	2.2
Bench Chain	9	1/8 — 8	_	2.2
Stand Chain	1	1/8 - 5	_	2.2
Bench Yoke	5	1/8 — 6	_	2.3
Portable Chain & Yoke	2	1/8 - 5	_	2.3
Pipe Welding	4	1/8 — 8	-	2.3
Pipe Stands				
V Head	2	12	20 - 52	2.4
Ball Transfer	1	12	_	2.4
Roller Head	2	12	23 - 55	2.4
Conveyor Head	1	12	29 - 44	2.4
Adjustable	2	6	23 - 41	2.5
Support Stand	1	12	26 - 42	2.5
Adj. Roller Stand	1	36	_	2.5
Large Diameter Stand	1	24	16 – 79	2.5

Pipe Vises



Portable TRISTAND® Vises

- Models 460 and 40-A include integral legs and tray fold in for easy carrying and setup. Large vise base overhangs front legs for clear tool swing.
- Models 460 and 40-A include slots for hanging tools, pipe rest, three-pipe benders, and ceiling brace screw.
- Model 460 features a larger work surface, 6" diameter, rear support and receding ceiling brace screw.
- Model 425 features "quick grab", self-locking latch and carrying handle for ease of transport.

Catalog	Model	Model No. Description Pipe (in.		Pipe Capacity		Weight	
No.	No.			mm	lb.	kg	Pack
40130	40-A	Portable TRISTAND Yoke Vise	1/8-21/2	3-60	481/2	22.0	1
16703	425	Portable TRISTAND Chain Vise	1/8-21/2	3-60	32	14.5	1
72037	460	Portable TRISTAND Chain Vise**	1/8-6 3-150		47	21.0	1

^{**}Jaw for Plastic Pipe, Catalog No. 41280 available; order separately.



Stand Chain Vise

- Handy, portable stand chain vise.
- Sturdy cast-iron frame.
- Equipped with pipe rest, pipe bender, and tool tray. 1¼" pipe for legs and connecting pipe not furnished.

Catalog	Model			apacity	Weight		Std.
No.	No.	Description	in.	mm	lb.	kg	Pack
40165	560	Top Screw Stand Chain Vise	1/6-5	3-125	253/4	11.7	1



Bench Chain Vises

- · Crank handle is anchored to base.
- Rugged cast-iron base has handy pipe rest and bender. Capacities of 1/8" through 8".
- Two models available for plastic pipe. Toothless jaws are neoprene-coated to prevent scoring of pipe.

Catalog	Model	Description	Pipe Cap	acity	Wei	ght	Std.
No.	No.	Description	in.	mm	lb.	kg	Pack
40185	BC210	Top Screw Bench Chain Vise	1/8-21/2	3-60	73/4	11.7	1
40195	BC410	Top Screw Bench Chain Vise	1/8-4	3-100	14¾	3.5	1
40190	BC210P	Top Screw Bench Chain Vise*	½-2½ 0.D	15-70	73/4	6.7	1
40200	BC410P	Top Screw Bench Chain Vise*	1⁄2-41⁄2 O.D	15-110	15	3.4	1
40205	BC510	Top Screw Bench Chain Vise	1⁄8-5	3-125	14¾	6.6	1
40210	BC610	Top Screw Bench Chain Vise	1/4-6	6-150	24½	6.8	1
40215	BC810	Top Screw Bench Chain Vise	1/2-8	15-200	371/4	11.1	1
40175	BC2A	Bottom Screw Bench Chain Vise	1/8-2	3-50	6	17.3	1
40180	BC4A	Bottom Screw Bench Chain Vise	1/8-4	3-100	131/4	2.6	1

^{*}For Plastic Pipe and Tube







Bench Yoke Vises

 Yoke and base made of strong, dependable iron. Hardened alloy steel jaws and convenient pipe rest and bender.

Catalog	Model	Description	Pipe Ca	Wei	ght	Std.	
No.	No.	Description	in.	mm	lb.	kg	Pack
40080	21	Bench Yoke Vise	1/8-2	3-50	8¾	4.0	1
40085	22	Bench Yoke Vise	1/8-21/2	3-60	13	5.9	1
40090	23	Bench Yoke Vise	1/8-3	3-75	19¾	9.0	1
40100	25	Bench Yoke Vise	1/8-4	3-100	27¾	12.6	1
40110	27	Bench Yoke Vise	1/8-6	3-150	65	29.6	1



Portable Chain and Yoke Vises

- Light, strong, portable post chain vise fits any shape or kind of post.
- Model 640 features a tray for oil can, plus a handy pipe bender.
- Portable yoke vise easily attaches to plank, workbench or post.

	Catalog	Model	Description	Pipe Ca	apacity	Wei	Std.	
	No.	No.	Description	in.	mm	lb.	kg	Pack
	40125	39	Portable Kit Yoke Vise	1/8-21/2	3-60	15½	7.0	1
- 1	40170	640	Top Screw Post Chain Vise	1/6-5	3-125	23½	10.7	1









Pipe Welding Vises

- Made of durable performance-proven material and designed to resist strain, heat and warpage during tacking.
- Machined swivel nuts and pins, together with special chain screws, give smooth and trouble-free assembling of the vise onto pipe.

	Catalog	Model	Description	Pipe	Capacity	Wei	Std.	
	No.	No.	Description	in.	mm	lb.	kg	Pack
ľ	40220	461	Straight Pipe Welding Vise	1/2-8	15-200	15½	7.0	1
l	40225	462	Angle Pipe Welding Vise	1/2-12	15-300	183//8	8.4	1
I	40230	463	Elbow Pipe Welding Vise	21/2-8	60-200	14	6.4	1
	40235	464	Flange Pipe Welding Vise	21/2-8	60-200	171/4	7.8	1

Pipe Stands

A full range of heavy-duty adjustable pipe stands are available in varying configurations with capacity from $\frac{1}{2}$ "-36" (3mm-900 mm); suitable for use with threading machines, roll groovers, etc.



V Head Pipe Stands

Catalog No.		Model No.		Height Ad Low-	Max. Pipe Capacity		Max. Weight Capacity		Weight		
	NO.	NU.	·	in.	ст	in.	mm	lb.	kg	lb.	kg
Г	56657	VJ-98	V Head Low Pipe Stand	20-38	51-96	12	300	2500	1134	21	9.5
L	56662	VJ-99	V Head High Pipe Stand	28-53	71-132	12	300	2500	1134	23	10.4



Ball Transfer Head

Catalog No.	Model No.			Max. Pipe Capacity		Max. Weight Capacity		Weight		
NU.	NU.	•	in.	cm	in.	mm	lb.	kg	lb.	kg
37997	BTH-9	Ball Transfer Head S/VJ	-	-	12	300	1000	454	5	2.3



Roller Head Pipe Stands

Catalog No.	Model	Description		ljustment High		. Pipe acity		Weight acity	We	ight
	No.	·	in.	cm	in.	mm	lb.	kg	Ib .	kg
56667	RJ-98	Roller Head Low Pipe Stand	23-41	59-104	12	300	1000	454	24	10.9
56672	RJ-99	Roller Head High Pipe Stand	32-55	82-140	12	300	1000	454	27	12.3



Conveyor Head Pipe Stand

Catalog No.	Model No.	Description	Height Adjustment Low-High		Max. Pipe Capacity			Weight acity	We	ight
NO.	NO.	•	in.	cm	in.	in. mm	lb.	kg	lb.	kg
56682	CJ-99	Conveyor Head High Stand	29-44	74-112	12	300	1000	454	19	8.6







Adjustable Pipe Supports

Catalog No.	Model No.	Description		ljustment High		Pipe acity		Max. Weight Capacity		ight
NU.	INU.		in.	cm	in.	mm	lb.	kg	lb.	kg
42505	46	Adjustable Pipe Support	23-33	59-84	6	152	2500	1134	23	10.4
42510	92	Adjustable Pipe Support	32-41	81-104	6	152	2500	1134	28	12.7



Support Stand for Roll Groovers

Catalog	Model No.	el Description	Height Adjustment Low-High		Max. Pipe Capacity		Max. Weight Capacity		Weight	
No.	NO.	•	in.	cm	in.	mm	lb.	kg	lb.	kg
83380	965	Support Stand for Groovers	26-42	66-107	12	300	2500	1134	29	13.2



Adjustable Stand with Steel Rollers

Catalog	Model No.	Description	Heiç	jht	Max. Cap	Pipe acity		Weight acity	Weight	
No.	INO.	•	in.	cm	in.	mm	lb.	kg	lb.	kg
64642	AR99	Adj. Roller Stand w/Steel Wheels	34	86	36	900	2500	1134	30	13.6



Large Diameter Pipe Stand

Catalog No.	Model No.	Description	Height Adj Low-F			. Pipe acity		Weight acity	We	ight
NO.	INU.	•	in.	cm	in.	mm	lb.	kg	lb.	kg
96372	RJ-624	Large Diameter Pipe Stand	16-31	41-79	24	610	4500	2041	167	75.7





Pipe/Tube Cutting & Preparation

- Wide selection from a single source.
- Durable designs.
- Exclusive features for maximum productivity.

Туре	No. of Models	Pipe Capacity	Page
Pipe Cutters			
Heavy-Duty	7	1/8" - 6"	3.2
4-Wheel	2	3/4" — 4"	3.3
Wide Roll	1	1/8" — 2"	3.3
Hinged	11	2" - 12"	3.3
Soil Pipe	5	1½" – 8"	3.4-3.5
Torque Wrench	2	_	3.5
Replacement Cutter Wheels	21	_	3.6
Pipe Reamers / Extractor / Ta	ps		
Reamers	4	1/4" — 4"	3.7
Extractors	9	1/8" — 2"	3.7
Extractor Sets	4	1/8" — 1"	3.7
Pipe Taps	11	1/8" — 2"	3.7
Power Pipe Cutting	2	2½" – 12"	3.8 - 3.9
Dry Cut Saws	3	12" — 14"	3.10 - 3.11
Copper Cutting & Prep	2	1/2 " — 4"	3.12
Tubing Cutters	24	1/8" - 65/8"	3.13 - 3.16
Replacement Cutting Wheels	19	-	3.16
Plastic Pipe Cutters	5	1/8 "- 23/8"	3.17
Copper Cleaning Brush/ Machine Accessories	2	1/4" — 6"	3.18
Conduit Sizing Tool	1	1/2 "— 3/4"	3.18
Reamers, Deburring Tools	6	1/4" — 4"	3.19

Pipe Cutters

Pipe Cutter Selection

	Material / Diameter		D	ipe Cutter	Page No.
Steel / Stainless	Heavy Wall Steel	Cast Iron	F	ipe Guiler	raye No.
1⁄8"	- 6"		Heavy-Duty	6	3.2 - 3.3
3/4"	- 4"		4-Wheel		3.3
1⁄8"	- 2"		Wide-Roller		3.3
2" -	12"		Hinged		3.3
		1 1/2" - 8"	Soil Pipe	*	3.4 - 3.5



Heavy-Duty Pipe Cutters

- Fast, clean pipe cutting by hand or power.
- Extra-long shank protects adjustment threads, while an extra-large handle is provided for quick, easy adjustment.
- Can be converted to 3-wheel cutter by replacing rollers with cutter wheel, or the 2A and 4S can be ordered as 3-wheel model for use in areas where a complete turn is not possible.
- Second handle on 3-S, 4-S and 6-S makes two-man leverage possible on large pipe sizes.

Catalog	Model	Pipe Cutter		apacity nal Size	Wei	ght
No.	No.	Description	in.	mm	lb.	kg
32810	1-A	Heavy-Duty	1/8-11/4	3-32	61/2	3.0
32820	2-A	Heavy-Duty	1/8-2	3-50	7	3.2
32825	2-A	2-A 3-Wheel Heavy-Duty	1/6-2	3-50	7	3.2
32830	3-S	Heavy-Duty	1-3	25-75	15	6.9
32840	4-S	Heavy-Duty	2-4	50-100	18	8.2
32845	4-S	4-S 3-Wheel Heavy-Duty	2-4	50-100	18	8.2
32850	6-S	Heavy-Duty	4-6	100-150	22	10.0





4-Wheel Pipe Cutters

- Designed for work in areas where a complete turn is impossible.
- No. 42-A has a short handle for use in confined areas.
- Second handle on No. 44-S makes two-man leverage possible for large pipe sizes.
- Both equipped with four heavy-duty wheels.

Catalog	Model No.	Pipe Cutter Description Pipe Capacity Nominal Size				ght
No.	NO.	Description	in.	mm	lb.	kg
32870	42-A	Heavy-Duty 4-Wheel	3/4-2	20-50	63/4	3.1
32880	44-S	Heavy-Duty 4-Wheel	21/2-4	60-100	20	9.1



Wide-Roll Pipe Cutter

- Featuring extra-wide rolls, this cutter is especially designed for use with power drives.
- The wide rolls provide for true tracking and cleaner cuts.

Catalog	Model			apacity nal Size	Weight	
No.	NO.	Description	in.	mm	lb.	kg
32895	202	Heavy-Duty Wide Rolls	1/8-2	3-50	8	3.5

^{*} Furnished with X-tra™ sharp wheel for up to 40% faster cutting.



Hinged Pipe Cutters

- Designed for rapid cutting of 2" through 12" steel pipe, heavy-wall steel pipe and cast-iron pipe.
- The 11 models operate with minimal cutter rotation as necessary for tight quarters.
- Second handle included for 466, 472 and 468 makes two-man leverage possible for large pipe sizes.

Catalog No.	Model No.	Pipe Cutter Description	Pipe Capacity Nominal Size		Weig	ht
INO.		Description	in.	mm	lb.	kg
74227	424-CI	For Cast/Ductile Iron	2-4	50-100	131/2	6.0
83080	466-S*	For Steel Pipe	4-6	100-150	281/2	13.0
83085	466-HWS*	For Heavy-Wall Steel Pipe	4-6	100-150	28½	13.0
74685	466-CI	For Cast-Iron Pipe	4-6	100-150	281/2	13.0
83145	468-S*	For Steel Pipe	6-8	150-200	33	15.0
83150	468-HWS*	For Heavy-Wall Steel Pipe	6-8	150-200	33½	15.2
74700	468-CI	For Cast-Iron Pipe	6-8	150-200	331/2	15.2
83165	472-S*	For Steel Pipe	8-12	200-300	411/2	19.0
83170	472-HWS*	For Heavy-Wall Steel Pipe	8-12	200-300	42	19.1
74710	472-CI	For Cast-Iron Pipe		8-12	200-300	42

^{*} Furnished with X-tra sharp wheel for up to 40% faster cutting.





Soil Pipe Cutters



No. 226 In-Place Soil Pipe Cutter

- The RIDGID 226 In-Place Soil Pipe Cutter is a compact, lightweight tool designed to cut hub and no-hub soil pipe in tight quarters.
- Only 17" long, the Model 226 is perfect for cutting cast iron, concrete and clay pipe where space is limited.
- The Model 226 is especially suited for against-the-wall and other tight quarter applications.
- From the Model 226's compact design to its unique chain latching mechanism, every feature has been engineered for maximum productivity.



No. 206 Soil Pipe Cutter

- Cuts 1½"-6" No Hub® soil pipe.
- Lighter weight and closer spacing of cutter wheels, together with simple ratcheting action, give smooth cut on lighter wall pipe.
- Ratchet-action handle parallel to pipe allows for application in trenches of minimum width.
- Complete with hand guard to protect operator's knuckles when cutting.



No. 246 Soil Pipe Cutter

- Cuts 1½"-6" clay, cast-iron or cement pipe and 4" class 22 water main.
- Ratchet-action handle parallel to pipe allows for application in minimum width trenches.
- · Complete with hand guard to protect operator's knuckles when cutting.



No. 276 Soil Pipe Cutter

- Provides one stroke cutting of 1¹/₂"-6" service weight, No Hub soil pipe, clay and concrete pipe. Makes repeated cuts quickly.
- Expand capacity up to 8" service weight soil pipe by ordering Catalog No. 33665 Chain Extension Assembly.

Soil Pipe Cutter Tool Capacity/Selection

- Models 206, 226 and 276 all have the same chain.
- Model 246 has a heavier chain.

	Mod	del		Material/Size
226	206	276	246	
*	*	*	*	Clay pipe, 8"
*	*	*	*	Service weight cast iron solid pipe, 8"
*	*	*	*	No hub cast iron soil pipe, 8"
•	•	•	•	Concrete pipe, 4"-6"
•	•	•	•	Clay pipe, 1½"-6"
ĺ			•	Class 22 water main, 4"
			•	Extra heavy-duty cast iron soil pipe, 2"-5"
•	•	•	•	Service weight cast iron soil pipe, 1½"-6"
•	•	•	•	No hub cast iron soil pipe, 1½"-6"
Stan	dard chai	in. *Chair	n with one	e chain extension.

Ordering Information

Model	Catalan Na	Dogarintian	Сар	acity	We	ight	Std.	Replmt. Chain
No.	Catalog No.	Description	in.	mm	lb.	kg	Pack	Cat #
68650	206	Soil Pipe Cutter No Hub	11/2-6	50-150	18	8.2	1	33670
69982	226	In-Place Soil Pipe Cutter	1½-6	50-150	18	8.2	1	33670
32900	246	Soil Pipe Cutter	1½-6	50-150	25	11.3	1	34575
74207	276	Soil Pipe Cutter	11/2-6	50-150	23¾	11.7	1	33670
32905	228	Soil Pipe Assembly Tool	1½-8	50-200	22¾	10.3	1	_
33665	206/226/276	Chain Extension Assembly*	_	_	1	3.5	1	_
34570	246	Chain Extension Assembly*	_	_	1	3.5	1	_

^{*} Do not use more than one chain extension.



- Handles all 1½" through 8" gasketed soil pipe without extra, loose attachments.
- Easy assembly of Y, tee and elbow fittings, as well as straight lengths from any angle.
- Slim, compact design lets one man assemble even large sizes quickly and easily.
- · Removal of handle facilitates vertical and overhead pipe assembly.

No. 902 Torque Wrench

- Preset to eliminate guesswork in No Hub soil pipe installations.
- Assures proper coupling tightness for strong, leak-free joints.
- The 5/16" drive tightens with a fast ratchet action until the wrench clicks for accurate 60 inch-pounds torque.

No. 904 Torque Wrench

• The ³/₈" drive tightens with a fast ratchet action until the wrench clicks for accurate **80** inch-pounds torque.

Catalog	Model	Description	Tor	que	We	ight	Std.
No.	No.	Description	in. lb.	NM	lb.	kg	Pack
31410	902	Torque Wrench for No Hub Cast-Iron Soil Pipe Couplings	60	6.8	1/2	0.2	1
14988	904	Torque Wrench for No Hub Cast-Iron Soil Pipe Couplings	80	9.0	1/2	0.2	1





Pipe Cutter Replacement Wheels



Always use genuine RIDGID Cutter Wheels. These wheels are precision-machined from high-grade steel and are engineered for long life and maximum cutting accuracy.

10	Pipe C Original			Catalog No.	32810	32820	32830	32840	32850	32870	32880	32895	68650	32860	32865	69982	32900/74207	42370	73162	74227	74685	83080	83085	74700	83145	83150	74710	83165	83170	42390/34617	58657	26212	
,,,		del	ioti	Model No.	1A	2A	38	48	S9	42A	44S	202	206	208	209	226	246/276	360	424S	424CI	466C	466S	466HWS	468C	468S	468HWS	472C	472S	472HWS	820/364	732	764	
	Catalog No.	Model No.	Standard Pack	Blade Exp.																													Application/Material
	33220	E-109	1	.360									•			•	П						П										Cast Iron
	44185	E-1032	6	.450								•				\neg	寸	•					\exists							•	•		Steel Pipe & Ductile Iron
	44190	E-1032S	6	.450								A						A												A	A		S.S. Pipe
	33135	E-1962	1	.265			•	•			•										•	•	•	•	A	•	•	•	•				Grey Cast Iron
	33225	E-2632	1	.244													•																Cast Iron
	83140	E-3186	1	.680											İ	İ					•	•	•	A	A	•	•	•	•				Steel & Ductile Iron HW
	75557	E-4266	4	.665																	A	A	A	lack	lack	A	A	A	A				Heavy Wall Steel
els	75572	E-2267	4	.400															•	•													Cast & Ductile Iron
Cutter Wheels	33105	F-3	12	.312	A	A				•		A						A						Ì						A	A		Steel & Ductile Iron
<u> </u>	33110	F-3S	6	.312	A	A				A		A						A												A	A		S.S. Pipe
l H	33115	F-119	1	.132	•	A				A		A						A												A	•		Grey Cast Iron
Ö	33125	F-229	6	.411			▲	▲			•										▲	•	A	A	•	▲	•	•	▲			•	Steel & Ductile Iron
	33130	F-229S	6	.411			•	▲			A										A	A	A	A	A	•	A	A	A			A	S.S. Pipe
	75567	F-366	4	.375															•	•													Steel Pipe
	33145	F-367	1	.470					•					•	•																		Steel & Ductile Iron
	33150	F-367-S	1	.470					•					•	•								\Box										S.S. Pipe
	33155	F-383	1	.265				Ш	A					▲	A		_																Grey Cast Iron
	33100	F-514	12	.312	•	•				A		•						A					Ц							A	A		Steel & Ductile Iron
	33120	F-515	6	.411			•	•			▲										▲	A	A	A	A	A	A	A	A			▲	Steel & Ductile Iron
	75562	F-546	4	.433																	▲	▲	A	▲	A	▲	•	▲	▲				Steel Pipe

[●] Denotes Cutter Wheels furnished with original product. ▲ Denotes alternate Cutter Wheel.

Reamers, Extractors & Taps



Pipe Reamers

- No. 2-S Spiral Ratchet Reamer Self-feeding spiral design for extra-fast and easy hand reaming. Model 2-S Reamer is not suitable for power reaming.
- Nos. 2 and 3 Ratchet Reamers Long taper design will not dig in. Suitable for use with power drives.
- No. 254 Spiral Ratchet Reamer Hollow center reduces weight. Large pressure plate. Hardened alloy steel cone removable for sharpening. Not suitable for power reaming.

Catalog	Model	Description	Сар	acity	Wei	ght	Std.	Replacement
No.	No.	Description	in.	mm	lb.	kg	Pack	Cone Cat. No.
34955	2-S	Spiral Reamer	1/4 - 2	6-50	71/4	3.3	1	35020
34945	2	Straight Reamer	1/8 - 2	3-50	7	3.2	1	34975
34950	3	Straight Reamer	3/8 - 3	9-75	11½	5.2	1	35090
34960	254	Spiral Reamer	21/2 - 4	62-100	14	6.4	1	35135

Note: All reamers include handle.

Pipe Extractors

- RIDGID pipe extractors make easy work of removing broken threaded ends of pipe, pipe plugs and fittings. Available for schedule 40 and 80 pipe.
- Each is plainly marked showing drill size used when solid ends of plugs and fittings must be drilled to receive extractor.



Individual Pipe Extractors

Catalog No.	Model No.	Catalog No.	Model No.	Pipe	Size		igth rall	Use	Use Drill		ight	Std.
Schedule 40	Schedule 40	Schedule 80	Schedule 80	in.	mm	in.	mm	in.	mm	OZ.	g	Pack
35595	80	-	-	1/8	3	21/4	56	1/4	6	3/4	21	6
35600	81	_	_	1/4	6	21/2	62	3/8	9	11/2	43	6
35605	82	_	_	3/8	10	23/4	69	1/2	12	21/2	61	6
35610	83	35640	83E	1/2	12	3	65	5/8	16	4	113	6
35615	84	35645	84E	3/4	20	31/4	81	13/16	20	71/2	213	6
35620	85	35650	85E	1	25	31/2	87	11/16	26	121/2	354	6
35625	86	35655	86E	11/4	32	3¾	94	13/8	34	20	567	6
35630	87	35660	87E	11/2	40	4	100	19/16	39	26	737	6
35635	89	35665	89E	2	50	41/2	112	21/16	52	50	1417	6

Pipe Extractor Sets

Catalog	Model	Capacity/I	Pipe Size	Set includes	We	Std.	
No.	No.	in.	mm	Set includes	OZ.	g	Pack
35670	880	1/8 - 1/2	3-12	Nos. 80 to 83 Inclusive	8	227	1
35675	881	1/4 - 3/4	6-20	Nos. 81 to 84 Inclusive	16	454	1
35680	882	1/4 - 1	6-25	Nos. 81 to 85 Inclusive	28	794	1
35685	883	1/8 - 1	3-25	Nos. 80 to 85 Inclusive	28	794	1



Pipe Taps: Hand Use Only

- Made from carbon steel in right hand configuration only.
- These taps are especially suited for restricted area work.
- All taps have taper of ¾" per foot.
- Marked with drill size for pilot hole.

Catalog	Model	Description	Drill		ninal Size	Threads Per	We	ight	Std.
No.	No.	2000.1.	Size	in.	mm	Inch	lb.	kg	Pack
35815	E-5112	1/4 " Pipe Tap-NPT	21/64	1/8	3	27	1/16	0.03	1
35820	E-5113	1/4" Pipe Tap-NPT	7∕16	1/4	6	18	1/8	0.06	1
35825	E-5114	3/4" Pipe Tap-NPT	9/16	3/8	10	18	1/4	0.1	1
35830	E-5115	½" Pipe Tap-NPT	45/64	1/2	12	14	1/4	0.1	1
35835	E-5116	34" Pipe Tap-NPT	29/32	3/4	20	14	1/2	0.2	1
35840	E-5117	1" Pipe Tap-NPT	19⁄64	1	25	11½	1	0.5	1
35845	E-5118	11/4" Pipe Tap-NPT	1 ³¹ /64	11/4	32	11½	11/4	0.6	1
35850	E-5119	1½" Pipe Tap-NPT	147/64	11/2	40	11½	2	0.9	1
35855	E-5120	2" Pipe Tap-NPT	213/64	2	50	11½	31/4	1.5	1

Power Pipe Cutters



Power Pipe Cutter / Model 258 21/2" to 8" Diameter Pipe — Patented Performance

The RIDGID Model 258 Power Pipe Cutter cuts 2½" to 8" schedule 10*/40 steel pipe, galvanized pipe, rigid conduit etc. at the job site or in the shop. Powered by the RIDGID No. 700 Power Drive, the 258 is a displacement cutter that provides square cuts. The operator controls the feeding rate by pumping the hydraulic foot pump throughout the operation. A square cut with minimal burr on either 21' or nipple lengths of pipe is achieved quickly** without abrasive dust, sparks, or open flame. Also, the RIDGID Pipe Roller for beveling can be used to rotate the pipe while a second operator uses a grinder to bevel the pipe. Some of the 258 advantages are:

- Square cut 21' or nipple lengths of pipe without effort.
- Easily cuts by displacing instead of removing pipe material.
- No abrasive dust, dangerous sparks, or open flame.
- Quickly cuts steel pipe with minimal burr.
- Great for cutting pipe for groove joining.
- Heavy-duty design is perfect for field or shop use.
- · Adaptable for beveling.

Specifications

- Cutting Capacity: Model 258 21/2" to 8" schedule.
- 10*/40 steel pipe.
- Model 700 Power Drive (not included, see page 4.15).
- Power Drive RPM: 26-30 (no load).
- Weight: 105 lbs. (excludes No. 700 Power Drive, see page 4.15).

Standard Equipment

- One RIDGID 774 Square Drive Adapter.
- One 81/2" HD Cutter Wheel Assembly.
- One Hydraulic Ram and Foot Pump.
- Two 21/2" to 12" Ball Transfer Pipe Supports.
 - *Use the thin wall cutter wheel for best results.
 - **Cutting time varies with pipe schedule and diameter.

Note: Models 258 and 258XL are not recommended to cut cast iron pipe. For optimum wheel life always properly support the work piece with ball transfer pipe supports (see accessories on page 3.9).



Model 700 ready for mounting on Model 258 Unit, see page 4.15



Model 258 with Pipe Roller in use for beveling. Two operators are recommended for this operation.



Model 258 Pipe Cutter with No. 700 Power Drive in use for cutting.







Power Pipe Cutter / Model 258XL 8"-12" Diameter Pipe

The RIDGID 258XL offers 8"-12" diameter pipe cutting capacity. Utilizing displacement type cutter wheel technology, the patented design enables larger diameter pipe to be cut to length. The 258XL also uses the RIDGID 700 Power Drive to rotate the heavy-duty cutter wheel. Now one person can easily square cut 12" schedule 40 pipe in minutes.

Specifications

- Cutting Capacity: Model 258XL: 8"-12" schedule 10*/40 steel pipe.
- Model 700 Power Drive (not included) RPM: 26-30 (no load).
- Weight: 140 lbs. (excludes No. 700 Power Drive, see page 4.15).

Standard Equipment

- One RIDGID 774 Square Drive Adapter.
- One 81/2" H-D Cutter Wheel Assembly.
- One Hydraulic Ram and Foot Pump.
- Two 21/2" to 12" Ball Transfer Pipe Supports.

*Use the thin cutting wheel for best results.

Note: For optimum wheel life properly support the work piece with standard ball transfer pipe supports (see below).





Pipe Roller For Beveling (Model 258 Only)



Transport Cart

Catalog	Model	Description	Weight							
No.	No.	Description	lb.	kg						
50767	258	2½"-8" Pipe Cutter	105	48						
58227 258-XL 8"-12" Pipe Cutter 140 63										
Note: 700 Power Drive not included. For information on 700 Power Drive see page 4.15.										

Accessories

66687	-	8½" H-D Cutter Wheel Assembly (includes HD Cutter Wheel, hub w/pins, cover plate)	13	5.9
50812	E-258	8½" H-D Cutter Wheel only	2	1
58222	E258-T	8½" Thin Wall Cutter Wheel Only (PVC and Steel)	2	1
54397	-	Transport Cart	24	11
60002	258PS	Ball Transfer Pipe Support 2½"-12"	7	3.1
60007	-	Replacement Ball Transfer Head Set	51/2	2.5
61757	-	Pipe Roller for Beveling (for Model 258 only)	13	6



Saws



Dry Cut Saw / Model 614

The Model 614 features carbide-tipped blades to cut different materials and geometric configurations without cutting fluid. Cutting with the Model 614 generates no burr, abrasive dust or heat, providing clean and fast cuts on steel, copper, plastic and wood. Either straight or miter, the Model 614 offers the largest cutting capacity in its class.

Specifications

- Powerful 15 amp 2HP motor.
- Miter cut up to 45°.
- Blade dimensions 14" x 80T x .087" x 1".
- Spindle lock.
- · Dust collector.

- Built-in maintenance tools.
- Exclusive quick-acting vise.
- Approved by CSA to CSA and UL standards (115V only).

Standard Equipment

- One dry cut saw with quick acting vise.
- One 14" 80 tooth blade (installed).
- Two maintenance tools.

Catalog	Model	Description	We	eight
No.	No.	Description	lb.	kg
71687	614	Dry-Cut Saw, 115V, 60Hz	47	21
72862	614	Dry-Cut Saw, 230V, 60Hz*	47	21

^{*}Not for sale in the U.S. or Canada

Blades for RIDGID Models 614 and 590 Dry Cut Saws

Catalog	Model	Description	Weight				
No.	No.	Description	lb.	kg			
71697	-	12" Carbide-Tipped Blade 60 Tooth	2	0.90			
71692	-	14" Carbide-Tipped Blade 80 Tooth	3	1.30			

Model 614 Capacity

Cutting Angle	Workpiece Geometry		
	0		
90° Cuts	5½" O.D.	3¾" x 7"	4¾" x 4¾"
	130mm	95mm x 180mm	120mm x 120mm
45° Cuts	41⁄8" O.D.	31⁄3" x 4"	4¾" x 4¾"
	105mm	80mm x 100mm	90mm x 90mm



Abrasive Saw / Model CM1450

From pipe to angle iron, rebar to metal studs, the Model CM1450 can handle the work. The CM1450 makes work easier and more productive with the comfortable D-grip handle and the ability to make 45° cuts from right or left angles.

Benefits

- Heavy-duty cast iron base with non-slip rubber feet Sturdy support during operation, less vibration.
- D-Handle grip Ergonomic handle maximizes user comfort.
- Die Cast aluminum motor housing with externally accessible brushes Helps dissipate heat; easy to replace worn brushes.
- Tool-less fence adjustment Quick and easy fence adjustment for angle cuts.
- Arbor lock and arbor wrench included Wrench is stored under the base to allow easy removal of abrasive disk.

Specifications

- Miter Capacity: 45° left / 45° right.
- RPM: 3900.
- Motor: 15 amp.
- Abrasive Disk: 14" Diameter: 1" Dia. arbor hole, 3/16" thick.
- UL Listed and Approved to CSA Standards.

Catalog No.	Model No.	Description	Weight					
Catalog IVO.	IVIOUCI IVO.	Description	lb.	kg				
10888	CM1450	14" Abrasive Chop Saw, 115V, 60Hz	55	24.9				
42956	_	Pack of 10 Abrasive Disks for Steel	135%	6.2				

Capacity: at 90° Cutting Angle

Applicable Wheel Dimensions		355mm (14") (Thickness x 2			4.5mm (¾6")	
Workpiece Configuration (Cross-Section)	→ a →			□ a ◄	a 12.7mm	1/2" (12.7mm) a 4 a 1
Maximum Cutting Capacity "a"	½" (12.7mm)	2" (50.8mm) Square or Round	5" (127mm) ½" wall (12.7mm) thickness	4½" (114.3mm) ½" wall (12.7mm) thickness	½" (12.7mm) Solid	5" (127mm)

Copper Cutting Prep Machines





Model 122XL

Model 122 Capacity

• Copper Tube: 1/2" - 2" (12mm - 60mm).

• Copper Fittings: 1/2" - 2" (12mm - 60mm).

Model 122XL Capacity

• Copper Tube: 1/2" - 4" (12mm - 120mm).

• Copper Fittings: 1/2" - 4" (12mm - 120mm).

These machines are designed to cut, clean, ream, and debur copper tubing and fittings quickly and professionally. Weighing only 50 pounds and 80 pounds, respectively, and possessing a conveniently located carrying handle, the Models 122 and 122XL are ideal for transport directly to the job site. Rugged cast aluminum housing and powerful 1/3 HP induction motor assure long life.

Features

- Powerful, 1/3 HP induction motor drives rollers at 450 RPM (122), 300 RPM (122XL).
- Rugged O.D. Cleaning Brush cleans tubing quickly with minimal effort.
- Core Reamer easily removes turbulence-causing burrs.
- Cutting Handle adjusts to accommodate different tubing sizes.
- Cutter Wheel tested to over 10,000 cuts.
- Guide Rollers ensure a straight cut with no tracking.
- Large Carrying Handle for easy transport to the job site.
- Built-in ½"-Incremental Scale for guick, easy measuring.
- Fitting Brush Kit includes six brushes, storage rack and collet.
- Approved by CSA to CSA and UL standards (115 V only).

Technical Specifications

- Motor: 1/3 HP, 115V, 60Hz Induction Motor.
- Switch: Toggle On/Off.
- Cutter Wheel: Model 2191 HD Wheel (122).
- Cutter Wheel: Model 122 SS (122XL).
- Roller Speed: 450 RPM (122), 300 RPM (122XL).
- Reamer: Single Flute Cone, RH, 1/2" to 2" (122).
- Reamer: Single Flute Cone, RH, 1/2" to 2" (122XL).

Standard Equipment

Model 122

- One O.D. Cleaning Brush.
- One Core Reamer.
- One Fitting Brush Storage Kit.

Model 122XL

- One O.D. Cleaning Brush.
- One O.D. Deburring Disk.
- One Core Reamer (Maximum pipe size: 2" in diameter).



The heavy-duty O.D. Cleaning Brush cleans the outside diameter of ½" or 2" copper tubing quickly and easily.



The Inner Reamer removes turbulence-causing burrs quickly and effortlessly.



The optional fitting brush attachments can be used to clean fittings fast.



The optional Debur Disk is used to grind the O.D. edge to help with tight fittings.

Catalog	Model	Description	We	eight
No.	No.	Description	lb.	kg
93492	122	115V Copper Cutting/Prep Machine ½"-2"	50	22.68
10973	122XL	115V Copper Cutting/Prep Machine ½"-4"	83	37.65

Accessories				
93717	-	½" Fitting Brush (3 Per Pack)	1/2	0.24
93722	_	3/4" Fitting Brush (3 Per Pack)	1/2	0.26
93727	_	1" Fitting Brush (3 Per Pack)	3/4	0.27
93732	_	11/4" Fitting Brush (3 Per Pack)	3/4	0.29
93737	_	1½" Fitting Brush (3 Per Pack)	13/4	0.77
93742	_	2" Fitting Brush (3 Per Pack)	13/4	0.79
12638	_	2½" Fitting Brush (3 Per Pack)–122XL Only	13/4	0.79
12643	_	3"-4" Fitting Brush (3 Per Pack)—122XL Only	2	0.82
94682	_	O.D. Cleaning Brush	1	0.44
46105	_	O.D. Debur Disk	11/4	0.57
93747	_	Quick-Change Collet	21/4	0.95
93712	_	Fitting Brush Holder	6	2.63
93707	_	Fitting Brush Storage Kit Includes Mountable Storage	3	1.39
		Rack, Quick-Change Collet, Spare Cutter Wheel, and		
		Brushes (½", ¾", 1", 1¼", 1½", 2")		
36662	301A	Model 301A Foot Switch–120V	71/2	3.39
33175	2191	Cutter Wheel for Copper	1/4	0.01
33551	122SS	Cutter Wheel for Copper and Stainless Steel	1/4	0.01
10343	-	Wheel Pin for 33551 Cutter Wheel	1/4	0.01
42360	1206	1206 Stand	31	14.06
94687	-	2" Reamer Cone Assembly	1/16	0.02

Tubing Cutters

Tubing Cutter Selection

	Material	Cut	Dawa Na			
Steel / Stainless	Copper	Plastic / PVC	Aluminum	Cui	ner	Page No.
	1/8" -	- 1 ½"		Close Quarters		3.13
	½"·	Constant Swing	.98	3.14		
	1⁄8" ⋅	Tubing & Conduit		3.15		
	1/6" -	- 6 %"		Quick Acting	19:0	3.15
		1⁄8" - 23⁄8"		Plastic Pipe		3.17
½" - 4'				Copper Cutting Machines		3.12





Close Quarters Tubing Cutters

- Specifically designed for use in restricted spaces on small diameter, hard and soft copper, aluminum, brass and plastic tubing; rollers include grooves for close-to-flare cuts.
- Strong, lightweight slide and wheel housing, large knurled feed screw knob gives easy control of cutting pressure for clean cuts.
- Models 117 and 118 include a self-feeding cutter wheel that automatically cuts after tightening the knob only once.
- The Model 117 features a special knob for easier tightening of the feedscrew.

Catalog	Model	Description	Std.	Capa	city	We	Std.	
No.	No.	Description	Wheel	in.	mm	lb.	kg	Pack
40617	101	Close Quarters Cutter*	E-3469	1/4-11/8	6-28	1/2	.23	6
32975	103	Close Quarters Cutter	E-3469	1/8-5/8	3-16	1/3	.15	6
32985	104	Close Quarters Cutter	E-3469	3/16- ¹⁵ /16	5-24	1/3	.15	6
97787	117	Close Quarters Quick-Feed Cutter	E-3469	3/16- ¹⁵ /16	5-24	1/3	.15	6
86127	118	Close Quarters Quick-Feed Cutter*	E-3469	1/4-11/8	6-28	5⁄8	.26	6

^{*} Models 101 and 118 include spare cutter wheel in knob



X-CEL™ Means Speed

Many of our most popular tubing cutters now include several X-CEL features to make your job quicker and easier.

- X-CEL Knob cut tubing more quickly and easily with our larger, more ergonomic designs.
- X-CEL Wheel Pin change your cutter wheel quickly using our new ball detent design...no tool needed...no lost clips!
- Spare cutter wheels included for maximum uptime.





Model 150

Constant Swing Cutters with New X-CEL Features

- Telescoping feed screw design keeps the cutter at the same length regardless of tubing diameter – good for tight spaces.
- · Features an enclosed feed screw to eliminate clogging and jamming, grooved rollers for close-to-flare cuts, and a fold-away reamer.
- Now includes X-CEL Knob and X-CEL Pin for quicker cutting and wheel replacement.
- · Made from high-strength zinc alloy.
- · Spare cutter wheel included in the knob.
- · Cuts copper, brass, and aluminum tubing and thin-wall conduit.

Catalog	Model	Description	Std.	Capa	city	We	Std.	
No.	No.	Description	Wheel	in.	mm	lb.	kg	Pack
31622	150	Constant Swing Cutter	E-3469	1/8-11/8	3-28	1	0.44	6
31627	150	Above w/H-D Wheel(s)	E-4546	1/8-11/8	3-28	1	0.44	6
66737	150-L	Constant Swing Cutter	E-3469	1/4-13/8	3-35	1	0.44	6
66742	150-LS	Above w/H-D Wheel(s)	E-4546	1/4-13/8	3-35	11//8	0.47	6



Enclosed Feed Cutters

- Cuts copper, brass and aluminum tubing and thin-wall conduit.
- Both Enclosed Feed Cutters have a quick-acting mechanism for faster size adjustments.
- · Spare cutter wheel.

Catalog	Model	Description	Std.	Capa	city	We	eight	Std.
No.	No.	Description	Wheel	in.	mm	lb.	kg	Pack
33055	205	Ratcheting Encl. Feed Cutter	E-3469	1/4-23/8	6-60	2	.91	1
33070	205	Above w/H-D Wheel(s)	E-4546	1/4-23/8	6-60	2	.91	1





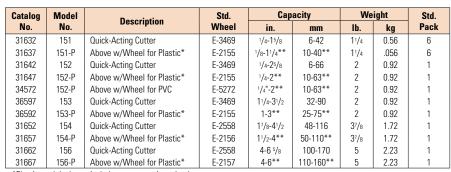
Tubing & Conduit Cutters with New X-CEL Features

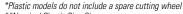
- Clean, square cuts are easily made on copper, brass, aluminum and thin-wall conduit.
- Now includes X-CEL Knob for quicker cutting.
- Nos. 10, 15 and 20 feature a convenient fold-away reamer.
- No. 30 is rated for larger diameter steel and stainless steel tubing.
- No. 15-SI is especially designed for stainless steel tubing. Includes special roller bearings and cutter wheel to make stainless cutting easier.

Catalog	Model	Description	Std.	Capa	acity	We	ight	Std.
No.	No.	Description	Wheel	in.	mm	lb.	kg	Pack
32910	10	Tubing and Conduit Cutter	F-158	1/6-1	3-25	7/8	0.40	6
32915	10	Above w/H-D Wheel	E-1240	1/6-1	3-25	7/8	0.40	6
32920	15	Tubing and Conduit Cutter	F-158	3/16- 1 1/8	5-28	1/2	0.68	6
32925	15	Above w/H-D Wheel	E-1240	³ /16-1 ¹ /8	5-28	1/2	0.68	6
32930	20	Tubing and Conduit Cutter	F-158	5/8-21/8	16-54	13/4	0.79	1
32935	20	Above w/H-D Wheel	E-1240	5/8-21/8	16-54	13/4	0.79	1
32940	30	Tubing and Conduit Cutter	E-2558	1-31//8	25-79	31/2	1.6	1
32950	30	Above w/H-D Wheel	E-2191	1-31/6	25-79	3½	1.60	1
97212	15-SI	Tubing and Conduit Cutter	E-1525	3/16- 1 1/8	5-28	1½	0.68	1
29963	35 S	Stainless Steel Cutter	E-635	1/4 -13/8	5-35	7/8	0.4	1

Quick-Acting Tubing Cutters with New X-CEL Features

- Models 151-156 feature a quick-acting design, I-beam construction, hardened wear surfaces and thrust bearing slide assemblies for smooth operation.
- All Models now include an X-CEL Knob and X-CEL Pin for quicker cutting and wheel replacement.
- These cutters are available in models for plastic pipe or metallic tubing.
- Models 151 and 152 feature fold-away reamers.





^{**}Nominal Plastic Pipe Size

RIDGID Quick-Acting plastic cutter models are equipped to easily convert to cut copper or other metallic tubing.

- 1.) Remove spare copper cutting wheel from knob.
- 2.) Reverse knob position so that the "Cu" notation is visible inside the knob.
- 3.) Screw knob back on to handle.
- 4.) Using the X-CEL Wheel Pin, you can quickly replace the existing plastic cutting wheel with the copper cutting wheel. You're now ready to cut copper, aluminum, and brass tubing.
- 5.) When you wish to revert to plastic cutting, follow the same instructions but make sure to reposition knob so that "PE" and "PVC" notations are visible inside knob.



Model 151



Tubing Cutters



Internal Tubing Cutters

- For trimming tubing below floor level for shower/floor drain installations, or above the ceiling for sprinkler head installations.
- Model 106 features a tool steel and aluminum body while 108 and 109(P) have cast iron bodies.
- Each model features hardened steel rollers and cutter wheels.
- Model 109P is equipped to cut PVC or ABS plastic.
- Model 102 internal cutter features reamer type end for ease of entry into distorted or burred tubing, and will cut lengths from 5/16" - 41/2" (8 mm-113 mm).

Catalog	Model	Description	Std.	Capacity	/	We	ight	Standard
No.	No.	Description	Wheel	in.	mm	lb.	kg	Pack
33005	106	Internal Cutter	E-2558	2-3 Nominal	50-75	_	_	_
				1/4-25% Depth	6-67	23/8	1.1	1
83240	108	Internal Cutter	E-2558	11/4-2 Nominal	6-50	_	_	0
				1/4-13/4 Depth	6-45	2	0.9	1
83290	109	2-Handle Internal Cutter	E-2558	2½-4 Nominal	60-100	_	_	_
				1/4-21/8 Depth	6-54	4	1.8	1
83295	109-P	Above w/Wheel for Plastic	E-5299	21/4-4 Nominal	60-100	_	_	_
				1/4-21/8 Depth	6-54	4	1.8	1
32970	102	Lathe-Type Internal Cutter	E-983	1/2-3/4 Nominal	12-20	11//8	0.5	1

Tubing Cutter Replacement Wheels

Always use genuine RIDGID Cutter Wheels. These wheels are precision-machined from high-grade steel and are engineered for long life and maximum cutting accuracy.

(0	Tubing (riginal l	Product	t)	Catalog No.	32910	32920	97212	29963	32930	32940	32945	32955	40617-86127	32975-32985- 97787	33005	83240	83290	83295	31622	31632	31637	31642	31647	36597	36592	31652	31657	31662	31667	33055	93492	10973	
_	LONG LIFE			Model No.	10	15	15-SI	35S	20	30/133	30P-133P	40	101/118	103/104/ 117	106	108	108	109P	150	151	151-P	152	152-P	153	153-P	154	154-P	156	156-P	205	122	122XL	
	Catalog No.	Model No.	Std. Pack	Blade Exp.																													Application/Material
	33210	E-702	1	.500																							▲		▲				Heavy Wall PVC, ABS
	33165	E-1240	12	.162	▲	▲	▲																										Steel - SS
	33200	E-1740	1	.147									lack	\blacktriangle							\blacksquare		lack		▲				_				Soft Flexible Pipe
	74720	E-2155	1	.286																	•		•		•								PE, PB, PP, Std. & Heavy Wall
	74730	E-2156	1	.412							•																•		lack				PE, PB, PP, Std. & Heavy Wall
	74735	E-2157	1	.500																							lack		•				PE, PB, PP, Std. & Heavy Wall
	33175	E-2191	6	.292						A		A														▲		A			•	▲	Steel Tubing
Cutter Wheels	33170	E-2558	6	.220						•		•				•	•	•								•		•					Aluminum & Copper
₽	83235	E-2880	1	.747																													PE, PB, PP, Std. & Heavy Wall
>	33205	E-2990	1	.112																													Steel, Aluminum & Copper
l tte	33185	E-3469	12	.149									•	•					•	•		•		•						•			Aluminum & Copper
ರ	34695	E-3495	1	.290																lack		lack		lack						lack			Aluminum
	33190	E-4546	6	.162																\blacktriangle		lack		\blacktriangle						lack			Steel - SS
	33195	E-5272	6	.290																	▲		▲						_				PVC, ABS, Std. Wall
	33180	E-5299	6	.412							▲				\blacktriangle	▲		•									▲		▲				PVC, ABS, Std. Wall
	33160	F-158	12	.149	•	•			•																								Aluminum & Copper
	88260	E-10279	1	.185																							lack		lack				Thin-Wall PVC
	96397	E-1525	1	.120			•																				1		1				Stainless Steel
	33551	122SS	1	.292																											▲	•	Stainless Steel
	29973	E-365	1	.120			•																										Stainless Steel

■ Denotes Cutter Wheels furnished with original product.
 ▲ Denotes alternate Cutter Wheel

Plastic Pipe Cutters



Single Stroke Cutter NEW



- Patent pending, X-CEL blade for fast single stroke cutting. No ratcheting or twisting required.
- Extra large 1.375" O.D. capacity.
- Ergonomic grips on bottom handle are spaced at ½" increments to act as a quick pipe measuring scale.
- Replaceable, hardened steel cutting blade.
- Spring-loaded handles provide instant adjustment to any pipe size.
- "Burr-less" cutting operation provides a square cut.

Catalog	Model	Description	Capacit	ty (O.D.)	We	Std.	
No.	No.	Description	in.	mm	lb.	kg	Pack
23493	PC-1375	Single Stroke Plastic Pipe and Tubing Cutter*	1/8" - 13/8"	12-42	3/4	1.36	6
25588	PCB-1375	PC-1375 Replacement Blade	_	-	1/8	0.45	1
31218	PC-1375A	1/8" — 1"	12-26	3/8	0.39	1	

^{*}Package includes a multi-layer adapter.



Scissor-Style Cutter



- X-CEL blade Quick change, reversible blade provides two times blade life.
- Spring loaded handles for faster positioning.

Catalog Model Description		Description	Capacity (O.D.)		Weight		Std.
No.	No.	Description	in.	mm	lb.	kg	Pack
23488	PC-1250	Scissor-Style Plastic Pipe & Tubing Cutter	1/8-15/8	12-42	1/2	0.20	6
26803	PCB-1250	PC-1250 Replacement Blade	_	_	1/8	0.03	1



Ratchet Cutter with Ergonomic Grips



- Ergonomic grips on bottom handle are spaced at ½" increments to act as a quick pipe measuring scale.
- X-CEL quick-change blade.
- "Burr-less" cutting operation provides a square cut.

Catalog	I I I I I I I I I I I I I I I I I I I		Capacit	ty (O.D.)	We	ight	Std.
No.	No.	Description	in.	mm	lb.	kg	Pack
23498	RC-1625	Ratchet Action Plastic Pipe & Tubing Cutter	1/2-15/8	12-42	13/16	0.52	6
27858	RCB-1625	RC-1625 Replacement Blade	_	_	1/8	0.03	1
30088	RC-2375	Ratchet Action Pipe & Tubing Cutter	1/2-23/8	3-63	11//8	0.90	6
30093	RCB-2375	RC-2375 Replacement Blade	_	_	1/4	0.10	1

Cutter Replacement Blades

Catalog	Model	Description	Weig	Std.	
No.	No.	Description	lb.	kg	Pack
92170	138	Replacement Blade	1/8	0.03	1
22086	1493	Replacement Blade	1/8	0.03	1
73852	BK-100S	Replacement Blade	1/8	0.03	1
73857	BK-125S	Replacement Blade	1/8	0.03	1



Inner-Outer Copper Cleaning Brush



- Combines tube O.D. cleaning and fitting I.D. brush into one hand tool.
- High carbon steel brushes quickly clean ½" or ¾" nominal tube and fittings in preparation for soldering or brazing.
- Durable plastic construction designed for easy brush replacement.

Catalog	Model	Description	Wei	ght	Standard
No. No.		Description	OZ.	g	Pack
34142	4100	I-O Copper Cleaning Brush	31/4	90.7	10
34147	_	Replacement Brush Set	11/2	45.3	1

Accessories for No. 124 Copper Cleaning Machine

Description

2" to 4" Brush Arbor

5" to 6" Brush Arbor

4" Facing Cutter

- Cleaning Brushes: 13 internal, standard-duty wire for ½" 4" fittings.
- External Cleaning Brush and Deburring Cutter: For $\frac{1}{2}$ " 2" fittings and $\frac{1}{2}$ " 4" tube.
- Reamer: Replaceable blade for ½" − 2" tube.
- Accessories: No. 126 Facing Cutter Replaceable hardened steel insert.
- Fitting Brushes: Small internal brushes for refrigeration and air conditioning.

Standard-D	Outy Brushes	Brushes for No.	Brushes for No. 124 Machine						
Catalog No.	Model No.	Model No. Description		Weight					
Catalog No.	wouer No.	Description	OZ.	g					
42245	E-5715	³/8" (10 mm) Fitting Brush	1	28					
42250	E-5720	1/2" (13 mm) Fitting Brush	1	28					
42255	E-5721	3/4" (19 mm) Fitting Brush	1	28					
42260	E-5722	1" (25 mm) Fitting Brush	2	56					
42265	E-5723	11/4" (32 mm) Fitting Brush	2	56					
42270	E-5724	11/2" (38 mm) Fitting Brush	4	113					
42275	E-5725	2" (51 mm) Fitting Brush	6	170					
42280	E-5726	21/2" (64 mm) Fitting Brush	8	227					
42285	E-5727	3" (76 mm) Fitting Brush	10	283					
42290	E-5728	4" (102 mm) Fitting Brush	14	397					
42300**	D-1545**	5" (127 mm) Fitting Brush	' (127 mm) Fitting Brush						
_	_	6" (152 mm) Fitting Brush	18	510					

D-1415 External Brush 3/4 0.3 — 6" (152 mm) Fitting Brush

** Requires Brush Arbor Catalog No. 46450. See ordering information this page.

kg

0.08

0.5

 $^{1}/_{4}$

11/4

Conduit Sizing Tool

Catalog

47395

46425

46450

Model

126

E-6128

E-6212-X



- Quickly resizes thin-wall conduit ends that have become deformed after installation.
- \bullet Tool can also be used for slight bending of ½" and ¾" conduit ends for alignment purposes.
- Hardened alloy steel resists wear.

Catalog	Model	Description	Wei	Standard		
No. No.		Description	lb.	kg	Pack	
36005	575	½" (12 mm) and ¾" (19mm) EMT	13/8	0.6	1	

Reamers, Deburring Tools



Plastic Construction Inner-Outer Reamer

- Handy for quick, clean and easy I.D. reaming and 0.D. beveling of \mathcal{V}_4 " through $1\mathcal{V}_2$ " nominal water tube.
- Plastic construction with long-wearing alloy steel blades.
- Gives fast, professional reaming on copper, aluminum, brass and other types of tubing.

Catalog Model			Wei	Standard	
	No.	Capacity	lb.	g	Pack
34965	127	1/4" (6 mm) through 11/2" (37 mm) Nominal Water Tube	1/4	113	1







Hardened Steel Construction Inner-Outer Reamer

- 46 cutting edges on interior cone allow for fast, clean, inner reaming and outer deburring/beveling of ½"-2" (12mm-54mm) copper and stainless steel tubing.
- Hardened steel construction.

Catalog	Model	Capacity	Wei	Standard	
No. No.		oupacity	lb.	g	Pack
29983	223S	1/4" (5 mm) through 11/4" (36 mm) Copper and Stainless Tubing	3/4	340	1
29993	227S	½" (12 mm) through 2" (54 mm) Copper and Stainless Tubing	11⁄4	560	1

Deburring Tools

- Deburring Tool for plastic pipe and tubing.
- Made of high-grade steel with specially-designed, long-lasting cutting edges.
- Slip-resistant vinyl hand grip.
- Ideal for removing outside ridges and inside burrs on plastic pipe and tubing.



Catalog Model		Description	Plastic Pipe Capacity		Plastic Capaci	Standard Pack	
NO. NO	•	in.	mm	in.	mm	Pack	
35155	72	Deburring Tool	1/2-11/2	12-40	3/4-21/8	20-53	6
64962	73	Deburring Tool	11/2-3	40-76	_	_	6
64967	74	Deburring Tool	4	100	_	_	6







Threading

- Dependable heavy duty machines for maximum up-time, superior quality threads and minimal threading time.
- Industry's widest selection of hand and power threading equipment.
- Manual "hammer" type chuck and "auto-chuck" models.

	No. of	Pipe	
Туре	No. of Models	Capacity (in.)	Page No.
Manual Ratchet Threaders			
Exposed Ratchet Threader Sets	6	$\frac{1}{2} - 1\frac{1}{4}$	4.3
Enclosed Ratchet Threader Sets	1	$\frac{1}{2} - 1\frac{1}{4}$	4.3
Ratchet and Handle Only	1	_	4.3
Three-way Pipe Threaders	3	$\frac{1}{2} - 1$	4.3
Exposed Ratchet Bolt Threader	2	½ - 1	4.4
Carrying Case	7	_	4.4
Hand Threader Die Heads	_	1⁄8 − 12	4.5 - 4.7
Manual Threader Pipe & Bolt Dies	_	1/4 - 2	4.7
Manual Receding Threaders			
Models 65R-7C & 65R-C	6	1 – 2	4.8
Pipe Dies for Geared Receding Threaders	10	$2\frac{1}{2} - 6$	4.8
Geared Receding Threaders			
Power Threading w/ Geared Threaders	-	_	4.9
Models 141/161	6	$2\frac{1}{2} - 6$	4.10
Accessories			
Threading Accessories	6	-	4.10
Thread Sealant	5	_	4.11
Cutting Oil	13	_	4.12
Oiler	4	_	4.12
Power Drives			
Model 600	3	1/8 – 11/4	4.13
Model 690	_	1/8 – 2	4.14
Model 700	2	1/8 – 2	4.15
Model 300 Power Drive	8	1/8 – 2	4.16
Threading Machines			
Model 300 Complete	4	1/8 – 2	4.17
Model 535A Threading Machine	3	1/8 – 2	4.18 – 4.19
Model 535 Threading Machine	4	1/8 – 2	4.20 – 4.21
Model 1210 Threading Machine	1	1/2 – 1	4.22
Model 1215 Threading Machine	1	1/4 – 11/2	4.23
Model 300 Compact Threading Machine	6	1/8 – 2	4.24
Model 1822-I Threading Machine	1	1/8 – 2	4.25
Threader Stands	4	_	4.26
Optional Die Heads	5	1/8 – 2	4.27
Model 1224 Threading Machine	8	$\frac{1}{4} - 4$	4.28
Die Heads for 1224	4	1/4 – 4	4.29
Pipe Dies for Machine Die Heads	_	1/8 – 2	4.30 - 4.32
Nipple Chucks/Adapters	_	_	4.33

Threader Selection

	Pipe Thre	ads (inches)			Bolt Threads	s		Model		Page No.
NPT	BSPT	NPSM	BSPP	UNF	UNC	ACME		Iviodei		Page No.
½-1 ½-1¼ ½-2 ½-1	1/6-1 1/6-11/4 1/6-2 1/2-1	½-1 ½-1¼ ½-2 ½-1	 3%-1 1/4-2 1/2-1	½-1 - - -	¹ /4-1 - - -	- - - -	Manual Ratchet Threaders		00-RB 11-R 12-R 31-A Series*	4.4 4.3 4.3 4.3 4.3
1-2 2½-4 4-6	1-2 2½-4 4-6	- - -	- - -	- - -	- - -	- - -	Receding Threaders		65-R 141 161	4.8 4.10 4.10
1/8-11/4 1/8-2 1/8-2	1/8-11/4 1/8-2 1/8-2	1/8-11/4 1/2-2 1/8-2	3/6-1 1/4-2 1/4-2	_ _ 1⁄4-1	- - 1⁄4-1	- - -	Power Drives	6 30	600 690 700 300	4.13 4.14 4.15 4.16
1/8-2 1/8-2 1/8-2 1/8-2 1/8-2 1/2-11/2 1/8-2 1/4-4	1/6-2 1/6-2 1/6-2 1/6-2 1/6-2 1/2-11/2 1/6-2 1/4-4	1/8-2 1/8-2 1/8-2 1/8-2 	/4-2 /4-2 /4-2 /4-2 /4-2 /4-2	1/4-2 1/4-2 5/16-2 1/4-2 	/4-2 /4-2 /5/6-2 /4-2 	34-13/8 34-13/8 5/16-2 34-13/8 - 34-13/8 34-13/8	Threading Machines	S.O.	300 Compact 535-A 535 1210 1215 1822-I 1224	4.24 4.18 4.20 4.22 4.23 4.25 4.28

^{*} Standard configuration but can use any 12-R dies.

Manual Ratchet Threaders

All matched Threader/Sets include Die Heads, Ratchet Assembly, Ratchet Handle and Alloy Dies. All Threader Sets use same 12-R Dies in Die Head.



Exposed Ratchet Threader Sets

- No. 00-R: Capacity 1/8"-1" without carrying case.
- No. 12-R: Capacity 1/8"-2" with carrying case.

	Catalog No.	Model No.	Capa	Capacity		Weight	
NPT	BSPT	NPSM	iviodei No.	in.	mm	lb.	kg
36345	65175	36380	00-R	1/2-1	12-25	10	4.5
36355	_	_	00-R	3/8-1	10-25	111/4	5.1
36375	_	_	00-R	1/8-1	3-25	13¾	6.2
36480	_	_	12-R	1/2-11/4	12-32	23¾	10.8
36475	65255	36510	12-R	1/2-2	12-50	34¾	15.8
36505	65285	_	12-R	1/8-2	3-50	45½	20.7
55207*	_	_	12-R	1/2-2	12-50	351/2	16.08

^{*} For plastic-coated pipe.



Enclosed Ratchet Threader Sets

• No 11-R capactiy: 1/8" -11/4"

Catalog No.	Model No.	Capa	acity	Weight		
NPT	IVIOGEI NO.	in.	mm	lb.	kg	
36390	11-R	1/2-11/4	12-32	16	7.3	



Ratchet & Handle Only

Ratchet knob indicates forward and reverse. Die heads snap in from both sides and lock in place. \\

Catalog No.	Model No.	Description
38540	00-R	
37777	11-R	
38550	111-R	Databat 9 Handla Only
38555	12-R	Ratchet & Handle Only
38540	00-RB	
38535	0-R	



Three-Way Pipe Threaders

Each model cuts three thread sizes and uses 12-R ratchet threader dies.

			RH High	Cap	pacity	Wei	ght	
Model No.	RH Alloy	RH High Speed	Speed for Stainless Steel	in.	mm	lb.	kg	
31-A NPT	36540	36550	36555	1/2, 3/4, 1	12, 20, 25	10	4.6	
31-A BSPT	65320	_	_	1/2, 3/4, 1	12, 20, 25	10	4.6	
31-A NPSM	36560	-	_	1/2, 3/4, 1	12, 20, 25	10	4.6	

Manual Ratchet Threaders



Exposed Ratchet Bolt Threader Sets

- No. 00-RB: Capacity 1/4"-1"
- All matched threader sets include button die heads, ratchet assembly (OO-R) and ratchet handle. Button dies can be reversed to thread close to bolt shoulder or head.

Catalog No.	Model No.	Description	No. Die Heads	Thread		acity nge	Wei	ght
NO.	INU.		Complete	Туре	in.	mm	lb.	kg
36680	00-RB	Ratchet Bolt Threader	10	UNC	1/4-1	6-25	20	9.1
36690	00-RB	Ratchet Bolt Threader	10	UNF	1/4-1	6-25	20	9.1



Carrying Cases

• Helps keep die sets organized.

Catalog	D i . di	Thread	Length x Width x	Weight		
No.	Description	Туре	Height	lb.	kg	
38605	Metal Case	00-R	19% x 4% 6 x 3% 6	7½	3.4	
38610	Metal Case	00-RB	191/8 x 71/4 x 33/16	7½	3.4	
38615	Metal Case	111-R	25% x 4 ²¹ / ₃₂ x 6 ⁷ / ₃₂	73/4	3.5	
38620	Metal Case	11-R	241/8 x 4 ²¹ / ₃₂ x 9 ¹¹ / ₁₆	73/4	3.5	
38625	Metal Case (Holds 6 Die Heads)	12-R	25% x 5 x 6½	13	5.9	
97375	Metal Case (Holds 9 Die Heads)	12-R	24% x 5 x 10	15	6.3	
21218	Plastic Case	12-R	25 x 5 x 14	6	2.5	

^{*}Cases contain no die heads.

Die Heads

Manual Threaders - 00-R, 12-R, 11-R & 00-RB

North American Standards



		Catalog No.										
					Nominal Pi	pe Size (in.)						
	1/8	1/4	3/8	1/2	3/4	1	11/4	11/2	2			
Model No. 00-R												
(NPT)												
Alloy RH	36875	36880	36885	36890	36895	36900	_	_	_			
High-Speed RH	36935	36940	36945	36950	36955	36960	_	_	_			
High-Speed for Stainless Steel RH	36965	36970	36975	36980	36985	36990	_	_	_			
(NPSM)												
Alloy RH	36995	37000	37005	37010	37015	37020	_	_	_			
API High-Speed	_	_	83435	68755	68780	_	_	_	_			
Model No. 12-R												
(NPT)												
Alloy RH	37375	37380	37385	37390	37395	37400	37405	37410	37415			
High-Speed LH	_	_	_	37435	37440	37445	37450	37455	37460			
High-Speed RH	37465	37470	37475	37480	37485	37490	37495	37500	37505			
High-Speed for Stainless Steel RH	37510	37515	37520	37525	37530	37535	37540	37545	37550			
High-Speed for PVC RH	_	83450	83455	83460	83465	83470	83475	83480	83485			
High-Speed for Plastic Coated Pipe	_	_	_	51857	51862	51867	51872	51877	51882			
Alloy for IMC RH	_	_	_	92690	92695	92700	92705	92710	92715			
(NPSM)												
Alloy RH	37555	37560	37565	37570	37575	37580	37585	37590	37595			
Model No. 11-R												
(NPT)												
Alloy RH	37025	37030	37035	37040	37045	37050	37055	20923	20943			
High-Speed RH	37095	37100	37105	37110	37115	37120	37125	20928	20948			
High-Speed for Stainless Steel RH	37130	37135	37140	37145	37150	37155	37160	20933	20953			
(NPSM)												
Alloy RH	37165	37170	37175	37180	37185	37190	37195	20938	20958			
Model No. 00-RB	1/ ₄ 20 TPI	5/16 18 TPI	3/8 16 TPI	7/ ₁₆ 14 TPI	1/ ₂ 13 TPI	9/ ₁₆ 12 TPI	5/8 11 TPI	3/ ₄ 10 TPI	⁷ / ₈ 9 TPI	1 8 TPI		
(UNC)												
Alloy RH	37610	37615	37620	37625	37630	37635	37640	37645	37650	37655		
Alloy LH	_	_	_	37675	_	_	_	37695	_	_		
(UNF)	28 TPI	24 TPI	24 TPI	20 TPI	20 TPI	18 TPI	18 TPI	16 TPI	14 TPI	14 TPI		
Alloy RH	37710	37715	37720	37725	37730	37735	37740	37745	-	37755		
Alloy LH	_	_	_	37775	37780	37785	37790	37795	37800	37805		

Unless highlighted, all die heads come complete with selected dies and are set at the factory.

■ Highlighted die heads require assembly with supplied dies.

All matched threader/sets include die heads, ratchet assembly, ratchet handle and specified dies.



Die Heads Ratchet Threaders – 00-R, 12-R, 11-R

British & International Standards

		Catalog No.									
				Nom	inal Pipe Siz	e (in.)					
	1/8	1/4	3/8	1/2	3/4	1	11/4	11/2	2		
Model No. 00-R											
(BSPT)											
Alloy RH	65705	65710	65715	65720	65725	65730	_	_	_		
High-Speed RH	65765	65770	65775	65780	65785	65790	_	_	_		
Model No. 12-R											
(BSPT)											
Alloy RH	65950	65955	65960	65965	65970	65975	65980	65985	65990		
High-Speed LH	_	_	_	_	_	66020	_	66030	66035		
High-Speed RH	_	_	_	66040	66045	66050	66055	66060	66065		
Alloy for JIS RH	_	_	_	92585	92590	92595	92600	92605	92610		
(BSPP)											
Alloy RH	_	49932	49937	49942	49947	49952	_	49962	49967		
Model No. 11-R											
(BSPT)											
Alloy RH	65550	65555	65560	65565	65570	65575	65580	_	_		
High-Speed RH	_	-	65620	65625	65630	65635	65640	-	_		
(BSPP)											
Alloy RH	_	_	65680	65685	65690	65695	65700	_	_		

British & International Standards

	Catalog No. Nominal Pipe Size (mm)								
	20 mm	20 mm 25 mm 32 mm 40mm							
Model No. 11-R	Model No. 11-R								
(ISO) Alloy RH	75005	75010	75015	75020					

All Die Heads complete come with selected dies and are set at the factory.

■ Highlighted die heads require assembly with supplied dies.

All matched Threader/Sets include Die Heads, Ratchet Assembly, Ratchet Handle and Specified Dies.

Pipe Dies

00-R, 11-R, 12-R, 0-R, Ratchet Threaders or 30A, 31A 3-Way Pipe Threaders



					Catalog No.						
Die Material or Type				Nominal Pip	e Size – Thre	ads Per Inch					
	1/8-27	1/4-18	3/8-18	1/2-14	3/4-14	1-11½	11/4-11/2	11/2-11/2	2-11½		
(NPT) National Pipe Taper											
Alloy RH	37810	37815	37820	37825	37830	37835	37840	37845	37850		
High-Speed RH	37855	37860	37865	37870	37875	37880	37885	37890	37895		
High-Speed LH	_	38050	38055	38060	38065	38070	38075	38080	38085		
H.S. For Stainless Steel RH	37900	37905	37910	37915	37920	37925	37930	37935	37940		
H.S. For PVC RH	_	_	70685	70690	70695	70700	70705	70710	70715		
HS Reversible RH*	_	_	_	49707	49712	49717	49722	49727	_		
(NPSM) National Pipe Straight Mec	hanical										
Alloy RH	37945	37950	37955	37960	37965	37970	37975	37980	37985		
(API) American Petroleum Institute*	**										
High-Speed RH			70720	70725	70730						
(BSPT) British Standard Pipe Taper*	*										
	1/8-28	1/4-19	3/8-19	1/2-14	3/4-14	1-11	11/4-11	11/2-11	2-11		
Alloy RH	66110	66115	66120	66125	66130	66135	66140	66145	66150		
High-Speed RH	66310	66315	66320	66325	66330	66335	66340	66345	66350		
High-Speed LH	66405	66410	66415	66420	66425	66430	66435	_	66445		
* HS Reversible RH	_	_	56337	56342	56347	56352	_	_	56367		
* Requires British Die Head	•										
(BSPP) British Standard Pipe Parall	el**										
Alloy RH	66190	66195	66200	66205	66210	66215	66220	66225	66230		

^{*} Dies can be reversed in die head for close to wall threading. ** Requires British Die Head. *** Requires API Die Head, see page 4.5

ISO		Nominal Conduit Size in mm – Thread Pitch in mm									
International Standards Organization	20-1.5	25-1.52	32-1.5	40-1.5							
Alloy RH	85830	76305	85835	76315							

Requires 11-R ISO Die Head, see page 4.6

BEC			N	Nominal Conduit Size – Threads Per Inch					
British Electrical Conduit (1)	1/2-18	5/8-18	3/4-16	1-16	11/4-16	11/2-14			
Alloy RH	66155	66160	66165	66170	66175	_			

Requires 11-R BEC Die Head

Bolt Threaders Button Dies

00-RB Ratchet Bolt Threaders, or 31B, 33B, 35B, 37B 3-Way Bolt Threaders

Die Material or Type				Rod I	Catalo Diameter – 1	og No. Threads Per	Inch			
(UNC) Unified National Course	1/4-20	5/16-18	3/8-16	7/16-14	1/2-13	⁹ /16- 12	5/8-11	3/4-10	7/8-9	1-8
Alloy RH	38335	38340	38345	38350	38355	38360	38365	38370	38375	38380
(UNF) Unified National Fine	1/4-28	5/16-24	3/8-24	7/16-20	1/2-20	9/16-18	5/8-18	3/4-16	7/8-14	1-12
Alloy RH	38385	38390	38395	38400	38405	38410	38415	38420	38425	15317



Manual Receding Threaders



No. 65R-TC

- Threads 1"-2" pipe.
- True centering workholder.
- Jam-proof.
- Right-hand only.

Catalog No.	Model No.	Capa Nomi Pipe :		ninaĺ	We	ight
			in.	mm	lb.	kg
36570	65R-TC	NPT with 1 Set High-Speed Dies	1-2	25-50	27	12.3
65345	65R-TC	BSPT with 1 Set High-Speed Dies	1-2	25-50	27	12.3
96720	_	Metal Carrying Case for 65R Series Threaders	-	_	8	3.7



No. 65R-C

- Threads 1"-2" pipe.
- Jam-proof drive pawl.
- · Cam workholder sets instantly.
- Right-hand only.

Catalog No.			Non	acity ninal Size	Wei	ight
			in.	mm	lb.	kg
36565	65R-C	NPT with 1 Set High-Speed Dies	1-2	25-50	25	11.4
65340	65R-C	BSPT with 1 Set High-Speed Dies	1-2	25-50	25	11.4
96720	_	Metal Carrying Case for 65R Series Threaders	_	_	8	3.7

Receding Threaders Pipe Dies For 65R-C & 65R-TC Ratchet Threaders

	Catalog No.				
Die Material or Type	(NPT) National Pipe Taper	(BSPT) British Std. Pipe Taper			
	1" Thru 2"-111/2 TPI	1" Thru 2"-11 TPI			
High-Speed RH	38100	66450*			
H.S. For Stainless Steel RH	38105	_			
H.S. For Cast Iron RH	38110	_			

^{*} Requires BSPT Threader

Pipe Dies For 4PJ Geared Pipe Threaders

	Catalog No.							
Die Material or Type	(NPT) National Pipe Taper Nominal Pipe Size-Threads Per Inch			(NPSM) National Pipe* Nominal Pipe Size-Threads Per Inch				
	21/2"-8	3"-8	31/2"-8	4"-8	21/2"-8	3"-8	31/2"-8	4"-8
High-Speed RH	38220	38225	38230	38235	46732	46737	46742	46747
H.S. For Cast Iron RH	38240	38245	38250	38255	-	_	-	_

^{*} Requires NPSM Threader

	Catalog No.					
Die Material or Type	(BSPT) British Standard Pipe Taper Nominal Pipe Size-Threads Per Inch					
	21/2"-11	3"-11	3 ¹ /2"-11	4"-11		
High-Speed RH	66535*	66540*	_	66550*		

^{*} Requires BSPT Threader



Geared Threader Configurations

Power Threading with Geared Threaders - Nos. 141, 161



700 Power Drive



300 Front-Mount



700 Power Drive

Application for 141 and 161 Geared Threader requires:

- 774 Square Drive Adapter (pg. 4.15)
- 460 TRISTAND (pg. 2.2)
- 418 Oiler (pg. 4.12)

300 Power Drive Front-Mount

Application for 141 and 161 Geared Threader requires:

- 1206 Stand (pg. 4.17)
- Pipe Support (pg. 2.4)
- 418 Oiler (pg. 4.12)
- 844 Drive Bar (pg. 4.10)
- 758 Loop for 141 (pg. 4.10)
- 346 Support Arms for 161 (pg. 4.10)

300 Power Drive Rear-Mount

Application for 141 and 161 Geared Threader requires:

- 1206 Stand (pg. 4.17)
- 460 TRISTAND (pg. 2.2)
- 418 Oiler (pg. 4.12)
- 840A Universal Drive Shaft (pg. 4.10)

535 Threading Machine Front-Mount

pg. 4.10

535 Threading Machine Rear-Mount (manual chuck only)

Application for 141 and 161 Geared Threader requires:

- 460 TRISTAND (pg. 2.2)
- 418 Oiler (pg. 4.12)
- 840A Universal Drive Shaft (pg. 4.10)

300 Compact Threading Machine Front-Mount

Application for 141 Geared Threader requires:

- 844 Drive Bar (pg. 4.10)
- 768 Drive Link Assembly (pg. 4.10)

300 Compact Threading Machine Rear-Mount

Application for 161 Geared Threader requires:

- 840A Universal Drive Shaft (pg. 4.10)
- 460 TRISTAND (pg. 2.2)
- 418 Oiler (pg. 4.12)

1822 Threading Machine Front-Mount

Application for 141 Geared Threader requires:

• 241 Carriage Mount Kit (pg. 4.26)

1224 Threading Machine Rear-Mount

Application for 161 Geared Threader requires:

- 840A Universal Drive Shaft (pg.4.10)
- 460 TRISTAND (pg. 2.2)
- 418 Oiler (pg. 4.12)

Receding Geared Threaders



Nos. 141/161

- 141 threads 2½", 3", 3½", 4" pipe with one set of dies.
- 161 threads 4", 4½", 5", 6" pipe with one set of dies.
- · Jaw clutch prevents jamming.
- Simple adjustment for tapered or straight threads.
- Cam-type workholder sets instantly.
- Fully enclosed gearing.
- · Right-hand only.

Catalog No.	Model No.	Description	Description Capacity Nominal Pipe Size in. mm		We	ight
					lb.	kg
36620	141	NPT with 1 Set High-Speed Dies	21/2-4	62-100	93	42.3
65380	141	BSPT with 1 Set High-Speed Dies	21/2-4	62-100	93	42.3
36630	161	NPT with 1 Set High-Speed Dies	4-6	100-150	158	71.8
39380	D-1440	Ratchet and Handle	_	_	91/2	4.3
96725	_	Metal Carrying Case for 141 Geared Threaders	_	_	17	7.7
41620	-	Gearhead Motor Grease	_	_	1	0.5

Geared Threader Accessories



No. 844 Drive Bar

No. 840A Universal Drive Shaft

A telescoping (41" to 50") drive shaft for operation of Nos. 141 and 161 geared threaders with threading machines.

Geared Threader Operation

The Nos. 141 and 161 geared threaders, in conjunction with these accessories, allow power drives and threading machines to thread up to 4" and 6" pipe. See page 4.9.

Catalog Model		Description	Weight		
No.	No.	Description	lb.	kg	
42505	46	Adjustable Pipe Support (page 2.5)	23	10.4	
61122	840A	Universal Drive Shaft	26	11.8	
19366	758	Loop (141 with 300 Power Drive)	11/4	0.6	
40005	346	Support Arms (161 with 300 Power Drive)	10½	4.8	
42405	844	Drive Bar (300, 535M & old style)	5¾	2.6	
42415	768	Drive Link Assembly (535, 535M & old style)	2½	1.1	
97882*	_	Kit 141 on 535 Auto Chuck with High-Clearance Carriage	12	5.4	
16723*	_	Kit 141 on 535 Manual Chuck with High-Clearance Carriage	12	5.4	

^{*}Kits include all accessories necessary for threading with a 141 mounted on a 535 with a high-clearance carriage.

Pipe Dies

141 Geared Pipe Threaders

	Catalog No.					
Die Material or Type	(NPT) National Pipe Taper	(BSPT) British Std. Pipe Taper	Beveling Dies			
	21/2" Thru 4"-8 TPI	21/2" Thru 4"-11 TPI	21/2" Thru 4"			
High-Speed RH	38120	66625*	-			
H.S. For Stainless Steel RH	70640	70645*	-			
H.S. For Cast Iron RH	38125	_	-			
H.S. For PVC RH	38130	_	_			
H.S. 371/2° Bevel	_	_	38140			

(NPSM) National Pipe Straight Mechanical — Use (NPT) Dies and Rotate Threader Guide Post 180° (BSPP) British Standard Pipe Parallel — Use (BSPT) Dies and Rotate Threader Guide Post 180° * Requires BSPT Threader

161 Geared Pipe Threaders

	Catalog No.			
Die Material or Type	(NPT) National Pipe Taper	(BSPT) British Std. Pipe Taper		
	4" Thru 6"-8 TPI	4" Thru 6"-11 TPI		
High-Speed RH	38155	66620*		
H.S. For Stainless Steel RH	70655	_		

(NPSM) National Pipe Straight Mechanical – Use (NPT) Dies and Rotate Threader Guide Post 180° (BSPP) British Standard Pipe Parallel – Use (BSPT) Dies and Rotate Threader Guide Post 180° * Requires BSPT Threader

RIDGID Thread Sealants

RIDGID Gray and White proprietary formulas are NFS and UPC listed and approved for potable water use. The non-toxic, lead-free formulas won't harden or freeze, allowing easy disassembly of joints without compromising thread integrity.

The Gray Sealant is a smooth extra-tacky paste that clings to the threads and provides a leak-proof seal. RIDGID Gray Sealant prevents thread corrosion and is approved for use in water, steam, air and natural gas, as well as in diluted acids, caustics, LPG and oil lines. RIDGID Gray should be used on metal pipes only.

RIDGID White Sealant with ultra-fine Teflon particles allows for tighter seal with less effort. The formula is not affected by oils, dilute acids or common solvents and can be used on PVC, CPVC, ABS, nylon, polypropylene, polybutylene, delrin, cycolac, as well as on metal pipes. RIDGID White Sealant should not be used on lines carrying oxygen, halogens or liquid sodium.

Gray (no Teflon)

Catalog No.	Description	Weight Per Case			
NO.		lb.	kg		
84282	½ pint can (brush-in-can)	71/2	3.3		
84287	1 pint can (brush-in-can)	26	11.79		
84292	1 quart can (brush-in-can)	26	11.79		

White (with Teflon)

Catalog No.	Description	Weight Per Case			
NO.		lb.	kg		
84332	½ pint can (brush-in-can)	11	4.99		
84337	1 pint can (brush-in-can)	26	11.75		

Note: Working pressure for all RIDGID® sealants is 125 p.s.i. Teflon® is a registered trademark of E.I. Dupont de Nemours & Co.

Cutting Oil



Thread Cutting Oil

- Cools threads and pipe during operation.
- Speeds metal removal.
- · Improves thread quality.
- Reduces threading torque.

RIDGID thread cutting oils are free of chlorine and other halogens, PCBs and heavy metals. Complete material safety data sheet available.

Dark Oil - Traditional mineral oil with low odor and anti-mist formulation.

Nu-Clear® Oil – Clear mineral oil with low odor and anti-mist formulation. Special low temperature properties maintain workable viscosity to -20°F.

Extreme Peformance Oil – High performance mineral oil formulated to produce superior quality threads on stainless steel and black pipe.

Container Size		Catalog No.			Containers	Weight Per Case	
U.S.	Metric	Nu-Clear	Dark	Extreme Performance	Per Case	lb.	kg
1 Qt.*	0.94 L	41565	41590	74007	12	22	10
1 Gal.	3.78 L	70835	70830	74012	6	50	22.7
5 Gals	18.90 L	41575	41600	74047	1	42	19
55-Gal Drum	207.90 L	41585	41610	76767	1	465	211
16 oz**	0.38 L	_	_	22088	12	12	5.5

^{*}Flip top included with every quart bottle. **Aerosol can.

Oiler



No. 418 Oiler

The Model 418 hand-held oiler is sturdier than ever before. The 418's pump assembly and heavy-duty reservoir are designed to increase productivity.

Pump Assembly

- 50% more oil per stroke than other hand-held oilers for longer die life.
- An ergonomic 2-finger trigger design that reduces user fatigue.
- Die cast, heavy-duty body with swivel nozzle with no exposed parts for longer life.

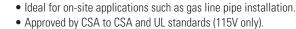
Heavy Duty Reservoir

- The 418 oiler features a patent pending fastenerless twist and lock drip pan that easily locks in place.
- The material withstands abrasion, is lighter than metal and does not rust.
- The reservoir will not crack or leak.
- Material is so strong that under normal use, no dents will form on impact or shape changes will occur over time. As a result, the drip pan will fit squarely on the reservoir time after time.
- Integral molded body eliminates leaks at the hose-reservoir connection.
- Convenient anti-slip grip design with integral hook for easy hanging.

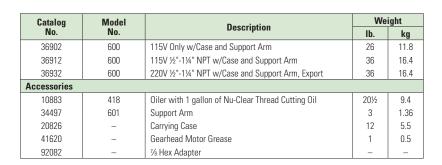
Catalog	Model	Description	Weight		
No.	No.	Description	lb.	kg	
10883	418	Hand operated oiler complete. Includes 1 gallon thread cutting oil, reservoir with removeable chip tray, and 54" hose.	201/2	9.4	
72342	402	Hand operated oiler with attachment for 1 gallon and 5 gallon containers and 54" hose.	2½	1.2	
72332	#4	Hand-operated oiler only.	11/4	0.5	
72327	#4	Hand-operated oiler with 54" hose and hose fittings.	21/4	1.0	

Hand-Held Power Drives





- Technical Specifications
 Motor: ½ HP Universal 115V or 220V, 50/60 Hz.
- Switch: Heavy-duty paddle-type switch with safety lock off switch. Separate FORWARD/REVERSE switch.
- Gear Housing: Aluminum.
- Body & Handle: Durable heavy-duty fiberglass reinforced plastic.
- Spindle Speed: 32 RPM (No load).
- Capacity: 1/8"-11/4" (3mm-32mm) pipe.
- Die Heads Included: ½, ¾, 1, 1¼ (Type 11-R).
- Includes No. 601 support arm.
- Weight: 121/2 lbs. (51/2 kg) power drive only.
- Length: 20 in. (51 cm).









The 690 Power Drive is a new lightweight and powerful hand-held power drive. It is designed for threading 1/8" - 2" pipe with the use of 11-R Die Heads. The 690 comes equipped with a full set of 11-R Die Heads, 1/2" - 2", the 691 Support Arm and a durable Carrying Case. The 690 Power Drive is the perfect lightweight and portable power drive for maintenance and repair workers, as well as service plumbers requiring 2" pipe capacity.

- Capacity: 1/8" 2" (3 51 mm) pipe.
- · Weight: 19 lbs. (8.6 kg), Power Drive Only.
- Length: 24 in. (61 cm).
- Motor: Universal 1020 Watt, 230 or 115Volt, 50/60 Hz.
- Approved by CSA to CSA and UL standards (115V only).
- Switch: Heavy-duty paddle switch with safety lock-off device (automatically locks off when released). Separate FORWARD/RELEASE switch.
- Gear Head: Spur gear reduction/face gear drive. All shafts, ball and needle bearing mounted. Permanently lubricated gear housing.
- Gear Housing: Die cast aluminum.
- Body & Handle: Durable, heavy-duty, fiberglass-reinforced, industrial plastic.
- Spindle Speed: 32 RPM.
- Die Heads: ½", ¾", 1", 1¼", 1½", 2" (type 11-R).
- Includes Support Arm: No. 691.
- Die Head Adapter: Used with 1/8" through 11/4" die heads.
- · Carrying Case.

B	S. A.B.
1	Ci.l.
7	
No. 690 with S	upport Arm,

Die Heads and Carrying Case

No. 690 with Support Arm	

Catalog	Model	Description	We	ight
No.	No.	Description	lb.	kg
16013	690	115V ½"-2" 25-60 NPT with Case & Support Arm	521/2	24
16708	690	115V Kit Less Die Heads with Case & Support Arm	35	15.8
16718	690	220V ½"-2" 25-60 NPT with Support Arm, Export	521/2	24

Catalog	Model	Accessive Description	Weight	
No.	No.	Accessories Description	lb.	kg
10883	418	Oiler with 1 Gallon Nu-Clear Oil	17	7.7
43292	691	Support Arm	41/2	2.0
44897		Carrying Case	171/2	8.0
39187	_	Die Head Adapter	_	_
16703	425	1/8"-21/2" TRISTAND Chain Vise	32	14.5
72037	460	1/8"-6" TRISTAND Chain Vise	47	21.0
_		1/8"-11/4" 11-R Die Heads (See pages 4.5-4.7)		









Model 700 Power Drive

- Heavy-duty hand-held power drive.
- Features reversible 115V or 230V universal motor.
- Capacity ½"-2" (3mm-50mm) pipe, ½"-1" bolt with 00-RB die heads. Designed for RIDGID No. 12-R die heads. Other RIDGID die heads (00-R, 00-RB, 11-R) using adapters, threading ½" through 6" (62mm-150mm) with 141/161 geared threaders. Also used with 258/258XL pipe cutters. Die heads not included, see page 4.5.
- Approved by CSA to CSA and UL standards (115V only).

Technical Specifications

Motor: Universal, 1/2 HP, 115V or 230V 50/60 Hz.

Switch: Double-throw reversible.

Gear Head: Spur gear reduction face gear drive. Spring-loaded adapter pawls.

Hardened steel spindle gear.

Body: Cast aluminum.

Spindle Speed: 26-30 RPM (no load).

Capacity: 1/8"-2" Pipe (30mm-50mm).

1/4"-1" (6mm-25mm) Bolt (using 00-RB).

Weight: 25 lbs. (11 kg) Power Drive only.

Length: 281/4" (71.7 cm).



Threading using a pipe wrench as a support arm.

Catalog No.	Model No.	Description	Pipe Threading Capacity		Rod Threading Capacity		Max. Geared Threader Capacity		Weight	
NO.	NO.		in.	mm	in.	mm	in.	mm	lb.	kg
41935	700	115V 50/60 Hz Only	1/8-2	3-50	1/4-1	6-25	6	150	31	14
41940	700	230V 50/60 Hz Only	1/8-2	3-50	1/4-1	6-25	6	150	31	14

Catalog	Model	Accessive Description	Weight		
No.	No.	Accessories Description	lb.	kg	
42600	770	Adapter for OO-R and OO-RB	3%	2	
42605	771	Adapter for O-R	3%	2	
42610	772	Adapter for 11-R	3½	2	
42615	773	Adapter for 111-R	3	1	
42620	774	Square Drive Adapter - 15/16"	51/4	2	
42625	775	Support Arm for No. 700	11	5	
42950	B-171-X	Metal Carrying Case	29	13	
10883	418	Oiler w/1 Gal. Nu-Clear Thread Cutting Oil	20½	9.4	
41620	_	Gearhead Motor Grease	1	0.5	

Model 300 Power Drive



Model 300 Power Drive Only

- RIDGID speed chuck.
- Reversible ½ HP universal motor.
- Capacity: 1/8"-2" (3mm-50mm) pipe, 21/4"-4" with 141, and 4"-6" with 161 Geared Threaders; 1/4"-2" (6mm-50mm) rod.
- Recessed On/Off/Reverse switch.
- Ideal for use with RIDGID roll groovers, see page 5.1.
- 115V, 38 RPM approved by CSA to CSA and UL standards.

Technical Specifications

- Motor: ½ HP, universal, reversible motor, single-phase, 50/60 Hz, 115V (230V available).
- Switch: Heavy-duty FOR/OFF/REV and Integral Foot Switch.
- Chuck: RIDGID speed chuck with replaceable rocker-action jaws.
- Spindle Speed: 38 RPM (57 RPM available).
- Rear Centering Device: Cam-action turns with chuck.
- Support Bar: Heavy-duty (2).

Catalog No.	Model No.	Description	Spindle Speed		Pipe Threading Capacity Capacity Max. Geared Threader Capacity		Max. Geared Threader Capacity		Wei	ght	
NU.	NO.		ŔPM	in.	mm	in.	mm	in.	mm	lb.	kg
41855	300 Only	115V, 50/60 Hz	38	1/8-2	3-50	1/4-2	6-50	6	150	94	43.0
75075	300 Only	115V, 50/60 Hz	57	1/8-11/4	3-50	1/4-11/2	6-40	6	150	94	43.0
41860	300 Only	230V, 50/60 Hz	38	1/8-2	3-50	1/4-11/2	6-40	6	150	94	43.0
75435	300 Only	230V, 50/60 Hz Export	38	1/8-2	3-50	1/4-2	6-50	6	150	94	43.0

 $Other\ voltages\ available\ upon\ request.\ Export\ machines\ equipped\ with\ special\ power\ cord\ sets.$





Model 300 Power Drive Complete for Portable Threading

Convert your 300 Power Drive into a portable threading machine.

Standard Equipment

- Die heads and dies for use with 300 Power Drive with 311 carriage. (see page 4.27)
- No. 360 Cutter: Capacity: ½"-2" (3mm-50mm) pipe, ¼"-½"
 (6mm-2mm) rod with F-3 wheel, ½16"-1" (8mm-25mm) with E-1032
 cutter wheel
- No. 341 Reamer: Positive-locking, 5-flute cone, right-hand ½"-2" (3mm-50mm). Special E863 RH/LH combination reamer cone available.
- No. 311 Carriage with lever.
- No. 1206 Stand.
- No. 1452 Clip-on tool tray.
- No. 418 Oiler with 1 gallon of Nu-Clear thread cutting oil (see page 4.12).
- No. 32 Transporter.

Automatic Oiler Accessories

Add a No. 304 retrofit kit to convert the 300 power drive to automatic oiling:

- Gear head assembly with oil pump.
- Oil pan assembly.
- Oil spout.
- Support bar.
- Necessary connectors.
- One gallon of Nu-Clear thread cutting oil.

Catalog	Model	Description	Spindle Speed		Pipe Threading Capacity		Rod Threading Capacity		Max. Geared Threader Capacity		ight
No. No.			ŔPM	in.	mm	in.	mm	in.	mm	lb.	kg
15682	300 Complete	115V, 50/60 Hz (NPT)	38	1/8-2	3-50	1/4-2	6-50	6	150	212	96.2
15722	300 Complete	115V, 50/60 Hz (NPT)	57	1/8-11/4	3-50	1/4-11/2	6-40	6	150	212	96.2
97415	300A Complete	230V, (NPT) Export	38	1/8-2	3-50	1/4-11/2	6-40	6	150	202	91.6
97420	300A Complete	230V. (NPT) Export	38	1/8-2	3-50	1/4-2	6-50	6	150	202	91.6



Catalog	Model	Accessories Description	Wei	ight
No.	No.	Accessories Description	lb.	kg
42360	1206	Stand for 300 Power Drive	31	14.1
83540	1206	Stand for 300 Power Drive Export	31	14.1
42575	32	Transporter (for Power Drives and Tristand Vises)	141/4	6.5
68815	311	Carriage with No. 312 Lever	15	6.8
42385	312	Carriage Feed Lever	3	1.4
10883	418	Oiler with 1 gallon of Nu-Clear Thread Cutting Oil	20½	9.4
42365	341	Reamer for No. 311 Carriage with Lever	7	3.2
42370	360	Cutter for No. 311 Carriage	8½	3.9
97065	811A	Universal Q.O. Die Head Only, Right-Hand Only	12½	5.7
97075	815A	Self-Opening Die Head Only, Right-Hand Only	13½	6.1
51005	819	Nipple Chuck Complete, ½"-2" (12mm-50mm)	101½	4.8
42380	1452	Clip-On Tool Tray	6	2.7
97345	304*	Retrofit Kit (38 rpm)	37¾	17.1
97350	304*	Retrofit Kit (57 rpm)	37¾	17.1
97365	_	Jaw Inserts for Coated Pipe	1/2	0.2
46660	E-863	LH/RH Reamer Cone	7	3.2
41620	_	Gearhead Motor Grease	1	0.5



Model 535A Automatic Threading Machine



535A with optional 200A Machine Stand

Standard Equipment

Model No. 535A automatic threading machine with foot switch.

- One No. 811A universal, quick-opening die head.
- One No. 341 reamer.
- One No. 820 cutter.
- One set 1/2"-3/4" universal high-speed dies.
- One set 1" 2" universal high-speed dies.
- One gallon stainless steel premium oil.
- Two hex wrenches. Replacement hex wrenches: \$\frac{3}{2}\text{" No. 46015, }\frac{3}{16}\text{" No. 46030.}
- One spare E-1032 cutter wheel.

Capacities

- Pipe: 1/8"-2" (3mm-50mm) 21/2"-4" (62mm-100mm) with 141 geared threader.
- Bolt: 5/16"-2" (8mm-50mm).

The Model 535A maintains the ruggedness of the industry workhorse while adding features that make the threading operation more productive. A large chip tray and oil reservoir make the 535A ideal for longer uninterrupted threading. The 535 features a high clearance carriage that makes the threading operation easier and a generous top cover area that is ideal for keeping tools and work related materials handy. The 535A is designed around maximum uptime with the upgrades that matter most to the pipe working professional. Users also benefit from the part commonality between the 535, the 535A Automatic and other RIDGID equipment.

Features

- Automatic chuck.
- 3-speed (16/46/58 RPM) transmission.
- Large 1.75 gallon oil reservoir.
- 100% greater chip tray capacity.
- Generous top cover area for keeping tools and fittings handy.
- High clearance carriage.
- Can be used with geared threader Model 141.
- Uses Model 816/817 semi-automatic, Model 815A self opening or Model 811A quick-opening die heads.
- Length gauge for quick, accurate cut-off.
- Approved by CSA to CSA and UL standards.

Technical Specifications

- Motor: 2 HP, single-phase, 115V, 60 Hz, 20 Amp reversible induction motor.
- Switches: FOR/OFF/REV and Integral safety foot switch.
- Chuck: automatic with four reversible forged jaws.
- · Rear Centering Device: automatic, centering only.
- Cutters: self-centering, full-floating. Two models available:
- One Standard. No. 820 Wheel-Type Cutter, pipe capacity ½"-2" (3mm-50mm), bolt capacity ½"-1" (6mm-25mm).
- Two Optional. No. 821 Blade-Type cutter, pipe capacity $1/\!\!2"$ -2" (12mm-50mm). See ordering chart.
- Spindle Speed: 3 speed 16/46/58 RPM.
- Reamer: 5-flute cone, RH, 1/8"-2" (3mm-50mm).
- Oil Pump: self-priming gerotor oil pump.
- RH/LH combination reamer available.



Model 535A Standard Machines

Catalog	Model	Description	Cutter	RPM	Chuck	Die Head	Volt	We	ight
No.	No.	115V 25-60 Hz	Model	nrivi	GHUCK	Die neau	VOIL	lb.	kg
91142	535A	Automatic Machine only	820	16/46/58	Automatic	-	115V	340	155
84097	535A	½"-2" NPT Automatic	820	16/46/58	Automatic	811A	115V	350	159
91322	535A	½"-2" NPT Automatic	820	16/46/58	Automatic	816/817	115V	360	163

Machines listed as ½"-2" include standard equipment. Machine only includes standard equipment less all die heads and dies. Please use catalog item numbers when ordering.

Machine Stands







Model 535A Machine Accessories

Catalan Na	Model	Description	We	ight
Catalog No.	No.	Description	lb.	kg
42365	341	Reamer	6¾	3.1
42390	820	Wheel-Type Cutter	81/2	3.9
92457	100A	Universal Leg & Tray Stand	75	34.5
92462	150A	Universal Wheel & Tray Stand	103	46.7
92467	200A	Universal Wheel & Cabinet Stand	104	74.5
51005	819	Nipple Chuck Complete ½"-2"	10½	4.8
41620	_	Gearhead Motor Grease	1	0.5
35867	839	Adapter Kit for 819 Nipple Chuck	16½	7.5
97882	535A	141 Mounting Kit	12	5.4
12138	535A	Left Hand Threading Kit	21/2	1.2
42485	4U	Die Head Rack	81/2	3.9
42490	6U	Die Head Rack	12½	5.7
97065	811A	NPT Die Head Quick-Open R.H.	12½	5.7
97075	815A	NPT Die Head Self-Open R.H.	13	5.9
23282	842	NPT Die Head Quick-Open L.H.	12½	6.7
97070	811A	BSPT Die Head Quick-Open R.H.	12½	6.7
97080	815A	BSPT Die Head Self-Open R.H.	13	6.9
97045	531	Bolt Die Head Quick-Open R.H./L.H. 1/4"-1"	7 ½	3.4
97050	532	Bolt Die Head Quick-Open R.H./L.H. 11/8"-2"	9	4.1
84537	816	1/8"-3/4" Semi-Automatic Die Head	13	5.9
84532	817	1"-2" Semi-Automatic Die Head	13	5.9

Note: Mono Die Heads available, ½", ½", ¾", ½", ½", ¾", 1", 1½", 2". All Die Heads are through-head oiling. Dies: All Universal Pipe and Bolt Dies; all 500B Bolt Dies, See pages 4.30-4.32.

Steel Cabinet Features

- 17-gauge steel walls and welded construction.
- Two internal and one external storage shelves.
- Oversized bi-fold door with steel clasp.
- Cut-outs for power cord and foot switch storage.
- Two drain plugs for easy cleaning.

Model 535 Threading Machine



Standard Equipment

Model No. 535 threading machine with foot switch:

- One No. 811A universal quick opening die head.
- One No. 341 reamer.
- OneNo. 820 cutter.
- One set 1/2" 3/4" universal alloy dies.
- One set 1" 2" universal alloy dies.
- One gallon premium oil.
- · Four hex wrenches.
- One spare E-1032 cutter wheel.

Capacities

- Pipe: ½"-2" (3mm-50mm) 2½"-4" (62mm-100mm),
 4"-6" (100mm-150mm) with 141 and 161 geared threaders.
- Bolt: 1/4"-2" (6mm-50mm).

The Model 535 maintains the ruggedness of the industry workhorse while adding the features that makes the threading operation more productive. A large chip tray and oil reservoir make the 535 ideal for longer uninterrupted threading. The 535 features a high clearance carriage making the threading operation easier and a generous top cover area that is ideal for keeping tools and work related materials handy. The 535 is designed around maximum uptime with the upgrades that matter most to the pipe working professional. Users also benefit from the part commonality between the 535, the 535A Automatic and other RIDGID equipment.

Features

- Large 1.75 gallon oil tray.
- 100% larger chip tray.
- · Generous top cover for keeping tools and fittings handy.
- High clearance carriage.
- Speed chuck with rocker-action jaws centers and grips work piece instantly.
- Can be used with geared threaders Models 141 and 161.
- Uses Model 816/817 semiautomatic, Model 815A self-opening or Model 811A quick-opening die heads.
- Length gauge for quick, accurate cut-off.
- Approved by CSA to CSA and UL standards (115V only).

Technical Specifications

- Motor: ½ HP, single-phase, 115V, 50/60 Hz, 15 amp reversible universal motor (36 RPM).
- Switches: FOR/OFF/REV and Integral safety foot switch.
- Chuck: Speed Chuck™ with replaceable rocker-action jaw inserts (3).
- Rear Centering Device: Cam-action, turns with chuck.
- Cutters: Self-centering, full-floating. Two models available:
 - One Standard. No. 820 Wheel-Type Cutter, pipe capacity ½"-2" (3mm-50mm), bolt capacity ¼"-1" (6mm-25mm).
 - Two Optional. No. 821 Blade-Type cutter, pipe capacity ½"-2" (12mm-50mm). See ordering chart.
- Spindle Speed: 36 RPM standard (no load), 54 RPM model also available.
- Reamer: 5-flute cone, RH, 1/8"-2" (3mm-50mm).
- Oil Pump: Self-priming gerotor oil pump.
- RH/LH combination reamer available.





Model 535 Standard Machines

Catalog	Model	Description	Cutter	DDM Vol4		We	eight
No.	No.	115V 50/60 Hz	Model RPM		Volt	lb.	kg
93287	535	½"-2" NPT	820	36	115V	260	117.9
96497	535	Machine Only	820	36	115V	245	111.1
96502	535	½"-2" NPT*	820	54	115V	260	117.9
		230V 50/60 Hz					
96507	535	½"-2" NPT	820	36	230V	260	117.9

^{* 20} AMP, 115V circuit required.

Machine Stands



Model 535 International Standard Machines

Catalog			Cutter	RPM	Volt	We	ight
No.	No.	115V 50/60 Hz	Model	NEIVI	VUIL	lb.	kg
96512	535	½"-2" BSPT	820	36	115V	260	117.9

Machines Listed as ½-2" include Standard Equipment. Machine Only includes Standard Equipment less all Die Heads and Dies. All machines have 50/60 Hz Universal ½-HP single-phase motors.

Note: NPT Dies are for NPT Die Heads only. BSPT Dies are for BSPT Die Heads only. Please use Catalog Item Nos. when ordering. Use High Speed Dies for machines of 54 or more RPM.



- Die Heads and Dies. (page 4.27-4.32)
- Die Head Racks. (page 4.27)
- Stands Three Models Available.
- Thread Cutting Oil. (page 4.12)
- Nipple Chuck. (page 4.33)



No. 100A

Model 535 Machine Accessories

Catalog No. Model No.		Description	We	Weight		
		Description	lb.	kg		
42365	341	Reamer	6¾	3.1		
42390	820	Wheel-Type Cutter	81/2	3.9		
42395	821	Blade-Type Cutter	13¾	6.2		
97365	_	Jaw Inserts for Coated Pipe	1/2	0.2		
92457	100A	Universal Leg & Tray Stand*	75	34.5		
92462	150A	Universal Wheel & Tray Stand*	103	46.7		
92467	200A	Universal Wheel & Cabinet Stand*	104	74.5		
58007	_	Machine stand adapter bracket for 535's built before 1996*	17	7.7		
96517	MJ-1	535M Left Hand Threading Kit	3½	1.6		
42415	768	Drive Link Assembly for 141	21/2	1.1		
16723	4135	Drive Link Assembly for High Clearance Carriage for 141	12	5.5		
42405	844	Drive Bar for 141	53/4	2.6		
51005	819	Nipple Chuck Complete 1/2"-2"	10½	4.8		
84537	816	1/8"-3/4" Semi-Automatic Die Head	13	5.9		
84532	817	1"-2" Semi-Automatic Die Head	13	5.9		
41620	_	Gearhead Motor Grease	1	0.5		



No. 200A with Steel Cabinet

Steel Cabinet Features

- 17-gauge steel walls and welded construction.
- Two internal and one external storage shelves.
- Oversized bi-fold door with steel clasp.
- Cut-outs for power cord and foot switch storage.
- Two drain plugs for easy cleaning.

Model 1210 OIL-LESS™ Threading Machine



Standard Equipment

Model 1210 OIL-LESS Threading Machine with Foot Switch.

- One Model 610 Quick-Open Die Head.
- One Model 334 Reamer.
- One Model 354 Cutter with Cutter Wheel.
- One Set 1/2"-3/4" OIL LESS GOLD Dies.
- One Set 1" OIL LESS GOLD Dies.
- One Quart Thread Cutting Coolant.

Capacity

Pipe: $\frac{1}{2}$ " – 1" (12-25mm).

The RIDGID Model 1210 OIL-LESS Threading Machine offers an unbeatable combination of portability and clean operation in a rugged package designed for jobsite threading. With the Model 1210, you can thread virtually anywhere: in basements, on rooftops, even in finished rooms! Thread where you install and save time and effort.

Features

- OIL-LESS operation provides clean, cool, virtually dry thread.
- Light-weight, portable design only 59 lbs.
- OIL-LESS GOLD® dies produce superior quality threads.
- Self-contained with all the tools needed to cut, ream and thread.
- Compact foot switch with integral storage clip.
- Two carrying handles.
- Approved by CSA to CSA and UL standards (115V only).

Technical Specifications

- Motor: 1/2 HP, 115V universal 50/60 Hz.
- Motor Control: Heavy-Duty Toggle ON/OFF with integral Foot Switch.
- Spindle Speed: 25 RPM right hand operation.
- Chuck: Hammer-type with replaceable inserts; cam action rear chuck.
- Coolant System: Through-the-head with integral coolant reservoir; self-priming gerotor pump; 20 oz. reservoir capacity.
- Cutter: Model 354.
- · Reamer: Model 334.

Catalog	Model	Description	We	ight
No.	No.	Description	lb.	kg
Machines				
67872	1210	½" - 1" NPT, 115V, 50/60 Hz	59	26.8
Die Heads				
67817	610	½" - 1" NPT, Quick-Opening, RH	11	5.0
Dies				
67807	_	½" - ¾" NPT OIL-LESS GOLD, RH	1	0.5
67812	_	1" NPT OIL-LESS GOLD, RH	1	0.5
Coolant				
30693	_	1 Qt. Thread Cutting Coolant	2	0.9
Stands				
67822	120	Folding Stand	12	5.5
Lubricant				
41620	_	Gearhead Grease	1	0.5

Call for BSPT and 230V Models.

Please Note: The Model 1210 is warranted for use only with RIDGID Thread Cutting Coolant and RIDGID OIL-LESS GOLD Dies. RIDGID Thread Cutting Coolant and RIDGID OIL-LESS GOLD Dies are not for use with any other RIDGID threading equipment.

Model 1215 Threading Machine



Model 1215

Standard Equipment

- One No. 811A Quick Opening Die Head.
- One Set ½"-¾" Universal Alloy NPT Dies.
- One Set 1"-1½" Universal Alloy NPT Dies.
- $\bullet~$ One No. 344 Five Fluted Reamer 1/4 "-11/2".
- One No. 732 Cutter with Cutter Wheel.
- One Gallon Nu-Clear Oil.

Capacities

- Pipe: 1/4"-11/2" (6mm-37mm).
- Bolt: 5/16"-1" (6mm-25mm).

Features

- Compact, lightweight design.
- One-piece aluminum housing.
- Two easy-to-use carrying handles.
- Integral foot switch hanger.
- Powerful motor and transmission.
- Through die head oiling.
- · Adjustable oil flow control.
- Approved by CSA to CSA and UL standards (115V only).

Technical Specifications

- Motor: 1/2 HP universal motor 50/60 Hz.
- Motor Control: ON/OFF heavy duty switch and integral foot switch.
- Spindle Speed: 44 RPM right hand operation.
- Front Chuck: Hammer type with replaceable rocker action jaw inserts.
- Rear Centering Device: Cam action.
- · Cutter: Model 732.
- Reamer: Model 344, ¼"-1½".
- Oiling: Through die head adjustable.
- Pump: Self-priming constant flow, gerotor type.

Catalog	Model	Description	Wei	ight
No.	No.	Description	lb.	kg
61142	1215	½"-1½" NPT, 115V, 60Hz	69	30

^{*}Call for BSPT and 230V Models.

Accessories:

- Model 1203 Mounting Stand.
- Model 531 1/4"-1" Bolt Die Head.
- Model 1219 Nipple Chuck 1/2"-11/2".

Machine Accessories

Catalog	Model	Model Description		ight
No.	No.			kg
61187	1203	Tripod Stand	15	6.8
62457	1219	Nipple Chuck, NPT	5¾	2.6
97045	531	Bolt Die Head 1/4"-1"	71/2	3.4
84537	816	1/8"-3/4" Semi-Automatic Die Head	13	5.9
84532	817	1"-2" Semi-Automatic Die Head	13	5.9
41620	_	Gearhead Motor Grease	1	0.5

Model 300 Compact Threading Machine



Standard Equipment

Model 300 Compact Threading Machine:

- One No. 811A Quick-opening die head.
- One No. 344 Reamer.
- One No. 360 Cutter with E-1032 Cutter Wheel.
- One Set 1/2" 3/4" Alloy Universal Dies.
- One Set 1"- 2" Alloy Universal Dies.
- One Gallon Nu-Clear Threading Cutting Oil.

Capacity

- Pipe: 1/8" 2" (3mm-50mm).
- Bolt: 1/4" 2" (6mm-50mm).

Features

- Heavy-duty proven performance.
- · Lightweight, portable design.
- Fast transport and set-up.
- Self-Contained Oil System with adjustable flow control.
- · Versatility for threading and grooving.
- Quiet operation.
- Approved by CSA to CSA and UL standards (115V only).

Technical Specifications

- Motor: 1/2 HP, 115V universal 50/60 Hz.
- Motor Control: Heavy duty rotary FOR/OFF/REV with integral foot switch.
- Spindle Speed: 38 RPM (52 RPM available).
- Chuck: Hammer-type with replaceable, rocker-action jaw inserts.
- Oiling System: Through-the-head, with integral oil reservoir. Self-priming, constant-flow, gerotor pump.
- Cutter: Model 360, roll-type cutoff, self-centering, full-floating.
- Reamer: Model 344, 1/8"-2", five flute cone, right hand only.

Catalog	Model	Description	We	ight
No. No.		Description	lb.	kg
Machines				
66947	300 Compact	½" - 2" NPT, 115V, 50/60 Hz	115	52.3
67182	300 Compact Kit	½" - 2" NPT, 115V, 50/60 Hz – includes Model 250 Folding Wheel Stand	160	72.7
73447	300 Compact*	52RPM ½" - 2" NPT, 115V, 50/60 Hz	115	52.3
75602	300 Compact Kit*	52RPM ½" - 2" NPT, 115V, 50/60 Hz – includes Model 250 Folding Wheel Stand	160	72.7
58752	300 Compact	1/2" - 2" BSPT, 230V, 50/60 Hz (Aust. only)	115	52.3
58757	300 Compact	1/2" - 2" NPT, 230V, 50/60 Hz (Export only)	115	52.3
Die Heads				
97075	815A	1/8" - 2" NPT, Self-Opening, RH	13	5.9
97065	811A	1/8" - 2" NPT, Quick-Opening, RH	13	5.9
97045	531	1/4" - 1" Bolt, Quick-Opening, RH/LH	8	3.6
97050	532	11/4" - 2" Bolt, Quick-Opening, RH/LH	9	4.1
84537	816	1/8"-3/4" Semi-Automatic Die Head	13	5.9
84532	817	1"-2" Semi-Automatic Die Head	13	5.9
Accessories				
67662	-	916 Groover Adapter Bracket for 300 Power Drive version of 916	30	13.6
51005	819	Nipple Chuck, ½" - 2" NPT	10.5	4.8
41620	-	Gearhead Motor Grease	1	0.5
Stands (see pa	ge 4.26)			
67657	250	Folding Wheel Stand	45	21
92457	100A	Universal Leg & Tray Stand	75	34.5
92462	100A	Universal Wheel & Tray Stand	103	46.7
92467	200A	Universal Wheel & Cabinet Stand	164	74.5

^{* 20} AMP, 115V circuit required.



Model 1822-I Threading Machine



Standard Equipment

Model No. 1822-I threading machine with foot switch.

- One No. 815A universal self-opening die head.
- One No. 344 reamer.
- One No. 364 cutter with E-1032 cutter wheel.
- One set 1/2" 3/4" universal alloy dies.
- One set 1"- 2" universal high speed dies.
- · One gallon Nu-Clear oil.

Capacities

- Pipe: ½"-2" (3mm-50mm) 2½"-4" (62mm-100mm) with No. 141 geared threader.
- Bolt: 1/4"-2" (6mm-50mm).

Features

- Heavy Duty Automatic Chucking. Threads a wide range of material including black and galvanized pipe, stainless steel, IMC, PVC and heavy-wall conduit.
- Induction motor (81 db) delivers constant 45 or 16 RPM as required.
- Constant and proper lubrication of dies and workpiece with through-head oiling.
- Triple filtration provides for longer oil pump life and clean threads.
- · Special jaw inserts allow for quick, easy replacement.

Technical Specifications

- Motor: 1½ HP, single-phase, 60 Hz.
- Motor Control: Open/Off/Close, heavy-duty rotary type switch and integral safety foot switch.
- Spindle Speed: 45 and 16 RPM, right-hand, can be adapted to left-hand operation.
- Transmission: Two-speed (45 RPM for up to 11/4" pipe and 1" bolt, 16 RPM for low voltage and higher torque applications).
- Front Chuck: Automatic gripping/centering.
- Rear Centering Device: Automatic, centering only.
- Cutter: Model 364, 1/6"-2" full-floating, self-centering with E-1032 Cutter Wheel.
- Reamer: Model 344, 1/8"-2" right-hand only.
- · Clutch: Shiftable cone type.
- Oil Pump: Self-priming gerotor.

Machines

Catalog	Model	Model Description		ight
No.	No.	Description	lb.	kg
20000	1822-l	1/2"-2" NPT 120V 60 Hz	240	109.1

Threader Stands









Model 1822-I Die Heads

Catalog	Model	Description	Wei	ight
No.	No.	Description	lb.	kg
97065	811A	NPT Die Head Quick-Open R.H.	12½	5.7
97075	815A	NPT Die Head Self-Open R.H.	13	5.9
84537	816	NPT 1/8"-3/4" Semi-Automatic	13	5.9
84532	817	NPT 1"-2" Semi-Automatic	13	5.9
23282	842	NPT Die Head Quick-Open L.H.	12½	6.7
97070	811A	BSPT Die Head Quick-Open R.H.	12½	6.7
97080	815A	BSPT Die Head Self-Open R.H.	13	6.9
97045	531	Bolt Die Head Quick-Open R.H./L.H. 1/4"-1"	71/2	3.4
97050	532	Bolt Die Head Quick-Open R.H./L.H. 11/8"-2"	9	4.1

Note: Mono Die Heads available, ¼", ¼", ¾", ½", ¾", 1", 1¼", 1½", 2".
All Die Heads are through-head oiling.
Dies: All Universal Pipe and Bolt Dies; all 500B Bolt Dies. See pages 4.30-4.32.

Model 1822-I Accessories

Catalog	Model	Description	Wei	ight
No.	No.	Description	lb.	kg
51005	819	Nipple Chuck ½"-2" NPT	10	4.5
68160	819	Nipple Chuck 1/2"-2" BSPT	10	4.5
35867	839	Adapter Kit for No. 819 Nipple Chuck	16½	7.5
42395	821	Blade Type Cutter	13¾	6.2
35872	822	Adapter Kit for No. 821 Blade Cutter	23/4	1.2
36620	141	4" Geared Threader NPT	93	42.3
65380	141	4" Geared Threader BSPT	93	42.3
35877	241	Carriage-Mount Kit for No. 141 Threader	15	8.8
35882	1460	Oil Pan Cover Kit	23/4	1.2
35887	1462	Fitting Breakdown Rail Set	16	7.2
46660	E-863	L.H./R.H. Reamer Cone	1	0.5
34617	364	Wheel Type Cutter	81/2	3.9
50107	_	Conversion Kit for Plastic Coated Pipe	3	1.4
34217	_	Grooving Tool	_	_
44200	E-1050	Saran Tool for 821	_	_
43890	D471	45° Bevel, Cutoff Tool for 821	_	_
34612	344	Reamer	-	-
26707	_	Gear Grease (1224 & 1822)	1	0.5

Stands

Catalog	Model	Description		ight
No.	No.			kg
92457	100A	Universal Leg & Tray Stand	75	34.5
92462	150A	Universal Wheel & Tray Stand	103	46.7
92467	200A	Universal Wheel & Cabinet Stand	104	74.5
20105	1406	Folding Wheel Stand w/No. 1460 Oil Pan Cover	71½	32.5
22563	_	Steel Cabinet	42	19.3

Stands

Four stands are available to satisfy every operational situation. The Model 1406 Folding Wheel Stand provides increased field maneuverability and productivity.







Optional Die Heads



No. 815A Self-Opening Die Head



No. 811A Quick-Opening Die Head

No. 532 **Bolt Die Head**



Mono Die Head

Galaig	IVIOUEI	Die Heau	11044	IIIIGau	On iniu	DIGS	i ihe	Duit	USGU		.9
No.	No.	Description	Opened	Direction	Head	Used	Cap.	Cap.	On	lb.	kg
				Mach	ine NPT Die	Head					
97065	811A	Universal	Q.O.	RH	Yes	Univ.	1/8"-2"	1/4"-2"	*	121/2	5.7
97075	815A	Universal	S.O.	RH	Yes	Univ.	1/8"-2"	1/4"-2"	*	13	5.9
84537	816	Universal	S.A.	RH	Yes	Univ.	1/8"-3/4"	_	*	13	5.9
84532	817	Universal	S.A.	RH	Yes	Univ.	1"-2"	_	*	13	5.9
23282	842	Universal	Q.O.	LH	Yes	Univ.	1/8"-2"	_	*	121/2	5.7
10491	555	555	Q.O.	RH	Yes	Dual/Bolt	1/8"-3/4"	_	*	8	3.6
				Machi	ne BSPT Die	Heads					
97070	811A	British Universal	Q.O.	RH	Yes	Univ.	1/8-2"	1/4"-2"	*	12½	5.7
97080	815A	British Universal	S.O.	RH	Yes	Univ.	1/8-2"	1/4"-2"	*	13	5.9
23297	856	British Universal	S.O.	LH	Yes	Univ.	1/8-2"	_	*	12½	5.7
				Machi	ne Bolt Die	Heads					
97045	531	Bolt	Q.O.	RH/LH	Yes	500B	-	¹ /4"-1"	*	71/2	3.4
97050	532	Bolt	Q.O.	RH/LH	Yes	500B	_	11//8"-2"	*	9	4.1
				Machir	ne Mono Die	e Heads					
42047	500A	Mono	Q.O.	RH	Yes	Mono	1/8"	-	*	6¾	3.1
42052	500A	Mono	Q.O.	RH	Yes	Mono	1/4"	_	*	7	3.2
42057	500A	Mono	Q.O.	RH	Yes	Mono	3/8"	_	*	7	3.2
42062	500A	Mono	Q.O.	RH	Yes	Mono	1/2"	_	*	71/4	3.3
42067	500A	Mono	0.0.	RH	Yes	Mono	3/4"	_	*	71/4	3.3
42072	500A	Mono	Q.O.	RH	Yes	Mono	1"	_	*	8	3.6
42077	500A	Mono	Q.O.	RH	Yes	Mono	11/4"	_	*	8	3.6
42082	500A	Mono	Q.O.	RH	Yes	Mono	1½"	-	*	81/2	3.9
42087	500A	Mono	Q.O.	RH	Yes	Mono	2"	_	*	81/2	3.9

Catalog Model Die Head How Thread Oil Thru Dies Pipe Bolt Used Weight

Die Head Racks For All Machine Die Heads

Catalog	Model	Description	Wei	ight
No.	No.	Description	lb.	kg
42485	4U	4 Heads	81/2	3.9
42490	6U	6 Heads	12½	5.7

Die Head Differences

- Self-Opening Automatic release for repeatable number of threads.
- Quick-Opening Manual release for user-specified thread lengths.
- Bolt Specially for bolt threader.
- Mono Dedicated to a specific size of thread.
- Semi-Automatic Can be quickly adjusted from size to size with manual release.

- * 535-535A-1822 Machines and 300, 300 Compact and 300-A w/carriage.
- Q.O. = Quick-Opening Manually flip throwout lever to retract dies when thread
- S.A. = Semi Automatic (Dies retract automatically on depressing handle) S.O. = Self-Opening - Trigger foot automatically retracts dies when thread length
- No. 811A Die Head replaces the No. 811 and No. 841 Die Heads.
- No. 815A Die Head replaces the No. 815 and No. 845 Die Heads.
- No. 500A Die Heads replace the No. 500 Mono Die Heads.
- No. 555 Die Head replaces No. 515.
- Note: British Die Heads use British Dies only. Note: 531 and 532 Die Heads replace 500B Die Head.

Individual Machine Die Heads do not include dies.



No. 816/817 Semi-Automatic Die Head



Standard Equipment

Model No. 1224 threading machine with foot switch.

- One No. 714 (914) 21/2" 4" receding self-opening die head.
- One No. 711 (911) 1/4" 2" universal self-opening die head.
- One set 1/2" 3/4" universal alloy dies.
- One set 1" 2" universal alloy dies.
- One set 21/2"- 4" 1224 high-speed dies.
- One gallon Nu-Clear oil.*
- . Three (3) hex keys.
- One spare F-229 cutter wheel.
- One ¾" combination wrench.
- One tool box.
- One No. 744 reamer.
- One No. 764 cutter.

*Catalog numbers 26112, 26107 and 31442 do not include oil with machine. Oil must be ordered separately.

Capacities

- Pipe: ¼"-4" (6mm-100mm) 4"-6" (100mm-150mm) with 161 Geared Threader.
- Bolt: 1/4"-2" (6mm-50mm).

Features

- Threads 1/4"-2" pipe at 36 RPM and 21/2"-4" at 12 RPM.
- The 1224 threads a wide range of pipe including black, galvanized and plastic-coated pipe, together with stainless steel, IMC and heavy-wall conduit, as well as rod up to 30 Rockwell C.
- An induction motor insures sound levels well within the limits set by the regulating authorities.
- A special capacitor-start / capacitor-run motor allows the 1224 to thread a full range of material where voltage drop is experienced.
- ¼"-2" Universal Die Head; 2½"-4" receding die head allows cutting of tapered or straight NPT/NPSM or BSPT/BSPP threads.
- Constant and proper lubrication of dies and workpiece with through-head oiling.
- Approved by CSA (115V only).

Technical Specifications

- Motor: 11/2 HP, single-phase, 60 Hz or 50 Hz, induction type.
- Motor Control: Reverse/Off/Forward, heavy-duty rotary-type and integral foot switch.
- Spindle Speed: 36/12 RPM.
- Gear Box: Two-speed gear box 3:1 ratio.
- Chuck: Hammer-type with replaceable rocker-action jaw inserts.
- Rear Centering Device: Cam action.
- Cutter: Model 764 full-floating, self-centering 1/4"-4" with F-229 cutter wheel.
- Reamer: Model 744, 1/4"-4" blade-type.
- Oiling: Through die head.
- Pump: Self-priming, gerotor-type, automatic-reversing, constant-flow.

Catalog	Model	Description	Wei	ight
No.	No.	Description	lb.	kg
26092	1224	½-4 NPT 120V 60 Hz	509	231.0
26097	1224	½-4 NPT 240V 60 Hz	509	231.0
26127	1224	½-4 BSPT120V 60 Hz	509	231.0
26112	1224	½-4 BSPT 115V 50 Hz	509	231.0
26122	1224	½-4 BSPT 240V 60 Hz	509	231.0
26107	1224	½-4 BSPT 220V 50 Hz	509	231.0
26102	1224	½-4 BSPT GS 220V 50 Hz	526	238.5
31442	1224	1/2-4 NPT 220V 50 Hz	509	231.0

Stands (see page 4.26)

Catalog	Model	Description	Weight		
No.	No.	Description	lb.	kg	
92457	100A	Universal Leg & Tray Stand	75	34.5	
92462	150A	Universal Wheel & Tray Stand	103	46.7	
92467	200A	Universal Wheel & Cabinet Stand	164	74.5	
22563	_	Steel Cabinet	42	19.3	



No. 541 No. 542



No. 713



No. 714 (914) Style Receding Die Head.

Die Heads for Model 1224

Catalog	Model	Description	We	ight
No.	No.	Description	lb.	kg
26132	711	Universal Self-Opening R.H., NPT	1/4-2	5.6
26142	713	Universal Quick-Opening L.H., NPT	1/4-2	5.6
26152	714	Receding Self-Opening R.H., NPT	21/2-4	13.6
26137	911	Universal Self-Opening R.H., BSPT	1/4-2	5.6
26147	913	Universal Quick-Opening L.H., BSPT	1/4-2	5.6
26157	914	Receding Self-Opening R.H., BSPT	21/2-4	13.6
26162	541	Quick-Opening Bolt L.H./R.H.	1/4-1	3.4
26167	542	Quick-Opening Bolt L.H./R.H.	11/6-2	4.2
55447	725	Cut-Grooving Die Head	21/2-4	13.6
57497	_	2½"-3½" Grooving Die Set	21/2-31/2	1
57507	_	2½"-3½" Grooving Bit only	-	_
57492	_	4" Grooving Die Set	4	1
57502	_	4" Grooving Bit only	_	_
55452	766	Blade Type Cutter		9.5
58712	_	Cut-Off Tool Bit	-	_

Note: Die Heads do not include dies. All Die Heads are through-head oiling.

Pipe Dies $2\frac{1}{2}$ "-4" (for $\frac{1}{4}$ "-2" see pages 4.30-4.31)

Catalog	Description	Сар	acity	We	ight
No.	Description	in.	mm	lb.	kg
26192	1224 H.S. Dies NPT	21/2-4	62-100	21/4	1.0
33642	1224 H.S. Dies BSPT	21/2-4	62-100	21/4	1.0
31827	1224 H.S. NPT Dies for Plastic-Coated Pipe	21/2-4	62-100	21/4	1.0
31832	1224 H.S. BSPT Dies for Plastic-Coated Pipe	21/2-4	62-100	21/4	1.0
32237	1224 H.S. Dies NPT for PVC	21/2-4	62-100	2	1.0
32242	1224 H.S. Dies BSPT for PVC	21/2-4	62-100	2	1.0
33057	1224 H.S. Dies NPT for Stainless Steel	21/2-4	62-100	2	1.0
33072	1224 45° Beveling Dies	21/2-4	62-100	2	1.0
33077	1224 37½° Beveling Dies	21/2-4	62-100	2	1.0
44992	1224 Bevel Guide Set	21/2-4	62-100	2	1.0
44997	1224 37½° Bevel Bit Only	_	_	-	_
45002	1224 45° Bevel Bit Only	_	_	-	_

Note: NPSM threads are made with NPT dies by adjusting the die head. See manual for details

Accessories

Catalog	Model	Description	Cap	acity	We	ight
No.	No.	Description	in.	mm	lb.	kg
26212	764	1/4"-4" Wheel-Type Cutter	_	-	19	8.6
26217	744	1/4"-4" Blade-Type Reamer	-	_	13	5.9
34577	_	1/4"-4" Reamer Blade	-	_	1/2	0.2
26187	_	Jaw Insert and Roll Set for PE-Coated Pipe	_	_	1/4	0.1
51005	819	Nipple Chuck (See page 4.33)	1/2-2	12-50	10½	4.8
34157	419	Nipple Chuck 2½" NPT	-	_	51/2	2.5
34162	419	Nipple Chuck 3" NPT	_	_	51/2	2.5
34167	419	Nipple Chuck 4" NPT	_	_	5½	2.5
34172	419	Nipple Chuck 2½" BSPT	-	_	51/2	2.5
34177	419	Nipple Chuck 3" BSPT	_	_	51/2	2.5
34182	419	Nipple Chuck 4" BSPT	_	_	5½	2.5
61122	840A	Universal Drive Shaft	_	_	31	14.1
26707	_	Gear Grease (1224 & 1822)	_	_	1	0.5

Pipe Dies for Machine Die Heads

Pipe Dies for use in Universal Die Heads (Nos. 504A, 711, 713, 811A, 815A, 816, 817 and 842)

i ipo bios ioi aso ili oliivoi	1po 5105 101 430 111 0111101341 510 110443 (1103: 304A, 711, 710, 011A, 013A, 010, 017 4114 042)									
		(NPT)				(NPSM)				
	Nom	Nominal Pipe Size-Threads Per Inch				Nominal Pipe Size-Threads Per Inch				
Die Material or Type	1/8"-27	1/4"-3/8"-18	1/2"-3/4"-14	1"-2"-11½	1/8"-27	1/4"-3/8"-18	1/2"-3/4"-14	1"-2"-11 ½		
Alloy RH	47735	47740	47745	47750	_	_	_	_		
High-Speed RH	47755	47760	47765	47770	47845	47850	47855	47860		
High-Speed ●LH	39587	47810	47815	47820	_	_	_	_		
H.S. For Stainless Steel RH	47775	47780	47785	47790	_	_	_	_		
H.S. For Cast Iron	_	_	_	70740	_	_	_	_		
H.S. For PVC RH	_	_	70745	70750	_	_	_	_		
H.S. For Plastic Coated Pipe RH	_	_	50012	31822	_	_	_	_		

[•]Requires left hand model die head. Note: Use HS for PVC and RH for brass pipe.

Pipe Dies for use in British Universal Die Heads (Nos. 504A, 811A, 815A, 816, 817, 856, 911 and 913)

		(BS	SPT)		(BSPP)					
	Nom	Nominal Pipe Size-Threads Per Inch				Nominal Pipe Size-Threads Per Inch				
Die Material or Type	1/8"-28	1/4"-3/8"-19	1/2"-3/4"-14	1"-2"-11	1/8"-28	1/4"-3/8"-19	1/2"-3/4"-14	1"-2"-11		
Alloy RH	*66655	*66660	*66665	*66670	_	_	_	_		
High-Speed RH	*66750	*66755	*66760	*66765	*66795	*66800	*66805	*66810		
H.S. For Stainless Steel RH	*66770	*66775	*66780	*66785	_	_	_	*66830		
H.S. For PVC RH	_	_	*70755	*70760	_	_	_	_		
H.S. For PE-Coated RH	_	_	_	_	_	_	_	_		

^{*} Requires British model die head.

Conduit Dies for Universal Die Heads

	(I:	SO)	(BEC)				
	Nominal Conduit	Nominal Conduit Size – Threads Per Inch					
Die Material or Type	16-32mm-1.5	40-63mm-1.5	1/2"-5/8"-18	3/4"-11/4"-16	11/2"-21/2"-14		
Alloy RH	50645	50650	66700	66705	66710		

Pipe Dies for use in 500A Mono Die Heads

			Nom	inal Pipe S	ize-Threads	Per Inch(E	SSPP)		
Die Material or Type	1/8"-27	1/4"-18	3/8"-18	1/2"-14	3/4"-14	1"-11½	11/4"-111/2	11/2"-111/2	2"-11 ¹ / ₂
(NPT)									
High-Speed RH	50700	50705	50710	50715	50720	50725	50730	50735	50740
H.S. For Stainless Steel RH	50745	50750	50755	50760	50765	50770	50775	50780	50785
(NPSM)									
High-Speed RH	_	_	-	50895	50900	50905	50910	50915	50920

Pipe Dies for 1/4"-3/8" Dual Die Heads (No. 502)

	(NPT) Nominal Pipe-Threads Per Inch				
Die Material or Type	¹/₄"-³⁄₀"-18 TPI				
High-Speed RH	47940				

Pipe Dies for Nos. 514 (LH), 515 (RH), 555 (RH), and 1/2"-3/4" Dual Die Heads

		(NPT)		(BSPT)		
	Nomina	l Pipe Size-Threads	Nominal Pipe Size-Threads Per Inch			
Die Material or Type	1/8"-27	1/4"-3/8"-18	1/2"-3/4"-14	1/4"-3/8"-19	1/2"-3/4"-14	
Alloy RH	_	47875	47880	66955	66880	
High-Speed RH	47855	47890	47895	66905	66970	
H.S. For Stainless Steel RH	47900	47905	47910	_	66920	





Pipe Dies, Bolt Dies for Machine Die Heads

Pipe Dies for No. 424 and 415 Die Head

	(NPT)	(NPSM)
	Pipe Size-TPI	Pipe Size-TPI
Die Material or Type	2½"-4"x8 TPI	2½"-4"x8 TPI
H.S. RH	99545	94220



Bolt Dies for Universal Die Heads (Nos. 504A, 711, 811A, 815A, 816, 817 and 911 Die Heads)

	(UNC)		(UNF)		(BSW)
Rod Size – TPI	RH High-Speed	Rod Size – TPI	RH High-Speed	Rod Size – RH TPI	High-Speed
1/4"-20	48215	1/4"-28	48295	1/4"-20	*67880
5/16"-18	48220	-	_	5/16"-18	*67885
3/8"-16	48225	3/8"-24	48305	3/4"-16	*67890
⁷ ⁄16"-14	48230	⁷ /16"-20	48310	7/16"-14	_
1/2"-13	48235	1/2"-20	48315	1/2"-12	*67900
9/16"-12	48240	9/16"-18	48320	9/16"-12	*67905
5⁄8"-11	48245	5⁄8"18	48325	5⁄8"-11	*67910
3/4"-10	48250	3/4"-16	48330	3/4"-10	*67915
7/8"-9	48255	7∕8"-14	48335	7/8"-9	67920
1"-8	48260	1"-14NS	48340	1"-8	*67925
11//8"-7	48265	1"-12	48375	1½"-7	-
11/4"-7	48270	11/8"-12	48345	11/4"-7	*67935
13/8"-6	48275	11/4"-12	48350	13/8"-6	_
11/2"-6	48280	1%"-12	48355	1½"-6	*67945
13/4"-5	48285	1½"-12	48360	1¾"-5	-
2"-41/2	48290	_	_	2"-41/2	67955

Bolt Dies for 500B, 532 and 542 Die Heads

(8 UN)					
Rod Size – TPI	RH High-Speed				
11/6"-8	49215				
11/4"-8	49220				
13/8"-8	49225				
1½"-8	49230				
13/4"-8	49240				
11%"	49245				
2"-8	49250				
	(12 UN)				
2"-8	49345				

Beveling Dies

For beveling pipe prior to welding. A set of beveling dies consists of three guide segments and one cutting segment.

Catalog	Dinti	Pipe Size		Used in	Weight	
No.	Description	in.	in.	Die Head	lb.	kg
52192	37½° Bevel Die Set	1/2-3/4	12-20	Universal	1	0.5
50960	37½° Bevel Die Set	1-2	25-50	Universal	1	0.5
52202	45° Bevel Die Set	1/2-3/4	12-20	Universal	1	0.5
50965	45° Bevel Die Set	1-2	25-50	Universal	1	0.5

Cut Grooving Dies

To cut groove pipe for mechanical type couplings, consult chart for sizes and die head information.

Catalog	Description	Pipe Size		Used in	Weight	
No.	Description	in.	in.	Die Head	lb.	kg
52217	Grooving Die Set	1/2-3/4	12-20	Universal	1	0.5
50985	Grooving Die Set	1-2	25-50	Universal	1	0.5

Note: 21/2 - 4 Beveling Dies are available for the No. 1224 threading Machine. See accessories for No. 1224. Note: Universal Dies fit all Universal Die Heads.

^{*} Requires British model die head.

Bolt Dies for 500B and 531, 532, 541 and 542 Die Heads (Continued)

	(UNC)		(UI	NF)
Rod Size – TPI	RH High-Speed	LH High-Speed	Rod Size – TPI	RH High-Speed
1/4"-20	48605	-	1/4"-28	48690
5/16"-18	48610	48915	5/16"-24	48695
3/8"-16	48615	48920	3/8"-24	48700
⁷ ⁄16"-14	48620	48925	7/16"-20	48705
1/2"-13	48625	48930	1/2"-20	48710
9/16"-12	48630	48935	9/16"-18	48715
5⁄8"-11	48635	48940	5⁄8"-18	48720
³ ⁄ ₄ "-10	48640	48945	³ ⁄4"-16	48725
7/8"-9	48645	48950	7/8"-14	48730
1"-8	48650	48955	1"-12	48735
11/8"-7	48655	48960	1"-14NS	49305
11/4"-7	48660	48965	11/8"-12	48740
1%"-6	48665	48970	11/4"-12	48745
1½"-6	48670	48975	13/8"-12	-
1¾"-5	48675	_	11/2"-12	48755
2"-41/2	48680	48985	_	_



For use with 531, 541 and 500B 1/4"-1" Die Heads

For use with 532, 542 and 500B 11/8"-2" Die Heads

(BSW))					
Rod Size – TPI	RH High-Speed				
1/4"-20	_				
5/16"-18	_				
3/8"-16	67615				
7∕16"-14	67620				
1/2"-12	67625				
9/16"-12	_				
5/8"-11	67635				
3/4"-10	67640				
7/8"-9	67645				
1"-8	67650				
11/8"-7	67655				
11/4"-7	67660				
1%"-6	67665				
1½"-6	_				
1%"-5	67675				
13/4"-5	_				
11/8"-41/2	67685				
2"-41/2	_				

For use with 531, 541 and 500B ¹/₄"-1" Die Heads

	For use with
1	532, 542 and 500B
\vee	11/8"-2" Die Heads

Dies for Rebar, for use in 500B, 531, 532, 541 and 542 Die Heads

	No. NC)	Cat No. (UNF)			
RH High-Speed	Rebar Size- TPI	RH High-Speed	Rebar Size– TPI		
34077	3/8"-16	85850	1"-8		
34082	1/2"-13	79120	1½"-7		
34087	5⁄8"-11	85855	1%"-6		
34092	3/4"-10	_	_		

Ac	me	(S	I.) Series A Metr	ic	Series E	3 Metric	(ISO) Internation	al Standards. Org.
Rod Size – TPI	RH High-Speed	Rod Size Thread Pitch in. mm	RH High-Speed	LH High-Speed	Rod Size Thread Pitch in. mm	RH High-Speed	Rod Size Thread Pitch in. mm	RH High-Speed
_	_	M6-1.0	49795	49845	_	_	M6-1.0	50040
_	_	M7-1.0	_	49850	_	_	M7-1.0	_
_	_	M8-1.25	49805	_	_	_	M8-1.25	50050
_	_	M9-1.25	_	_	_	_	M9-1.25	_
_	_	M10-1.5	49815	_	M10-1.0	50560	M10-1.5	50060
-	-	M11-1.5	49820	49870	_	_	M11-1.5	_
3/4"-6	49610	M12-1.75	49825	49875	M12-1.5	85865	M12-1.75	50070
_	_	M14-2.0	49830	_	M14-1.5	_	M14-2.0	50075
_	_	M16-2.0	49835	_	M16-1.5	50575	M16-2.0	50080
_	_	M18-2.5	49840	49890	_	_	M18-2.5	50085
_	_	M20-2.5	50480	49895	M20-1.5	50585	M20-2.5	50090
_	_	M22-2.5	50485	49900	M22-1.5	50590	M22-2.5	50095
1"-5	49585	M24-3.0	50490	49905	M24-2.0	85870	M24-3.0	50100
_	_	M25-3.0	50495	_	_	_	M27-3.0	50105
_	_	M26-3.0	_	-	_	_	M30-3.5	50110
_	_	M27-3.0	50500	_	M27-2.0	_	M33-3.5	50115
_	_	M30-3.5	50505	49915	M30-2.0	_	M36-4.0	50120
11/4"-5	49600	M33-3.5	50510	_	_	_	M39-4.0	50125
_	_	M36-4.0	50515	49925	_	_	M42-4.5	50130
1%"-4	_	M39-4.0	50520	49930	_	_	M45-4.5	-
_	_	M42-4.5	50525	_	_	_	M48-5.0	50140
_	_	M45-4.5	50530	_	_	_	M52-5.0	-
_	_	M48-5.0	50540	_	_	_	_	-
_	_	M50-5.0	50545	_	_	_	_	-
_	_	M52-5.0	50550	_	_	_	_	_

For use with 531, 541 and 500B 1/4"-1" Die Heads

For use with 532, 542 and 500B 11/8"-2" Die Heads

For metric high-speed rebar dies, Series B, ISO, see price list.



Nipple Chucks / Adapters



819 Nipple Chuck Kit

- Holds short or close nipples for threading.
- For use with 300 Power Drive, 300 Compact, 535 and 1822 (with adapter kit) and 1224 Threading Machines.
- Standard Nipple Chuck includes insert and 5 adapters: ½", ¾", 1", 1¼" and 1½". (Nipple Chuck body serves as 2" Adapter.)

	Catalog No. Model No.		Description	Weight				
			Description	lb.	kg			
	51005	819	NPT Nipple Chuck 1/2"-2"	10	4.5			
	68160	819	BSPT Nipple Chuck 1/2"-2"	10	4.5			
	51020	D-380-X	Nipple Chuck Wrench	1/4	0.1			
	35867	839	Adapter Kit for 1822 Machine	16½	7.5			
	62457	1219	NPT Nipple Chuck for 1215	53/4	2.6			

Pipe Adapters

For use with No. 819 Nipple Chuck to allow close nipple threading of all sizes of pipe smaller than 2 inches.

	Mode	el No.	RSPT S	tandard	Weight		
Size (in.)	Catalog No.	Model No.	Catalog No.	Model No.	lb.	kg	
1/8	51040	E-729	-	-	1/2	0.23	
1/4	51045	E-730	68195	E-730-B	1/2	0.23	
3/8	51050	E-731	68200	E-731-B	1/2	0.23	
1/2	51055	E-732	68165	E-732-B	1/2	0.23	
3/4	51060	E-733	68170	E-733-B	1/2	0.23	
1	51065	E-734	68175	E-734-B	1/2	0.23	
11/4	51070	E-735	68180	E-735-B	1/2	0.23	
11/2	51075	E-736	68185	E-736-B	1/2	0.23	







Roll Grooving

- Designed to improve speed and efficiency for fire sprinkler and other industrial installations.
- Wide selection of mechanical and hydraulic units for applications up to 24" in diameter.

Roll Grooving Type	No. of Models	Pipe Capacity (in.)	Page
915 Manual Roll Groover	1	11/4 — 12	5.3
975 Combo Roll Groover	1	$1\frac{1}{4} - 6$	5.4
916 Power-Driven Roll Groover	4	2 – 6	5.5
918 Hydraulic Roll Groover	5	1 – 12	5.6
918-I Electric Roll Groover	2	1 – 12	5.7
920 Electric Roll Groover	1	2 - 24	5.8

Roll Groover Selection

	975	916	915	918	918-I	920
	Page 5.4	Page 5.5	Page 5.3	Page 5.6	Page 5.7	Page 5.8
Capacity	11/4"-6"	1"-6"	11/4"-12"	1"-12"	1"-12"	2"-24"
Weight	26 lbs.	33 lbs.	23 lbs.	81 lbs./185 lbs.	81 lbs./185 lbs.	160 lbs.
"In-Place" Groover			•			
Hydraulic Actuated				•	•	•
Will do SS, PVC, Al	•	•	•	•	•	•
Roll Sets for Copper		•	•	•	•	•
	RIDGID 300 / Page 4.10	RIDGID 300 / Page 4.10	Hand	RIDGID 300 / Page 4.10	Included	RIDGID 300 / Page 4.10
Drive Units	or hand	RIDGID 535* / Page 4.18		RIDGID 535* / Page 4.18		
		RIDGID 1822-1* / Page 4.23		RIDGID 1822-1* / Page 4.23		
Usage	Field	Field	Field	Fab Shop / Field	Fab Shop/Field	Fab Shop/Field

^{*} Adapter pieces required. Note: Please check schedules in charts.

Pipe Size & Schedule Capacities

Model	Material							Pip	e Size (inches)/	Scho	edule									
		1	11/4	11/2	2	2 ½	3	31/2	4	41/2	ļ	5	6	8		10		12	14	16	18-24
	Steel						Sch. 5,	10, 40													
975	Stainless		S	ch. 5, 10,	40			Sc	h. 5, 10												
page 5.4	Aluminum						Sch. 5,	10, 40													
	PVC		40		Sch. 40,	80			Sch	. 40											
	Copper																				
	Steel				5, 10, 40					Sch. 5, 10	0										
916	Stainless	5, 10	S	ch. 5, 10,				Sc	h. 5, 10												
page 5.5	Aluminum			Sch.	5, 10, 40					Sch. 5, 10	0										
paye J.J	PVC	Sch	. 40		Sch. 40,				Sch	. 40											
	Copper				K, L	K, L, M			K, L, M	& DWV											
	Steel						Sch. 5,	, 10, 40							Scl	h. 5, 1	0				
915	915 Stainless		S	ch. 5, 10,	40					Sch. 5	5, 10										
page 5.3	Aluminum							10, 40							Scl	h. 5, 1	0				
paye J.J	PVC		40	40, 80	40	Sch. 4	0, 80				n. 40				_						
	Copper				K, L	K, L, M			K, I	., M & D'	WV										
	Steel						Sch. 5,	, 10, 40								Sch	. 5, 1	10			
918/918-I	Stainless	5, 10	S	ch. 5, 10,	40					Sch. 5	5, 10										
page 5.6 & 5.7	Aluminum						Sch. 5,	10, 40								Sch		10			
page 5.0 & 5.7	PVC	40	40	40, 80	40			Sc	h. 40, 80						S	ch. 40)				
	Copper				K, M	K, L, M			K, L, M												
	Steel									n. 5, 10, 4										0 std.*	5, 10
920	Stainless									n. 5, 10, 4										0 std.*	5, 10
page 5.8	Aluminum								Sch	n. 5, 10, 4	40								5, ´	0 std.*	5, 10
page 6.6	PVC				40		Sch. 4	40, 80							S	ch. 40)				
	Copper				K, L	K, L, M			K, I	., M & D	WV										

^{* 8&}quot; grooving is not recommended for Sch. 40 if pipe hardness is above 150 BHN

Note: Use of roll sets on both carbon and stainless steel pipe can lead to contamination of the stainless material. This contamination could cause corrosion and premature pipe failure.

To prevent ferrous contamination, use roll sets dedicated for stainless steel grooving.

Note: Consult groover manual for exact capacity specifications.

Roll Groover/Threader Compatibility

		_		Threade	r Model			
Roll Groover Model	1210	1215	300 Complete	300 Compact	1822	535 Manual	535 Auto*	1224
916	-	-	45007	67662	48307	60382	-	-
975	-	_	91207	_	_	_	-	_
918-1	_	_	48297	_	_	_	_	_
918-2	-	-	-	-	48377	_	-	-
918-4	_	_	_	_	_	_	_	48382
918-5	-	-	-	-	-	48387	-	-
920	-	-	95782	-	-	_	-	-

^{*}Not recommended for roll grooving applications.



^{*} Std. = Standard wall thickness (.375).



Model 915



Some items sold separately.



915 Manual Roll Groover

The new RIDGID 915 Roll Groover is a manual roll groover for in-place field applications. The 915 requires only $3\frac{1}{2}$ " of clearance to travel around a pipe and a minimum of $2\frac{3}{4}$ " of exposed pipe for grooving. With the appropriate roll sets, the 915 can groove from $1\frac{1}{4}$ " to 12" pipe, the widest range in its class! The 915's cast-in handle allows for easy transport or chaining the groover down to prevent theft. The 915 is a must for service work crews.

Features

- Lightweight design only 23 pounds.
- Easy roll set change out up to 12" pipe capacity in one unit for service versatility.
- Cast-in carrying handle easy to transport or lock up to prevent theft.
- Included ratchet 90 degree bend-in handle makes grooving easier.
- Available customized tool box holds 915 groover and all available roll sets.
- Easy to use depth setting gauge helps make accurate grooves.

Specifications

Capacity:

- 11/4" 12" Sch. 10 Steel and Stainless Steel Pipe.
- 11/4"- 6" Sch. 40 Steel Pipe, 11/4"-2" Sch. 40 Stainless Steel Pipe.
- 2"-8" K, L, M, DWV Copper.
- 11/4"- 6" Sch. 40 PVC.
- 1½", 2½"- 3" Sch. 80 PVC.
- Operation: Feed screw with 1/2" ratchet wrench (included).
- Weight: 23 lbs. (including ratchet).

Standard Equipment

- 915 Roll Groover with 2"- 6" Sch. 10 (2"- 31/2" Sch. 40).
- Roll Set Ratchet Wrench.

Accessories

Catalog	Model	Description	Wei	ght
No.	No.	Description	lb.	kg
88232	915	915 Roll Groover with 2" - 6" Sch. 10 (2" - 31/2" Sch. 40) Roll Set	23	10.4
92437	-	Drive and Groove Roll Set for 11/4" - 11/2" Sch. 10 or 40 Steel, Stainless Steel, PVC	2	0.9
92447	_	Drive and Groove Roll Set for 4" - 6" Sch. 40 Steel, Stainless Steel, PVC	41/2	1.9
92442	_	Drive and Groove Roll Set for 8" - 12" Sch. 10 Steel, Stainless Steel, PVC	41/2	1.9
92452	_	Drive and Groove Roll Set for 2" - 8" Copper Tube Type K, L, M, and DWV	2	0.9
93497	_	915 Tool Box	21½	9.7
76827	_	Metric Diameter Tape	1/2	0.1
76822	_	English Diameter Tape	1/2	0.1

Note: A Roll Groove Set consists of a Groove Roll and a Drive Roll.

Copper Roll Groove Set includes Black Reaction Arm and one Copper Stabilizer Pad.







Model 975





Model 975 Combo Roll Groover

The Model 975 Combo Roll Groover is two tools in one. Like other RIDGID roll groovers, the 975 mounts on the RIDGID® 300 Power Drive for machine-powered roll grooving jobs, but it is also designed to manually roll groove in-place pipe.

Auto Tracking & Depth Setting Gauge Means Easier Use

The 975 Combo Groover includes new, patented auto tracking technology for significantly easier grooving. Whether you're doing machine-powered or manual grooving, the AutoTrack gauge keeps the pipe automatically engaged to the groover throughout the grooving process. The 975 also includes a permanently-fixed depth setting gauge for quicker, repeatable set-up.

Less Hand-Force Required

When manually roll grooving, the 975's 55% higher gear reduction means less hand-force is required versus competitive manual roll groovers. This is especially helpful for over-head roll grooving.

Durability And Portability

A tough, ductile iron construction means the 975 can absorb job site abuse and provide accurate grooves time after time. A cast-in handle makes the 975 easily portable to and from the job site.

Specifications

- Pipe Capacity:
- 11/4" 6" Schedule 5, 10 and Schedule 40 Steel, Aluminum and PVC Pipe.
- $-1\frac{1}{4}$ " 6" Schedule 5, 10 and $1\frac{1}{4}$ " 2" Schedule 40 Stainless Steel Pipe.
- Depth Adjustment: Adjusting screw and integral, index depth gauge.
- \bullet Actuation: Feed screw with ½" ratchet wrench (included) or any $^{15}\!\!/\!\!\,\mathrm{fs}^{\text{"}}$ hex wrench.
- Power Drive Mounting: RIDGID 300 Power Drive 38/57 RPM (Reverse Direction Only).

Ordering Information

Catalog	Model	Description	We	ight
No.	No.	Description	lb.	kg
25638	975	975 Combo Roll Groover	26.1	11.9
41855	300	300 Power Drive, 115V 50/60Hz 38RPM	94	43
75075	300	300 Power Drive, 115V 50/60Hz 57RPM	94	43
42360	1260	1206 Stand for 300 Power Drive	31	14.1
72037	460	460 Portable TRISTAND Chain Vise	47	21
16703	425	425 Portable TRISTAND Chain Vise	32	14.5
56662	VJ-99	VJ-99 V Head High Pipe Stand	23	10.4
76822	_	Inch Diameter Tape	0.5	0.1
76827	_	Metric Diameter Tape	0.5	0.1
30708	_	Extension, 1/2" Drive, Locking	0.05	0.1
30703	_	Ratchet, 1/2" Drive With 90° Bend	1.7	0.8





Model 916

Power-Driven 916 Roll Groover

The RIDGID Model 916 Roll Groover is the most durable and efficient lightweight portable unit available. Built with a solid, durable cast-iron housing, it withstands heavy usage, yet is light enough for easy transportation. The 916 features a patented single stroke feed mechanism that allows for accurate operation quickly and effortlessly.

Features

- Specifically designed for field service roll grooving applications.
- Quick and easy mount to RIDGID Nos. 300 Power Drive, 535 or 1822 Threading Machines.
 See pages 4.16, 4.20 and 4.25.
- Cam-type feed actuation translates into minimum operator effort to form roll grooves.
- Durable cast-iron housing withstands extensive field use.
- Depth adjustment screw separate from feed mechanism allows for consistent groove depth.
- Lightweight, only 33 lbs., allows for easy transport and storage.
- · Integral feed handle is part of overall unit. No extra tools required.
- Optional Roll Sets for: Copper 2"- 6" (Types K, L, M, DWV), 1" Sch. 10, 40 steel pipe.
- Optional 11/4" 11/2" and 2" 6" AWWA Roll Sets.
- Easy serviceability drive and groove rolls are easy to change.

Specifications

- Capacity:
 - 11/4" 6" Sch. 10 steel, stainless steel, PVC.
 - $-1\frac{1}{4}$ " 3" Sch. 40 steel, stainless steel, PVC.
 - 2"- 6" Copper (type K, L, M, DWV) optional.
- Weight: 33 lbs. (15 kg).

Standard Equipment

• One 1¼"- 6" Roll Groove Set for steel. (1¼"- 6" schedule 10, 1¼"- 3" schedule 40).

Ordering Information

Catalog	Model	Description.	Wei	ght
No.	No.	Description	lb.	kg
45007	916	Roll Groover for 300 Power Drive	33	15
46852	916	Roll Groover for Copper Tubing for 300 Power Drive	34	15.5
60382	916	Roll Groover for 535	33	15
48307	916	Roll Groover for 1822	33	15
Accessories				
45347	_	Roll Set for 1" Sch. 10, 40	6	2.6
45352	_	Roll Set for Copper (optional)	6	2.6
69667	_	Roll Set for 11/4" - 11/2" AWWA (optional)	6	2.6
69692	_	Roll Set for 2"- 6" AWWA (optional)	6	2.6
67662	_	Adapter Bracket for 300 Compact	30	13.6
76822	_	English Diameter Tape	1/2	0.1
76827	_	Metric Diameter Tape	1/2	0.1

Note: A Roll Set consists of a Groove Roll and a Drive Roll.



Model 918



918 Hydraulic Roll Groover

The RIDGID Model 918 Hydraulic Roll Groover features a powerful 15-ton hydraulic ram in a compact, easy to transport unit. With one man set-up and operation, the 918 is the ideal groover for job site requirements. The 918 mounts quickly to RIDGID 300 power drive, 535, 1822, or 1224 Threading Machines. (See pages 4.16, 4.20, 4.25 and 4.28.) Designed to provide maximum efficiency, the 918 is capable of grooving up to 12" Schedule 10 and 8" Schedule 40 standard wall pipes. Roll Set changeout is accomplished in seconds.

Specifications

- Capacity:
 - 1"- 12" Schedule 10 steel, stainless steel, PVC.
 - 1"- 8" Schedule 40 steel, PVC.
 - 1"- 2" Schedule 40 stainless steel.
 - − 2"- 6" Copper (Types K, L, M, DWV).
 - 21/2" 6" Schedule 80 PVC.
- Weight: 81 lbs. (37 kg).

Standard Equipment

- One 2"- 6" Schedule 10/40 Roll Set.
- One 8"- 12" Schedule 10 (8" Schedule 40) Roll Set.
- Tools for Roll Set Change.
- One Carrying case for Roll Sets.

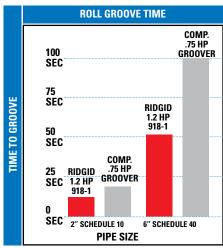
Ordering Information

Catalog	Model	Description	Wei	ght
No.	No.	Description	lb.	kg
48297	918-1	918 Roll Groover w/300 Power Drive Mount Kit	104	47.2
48377	918-2	918 Roll Groover w/1822 Power Drive Mount Kit	134	60.9
48382	918-4	918 Roll Groover w/1224 Carriage Mount Kit	131	59.5
48387	918-5	918 Roll Groover w/535 Carriage Mount Kit	117	53.1
47222	918 only	918 Roll Groover Only	95	43.1
Mounting Kit	Only			
48292	911	300 Power Drive Mount Kit Only	9	4
48392	912	1822 Carriage Mount Kit Only	39	17.7
48397	914	1224 Carriage Mount Kit Only	36	16.4
48402	915	535 Carriage Mount Kit Only	22	10
Accessories				
48405	-	Roll Set for 8"-12" Sch. 10 (8" Sch. 40) with carry case.	18	8.2
48407	_	Roll Set for 11/4" to 11/2" Sch. 10/40. Tool box includes drive shaft, bolt and tools.	10	4.5
48412	_	Roll Set for 1" Sch. 10/40, and 11/4" to 11/2" Sch. 10/40. Tool box includes drive shaft, bolt and tools.	20	9.0
48417	_	Roll Set for copper (2"- 6").	10	4.5
59992	_	2½"- 12" Stabilizer for grooving nipples. For 918 w/300 Mounting Kit or 918-I	11	5.0
49662	_	Tool Box	5	2.0
76822	_	English Diameter Tape	1/2	0.1
76827	_	Metric Diameter Tape	1/2	0.1

Note: A Roll Set consists of a Groove Roll and a Drive Roll.

"Do not use to groove 8" schedule 40 steel pipe harder than 150 Brinnel"





918-I Roll Groover

The RIDGID Model 918-I Roll Grooving Machine is capable of grooving 1" to 8" schedule 40 and 1" to 12" schedule 10 pipe faster than any roll grooving machine in its class. Powered by a 1.2 HP universal motor and heavy duty transmission, the 918-I produces high quality grooves consistently and effortlessly.

The 918-I comes standard with a rugged wheel stand built for mobility in the shop without compromising stability. The stand's tray is tough enough to support 200 lbs.

The 918-I uses a custom-designed, two-stage hydraulic pump that minimizes pipe flare, operator fatique and hydraulic fluid leaks.

Features

- Fastest roll groove time in its class. (See Roll Groove Time chart below).
- Offers maximum versatility in roll grooving capacities (see specifications below).
- Custom engineered 2-stage, 15-ton hydraulic pump and ram eases grooving and reduces flare and operator's fatigue.
- Produces consistent, high quality roll grooves.
- 115V approved by CSA to CSA and UL standards.

Specifications

- Capacity
 - 1"- 12" Schedule 10 steel.
 - 1"- 8" Schedule 40 steel.
 - 2"- 6" copper (Types K, L, M, DWV).
- 21/2" 6" Schedule 80 PVC.
- Weight: 185 lbs./84.1 kg.
- Motor: Universal 1/2 HP, 115V, 60 Hz.
- Motor Control: On/Off Heavy-Duty with Foot Switch.
- RPM: 45 (no load).

Standard Equipment

- One 2"- 6" Schedule 10/40 Roll Set.
- One 8"-12" Schedule 10 (8" Schedule 40) Roll Set.
- One Tool for Roll Set Changeout.
- One Carry Case for Roll Sets.
- One Heavy-Duty Wheel Stand with Tray.
- One Foot Switch.
- One 1"- 12" Stabilizer for Grooving Nipples.

Ordering Information

Catalog	Model	Description		ight
No.	No.	Description	lb.	kg
64977	918-I	Roll Grooving Machine Complete. 115v	185	84.1
65902	918-I	Roll Grooving Machine Complete. 230v (Export Only)	185	84.1
Accessories				
48405	_	Roll Set for 8"-12" Sch 10 (8" Sch 40) With Carry Case	18	8.2
48407	_	Roll Set for 11/4" - 11/2" Sch 10/40 With Carry Case	10	4.5
48412	_	Roll Set for 1" Sch 10/40 and 1¼"- 1½" Sch 10/40 With Carry Case	20	9.0
48417	_	Roll Set for 2"-6" Copper	10	4.5
59992	_	2½"-12" Stabilizer for Grooving Nipples	11	5.0
76822	_	English Diameter Tape	1/2	0.1
76827	_	Metric Diameter Tape	1/2	0.1

Note: A Roll Set consists of a Groove Roll and a Drive Roll.

Note: "Do not use to groove 8" schedule 40 steel pipe harder than 150 Brinnel"





920 Roll Groover

The RIDGID 920 Roll Groover takes grooving to a whole new level. With a capacity range of 2"-24" diameter pipe, the 920 has the largest capacity of any RIDGID roll groover. The 920 mounts to the RIDGID 300 Power Drive for use in the field or shop. Also available is the RJ624 Large Diameter Pipe Support for grooving pipe up to 24" in diameter, a perfect complement to the 920 Roll Groover (see page 2.5).

920 Benefits

- Largest grooving capacity in its class.
- Transportation Mode Detachable Wheels enable one man to easily move the 920 around a jobsite. Also available is a Model No. 32 Transporter (see page 4.17).
- Patented Depth Setting Gauge Easy and accurate groove depth setting does not require
 adjusting the protective guarding.
- Built-in Pressure Gauge Helps operator monitor hydraulic pressure to control flare and optimize groove time.
- Front Roll Set Change-Out User can switch groove roll sets quickly and easily.
- Easy Adjust Support Legs Helpful when leveling the groover on uneven ground.

Standard Equipment

- 920 Roll Groover with support legs.
- 2"- 6" Sch. 10/40 Groove Roll Set with box.
- 8"-12" Sch. 10/40 Groove Roll Set.
- 14"-16" Standard Wall (0.375) Groove Roll Set with box.
- 920 Training Video and User Manual.
- Transport wheels.

Ordering Information

Catalog	Model	Description	Wei	ght
No.	No.	Description	lb.	kg
95782	920	920 Roll Groover with 2"- 6" Sch. 40, 8"-12" Sch. 40 and 14"-16" Std. Wall Roll Sets	199	90.3
96987	_	Drive and Groove Roll Set for 18"- 20" Sch. 10 Steel or Stainless Steel	21	9.5
96992	_	Drive and Groove Roll Set for 22"- 24" Sch. 10 Steel or Stainless Steel	22	10
96997	_	Drive and Groove Roll Set for 4"- 6" Sch. 40 Steel or Stainless Steel	20	9
96982	_	Drive and Groove Roll Set for 2"- 8" Copper Tube Type K, L, M, and DMV	20	9
96372	RJ624	RJ624 Large Diameter Pipe Stand	167	75.7
76827	_	Metric Diameter Tape	1/2	0.1
76822	_	English Diameter Tape	1/2	0.1
42575	32	Transporter for Power Drives and TRISTAND Vises	141/4	6.5

^{*} Requires additional roll sets, see table above.





Cutting & Drilling

- Wide selection from a single source.
- Durable designs.

Cutting odel HC300 3 Up to 3" 6 odel HC450 3 Up to 4¾" 6 ole Saws 51 Up to 6" 6 ole Saw Arbors 5 Up to ¾" 6 procating Saw Blades 22 3-12" 6 Drilling Drill Machines 4 - 6					
odel HC300 3 Up to 3" 6 odel HC450 3 Up to 4¾" 6 ole Saws 51 Up to 6" 6 ole Saw Arbors 5 Up to ½" 6 procating Saw Blades 22 3-12" 6 Drilling Drill Machines 4 - 6		Туре	No. of Models	Nom. Size (in.)	Page
odel HC450 3 Up to 4¾" 6 ole Saws 51 Up to 6" 6 ole Saw Arbors 5 Up to ½" 6 procating Saw Blades 22 3-12" 6 Drilling Drill Machines 4 - 6		Hole Cutting			
ble Saws 51 Up to 6" 6 ble Saw Arbors 5 Up to 5%" 6 procating Saw Blades 22 3-12" 6 Drilling Drill Machines 4 - 6		Model HC300	3	Up to 3"	6.2
procating Saw Blades 22 3-12" 6 Drilling Drill Machines 4 - 6		Model HC450	3	Up to 43/4"	6.3
procating Saw Blades 22 3-12" 6 Drilling Drill Machines 4 – 6		Hole Saws	51	Up to 6"	6.4
Drilling Drill Machines 4 – 6		Hole Saw Arbors	5	Up to 5/8"	6.4
Drill Machines 4 – 6		Reciprocating Saw	Blades 22	3-12"	6.5
		Core Drilling			
Drill Bits 26 ½-14" 6		Core Drill Machines	4	_	6.6
		Core Drill Bits	26	1/2-14"	6.7
	1304	1			
	COL				
	A A	4			

Hole Cutting Tools



Specifications

- Motor: Universal, 115V or 230V 25-60Hz 11 amp, 1.2 HP.
- RPM: 360 (no load).
- Hole Cutting Capacity: up to 3".
- Chuck Size: 1/16"- 1/2".
- Pipe Diameter Mounting Range: 11/2" 8".
- Weight: 31 lbs...
- Height: 12.8".
- Length: 11.9".
- Width: 13.2".
- 115V approved by CSA to CSA and UL standards.



Model HC300

The RIDGID Model HC300 Hole Cutting Tool is designed to cut holes up to 3" diameter into steel pipe. The multiple hole size allows the use of fittings such as Mechanical T®, Hookers®, Vic-O-Let™, Weld-O-Let™ and others for branching unpressurized pipelines.

The HC300 features a $\frac{1}{2}$ " capacity chuck to accommodate all sizes of holes up to 3" diameter and standard hole saw arbors up to $\frac{1}{16}$ " Hex ($\frac{1}{2}$ " chuck size). An integral motor and gear reduction optimizes the performance and saw life in the capacity range. A single-feed handle and ON/OFF switch allows for easy operation. The compact two-piece design allows the HC300 to be used in tight quarters and difficult-to-reach locations.

The Model HC300 offers great features that translate into unparalleled field and shop performance.

- Quick Connecting Two-piece Design. This unique design allows for easy
 mounting, transport and set up. In addition, weighing only 31 lbs., the unit
 can be broken down into two lighter weight units for maximum transport
 and operation comfort. This is particularly useful when working off a ladder
 or overhead.
- Single-hand Chain Latching. The Model HC300 features a patented springloaded chain that saves time and significantly aids set up and operation.
- Ergonomic Design. With all controls at the operator's fingertips, the tool has been designed for maximum productivity.
- High Speed. With a powerful 1.2HP, 11 amp motor, the Model HC300 delivers 360 RPM to quickly bore holes while optimizing hole saw life.
- Horizontal and vertical flats to ensure perpendicular cutting.

Note: Standard hole saw listing on page 6.4

Standard Equipment

- One Hole Cutting Tool (Base and Motor Assembly).
- One Chuck Key.

Accessories

- · Hole Saws.
- R2S Solid Shank Arbor.
- · Carrying Case.

Ordering Information

Catalog	Model	Description	Wei	ght
No.	No.	Description	lb.	kg
76777	HC300	3" Hole Cutting Tool 115V, 50/60 Hz	31	14
76787	HC300	3" Hole Cutting Tool 230V, 50/60 Hz	31	14
76792	HC300-J	3" Hole Cutting Tool 100V, 50/60 Hz	31	14
16671	R2S	Solid Shank Arbor	3/4	0.3
84427	-	HC-450/HC-300 Carrying Case	19	8.6
77017	-	Chuck Key	1/4	0.1

Note: The HC300 is not a hot tapping tool.

Note: Use the R2S Arbor when drilling 11/4" and larger holes.



Model HC450

Specifications

- Motor: Universal, 115V or 220V 25-60Hz 13 amp, 1.2 HP.
- RPM: 110 (no load).
- Hole Cutting Capacity: up to 43/4".
- Chuck Size: 5/8".
- Pipe Diameter Mounting Range: 11/4" to 8".
- Weight: 42 lbs.
- Height: 111/2".
- Length: 17".
- Width: 17".
- 115V approved by CSA to CSA and UL standards.



Model HC450

The RIDGID Model HC450 is engineered for continuous 1/4" to 1/4" hole cutting in and up to 1/40" diameter steel unpressurized pipe. The built-in level ensures line up for multiple holes when branching lines using Mechanical T, Vic-O-Let fittings or welded saddles. Dual-side feed handles and switches provide easier operation from any angle. In addition, the HC450's heavy-duty chuck accommodates 1/40" arbors. The HC450 is ideal for mechanical, industrial maintenance and fire protection contractors since it cuts holes into a wide variety of pipe materials. No off-the-shelf drill-based hole cutter compares in performance or durability to the rugged purposed-built Model 450:

- 13 amp 1.2 HP worm-gear driven motor delivers unmatched hole cutting power for schedule 10, 40 and 80 pipe.
- Engineered for 1/4" to 43/4" continuous dry or oiled hole cutting.
- Quickly mounts onto 11/4" to 8" diameter pipe.
- RPM maximizes holesaw life and does not spray lubricant or chips.
- Only 11½" high for low clearance jobs.
- Dual-side controls provide easy operation.
- GFCI and a built-in breaker for operator protection.
- Chuck accommodates 1/8" to 5/8" arbors.
- · Two carrying handles ease mounting and alignment.
- Built-in level for multiple hole alignment.

Standard Equipment

- · One Hole Cutting Tool.
- One 5/8" Arbor only for Hole Saws.
- · One Chuck Key.

Ordering Information

Catalog Model		Description	We	ight
No.	No.	Description		kg
57592	HC450	4¾" Hole Cutting Tool 110V, 50/60 Hz	42.0	19.0
57597	HC450	4¾" Hole Cutting Tool 220V, 50/60 Hz	42.0	19.0
57602	HC450-J	4¾" Hole Cutting Tool – Japan 100V, 50/60 Hz		19.0

Note: The HC450 is not a hot tapping tool.

Accessories

Catalog	Model	Description		Weight		
No.	No.			kg		
84427	-	HC450 Carry Case	19.0	8.6		
59502	R4	%" Arbor only for Hole Saws	1/4	0.1		
59132	_	Chuck Key	1/4	0.1		







Variable Pitch Hole Saws

Outperform and outlast traditional standard pitch models. Bi-metal construction with teeth made from specially hardened type M3 high speed steel. The varying teeth height and gullet sizes result in much faster cutting and longer life. For wood; mild, tool and stainless steels; cast iron; brass and aluminum. 51 sizes from %6" (14mm) to 6" (152mm).

- Depth of cut: 11/8" (28 mm).
- Use RIDGID Thread Cutting Oil on all metal except cast iron.

Hole Saw Arbors

Hole saw arbors with high-speed pilot drills are built for use with portable drills and drill presses. The saws are quickly replaced without tools and without removing the arbor from the chuck.

Catalog	Model		Size & liameter		ninal izes (in.)		minal izes (mm)
No.	No.	in.	mm	Tap Drill Size	Body Drill Size	Tap Drill Size	Body Drill Size
52755	M14	9/16	14	-	-	-	-
52760	M16	5⁄8	16	_	_	_	-
52765	M17	1½16	17	-	-	_	-
52770	M19	3/4	19	_	3/8	_	10
52775	M22	1 ³ ⁄16	21	_	-	_	-
52780	M24	7/8	22	3/4	1/2	20	12
52785	M25	15⁄16	24	_	-	_	-
52790	M27	1	25	-	-	-	-
52795	M28	1½16	27	_	-	_	-
52800	M29	11/8	29	1	3/4	25	20
52805	M30	13/16	30	_	-	_	-
52810	M32	11/4	32	_	-	-	-
52815	M33	15/16	33	_	-	_	-
52820	M35	13/8	35	_	1	_	25
52825	M37	17/16	37	_	-	_	-
52830	M38	11/2	38	11/4	-	32	-
52835	M40	19/16	40	-	-	-	-
52840	M41	15⁄8	41	-	-	-	-
52845	M43	1 ¹¹ /16	43	_	_	_	-
52850	M44	13/4	44	1½	11/4	40	32
52855	M46	1 ¹³ /16	46	-	_ _	-	-
52860	M48	17/8	48	_		_	-
52865	M51	2	51	_	1½	_	40
52870	M52	21/16	52	-	_	_	-
52875	M54	21/8	54	-	_	_	-
52880	M57	21/4	56	2	_	50	-
52885	M59	25/16	59	-	_	_	-
52890	M60	23/8	50	-	_	_	-
52895	M64	21/2	64	-	2	_	50
52900	M65	29/16	65	-	_	_	-
52905	M67	25⁄8	67	-	_	_	-
52910	M70	23/4	70	-	_	_	-
52915	M73	27/8	73	-	-	-	-
52920	M76	3	76	-	21/2	_	64
52925	M79	31//8	79	-	-	-	-
52930	M83	31/4	83	3	-	75	-
52935	M86	3¾	86	-	_	-	-
52940	M89	31/2	89	-	-	-	-
52945	M92	35⁄8	92	-	3	-	75
52950	M95	33/4	95	31/2	-	90	-
52955	M98	31/8	98	-	-	-	-
52960	M102	4	102	_	-	_	-
52965	M105	41/8	105	_	31/2	_	90
52970	M108	41/4	108	_	_	_	_
52975	M110	43/8	110	_	_	_	-
52980	M114	41/2	114	_	4	_	-
52985	M121	43/4	121	_	_	_	_
52990	M127	5	127	_	_	_	_
52995	M140	51/2	140	_	_	_	_
53000	M152	6	152				
			- 11 4 lba /	0.001			

Note: All weights are under 11/2 lbs. (0.68 kg).

Kits

Catalog	Model	Danaminsian	We	ight	Std. Pack
No.	No.	Description	lb.	kg	Stu. Pack
81490	1248	Plumber Kit	31/2	1.6	1
81495	1249	Electrician Kit	31/2	1.6	1
81500	1250	Combination Kit	61//8	2.7	1

Catalog No.	Model No.	For Chuck Size	Fits Saw Nos.	Shank Size
53065	R0	1/4", 3/8" (6, 10 mm)	M14 – M19	1/4" (6 mm) Round
53070	R1	½" (12 mm)	M14 – M19	⁷ ∕16" (11 mm) Hex
53075	R2	½" (12 mm)	M20 - M152	⁷ ∕16" (11 mm) Hex
53080	R3	5⁄8" (15 mm)	M20 - M152	5%" (15 mm) Hex
53085	E3986 1/4	" Replacement Pilot Drill w	ith Slotted Shank	

Note: All weights are under 1 lb. (0.45 kg).

Reciprocating Saw Blades

High quality blades for every application. Available in carbon, or bi metal consisting of a high-speed steel cutting edge welded to a flexible alloy steel back for wood or metal cutting. RIDGID blades will fit in all reciprocating saws and are packed in plastic sleeves with five (5) blades or fifty (50) blades.





Bi-metal

Catalog	Model	Len	gth	Wi	dth	Gai	ıge	TPI	Std.	D
No.	No.	in.	mm	in.	mm	in.	mm	IPI	Pack	Recommended Use
80520	D-988	3	75	5/16	8	0.035	0.9	18	5	Scroll cuts in wood and cast aluminum, non-ferrous metals.
80500	D-984	4	100	3/4	20	0.035	0.9	14	5	Heavy gauge metals 1/8" thick and above. Barstock and angles.
80480	D-980	4	100	3/4	20	0.035	0.9	18	5	Heavy gauge metals of 18 gauge to 1/8" thick conduit, pipe, channels and tubing.
80485	D-981	4	100	3/4	20	0.035	0.9	24	5	Metal cutting 18 gauge and under. Trim, tubing, and galvanized pipe.
56892	D-993	6	150	3/4	20	0.035	0.9	10	5	Wood, nail-embedded wood, compositions, plastic, cast aluminum and non-ferrous metals.
80505	D-985	6	150	3/4	20	0.035	0.9	14	5	Heavy gauge metals 1/8" thick and above. Barstock and angles.
95872	DP-985	6	150	3/4	20	0.035	0.9	14	50	Heavy gauge metals 1/8" thick and above. Barstock and angles.
80510	D-986	6	150	3/4	20	0.035	0.9	18	5	Heavy gauge metals of 18 gauge to 1/8" thick conduit, pipe, channels and tubing.
95877	DDP-986	6	150	3/4	20	0.035	0.9	18	50	Heavy gauge metals of 18 gauge to 1/8" thick conduit, pipe, channels and tubing.
80515	D-987	6	150	3/4	20	0.035	0.9	24	5	Metal cutting 18 gauge and under. Trim, tubing, and galvanized pipe.
95882	DP-987	6	150	3/4	20	0.035	0.9	24	50	Metal cutting 18 gauge and under. Trim, tubing, and galvanized pipe.
47082	D-989	6	150	3/4	20	0.050	1.3	6	5	General rough-in, all woods, nail-embedded woods.
95887	DP-989	6	150	7∕8	22	0.062	1.6	6	3	Demolition blade! All wood, metal, nail embedded wood.
56897	D-994	8	200	3/4	20	0.035	0.9	10	5	All woods, composition, plastic, nail-embedded wood, cast aluminum, light metal.
20321	D-1014	8	200	3/4	20	0.035	0.9	14	5	Heavy gauge metals 1/8" thick and above. Barstock and angles.
95892	DP-1014	8	200	3/4	20	0.035	0.9	14	50	Heavy gauge metals 1/8" thick and above. Barstock and angles.
51022	D-992	9	225	3/4	20	0.050	1.3	6	5	General rough-in, all woods, nail-embedded woods.
47087	D-990	12	300	3/4	20	0.050	1.3	6	5	General rough-in, all woods, nail-embedded woods.
96032	D-979	12	300	7∕8	22	0.062	1.6	6	3	Demolition blade! All wood, metal, nail-embedded wood.



Carbon

Catalog	Model	Len	igth	Wi	dth	Gai	ıge	TPI	Std.	December ded Hee	
No.	No.	in.	mm	in.	mm	in.	mm	IPI	Pack Recommended Use		
80550	D-999	6	150	3/4	8	0.050	1.3	6	5	Roughing-in work in all woods. Fast cutting, long life.	
80545	D-998	6	150	3/4	20	0.032	0.8	10	5	5 Composition materials, smooth cutting in woods, fiberboard.	
80555	D-1003	12	300	%	22	0.050	1.3	6 5 Roughing-in work in all woods. Fast cutting, long life.		Roughing-in work in all woods. Fast cutting, long life.	



Ridge Tool offers two models of large capacity Core Drills. The RB-214 is provided with a combination anchor/vacuum base which permits the user a choice of anchoring systems by incorporating the two types of systems in one base. The RB-215 is ideal in that its base is designed solely for anchoring by masonry bolts.

Specifications

- Motor: 2-speed, 20 amp, 115V, 450/1200 rpm (230V upon request).
- Drilling: 1/2" through 14" dia. (spacer required over 10").
- Base: Anchor/Vacuum 13" x 17".
- Mast: 2½" square x 42" high.
- Slide Carriage: 5" x 5" x 10" Single-Piece Aluminum 18" Feed Handle.
- Control Panel: Heavy-Duty Box, Amp. Meter 2 Switches, 2 Outlets.
- Vacuum System: Gast Diaphragm Pump with Gauge & Fittings.
- Output Spindle Shaft: Thread Size 11/4" 7 UNC.

Features

- Control panel with separate switches for drill and vacuum, and amp meter to measure load.
- Heavy-duty plate type slip clutch protects gearing, motor, and bit no shear pins.
- Two-speed operation matches bit size 1200 rpm to 4" (100 mm) 450 rpm to 4" (100 mm) and larger.
- · Ceiling jack screw.
- Extra-long feed handle for operator ease.
- · Large diameter wheels for easy movement.

Catalog	Model	Description		Description			
No.	No.			kg			
98090	RB-214	Core Drill with Vacuum Motor and Seal 115V	146½	66.5			
16372	RB-214	Core Drill with Vacuum Motor and Seal 230V export	146½	66.5			







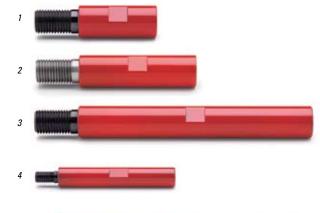
Core Rig Accessories

Catalog	Description	We	ight
No.	Description	lb.	kg
98165	Small Anchor Base (7" x 12")	24½	11.1
98100	Anchor-Vacuum Base (13" x 17")	35	15.9
98095	Anchor-Vacuum Drill Stand	75	34.0
98105	Vacuum Motor (115V) 60 Hz	16	7.3
16392	Vacuum Motor (230V) 50 Hz export	16	7.3
98110	Vacuum Motor With Fittings (115V) 60 Hz	18	8.2
16397	Vacuum Motor With Fittings (230V) 50 Hz	18	8.2
98115	Control Panel (115FV)	3	1.4
16387	Control Panel (230V)	3	1.4
98120	2 Inch Spacer Block (Applications over 10")	6	2.7
98125	20-Amp (115V) 25-60 Hz, 450/1200 RPM Motor	37	16.8
16382	10-Amp (230V) 25-60 Hz, 450/1200 RPM Motor	37	16.8
98130	Spindle Wrench	3	1.4
31360	No. 5 Strapwrench (for Bit Removal)	2	0.9
98140	Water Collector and Pump (115V)	19	8.6
16402	Water Collector and Pump (230V)	19	8.6
98145	Water Collector Ring	16	7.3
98150	Water Pump (115V) 50-60 Hz	3	1.4
98155	Pressure Tank: 8 gallon	111/4	5.1

Core Drill Bits



Core bits High Speed Premium Red







Bit Extension Rods & Adapters

All RIDGID segmented diamond drill bits are laser welded for superior strength. Three times stronger than conventional brazed bits.

RIDGID core bits are available in 2 styles: Premium Red and High Speed Premium Red.

Premium Red core bits are heavy-duty, multi-purpose bits for drilling in many types of materials including reinforced concrete, cinder block, stone, etc.

High Speed Premium Red core bits are specially designed for high speed drilling. Unique diamond segment design can increase drilling speed as much as 30% over conventional bits.

Premium Red	High Speed	Bit Diameter	We	ight
Catalog No.	Premium Red Catalog No.	(inches)	lb.	kg
98170	_	1/2*	1.10	0.5
98175	_	5⁄8*	1.15	0.5
98180	_	3/4 *	1.19	0.5
98185	_	7⁄8*	1.5	0.7
98190	_	1*	2.0	0.9
98195	_	11/4*	2.60	1.2
98200	_	1½*	3.20	1.5
98205	_	1¾	3.55	1.6
98210	51507	2	4.05	1.8
98215	_	21/4	4.25	1.9
98220	51512	21/2	5.00	2.3
98225	_	2¾	5.50	2.3
98230	51517	3	6.00	2.7
98235	51522	3½	6.50	2.9
98240	51527	4	8.00	3.6
98250	51537	5	11.50	5.2
98255	_	5½	13.25	6.0
98260	51542	6	14.00	6.4
98265	_	6½	15.25	6.9
98270	_	7	16.00	7.3
98275	51547	8	22.00	10.0
98280	_	9	24.25	11.0
98290	51557	12	41.25	18.7
98295		14	60.50	27.4

Note: All Diameters Are Nominal, Core Length is 12"

Item	Catalog	Fits Bit Size	Thusad	We	ight
No.	No.	(inches)	(inches) Thread		kg
1	98700	1¾ – up	11⁄4-7	21/4	1.0
2	98705	1¾ – up	11⁄4-7	31/4	1.5
3	98710	1¾ – up	11⁄4-7	61/4	2.8
4	98690	1-11/2	5⁄6−11	11/4	0.6
5	98695	1-11/2	5⁄6 − 11	2	0.9
6	98715	Adapter 114-7 B	11/4	0.6	
7	98720	Adapter %-11 B	ox to 1¼-7 Pin	11/4	0.7

^{*} Requires Adapter No. 98715





General Purpose Hand Tools

- Wide selection of accessory tools & equipment.
- Proven durable designs.

No. of Models	Page
5	7.2 - 7.3
1	7.4
1	7.4
10	7.5
2	7.6
11	7.6
1	7.7
3	7.7
4	7.8
1	7.9
1	7.9
9	7.10
12	7.11
5	7.12 - 7.13
6	7.14
1	7.14
9	7.15
15	7.16
10	7.17
9	7.17
11	7.18 - 7.19
1	7.20
1	7.21
	5 1 1 10 2 11 1 3 4 1 1 9 12 5 6 1 9 15 10 9 11

Bench Vises





Infinitely adjustable swivel base allows vise to lock securely in any position.



Large capacity pipe jaws for secure clamping

The F-Series vises are constructed of 75,000 psi tensile strength forged steel. These sleek, rugged vises out perform their bulky cast-iron competition.

RIDGID F-Series vises feature a patented parallel jaw alignment system. This exclusive feature gives the F-Series precise clamping action, as well as longer service life.

F-Series Also Features:

- All-steel, drop-forged construction.
- Rolled double lead Acme screw.
- Steel handle with rubber anti-pinch rings.
- Increased work areas.
- Standard fixed pipe jaws.
- · Large, hardened anvil.
- Surface hardened slides for smooth, precise operation.
- Forged steel swivel base with dual draw-down bolts.
- RIDGID Lifetime Warranty.

Vise Ordering Information

	3					
Catalog	Model	Description	We	Weight		
No.	No.	Description	lb.	kg.		
66987	F-45	4½" Forged Vise	26	11.9		
66992	F-50	5" Forged Vise	48	21.6		
66997	F-60	6" Forged Vise	63	28.6		
69907	-	Swivel Base Assembly for F-45	3	1.4		
69912	-	Swivel Base Assembly for F-50 & F-60	6	2.8		



Generously sized jaws provide greater clamping surface.



Aluminum Magnetic Jaw Covers





Magnetic Jaw Covers

Magnetic Jaw Covers assist with specialty clamping applications. These high quality covers give you greater flexibility when working with your F-Series Vise.

- AJ/Smooth Aluminum General use and non-marring surfaces.
- FJ/Fiber Cover For gripping hardened non-marring surfaces.
- RJ/Soft Rubber For delicate, irregular work pieces.

F-Series Vise Accessories

Vise Model	F-45	F-50	F-60	We	ight
vise Model	F-40	r-30	F-0U	lb.	kg.
Aluminum Magnetic Jaw Covers	69847	69852	69857	1.0	.50
Fiber Magnetic Jaw Covers	69862	69867	69872	1.0	.50
Soft-Faced Magnetic Jaw Covers	69877	69882	69887	1.0	.50

Quick-Acting Vises





RIDGID Model XF-45 and XF-50 vises feature rugged construction for long service life and a Quick Action Trigger for fast clamping and unclamping. Pulling the trigger releases the jaw and lets you push it to or from the work piece. In less than one turn of the handle the work piece can then be securely clamped or unclamped.

Features

- Quick Action Trigger for fast work piece positioning.
- Forged steel construction offers superior durability and strength.
- Patented jaw alignment system provides precise clamping and long service life.
- 360 degree swivel base enables work piece positioning flexibility.
- Oversized jaws and anvil offer large clamping and working surfaces.
- Rugged steel handle includes anti-pinch rings.

Vise Ordering Information

Catalog	Model	Description	Wei	ight
No.	No.	Description	lb.	kg.
26648	XF-45	4½" Quick-Action Grip Forged Vise	26	11.7
27848	XF-50	5" Quick-Action Grip Forged Vise	48	21.6

Anvils



Forged Anvils

The Peddinghaus® anvil has long stood for quality and craftsmanship. Peddinghaus anvils are dropforged and produced entirely from high grade steel for maximum durability. The top face is ground and induction hardened to provide a lively surface to work on.

Model #12 comes equipped with a pritchel hole to support the use of various tools. Model #12 also features an upsetting block.

Catalog	Model	Width of	Length	Length	Total	Total	_	We	ight	Std.
No.	No.	Face	of Face	of Horns	Length	Height	Base	lb.	kg	Pack
69642	12	51/4	12	81/2	28½	121/4	10¾ x 13½	275	125	1
69622	5	3	8	5½	18¾	8	6¾ x 7¾	77	35	1
69632	9	5	10½	71/2	25	10½	91/4 x 11	165	75	1

Level



No. 395 Torpedo Level

Nightshade Torpedo Level

- Ideal for general use and work in tight places.
- Glow in the dark vial frames for dark areas.
- Three vials for plumb, level and 45° miter.
- Three strong rare earth magnets.
- V-grooved edge for pipe and conduit work.
- Large top-read level vial.

Catalog	Model	Model Description Length		Во	dy	We	ight	Std.	
No.	No.	. Description	in.	mm	in.	mm	lb.	kg.	Pack
20233	395	9" Torpedo Level	9	229	5⁄8 x 11∕4	16 x 32	1/3	0.15	1



Hammers

RIDGID hammers feature high-quality steel heads. Individual sections are tempered steel for strength, hardness and resiliency. Wood handles are select grain burnished hickory. Claw hammers feature impact-resistant fiberglass handles with no-slip cushion grip.



Hammer Ordering Information

Catalog No.	Model No.	Description	Head \	Neight	Ove Len		We	eight	Hammers & Handles Std.
NU.	NO.		oz./lb.	kg/g	in.	mm	lb.	kg	Pack
52475	116	16 oz. Curved Claw Hammer	16	454	131/4	337	1½	0.7	4
52480	120	20 oz. Curved Claw Hammer	20	567	131⁄4	337	13/4	0.8	4
52485	216	16 oz. Ripping Claw Hammer	16	454	131⁄4	337	1½	0.7	4
52490	220	20 oz. Ripping Claw Hammer	20	567	131⁄4	337	13/4	0.8	4
52450	012	12 oz. Ball Pein Hammer	12	340	13	330	11/8	0.6	6
52455	016	16 oz. Ball Pein Hammer	16	454	14	356	1½	0.7	6
52465	024	24 oz. Ball Pein Hammer	24	680	15½	394	21/8	1.0	6
52470	032	32 oz. Ball Pein Hammer	32	907	16	406	23/4	1.3	6
52495	250	2½ lb. Short Handled Sledge	21/2	1.1	15½	394	31/4	1.5	4
52505	303	3 lb. Hand Drilling Hammer	3	1.4	10	254	3½	1.6	4



No. 212 Pro Arc

Designed to offer superior strength and maximum control in a lightweight professional hack saw. The bow frame casting provides both greater strength and improved work piece access. Blade replacement is a snap with the large tensioning knob and the rubberized hand grips fore and aft ensure a controlled and speedy cut. In addition, the 212 Pro Arc provides two positions for mounting the blade (either 45° or 90° cut angles) to handle the job.

No. 1205 PVC/ABS Saw

Designed for cutting plastic pipe, plywood and veneers. Has an aluminum handle and 18" blade with replacements available in either 12" or 18" lengths.

Cata	log M	lodel	Description	Wei	ight	Std.
No	.	No.	Description	lb.	kg	Pack
202	38 :	212	Pro Arc Aluminum Hack Saw	_	-	1
505	22 1	1205	18" PVC/ABS Pipe Saw	7/8	0.4	6
505	27 12	205-1	12" Replacement Blade	3/8	0.1	1
505	32 12	205-2	18" Replacement Blade	1/2	0.2	1

Note 18" Blade standard with Model 1205



Choice of Standard, Alloy or Bi-Metal High Speed Blades in 10" or 12" lengths.

Standard Alloy Hack Saw Blades

These blades are especially designed for general use by plumbers, electricians, maintenance men and home handymen. Teeth have been hardened for extra-long service life.

Bi-Metal Blades

Bi-Metal Blades have high-speed steel teeth electron-beam-welded to tough, yet flexible die steel backing to produce the best possible performance in a premium quality blade.

Standard Alloy and Bi Metal High Speed Hack Saw Blades

Cotolon No	Madel No	Decemination	Blade	e Size	Teeth Per	Blades Per	Wei	ght	Cad Dask
Catalog No.	Model No.	Description	in. mm Inch		Inch	Pack	lb.	kg	Std. Pack
35900	1024-A	10" Standard Hack Saw Blade	10 x ½	250 x 12	24	10	1/2	0.2	1
35910	1218-A	12" Standard Hack Saw Blade	12 x ½	300 x 12	18	10	1/2	0.2	1
35915	1224-A	12" Standard Hack Saw Blade	12 x ½	300 x 12	24	10	1/2	0.2	1
35920	1232-A	12" Standard Hack Saw Blade	12 x ½	300 x 12	32	10	1/2	0.2	1
57577	1218-A	12" Standard Hack Saw Blade	12 x ½	300 x 12	18	100	41/2	2.0	1
57582	1224-A	12" Standard Hack Saw Blade	12 x ½	300 x 12	24	100	41/2	2.0	1
93785	1218-BM	12" Bi-Metal Hi-Speed Hack Saw Blade	12 x ½	300 x 12	18	10	1/2	0.2	1
93790	1224-BM	12" Bi-Metal Hi-Speed Hack Saw Blade	12 x ½	300 x 12	24	10	1/2	0.2	1
56847	1218-BM	12" Bi-Metal Hi-Speed Hack Saw Blade	12 x ½	300 x 12	18	100	41/2	2.0	1
56852	1224-BM	12" Bi-Metal Hi-Speed Hack Saw Blade	12 x ½	300 x 12	24	100	41/2	2.0	1
56857	1232-BM	12" Bi-Metal Hi-Speed Hack Saw Blade	12 x ½	300 x 12	32	100	4½	2.0	1





Tool Box



No. 606 Standard Shape with Tray

Padlock provision on catch. Heavy-duty tray with handle.

Heavy-duty tool boxes for tradesmen's use. Made of 18-gauge, cold-rolled prime steel. Two heavy-duty plated trunk-type catches. Plated top handle. Electrically welded construction. Continuous piano hinge. Durable baked red enamel finish, electrostatically sprayed.

Catalog	Model	Description	Dimensions	-LxWxH	We	ight	Std.
No.	No.	Description	in.	mm	lb.	kg	Pack
33085	606	Standard Shape w/Tray	20 x 8½ x 9½	508 x 216 x 241	19½	8.8	1

Tape Measures



Locking Steel Tapes

Blade locks in place, rewinds automatically. Case has button control for tape locking and power rewinding.

Removable belt clip. Tempered steel blade is finished in yellow enamel and coated with Mylar® for lasting protection. Reinforced blade prevents breakage at the tip. Self-adjusting inside-outside end hook. Stud marks every 16".

Long Steel Tapes

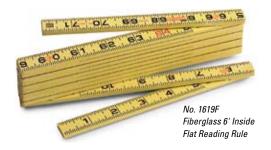
Durable case has vinyl covering over rust-resistant coated steel liner. Nickel-plated fittings. Push pin easily opens fold-in-rewind handle. Easy-to-read white steel tape shows inches in black, feet in red. 16" centers clearly indicated. Folding end hook holds firmly and releases easily.

Replaceable blades available for all models.

Locking Steel Tapes

Catalog	Model	Description	Width Length		gth	Wei	ight	Standard	
No.	No.	Description	in.	mm	ft.	m	OZ.	g	Pack
20213	636	16' Tape	3/4	19	16	5	10	238	6
20218	671	25' Tape	3/8	25	25	7.6	171/8	492	6
20208	632	100' Tape	3/8	25	100	30.5	14¾	419	1

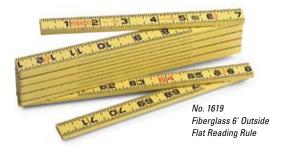
Rulers







Outside Scale in inches.



Fiberglass Folding Rules

Precision made of flexible heavy-duty fiberglass with embedded, easy-to-read boldface figures and graduations with red 16" stud marks and positive locking joints. No. 1602 is graduated on one side in millimeters with red markings every 10 cm. Reverse side reads in inches.

Fiberglass Folding Rules

Catalog	Model	Description	Wi	dth	Lenç	jth	We	ight	Std.
No.	No.	Description	in.	mm	ft.	m	OZ.	g	Pack
73365	1619	6' Outside Reading	5/8	16	6	1.8	7	198	6
73370	1619F	6' Inside Flat Reading	5/8	16	6	1.8	7	198	6
73360	1620	6' Extension Rule	5/8	16	6	1.8	7	198	6
81280	1602	2m Metric Rule	5/8	16	6' 6¾"	2	7	198	6

Hand Tool Kit



- Adjustable wrenches feature increased capacity, precision broaching, and tapered jaws for reach.
- Tongue & groove pliers boast v-jaws and biased teeth for superior bite and grip.
- Pliers are high-strength forged and incorporate induction-hardened teeth and cutting edges for extended life.
- 6-in-1 multidriver has a contoured handle for superior feel and torque, plus easy to access reversible tips.

Catalog	Model No.	Description	Length		Capacity		Weight	
No.		Description	in.	mm	in.	mm	lb.	kg
20243	-	Hand Tool Variety Case	_	_	_	-	9.5	4.4
86902	756	6" Adjustable Wrench	6	150	3/4	20	_	_
86907	758	8" Adjustable Wrench	8	200	7/8	25	_	-
86912	760	10" Adjustable Wrench	10	250	11//8	30	_	_
16503	776	8" Plumber's Wide Mouth	6	150	1	25	_	-
16508	777	10" Plumber's Wide Mouth	8	200	11//8	30	_	_
16458	767	8" Slip Joint Pliers	8	200	-	_	_	ı
16483	761	7" Diagonal Cutters	7	178	_	_	_	_
16488	766	8" Long Nose Pliers	8	200	_	_	_	_
16493	763	9" Linesman Pliers	9	229	_	_	_	_
62352	709	9½" Tongue & Groove Pliers	9½	241	1¾	46	_	_
16468	710	10½" Tongue & Groove Pliers	10½	267	21/4	60	_	_
16573	1974	6-in-1 Screwdriver	8	200	_	_	_	_

Multi-Purpose 6-in-1 Screwdriver



- Includes:
 - #1 and #2 Phillips® tip.
 - $-\frac{3}{16}$ " and $\frac{1}{4}$ " flat tip.
- -5/16" and 1/4" nut drivers in the shaft.
- Contoured cushioned grip for increased grip and torque.
- Ball/spring retention shaft with positive snap-fit locking handle.
- Full RIDGID Lifetime Warranty.

Catalog No.	Model No.	Description	Lenç	jth	Wei	Standard	
			in.	mm	lb.	kg	Pack
16573	1974	6-in-1 Screwdriver	8"	203	1/4	.11	12

Pliers

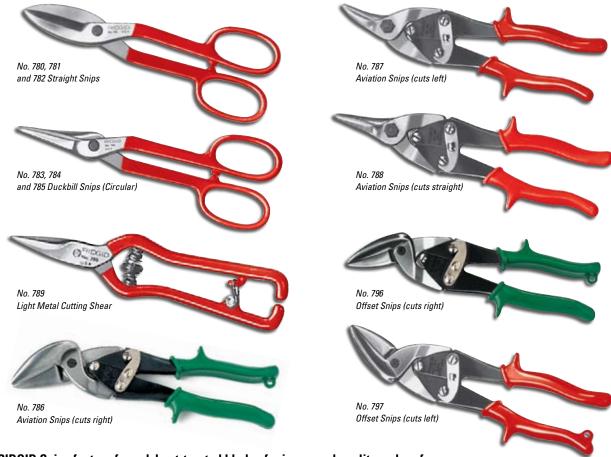
Pliers

- Professional quality tools, precision crafted for ultimate balance, high strength and exacting performance.
- Forged and heat-treated for extended life and durability.
- Slip Joint and Tongue and Groove pliers feature a flush rivet design which provides a stronger tool and allows access to tighter areas.
- Cushioned grips are designed for comfort only. They are NOT intended as insulation against electric shock.



Catalog Model		Description	Lengt	h	Weight		Standard
No.	. No.	Description	in.	mm	lb.	kg	Pack
16493	763	Linesman Pliers	9"	228	3/4	.27	1
16458	767	Slip-Joint Pliers	8"	203	1/2	.23	1
16483	761	Wide-Jaw Pliers	7"	177	1/2	.23	1
16488	766	Long-Nose Pliers	8"	203	1/2	.23	1
62347	707	Tongue-and-Groove Pliers	7½"	190	3/4	.34	1
62352	709	Tongue-and-Groove Pliers, 1 3/16 Capacity	9½"	241	1	.45	1
16468	710	Wide-Mouth Tongue-and-Groove Pliers, 21/4 Capacity	10½"	266	1	.45	1
16473	713	Tongue-and-Groove Pliers, 21/4 Capacity	13"	330	1½	.88	1
62362	716	Tongue-and-Groove Pliers, 41/4 Capacity	16"	406	23/4	1.24	1

Snips



All RIDGID Snips feature forged, heat-treated blades for increased quality and performance. Metal Cutting Snips

Excellent for cutting sheet metal, screening, wire, leather, cloth, gasket material, rubber, linoleum, roofing material, plastics, etc. Handles designed for right- or left-hand use.

Light Metal Cutting Shear

Cuts wire, sheet metal, rope, yarn, etc. Vinyl-coated handles. Manufactured from high-carbon, hot drop-forged tool steel.

Aviation Snips and Offset Snips

Ideal for cutting 18-gauge or lighter cold-rolled sheet steel. Compound action results in maximum jaw power with minimum effort. Aviation snips threaded jaw bolt allows the blades to be realigned after prolonged use.

Catalog	Model	Description	Length		Cut		Weight		Standard
No.	No.		in.	mm	in.	mm	lb.	kg	Pack
54085	780	Straight Snip	7	177	2	51	3/4	0.34	6
54090	781	Straight Snip	10	254	21/2	64	1	.05	6
54095	782	Straight Snip	121/2	318	3	76	13/4	.08	6
54100	783	Duckbill Snip	7	178	13/4	44	5/8	.03	6
54105	784	Duckbill Snip	10	254	21/2	64	1	.05	6
54110	785	Duckbill Snip	121/2	318	3	76	13/4	.08	6
54115	786	Snip - Cuts Right	10½	267	13/8	35	1	.05	6
54120	787	Snip - Cuts Left	10½	267	13/8	35	1	.05	6
54125	788	Snip - Cuts Straight	10½	267	11/2	38	1	.05	6
54130	789	Light Metal Shear	61/2	165	11/4	32	1/4	.01	6
16202	796	Offset Snip - Cuts Right	10½	267	11/2	38	1	.05	6
16207	797	Offset Snip - Cuts Left	10½	267	1½	38	1	.05	6

Knockout Sets



RIDGID's unique 3-point design makes punching fast and simple. Blanks fall out easily without prying. Choose from ball bearing manual sets to 2" or hydraulic sets to 4" with foot or hand pumps. RIDGID punches and dies are available individually or in sets, and are interchangeable with most knockout systems.

Manual Kits

Hardened alloy steel drive screws equipped with H-D ball bearings provide ease of operation and long life. Double end ratchet wrench included in Model R739BB provides speed and convenience.

- Precision-ground 3-point punch/die sets.
 - Capacity to 2" in 10-gauge mild steel.
- H-D ball bearing drive screws.
- Sets include durable ABS storage case.
- 3 kits available, including deluxe ratchet drive.



Hydraulic Kits

Combines ease of hydraulic operation and precision-ground knockouts to provide clean, quick holes. Available with foot or hand pumps.

- Precision-ground 3-point punch/die sets.
 - Capacity to 4" in 10-gauge mild or 16-gauge stainless steel.
- Powerful 11-ton hydraulic ram.
- Pumps equipped with internal safety relief valve.
- Ram and pump equipped with quick disconnect couplers.

Catalog Model		Description	Weight				
No.	No.	Description	lb.	kg			
31787	R735BB	½"-1¼" Ball Bearing Kit w/Case	61/4	2.8			
31792	R737BB	1½"-2" Ball Bearing Kit w/Case	71/2	3.3			
31797	R739BB	½"-2" Ball Bearing Kit w/Ratchet Wrench & Case	11	5.0			
23477	HKO-186	½"-2" Hydraulic Kit w/Hand Pump (Includes 2 Draw Bolts, Draw Bar, Spacers, 3' Hose)	31¾	14.3			
24587	HKO-1810	½"-4" Hydraulic Kit w/Hand Pump (Above w/KOPD 254 Kit)	611/4	27.7			
Manual Kno	kout Acces	sories					
31802	-	¾" Ball Bearing Bolt	1	0.4			
31807	-	¾" Ball Bearing Bolt	13/4	0.7			
31817	_	5/8" x 1" Ratchet Wrench	1½	0.7			
Hydraulic Knockout Accessories							
24542	H-18	Hand Pump with Elbow	10	4.5			
24547	HF-18	Foot Pump with Elbow	16	7.3			
24537	8R111S	Ram (Same Ram - All Sets)	61/4	2.8			
24582	-	Spacer Group (Inc. Long, Med., Short Spacer)	11/4	0.5			
17602	-	¾" Draw Bolt (F/Hyd Sets ½" P/D)	1/2	0.2			
17597	-	¾" Draw Bolt (F/Hyd Sets ¾"-4" P/D)	21/4	1.0			
21847	_	3' Hyd Hose (Hand Pump)	3	1.4			
21857	_	10' Hyd Hose (Foot Pump)	7	3.2			

Knockout Sets



No. KOPD-52, 1/2"-2" Punch and Die Set with Case

- Precision-ground 3-point punches.
- Tool steel tough dies.
- Sturdy case.

Catalog No.	Description
23487	No. KOPD-52 Set with ½", ¾", 1", 1¼", 1½", 2" Punches and Dies and Case



No. KOPD-254, 2½"-4" Punch and Die Set with Case

- Precision-ground 3-point punches.
- Tool steel tough dies.
- Sturdy case.

Catalog No.	Description
23492	No. KOPD-254 Set with 2½", 3", 3½", 4" Punches and Dies and Case

Conduit	Actual I	lole Size	Punch	Punch	Weight	Die Catalog	Die W	/eigth	Hydraulic Kit	Manual Kit
Size No.	in.	mm	Cat. No.	lb.	kg	No.	lb.	kg	Draw Bolt No.	Draw Bolt No.
1/2	7/8	22.5	17497	1/2	0.2	17547	1	0.5	17602	31802
3/4	11//8	28.3	17502	1/2	0.2	17552	3/4	0.3	17597	31807
1	13/8	34.6	17507	3/4	0.3	17557	1	0.5	17597	31807
11/4	111/16	43.3	17512	11/4	0.6	17562	11/2	0.7	17597	31807
1½	115⁄16	49.7	17517	21/4	1.0	17567	2	0.9	17597	31807
2	27/16	61.8	17522	4	1.8	17572	31/4	1.5	17597	31807
2½	215/16	74.4	17527	31/4	1.5	17577	31/4	1.5	17597	_
3	39/16	90.6	17532	5	2.3	17582	51/4	2.4	17597	_
3½	41/16	103.2	17537	31/4	1.5	17587	3	1.4	17597	_
4	49/16	116.0	17542	5	2.3	17592	41/4	1.9	17597	_

Cable Cutter



No. 1380 Cable Cutter

No. 1380 Cable Cutter is designed to shear-cut insulated aluminum and copper cable through 13/6" diameter, and 750 MCM*. Drop-forged, heat-treated, alloy steel jaws shear cable with minimum distortion of internal wires. Fitted with fiberglass-insulated handles and rubber grips.

*Not intended for cutting steel or ACSR cable.

Cataog	Model	Description	Canacity	We	Std.	
No.	No.	Description	Capacity	lb.	kg	Pack
83350	1380	Cable Cutter	Aluminum and Copper Cable through 1¾" Diameter and 750 MCM	4½	2.0	1

Bolt Cutter



- Hardened alloy steel jaws are designed and manufactured to assure the longest possible blade life.
- One-step internal cam mechanism provides the quickest and simplest way to keep the cutting blades precisely aligned.
- Handles and grips designed to allow greater mechanical advantage for crisp, controlled cutting.

Replacement Heads

Catalog	Description	Wei	ght
No.	Description	lb.	kg
18363	S14 Head Assembly	7/8	1.0
18368	S18 Head Assembly	11/4	1.5
18373	S24 Head Assembly	21/4	2.7
18378	S30 Head Assembly	87/8	4.0
18383	S36 Head Assembly	131/2	6.1
18388	S42 Head Assembly	181/4	8.3

Ordering Information

		5 1. 6			Capacit	y/Metals			Len	gth	10/-	Weight	
Catalog No.	Model No.	Bolt Cutter Description	Soft (15RC)1		Medium (31RC) ²		Hard (42RC) ³		Overall		weight		
IVU.	IVO.	Description	in.	mm	in.	mm	in.	mm	in.	mm	lb.	kg	
14213	S14	Center Cut	5/16	7.9	1/4	6.4	3/16	4.8	15	379	11/4	1.0	
14218	S18	Center Cut	3/8	9.5	5/16	7.9	1/4	6.4	19	485	33/8	1.5	
14223	S24	Center Cut	7/16	11.0	3/8	9.5	5/16	7.9	26	652	57/8	2.7	
14228	S30	Center Cut	1/2	12.7	7/16	11.0	3/8	9.5	31	800	87/8	4.0	
14233	S36	Center Cut	9/16	14.3	1/2	12.7	7/16	11.0	38	958	131/2	6.1	
14238	S42	Center Cut	11/16	17.5	9/16	14.3	1/2	12.7	44	1,115	181/4	8.3	

¹Soft steel and nonferrous metals, bolts, screws, rivets, wire.

Cable Trimmer



Catalog	Model	Description	Weight			
No.	No.	Description	lb.	kg		
54135	87	ACSR Cable Trimmer, includes Bushing Holder, Cutter, and Carrying Case	9½	4.3		
54270	E-4695	Cutter Wheel	1	.02		

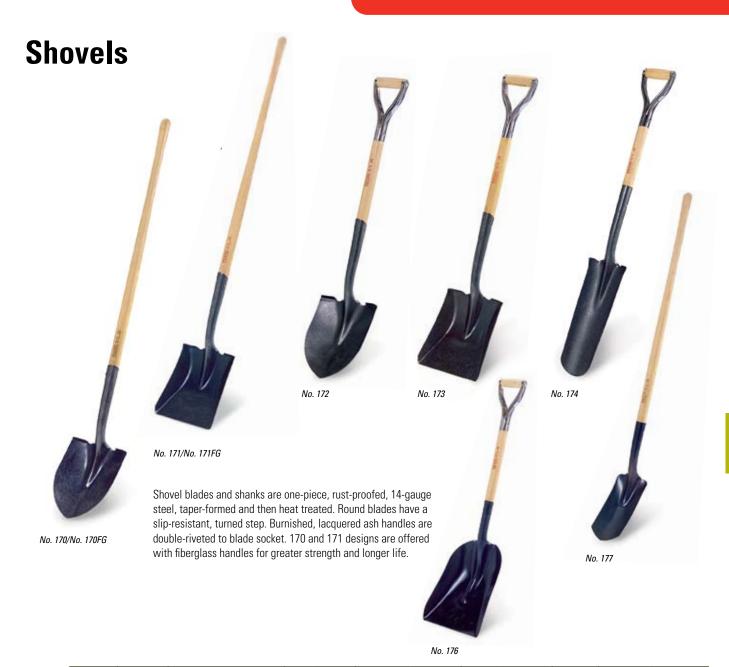
RIDGID No. 87 ACSR Cable Trimmer for fast, accurate cable splice preparation.

- Trims 85 sizes of ACSR cable from 8 AWG to 1,780,000 circular mils (C.M.).
- Bushings for 9 popular cable sizes from 1/0 AWG through 1,780,000 C.M. available from stock.
- The operation of the tool is similar to that of a conventional tubing cutter.
- The bushing holder, cutter and handy carrying case are sold as one unit.
- Case contains storage sockets for 11 bushings. Twelfth bushing is stored in holder.

Catalog No.	Bushing No.	A.W.G. or C.M.	No of Strands
54440	E-5761	2/0	6/1
54445	E-5762	3/0	6/1
54450	E-5763	4/0	6/1
54465	E-5766	266,800	26/7
54480	E-5769	336,400	26/7
54500	E-5773	397,500	26/7
54520	E-5777	477,000	26/7
54540	E-5781	556,500	26/7
54575	E-5788	636,000	54/7 24/7

²Iron and stee

³Stainless steel, spring wire, heat-treated rod, reinforcing rod.



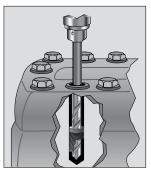
Catalog	Model	Description	Hand	le Length	Blade	Blade Size		eight/	Standard		cement 6 per pack)
No.	No.	Безеприон	in.	mm	in.	mm	lb.	kg	Pack	Catalog No.	Model No.
52300	170	Long Handle, Round Point	47	1194	85/8 x 111/2	219 x 292	34/5	1.7	6	52345	191
50482	170FG	Fiberglass Round Point	48	1200	85/8 x 111/2	219 x 292	4.7	2.1	6	-	-
52305	171	Long Handle, Square Point	47	1194	9³/4 x 12	248 x 305	41/2	2.0	6	52345	191
50487	171FG	Fiberglass Square Point	48	1200	9³/ ₄ x 12	248 x 305	5	2.3	6	_	_
52310	172	D Handle, Round Point	27	686	85/8 x 111/2	219 x 292	4	1.8	6	_	_
52315	173	D Handle, Square Point	27	686	9³/4 x 12	248 x 305	41/2	2.0	6	-	-
52320	174	D Handle, Drain Spade	27	686	51/2 x 16	140 x 356	34/5	1.7	6	_	-
88680	176	D Handle, Steel Scoop	27	686	9³/4 x 16	248 x 406	51/2	2.5	6	-	-
50492	177	Trench Shovel	47	1194	5¹/₂ x 12	140 x 305	3.1	1.4	6	52345	191

Screw Extractors





FIRST — Drill a small hole clear through the broken end using a snug fitting RIDGID Drill Guide for precision centering. This centering hole is for the larger drill to follow.



SECOND – Remove Drill Guide. Drill out the small center hole to larger diameter for receiving the "longrip" Extractor.



THIRD – Drive the "longrip" Extractor into the thin hollow shell and turn it out.

Catalog Model		Screw Diameter		Use Drill		Flute Diamter Len		Length Overall		Maximum Depth		Weight		Std.
No.	No.	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	OZ.	g	Pack
35535	1	1/4	6	1/8	3	0.139	3.5	25/16	59	1	25	1/2	14	6
35540	2	5/16	8	³ ⁄16	5	0.205	5.2	23/4	70	1	25	1	28	6
35545	3	3/8	9.5	1/4	6	0.272	6.9	31/16	78	1	25	11/4	35	6
35550	4	7∕16	11	5/16	8	0.338	8.6	35/16	84	1	25	13/4	50	6
35555	5	1/2-9/16	13-14	11/32	9	0.374	9.5	33/4	95	1	25	21/4	64	6
		(No Tu	ırnout)											
35560	6	5/8	16	⁷ /16	11	0.471	12.0	41/8	105	2	51	3	85	6
35565	7	3/4	19	1/2	13	0.538	13.7	41/2	114	2	51	4	113	6
35570	8	⁷ ∕8-1	22-25	5/8	16	0.665	16.9	43/4	121	3	76	6½	184	6



Catalog	Model	Description	Weight			
No.	No.	Description	oz.	g	Pack	
35575	3	Includes Nos. 3,4 and 5	8	227	1	
35580	5	Includes Nos. 1,2,3,4 and 5	8	227	1	



No. 10 Screw Extractor Set

No. 10 set contains 20 precision tools — one each of Extractor Nos. 1 to 5 inclusive with turnuts, drill Nos. 1 to 5 inclusive, and drill guides Nos. 921 to 1821 inclusive. Pre-formed plastic box provides convenient storage.

Catalog	Model	Description	Capa	acity	We	Std.	
No.	No.	Description	in.	mm	lb.	kg	Pack
35585	10	Screw Extractor Set	1/4-1/2	6-13	11/4	0.6	1
35695	10	Box Only	1/4-1/2	6-13	11/4	0.6	1



No. 25 Screw and Pipe Extractor Set

No. 25 set contains one each of screw extractors Nos. 1 to 8 inclusive (Nos. 1 to 5 Extractors with turnuts); Drill Nos. 1 to 8 inclusive, and one No. 36; and complete set of drill guides and bushings. Maximum depth extractor range 1" to 3". Pipe extractors Nos. 80 to 85 also included. These precision tools are packed in a fitted compartment box.

Catalog	Model	Description		Capacity	We	Std.		
No.	No.	Description	Туре	in.	mm	lb.	kg	Pack
35590	25	Screw and Pipe Extractor Set	Screw Pipe	1/4-1 1/8-1	6-25 3-25	91/4	4.2	1
35700	25	Box Only	-	_		1	0.5	1

Replacement Drill Guides / Twist Drills



Replacement Drill Guides (One-Piece Type)



High-Speed Twist Drills

Catalog	Model	Diameter O.D.			Overall Length		Use Drill		eight	Std.
No.	No.	in.	mm	in.	mm	in.	mm	OZ.	g	Pack
35765	921	9/32	7.1	13/16	30	1/8	3	1/4	7	1
35770	1021	5/16	7.9	13/16	30	1/8	3	1/2	14	1
35775	1121	11/32	8.7	13/16	30	1/8	3	1/2	14	1
35780	1221	3/8	9.5	13/16	30	1/8	3	1/2	14	1
35785	1321	13/32	10.0	13/16	30	3/16	5	1/2	14	1
35790	1421	7/16	11.1	13/16	30	3/16	5	3/4	21	1
35795	1521	15/32	11.9	13/16	30	3/16	5	3/4	21	1
35800	1621	1/2	12.7	13/16	30	3/16	5	1	28	1
35805	1721	17/32	13.5	13/16	30	1/4	6	1	28	1
35810	1821	⁹ /16	14.3	1 ³ /16	30	1/4	6	1	28	1

Catalog	Model	Diar	neter	Overall	Length	Wei	ght	Std.
No.	No.	in.	mm	in.	mm	OZ.	g	Pack
35720	1	1/8	3	21/2	63	1/4	7	1
35725	2	3/16	5	3	73	1/2	14	1
35730	3	1/4	6	31/2	89	3/4	21	1
35735	4	5/16	8	4	102	11/4	35	1
35740	5	11/32	9	41/2	114	11/2	43	1
35745	6	7/16	11	43/4	121	21/2	71	1
35750	7	1/2	13	5	127	31/2	99	1
35755	8	5/8	16	5 ¹ / ₂	139	5 ¹ / ₂	156	1
35760	36	1/4	6	6	152	11/2	43	1

Electrical Tools

- Complete Lineup Of Heavy-Duty Cutting, Stripping, & Crimping Tools For Electrical and Other Applications.
- Innovative RIDG-BACK™ Technology Reduces Cutting Force Up To 50%.
- All Tools Come With Deluxe Cushion Grips That Include Clear Application Markings.
- All Tools Include A Black Oxide Finish To Resist Rust and Corrosion.





The RIDG-BACK™ Advantage!

A Staggered Design Means The Blade, Not You, Provides More Cutting Force – Required Hand Force Is Reduced Up To 50%.

Premium Features

- Return spring action speeds up work.
- Positive lock to protect cutting and stripping edges when stored.
- Steel wire shear and bolt cutting stations for extra versatility.
- Holes included for quick wire looping.
- Serrated pliers nose for working small nuts and pulling wire.





				Cutti	ing Blade/S	Stations								
			Main Cut	tting Blade	Acces	sory Cutti	ng Stations		Additional	Features				
Catalog	Model	Description/Materials Used For:	RIDG- BACK	Curved or Notch	Steel Wire	Nose Anvil	Bolt Cutting	Return	Protective	Wire Looping	Nose	Wei	ght	Std.
No.	No.	Description/materials used For:	Blade	Blade	Shear	Cutter	Stations	Spring	Lock	Holes	Pliers	lb.	kg	Pack
21393	83E	Cutter/Stripper: 10-18 AWG Solid, 12-20 AWG Stranded Copper	1		1		6-32, 8-32	1	1	1	1	1/2	0.2	6
21398	84E	Cutter/Stripper: 20-30 AWG Solid, 22-32 AWG Stranded Copper	1		1		6-32, 8-32	1	1	1	1	1/2	0.2	6
21433	90E	Cutter/Stripper: 10-2 ROMEX® NM-B, 10 AWG Solid Copper	1		1		6-32, 8-32	1	1	1	1	1/2	0.2	6
21438	96E	Cutter/Stripper: 12-2/14-2 Dual ROMEX® NM-B, 12-14 AWG Solid Copper	1		√		6-32, 8-32	✓	1	1	1	1/2	0.2	6
21423	81E	4-In-1 Multi-Purpose Cutter: 5/8" Capacity, Electrical Copper Wire and Cable And Multi-Conductor Wire		Curved For Copper	1	1	6-32, 8-32	1	1	1		1/2	0.2	6
21428	89E	Fiber Optic Stripper: 900 µm / 250µm Buffer Coating, 3.0mm Fiber Jacket						1	1			1/2	0.2	6
Cutting / S	Stripping	/ Crimping Combo Tools:												
21408	85E	10-22 AWG Copper, Coax w/Up-Front Crimping	1		>	1	4-40, 6-32, 8-32, 10-32, 10-24			1		1/2	0.2	6
21403	86E	10-22 AWG Copper, Coax w/Rear-Pivot Crimping	1		1		4-40, 5-40, 6-32, 8-32, 10-32, 10-24	1	1	1	1	1/2	0.2	6
21418	80E	Coax Cable Tool For RG-6, RG-6 Quad, RG-59		Notched Blade								1/2	0.2	6
21413	88E	3-Pc. Mini Cutter, Stripper, Crimper For Tight Spaces: 8-18 AWG Solid, 10-22 AWG Stranded Copper	1									1/2	0.2	6



Catalog Model No. No.

Description

Weight lb. kg

Std. Pack

Fiber Optic Stripper

- Strips 900µm and 250µm buffer coating from 125µm optical fiber.
- Precision stripping station to remove 3.0mm fiber jacket.
- Return spring to speed work.
- Lock protects blade when stored.

Catalog Model	Model	Description	We	Std.	
No.	No.	Description		kg	Pack
21428	89E	Fiber Optic Stripper: 900μm/250μm Buffer coating, 3.0mm fiber jacket	1/2	0.2	6

Other RIDGID Electrical Contractor Tools:



1224 Threading Machine – Page 4.28



Hole Saws – Page 6.4



Pliers – Page 7.10



Thinwall Conduit Benders – Page 8.4

ROMEX® is a registered trademark of Southwire Company.



IR Thermometer



MicroRay IR-100 Non-Contact Infrared Thermometer

- Great energy audit and troubleshooting tool for a variety of applications:
 - Plant and building maintenance.
 - HVAC and refrigeration.
 - Electrical.
 - Plumbing.
 - Automotive.
- Simple, "1-Click" temperature measurement capability with Ultra-Sharp Class II laser sighting.
- The MicroRay IR-100 offers several RIDGID advantages:
 - 15 to 1 distance to spot ratio.
 - "Smart" temperature readings: accurately measure temperature of different surfaces
 (e.g. copper, aluminum, iron, plastic, etc.) regardless of their emissivity properties
 no need to apply tape or paint to object to ensure proper measurement.
 - "Smart" settings: High and low alarms; maximum, minimum and differential temperature readings.
- Other key specifications:
 - Temperature Range: -30° to +500° C, -22° to 932° F.
 - Large Backlight LCD display.
 - Tripod mounting capability.
 - Operates on 9V battery. (included)

Catalog	Catalog Model Description		We	eight	Std.
No.	No.	Description	lb.	kg	Pack
23578	IR-100	Non-Contact Infrared Thermometer	1/2	0.2	1



Diagnose temperature of wearing parts for preventive plant maintenance.



Measure efficiency of heat dissipation to reveal and locate thermal losses in the flow system.



Check fuse or circuit breaker overheating, which could be caused by overloaded circuits.

Micro CG-100™ Combustible Gas Sniffer



- Rugged, stylish design makes it easy to use and capable of withstanding job site abuse.
- Tri-Mode Detection™: operator can be alerted with a visible signal, audible alarm, or silent vibration.
- Silent vibration mode avoids alerting others and is great for loud, daylight construction environments.
- Extra-long AA battery life (>20 hours) ensures maximum up-time.
- · Adjustable sensitivity (high and low settings) provides precise leak locating capability.
- 16" probe hose allows operator to reach tight, confined spaces.
- · LED light at end of probe helps locate leaks in poorly-lit spaces.
- Built-in clip provides easy, secure probe hose storage.

Specifications

- Detection Range: 0 to 6400 ppm (Methane).
- Alarm Sensitivity: 40 ppm (Methane).
- Classifications: Class 1, Division 1 (ABCD).
- Automatic Calibration.

Gases Detected

Methane, Hydrogen, Carbon Monoxide, Propane, Ethylene, Ethane, Hexane, Benzene, Iso-Butane, Ethanol, Acetaldehyde, Formaldehyde, Toluene, P-Xylene, Ammonia, Hydrogen Sulfide

Catalog	Model No.	Danawinstian	We	Std.	
No.	Wiodel No.	Description	lb.	kg	Pack
26148	Micro CG-100	Combustible Gas Sniffer	1.0	0.45	1



Use the Micro CG-100 to detect gasses in plant and building maintenance applications.



Perfect tool for contractors in plumbing and HVAC.



Utility installation and service workers will find this tool invaluable.





Bending & Forming

- Wide selection for specific bending and forming needs.
- Quality you can trust.

Tuno	No. of Sizes	Cap	pacity	Dogg
Туре	NO. OI SIZES	in.	mm	Page
Lever Benders				
Plumbing	8	5/8 — 3/4	10 - 18	8.2
Instrument	9	3/16 — 1/2	6 - 12	8.2
Tri-Bender	1	1/4 — 3/8	-	8.3
Heavy-Duty	2	3/8 — 1/2	-	8.3
Ratchet Benders	3	5/8 — 7/8	16 - 22	8.3
Spring-Type Benders Conduit Benders	10	1/4 — 7/8	6 – 22	8.4
Heavy-Wall	3	1/2 - 11/4	12 - 25.32	8.4
Thin-Wall	3	$\frac{1}{2} - 1$	-	8.4
Tube Expanders	15	3/8 - 13/4	-	8.5
Swaging Tools	5	1/4 — 5/8	6 - 16	8.5
Conduit Sizing Tool Flaring Tools	5	1/8 — 5/8	6 – 16	8.5
Ratchet Type	6	1/8 – 1	4 – 16	8.6
Standard	12	3/16 — 5/8	6 - 16	8.6
Hammer-Type	8	3⁄8 − 2	9 - 50	8.6
Ratchet Tube Wrenches	13	5∕16 — 1	-	8.7

Lever Benders



Catalan	Model		Capa	acity	Wei	ght
Catalog No.	No.	Description	Tube Size (actual O.D.)	Bend Radius	lb.	kg
36962*	310	Lever Bender	5/8"	21/4"	6½	2.86
36972	312	Lever Bender	3/4"	27/8"	7	3.13
36942	310M	Lever Bender	10 mm	42 mm	4	1.81
36947	312M	Lever Bender	12 mm	42 mm	4	1.81
36952	314M	Lever Bender	14 mm	56 mm	61/2	2.86
36957	315M	Lever Bender	15 mm	56 mm	6½	2.86
36962*	316M	Lever Bender	16 mm	56 mm	61/2	2.86
36967	318M	Lever Bender	18 mm	72 mm	7	3.13

^{*}This product is dual-purpose, being both inch and metric.

300 Series Plumbing Benders

- Designed to bend copper tubing to a maximum of 180°.
- Offset cushion grip handles and a 90° start angle, together with a specially engineered plastic shoe, combine to ease bending effort.
- 300 series lever benders form smooth bends in types K & L soft (annealed) copper tubing.



Catalog	Model		Capa	acity	Wei	ght
No.	No.	Description	Tube Size (actual O.D.)	Bend Radius	lb.	kg
36117	403	Lever Bender	³ /16"	5%"	1½	0.68
36122	404	Lever Bender	1/4"	5/8"	11/2	0.68
36092*	405	Lever Bender	⁵ ⁄16"	¹⁵ ⁄16"	23/4	1.18
36097	406	Lever Bender	3/8"	¹⁵ ⁄16"	23/4	1.18
36132	408	Lever Bender	1/2"	1½"	5½	2.45
36112	406M	Lever Bender	6 mm	16 mm	11/2	0.68
36092*	408M	Lever Bender	8 mm	24 mm	23/4	1.18
36102	410M	Lever Bender	10 mm	24 mm	23/4	1.18
36127	412M	Lever Bender	12 mm	38 mm	5½	2.45

^{*}This product is dual-purpose, being both inch and metric.

400 Series Instrument Benders

- Combine accuracy with easy operation.
- Offset cushion grip handles for comfort when forming 180° bends. A 90° start angle and unique oil-absorbing shoe minimize bending effort while forming accurate bends in copper, steel and stainless steel tubing.



Catalog	Model	Conceity	Wei	ght
No.	No.	Capacity	lb.	kg
44852	456	1/4", 5/16", 3/8"	14	0.4

Model 456 Tri-Bender

- Designed to easily bend three different sizes of soft tubing:
 ¼", 5/16" and 3/6" with the same tool. Ideal for plumbing and HVAC applications.
- A 90° start angle minimizes effort required to form a bend. Handy reference marks indicate the angle for quick bends through 90°.



Ca	atalog	Model	Description	Capacity	Bend Radius	We	ight
	No.	No.	Description	Сараспу	Dena Kaalus	lb.	kg
5	51912	506	Lever Bender	3/8"	¹⁵ ⁄16"	31/2	1.45
- 5	51917	508	Lever Bender	1/2"	1½"	61/2	2.95

500 Series Heavy-Duty Instrument Benders

- Specially designed for bending stainless steel, titanium and other types of hard tubing.
- A unique two-stage handle design and rollers in the bending handle combine to produce high quality bends with significantly less effort than with conventional benders.

Ratchet Benders



Catalog No.	Model No.	Radius to Center of Tube		Tube O.D.		We	ight	Std. Pack
IVO.	INO.	in.	mm	in.	mm	lb.	kg	Pack
35170	358	3	76	5/8	16	71/2	3.25	1
35175	368	3¾	95	3/4	19	131/2	6.25	1
35180	378	3¾	95	7/8	22	131/2	6.25	1

Geared Ratchet Tube Benders

- High geared mechanical ratios, bend heavy-wall steel tube (up to 1/8" wall thickness), stainless steel tube (up to 3/2" wall thickness) and hard copper water tube (types K and L).
- Benders produce uniform bends up to 180°, with no need to anneal tubing or use special temper grade tubing.
- Reduce bending effort to a minimum.

Spring-Type Benders



Spring-Type Tube Benders

• Fast, free-form bending of soft copper and aluminum tube.

Catalog	Model	Description	Ler	igth	Tube	0.D.	Weig	ht/Pk.	Std.
No.	No.	Description	in.	mm	in.	mm	lb.	kg	Pack
35245	D-1375	Pack of 6 Spring-Type Benders	10"	250	1/4"	6	3/8	0.2	1
35250	D-1376	Pack of 6 Spring-Type Benders	10"	250	5/16"	8	1	0.5	1
35255	D-1377	Pack of 6 Spring-Type Benders	10"	250	3/8"	9	1	0.5	1
35260	D-1378	Pack of 6 Spring-Type Benders	12"	300	⁷ /16"	11	15/8	0.8	1
35265	D-1379	Pack of 6 Spring-Type Benders	12"	300	1/2"	12	25/8	1.2	1
35270	D-1380	Pack of 6 Spring-Type Benders	12"	300	5/8"	16	31/4	1.5	1
35275	D-1381	Pack of 6 Spring-Type Benders	12"	300	3/4"	19	33/4	1.7	1
35280	D-1382	Pack of 6 Spring-Type Benders	12"	300	7/8"	22	41/8	1.9	1
Spring-Typ	pe Bender S	ets							
35285	E-5732	Set of 6, 1/4" - 5/8" (6 mm - 16 mm)					13/4	0.8	1
35290	E-5734	Set of 8, ¼"- ½" (6 mm - 22 mm)					3	1.4	1

Conduit Benders



Heavy-Wall Conduit Benders

- Designed for the larger sizes of heavy-wall conduit. This bender has hardened teeth for slip-resistant grip.
- Extra-long supporting socket minimizes handle breakage.
- Notch in radius protects conduit threads.

Catalog	Model	Capacity		We	ight	Std.
No.	No.	in.	mm	lb.	kg	Pack
35230	B-1709	1/2	12	25/8	1.2	1
35235	B-1711	1/2, 3/4	12, 19	23/4	1.3	1
35240	B-1712	1, 11/4	25, 32	73/4	3.5	1

Handles not included.



Thin-Wall Conduit Benders

- Made of cast iron, these tools have exceptionally smooth side walls which grip conduit snugly to minimize distortion.
- Bending grooves conform to Standard Code Radii. Marks indicate 30°,45°, 60° and 90° bends.

Catalog	Model	Description	We	Std.	
No.	No.	Description	lb.	kg	Pack
35215	B-1677	Bends ½" (12 mm) Thin-Wall Conduit to 4" (100 mm) Inside Radius	21/2	1.1	1
35220	B-1678	Bends 3/4" (19 mm) Thin-Wall and 1/2" (12 mm) Heavy- Wall Conduit to 5" (127 mm) Inside Radius	41/2	2.0	1
35225	B-1679	Bends 1" (25 mm) Thin-Wall and ¾" (19 mm) Heavy- Wall Conduit to 6½" (165 mm) Inside Radius	81/2	3.9	1

Handles not included.

Model S Tube Expander



 This single-stage expander is designed to expand tubing for fast, accurate joints in soft copper, aluminum, and soft steel tube without using fittings. The mechanism is free-floating and self-centering.

Catalog	Model	Description	Tube C	apacity	Weig	ht/Pk.
No.	No.	Description	0.D.	nominal	lb.	kg
30032	7	Kit with 1/2", 5%", 7%" Heads and Case	-	-	6	2.7
34152	8	Kit with 3/8", 1/2", 3/4", 1" Heads and Case	_	_	61/2	.03
15071	S	Expander Handle	_	_	11/2	0.7
10251	_	Expander Head	3/8"	1/4"	1/2	0.2
10261	_	Expander Head	1/2"	3/8"	1/2	0.2
10271	_	Expander Head	5/8"	1/2"	1/2	0.2
10281	_	Expander Head	3/4"	5/8"	1/2	0.2
10291	_	Expander Head	7/8"	3/4"	1/2	0.2
10301	_	Expander Head	1"	_	1/2	0.2
10311	_	Expander Head	11/6"	1"	1/2	0.2
10321	_	Expander Head	11/4"	_	1/2	0.2
51206	_	Expander Head	13/8	_	1/2	0.2
10341	_	Expander Head	11/2"	_	1/2	0.2
10351	_	Expander Head	15⁄8"	1½"	1/2	0.2
10361	_	Expander Head	13/4"	_	1/2	0.2
58747	_	Replacement Case	_	_	3	1.4

Note: Kit Head sizes are given by Tube O. D.

Swaging Tools



- RIDGID Swaging Tools are quality-made and zinc-plated for accuracy and durability.
- Set of four tools is packaged in handy vinyl pouch.
- · Designed for copper, aluminum or brass.

Catalog	Model	D 1.7	O.D. Capacity			Weight		
No.	No.	Description	in.	mm	OZ.	g	Pack	
52420	570	Kit-4 Tools	1/4, 3/8,1/2, 5/8	6, 9, 12, 16	16	454	1	
52425	562	Swaging Tool	1/4	6	2	57	1	
52430	563	Swaging Tool	3/8	10	4	113	1	
52435	564	Swaging Tool	1/2	12	5	142	1	
52440	565	Swaging Tool	5/8	16	8	227	1	

Conduit Sizing Tool



No. 575 EMT Sizing Tool for Conduit

- Quickly resizes thin-wall conduit ends that have become deformed after installation.
- Tool can also be used for slight bending of ½" and ¾" conduit ends for alignment purposes.
- Hardened alloy steel resists wear.

Catalog	Model	Compositor	Consoity		Standard
No.	No.	Capacity	lb.	kg	Pack
36005	575	½" (12 mm) and ¾" (19mm) EMT	1%	0.6	1

Flaring Tools



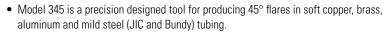
No. 458R Ratchet Flaring Tool

- This precision tool provides smooth, uniform flares with minimum effort.
- The new ratcheting feed screw handle turns easily and requires less motion and effort than a standard handle.
- · Hardened steel flaring cone, eccentrically mounted in needle bearings, produces rolling action for even metal flow, giving uniform flare walls without galling.

Catalog	Model	B 1.0	O: /: \	We	ight	Std.
No.	No.	Description	Sizes (in.)	lb.	kg	Pack
83037	458R	45° SAE Flares	1/8, 3/16, 1/4, 5/16, 3/8, 1/2, 5/8, 3/4	3½	1.6	1
41295	454-W	45° SAE-Nominal Water Tube	3/8,1/2,3/4,1	61/4	2.8	1
41300	455	45° SAE Flares	½, ¾, ¾, ½, 1	6¾	3.1	1
41162	377	37° SAE Flares	3/16, 1/4, 5/16, 3/8, 1/2, 5/8, 3/4	3½	1.6	1
41285	375	37° SAE Flares	½, ¾, ¾, ½, 1	6¾	3.1	1
Metric Mo	del		Sizes (mm)			
50257	458MM	45° SAE Flares	4, 4.75, 6, 8, 10, 12, 15, 16	3½	1.6	1

All flaring tools listed are recommended for soft materials such as aluminum and soft copper. No. 454W, No. 455 and No. 375 will also flare steel, stainless steel, hard copper and brass. No. 458R, No. 458MM and No. 377 will flare steel, stainless steel, hard copper, and brass thru wall thickness of .035 inches.





- A hardened, smooth cone provides fast, 45° flares either single or double lap.
- A single clamp screw provides for easy clamping and removal of tubing.

Catalog	Model	D	S: /:- \	We	ight	Std.
No.	No.	Description	Sizes (in.)	lb.	kg	Pack
23332	345	45° SAE Flares	3/16", 1/4", 5/16", 3/8", 7/16", 1/2", 5/8"	2¾	1.2	1
23337	345-DL	45° SAE-(double flares)	Above w/adapters for double lap flares; ¾6", ¼", ¾6", ¾6", ¼6", ½" O.D. Tubing	3	1.3	1
24797	345/150	45° SAE Flares	No. 345 w/No. 150 Tubing Cutter and Case Kit	3½	1.6	1
33927	345/150DL	45° SAE Flares	No. 345/DL w/No. 150 Tubing Cutter and Case Kit	3½	1.6	1
31597	_	-	3/16" Double Lap Adapter	-	-	-
31602	_	_	1/4" Double Lap Adapter	-	-	_
31607	_	-	5∕16" Double Lap Adapter	-	-	_
31612	_	_	3/4" Double Lap Adapter	-	-	_
31617	_	_	½" Double Lap Adapter	_	_	_
	Metric	Model	Sizes (mm)			
23342	345M	45° SAE Flares	6, 8, 10, 12, 14, 15, and 16	2¾	1.2	1
24087	345M/150	45° SAE Flares	No. 345M w/No. 150 Tubing Cutter and Case Kit	3½	1.6	1
31502	_	_	Case Only	_		



Hammer-Type Flaring Tools

• Made of high-grade, hardened steel, these tools have a long nose guide that centers tools for smooth, 45° uniform flares.

Catalog	Model	Water	Tube Size	We	eight	Std.	
No.	No.	in.	mm	lb.	kg	Pack	
41315	E-37	3/8	9	3/16	0.1	1	
41320	E-45	1/2	12	1/4	0.1	1	
41325	E-46	5/8	16	3/8	0.2	1	
41330	E-47	3/4	19	1/2	0.2	1	
41335	E-52	1	25	3/4	0.3	1	
41340	E-61	11/4	31	1	0.5	1	
41345	E-63	1½	37	1½	0.7	1	
41350	E-64	2	50	2½	1.0	1	





Ratchet Tube Wrenches



- Made from high-quality carbon and stainless steel, RIDGID Ratchet Tube Wrenches can be used in a wide variety of applications from plumbing to hydraulics.
- The spring-loaded jaws snap open and close around the fitting, enabling the tool to be used in tight quarters.
- The multi-point contact of the wrench helps prevent distortion of thin-walled fittings.
- These wrenches are available in twelve sizes, 5/16"-1", and a set of five in a plastic pouch, 3/4"-5/4".

Catalog	Model		Torque		We	ight	Std.
No.	No.	Description	Capacity (in.)	Capacity	lb.	kg	Pack
48592	R5	Ratcheting Tube Wrench	5/16	280	1/4	.1	6
48537	R6	Ratcheting Tube Wrench	3/8	293	1/4	.1	6
48542	R7	Ratcheting Tube Wrench	⁷ ⁄16	325	1/4	.1	6
48547	R8	Ratcheting Tube Wrench	1/2	390	1/4	.1	6
48552	R9	Ratcheting Tube Wrench	9/16	520	1/2	.15	6
48557	R10	Ratcheting Tube Wrench	5⁄8	780	1/2	.15	6
48562	R11	Ratcheting Tube Wrench	11/16	975	1/2	.15	6
48567	R12	Ratcheting Tube Wrench	3/4	1105	1/2	.15	6
48572	R13	Ratcheting Tube Wrench	13/16	1300	3/4	.3	6
48577	R14	Ratcheting Tube Wrench	7/8	1625	3/4	.3	6
48582	R15	Ratcheting Tube Wrench	¹⁵ ⁄16	1820	3/4	.3	6
48587	R16	Ratcheting Tube Wrench	1	1950	3/4	.3	6
48597	_	3/8"-5/8" 5 Pc. Kit with Pouch	_	_	11/4	.5	1



Tube Repair & Joining

- Wide selection from a single source.Unique durable designs.

Туре	No. of Models	Page
Pressure Test Pump	1	9.2
Soldering Gun	4	9.2
Pipe Freezer	4	9.3
Pipe Thawer	2	9.4



RIDGID

Pressure Test Pump



No. 1450 Pressure Test Pump

- Tests hydraulically for leaks in installations which are required to be leak proof. Will test systems up to 725 PSI.
- Especially for use in heating, compressed air, refrigeration systems, oil installations, sprinkler systems and other small bore pipe installations.

Catalog	Model	Description	Max.	Connections	Wei	ight
No.	No.	Description	Pressure	Connections	lb.	kg
50557	1450	Pressure Test Pump	725 PSI	½" NPT	14	6.5

Soldering Gun



RT-100



Professional Electric Soldering Gun

- RT-100
- Designed for soft soldering (50/50, 95/5 Alloys) 1/4" 11/2" Copper Tube.
- Flameless soldering easy-to-use.
- Six feet of cable.
- Built-in handle and cord wrap.
- Specially designed for repair and renovation jobs.
- Approved by CSA to CSA and UL standards (115 V only).

RT-175

- Soft solders 1/4" 3" tube.
- Flameless soldering easy-to-use.
- Twelve feet of cable.
- Fully contained in metal carrying case.
- Approved by CSA to CSA and UL standards (115 V only).

Catalog No.	Model No.	Description	Wei	ght
Catalog No.	wouei No.	Description	lb.	kg
69762	RT-100	115V Mini-Pro Soldering Gun	21	9.5
70662	RT-100	230V Mini-Pro Soldering Gun	21	9.5
62862	RT-175	115V Professional Solder Gun	33	15.0
17861	RT-175	230V Professional Solder Gun	33	15.0
39966	-	Carbon Tips	1/4	0.1
39976	-	Threaded Studs	1/4	0.1
84417	-	Holster	1	0.45

Pipe Freezer



SuperFreeze® Pipe Freezing Tool Avoids the Cost and Inconvenience of a System Shutdown and Purge.

The SuperFreeze Pipe Freezer is an easy-to-use pipe freezing unit that allows the contractor to keep water systems operating while making repairs. The RIDGID SF-2500 is a mini-refrigeration unit that circulates self-contained refrigerant to its aluminum freeze heads. This forms an ice plug in as little as 6 minutes in $\frac{1}{2}$ " copper tube and can be used with up to $2\frac{1}{2}$ " tube or 2" pipe. Once the pipe is plugged, repairs can be made while the ice plug is maintained by the unit. Now includes a bottle of specially formulated freeze gel to speed freezing. Apply the gel to freeze heads before placing on pipe.

• Approved by UL to CSA and UL standards (115 V only).

SF-2500

Capacity: Copper Tube: 1/2" - 21/2".

Steel Pipe: 1/2" - 2".

Compressor: 115V, 60 Hz, 4.3A or 230V, 50 Hz, 2.4 A.

Refrigerant: R-507 (14.2 oz. charge).

Weight: 55 lbs.

Hose Length: 8.5 ft. (17 ft. span). Dimensions: $L = 21^{\circ} W = 10.5^{\circ} H = 13^{\circ}$.

Standard Equipment

- SuperFeeze Unit.
- Two Velcro® straps.
- · Water bottle.
- Clamp.
- Freezegel.

Catalog	Model No.	Description	Weight		
No.	wouel No.	Description	lb.	kg	
68967	SF-2500	Pipe Freezing Kit - 115V ½"-2" Steel Pipe ½"-2½" Copper Tube	55	24.8	
68962	SF-2500	Pipe Freezing Kit - 230V Export ½"-2" Steel Pipe ½"-2½" Copper Tube	55	24.8	





Accessories

Catalog No.	Description
65937	SF-2000R Velcro Straps (set of 2)
69707	SF-2500R Velcro Straps (set of 2)
66462	SF-2000R 11/4" CTS Bushings (set of 2)
69712	SF-2500R ¾" CTS Bushings (set of 2)
70652	SF-2500R 11/4" CTS Bushings (set of 2)
69717	SF-2500R 2" CTS Bushings (set of 2)
68842	SF-2000R 3/6" End Adapters (set of 2)
68847	SF-2000R ½" End Adapters (set of 2)
68972	SF-2000R 3/4" End Adapters (set of 2)
68857	SF-2500R ½" End Adapters (set of 2)
68862	SF-2500R 3/4" End Adapters (set of 2)
65942	Quick Grip Clamp
74946	RIDGID Freeze Gel
84472	Replacement Rubber Feet
18643	Replacement Rubber Hose with Port
18648	Replacement Rubber Hose without Port

Note: Always make sure SuperFreeze heads and hoses are completely thawed before removing from pipe. DO NOT forcefully remove from pipe with any kind of tool, as it could permanently damage the heads and hoses.





Pipe Thawers



KT-190 Pipe Thawer



KT-200 Pipe Thawer



Models KT-190 and KT-200 For fast thawing of frozen metal pipes ½" through 1½" (12-36mm).

The KT-190 and KT-200 Pipe Thawing Units provide continuous heating to quickly thaw $\frac{1}{2}$ " to $\frac{1}{2}$ " frozen metal pipes. With these lightweight, versatile units, there is no need to dig or tear apart walls. Simply attach the clamps to the metal pipe on each side of the frozen section and the pipe is thawed within minutes.

- Approved by CSA to CSA and UL standards (115 V only).
- Lightweight: Weighing under 30 lbs., each unit can be easily transported to the most difficult locations such as attics.
- Versatile: The KT-190 can be used on lengths of pipe between 15 and 75 feet. With 4 output levels, the KT-200 can be used on 4' to 150' lengths of pipe. The KT-200's amp meter allows the user to select the proper output level for maximum current draw and minimum thawing time.
- Powerful: Both units operate on a standard 115V, 15 amp outlet. The KT-190 produces 300 amps and the KT-200 produces 250-400 amps of thawing power.

All these features and more make the KT-190 and the KT-200 the professional's choice.

Catalog	Model	Description	Weight		
No.	No.	Description	lb.	kg	
62802	KT-190	Pipe Thawer w/2 - 25' #2 Cables	46	21	
62747	KT-200	Pipe Thawer w/2 - 25' #1/0 Cables	55	2	
62662	_	Cable w/Clamp 25'	13	6	
62772	-	Extension Cable 25' #1/0 AWG	11	5	
62812	_	Series Cable 3' #2 AWG	1½	.6	

Specifications	KT-190	KT-200
Pipe Capacity	½"-1½" (12-36mm)	½"-1½" (12-36mm)
Input Current	15 Amps	15 Amps
Minimum Reach	15' (4.6m)	4' (1.2m)
Maximum Reach	75' (23m)	150' (46m)
Cable Length	25' (7.7m)	25' (7.7m)
Cable Size	2 AWG	1/0 AWG
Output Amps	300	250-400
Weight	25 lbs. (11.4 kg)	29 lbs. (13.2 kg)



Press Tools

- Feature lock-on cycle completion to ensure the same reliable, watertight joint every time.
- Are highly engineered to deliver superior quality and durability backed by the RIDGID Lifetime Warranty.

Туре	No. of Models	Capacity in.	Page
Compact Cordless	1	3/8 - 11/2	10.4
Compact Press Jaws	4	3/8 - 11/2	10.5
Standard Cordless	1	1/2 — 4	10.6
Standard Corded	1	$\frac{1}{2} - 4$	10.7
Standard Press Jaws	3	$\frac{1}{2} - 2$	10.8
Press Rings	3	$2\frac{1}{2} - 4$	10.8 & 10.9
PEX Crimp Tools	6	3⁄8 − 1	10.10
Fittings Bag	1	_	10.11
Press Frames	5	1/4 & 15/8	10.12

Selection Chart

Press Tools

Compact 100-B page 10.4	Jaws	Pressing Rings	Power	Copper/SS Capacity	PEX Capacity	Weight (lb.)	Rotating Barrel	Characteristics
	Compact Series Jaws: • ProPress® (copper & stainless) • Pureflow** (PEX) • ASTM F 1807 (PEX) • Murray Crimp Jaws • PPC Press Frames	Standard Series Press Rings: • ½ - 11/4" ProPress (copper & stainless) with C1 actuator	14.4V Ni-MH battery	½ - 1¼"	3⁄8" - 1½"	7.5 with battery	90°	The smallest, lightest and most compact pressing tool ever developed by the Ridge Tool Company. One fourth smaller and lighter than the RP 330-B, the compact 100-B is the perfect tool for all your ½-1" copper connections, as well as connections for PEX tubing. Also features a 90° rotating barrel for access into tight spaces.
RP 330-B page 10.6								Characteristics
	Standard Series Jaws: • ProPress (copper & stainless) • Pureflow (PEX)	Standard Series Press Rings: • ProPress (copper & stainless) • ProPress XL-C/S (copper & stainless) • ProPress XL (bronze)	18V Lithium Ion battery	1/2 - 4"	½ - 1½"	9.8 with battery	270°	For convenience and portability, the RP330-B is designed to handle your toughest construction projects. It features a barrel that rotates 270 degrees and a long service interval. It is powered by an 18V Lithium-lon battery to provide 50% more presses per battery charge than Ni-Mh battery-powered tools.
RP 330-C page 10.7								Characteristics
P	Standard Series Jaws: • ProPress (copper & stainless) • Pureflow (PEX)	Standard Series Press Rings: • ProPress (copper & stainless) • ProPress XL-C/S (copper & stainless) • ProPress XL (bronze)	Corded	1/2 - 4"	½ - 1½"	9	270°	For the peace of mind a corded tool offers, choose the RP 330-C press tool. With all of the same features, functionality and durability of the battery-powered version, the RP 330-C press tool is the workhorse of the job site. At nearly one-half the weight of the previous CT400 unit, this is our lightest corded press tool ever.
PEX Crimp Tools page 10.10								Characteristics
OFF.	ASTM F 1807 (PEX) Murray Clamp (PEX)	-	_	-	3⁄8" - 1"	2.7-3.4	-	Constructed of lightweight, durable polycarbonate E ^{3®} handles, RIDGID PEX Crimp Tools are ideal for making copper crimp ring and stainless steel clamp connections in potable water and radiant heating applications.

Press Jaws & Rings

Compact Series Press Jaws for use with 100-B										
Compact Series Jaws	3/8"	1/2"	5/8"	3/4"	1"	11/4"	11/2"			
ProPress (copper & stainless)	_	16958	_	16963	16978	_	_			
Pureflow (PEX)	17003	17008	19813	17013	17018	22683	22688			
ASTM F 1807 (PEX)	22953	22958	22963	22968	22973	22978	_			

Standard Series Press Jaws for use with 320-E, RP 330-B, RP 330-C & CT400										
Standard Series Jaws	3/8"	1/2"	5/8"	3/4"	1"	11/4"	11/2"	2"		
ProPress (copper & stainless)	_	76652	-	76657	76662	76667	76672	76677		
Pureflow (PEX)	_	22653	22658	22663	22668	22673	22678	_		

Large Diameter Press Rings for use with 320-E, RP 330-B, RP 330-C & CT400									
Pressing Rings	Standard Series Acutator Jaw		3"	4"	2½"-4" Ring Kit with Case				
ProPress XL (bronze fittings)	R2 Actuator 93692	93677	93682	93687	93667				
ProPress XL-C (copper and stainless steel fittings)	V2 Actuator 21878	20543	20548	20553	20483				

ProPress® is a registered trademark of Viega. PureFlow™ is a trademark of Viega.

Small Diameter Press Rings for use with 100-B, 320-E, RP 330-B, RP 330-C & CT400								
Actuator Jaw	1/2"	3/4"	1"	11/4"	1½"	2"	For Use With	
V1 28033	27998	28003	28008	28013	-	-	RP 330-B RP 330-C 320E CT400	
V2 21878	_	-	_	_	28018	28023	RP 330-B RP 330-C 320E CT400	
C1 26163	27998	28003	28008	28013	-	-	100B	

The Fastest, Most Reliable Press Tools

		Compact	Stan	dard
Features	Benefits	RIDGID 100-B	RIDGID RP 330-B	RIDGID RP 330-C
Weight (tool and battery)	Lightweight, providing maximum comfort.	7.5 lbs.	9.8 lbs. with battery	9 lbs.
Battery	Ni-MH, providing ~30% more work- per-charge than NiCad batteries.	14.4V Ni-MH	18V Lithium Ion	N/A
Rotating Barrel	Tool barrel rotates, allowing access into the tightest spaces.	90°	270°	270°
Approximate Cycle Time	Fastest cycle times, providing maximum speed with every conection.	4 Seconds	5 Seconds	5 Seconds
Tool Approval	Third party approval.	N/A	N/A	UL / CSA
Lock-On Cycle Completion	Cycle completes automatically once pressing action begins, ensuring a reliable connection every time.	~	V	V
Auto Ram Retraction	Ram returns to start position automatically, providing maximum speed with every connection.	✓	✓	~
Jaw Pin Closure Sensor	Prevents cycle from starting if pin is not fully engaged, preventing tool damage.	✓	✓	✓
Automatic Maintenance Reminder	Automatic calibration reminder to ensure optimal performance.	✓	✓	✓
Extreme Temperature Sensor	100-B operating temp = 32° to 122° F. RP 330-B operating temp = 15° to 122° F. RP 330-C operating temp = 15° to 122° F.	✓	✓	✓
Low Battery Sensor	Alerts user to insufficient battery power, providing maximum reliability with every connection.	V	V	-
Warranty	RIDGID Full Lifetime Warranty.	FULL LIFETIME WARRANTY Against Material Defects a Workmanship	FULL LIFETIME WARRANTY Against Material Defects & Workmanship	FULL LIFETIME WARRANTY Against Material Defects & Workmanship

Compact Battery-Operated Press Tool

1/2" to 11/4" Capacity for Copper and Stainless Steel 3/8" to 11/2" Capacity for PEX





Compact Series Jaws for PropPress Copper and Stainless See page 10.5



Compact Series Jaws for PEX See page 10.5

Model 100-B Compact

The Model 100-B is the most compact, lightweight, and yet, powerful press tool developed by Ridge Tool. It delivers just the right capacity needed for small diameter copper, stainless steel and PEX tubing. The 100-B's compact size, and barrel that swivels 90°, allows access to the tightest spots.

Specifications

- Capacity: ½" to 1¼" for copper and stainless; ¾" to 1½" for PEX.
- Uses Compact Series Press Jaws.
- 90° barrel/jaw swivel.
- Battery: 14.4V 2.6 Ah Ni-MH.
- Battery Charger: 115V.
- Hydraulic Ram Output: 5,400 lbs. (24 kN).
- Weight: 7.5 lbs. with battery.
- Operating Temperature Range: 32°F 122°F.
- Approximate Cycle Time: 4 seconds.
- Standard Kit Includes: 100-B Press Tool, 2 Batteries, Battery Charger and Carrying Case.

Catalog No.	Model No.	Description	Weight lb.	Std. Pack
16953	100-B	½", ¾", 1" Jaw Sets for ProPress (copper & stainless)	25	1
16988	100-B	½", ¾", 1" Jaw Sets for Pureflow (PEX)	25	1
23893	100-B	½", ¾", 1" Jaw Sets for ASTM F 1807 (PEX)	25	1
25343	100-B	3/8" to 1" Murray PEX Clamp Kit with 100-B	21	1
16993	100-B	Kit without Jaw Sets	18½	1
16948	100-B	Pressing Tool Only	13¾	1

Accessories

Catalog No.	Model No.	Description	Weight lb.	Std. Pack
16818	_	Carrying Case	9	1
12683	_	Battery 14.4V, 2.6 Ah Ni-MH	3	1
83417	_	Battery Charger	21/2	1

Compact Series Press Jaws

RIDGID Compact Series press jaws are 40% lighter and 33% smaller than Standard Series jaws, enabling them to fit into tight spaces. RIDGID Compact Series press jaws are only compatible with 100-B Compact Series press tools.

Copper and Stainless



Compact Jaws for ProPress

Compact Series Jaw Sets for ProPress (copper and stainless)

Catalog No.	Model No.	Description	Weight lb.	Std. Pack
16958	-	½" Jaw for ProPress	21/2	1
16963	_	¾" Jaw for ProPress	21/2	1
16978	_	1" Jaw for ProPress	21/2	1



Compact Jaws for PureFlow



Compact Jaws for ASTM F 1807 PEX Connections

Compact Series Jaw Sets for Pureflow (PEX)

Catalog No.	Model No.	Description	Weight lb.	Std. Pack
17003	-	¾" Jaw for Pureflow	21/2	1
17008	_	½" Jaw for Pureflow	21/2	1
19813	_	%" Jaw for Pureflow	21/2	1
17013	_	¾" Jaw for Pureflow	21/2	1
17018	_	1" Jaw for Pureflow	21/2	1
22683	_	1¼" Jaw for Pureflow	21/2	1
22688	_	1½" Jaw for Pureflow	21/2	1

Compact Series Jaw Sets for PEX

Catalog No.	Model No.	Description	Weight lb.	Std. Pack
22953	-	3/8" ASTM F 1807 Jaw	21/2	1
22958	_	½" ASTM F 1807 Jaw	21/2	1
22963	_	5/8" ASTM F 1807 Jaw	21/2	1
22968	_	34" ASTM F 1807 Jaw	21/2	1
22973	_	1" ASTM F 1807 Jaw	21/2	1
22978	_	1¼" ASTM F 1807 Jaw	21/2	1
23473	_	%"- ¾" ASTM F 1807 Gauge	1	1
23478	_	1" ASTM F 1807 Gauge	1	1
23898	_	1¼" ASTM F 1807 Gauge	1	1
24923	_	%"-1" Murray PEX Clamp Jaw	21/2	1



Murray PEX Clamp Jaw

Battery-Operated Press Tool

1/2" to 4" Capacity







Standard Series Jaws for ProPress Copper and Stainless See page 10.8



Pressing Rings for 2½"-4" See page 10.8

Model RP 330-B Battery-Powered Press Tool

For convenience and portability, the RP 330-B is the logical choice. Featuring a barrel that rotates 270 degrees and a longer service interval, the RP330-B is designed to handle your toughest construction projects. Powered by a 18V Lithium-lon Battery, the RP 330-B offers 50% more presses per battery charge than Ni-MH battery powered tools.

Specifications

- Capacity: ½" − 4".
- 270° Barrel/Jaw Swivel.
- Battery: 18V 2.2 Ah Lithium-Ion .
- Battery Charger: 115V.
- Hydraulic Ram Output: 7,200 lbs. (32kN).
- Weight: 9.8 lbs. with Battery.
- Operating Temperature Range: 15°F to 122°F.
- · Approximate Cycle Time: 5 seconds.
- Standard Kit includes: RP 330-B Press Tool, 2 Batteries, Battery Charger and Carrying Case.
- Compatible with all RIDGID Standard Series Pressing Attachments.
- For use with Copper, Stainless Steel and PEX Tubing.
- Approved by UL to UL and CSA Standards.

RP 330-B with Jaw Sets for ProPress Copper

Catalog No.	Model No.	Description	Weight lb.	Std. Pack
27913	RP 330-B	Kit without Jaw Sets	21¾	1
27918	RP 330-B	½"-1" Jaw Sets for ProPress (copper & stainless steel)	33%	1
27923	RP 330-B	½"-2" Jaw Sets for ProPress (copper & stainless steel)	54	1

Accessories

Catalog No.	Model No.	Description	Weight lb.	Std. Pack		
27968	RP 330-B	Battery, 18V 2.2 Ah Lithium Ion	11/2	1		
27958	RP 330-B	115V Charger	11/4	1		
27933	RP 330	RP 330 Carrying Case	101/4	1		



Standard Jaws for Pureflow





Corded Press Tool 1/2" to 4" Capacity



Model RP 330-C Corded Press Tool

For the piece of mind a corded tool offers, choose the RP 330-C press tool. With all of the same features, functionality and durability of the battery-powered version, the RP 330-C press tool is the workhorse of the job site. At nearly one-half the weight of the previous CT400 unit, this is our lightest corded press tool.

Specifications:

- Capacity: ½" − 4".
- 270° Barrel/Jaw Swivel.
- Hydraulic Ram Output: 7,200 lbs. (32kN).
- Weight: 9 lbs.
- Operating Temperature Range: 15°F to 122°F.
- Approximate Cycle Time: 5 seconds.
- Standard Kit includes: RP 330-C Press Tool and Carrying Case.
- Compatible with all RIDGID Standard Series Pressing Attachments.
- For use with Copper, Stainless Steel and PEX Tubing.
- Approved by UL to UL and CSA Standards.

RP 330-C with Jaw Sets for ProPress (copper)

Catalog No.	Model No.	Description	Weight lb.	Std. Pack
27938	RP 330-C	Kit without Jaw Sets	19%	1
27943	RP 330-C	½" to 1" Jaw Sets for ProPress (copper & stainless steel)	31¾	1
27948	RP 330-C	½" to 2" Jaw Sets for ProPress (copper & stainless steel)	52	1



Standard Series Jaws for ProPress Copper and Stainless See page 10.8





Pressing Rings for 2½"-4" See page 10.8

Standard Series Press Jaws

The Standard Series Pressing Jaws were designed in conjunction with the fitting manufacturer, ensuring compatibility. All RIDGID Standard Series pressing jaws are only compatible with RIDGID Standard Series Pressing Tools (320-E, RP 330-B, RP 330-C & CT400).





Standard Jaws for ProPress

Standard Series Jaw Sets for ProPress (Copper & Stainless Steel)

Catalog No.	Model No.	Description	Weight lb.	Std. Pack
76652	-	½" Jaw for ProPress	4	1
76657	_	3/4" Jaw for ProPress	41/4	1
76662	_	1" Jaw for ProPress	41/2	1
76667	_	1¼" Jaw for ProPress	43/4	1
76672	_	1½" Jaw for ProPress	6½	1
76677	_	2" Jaw for ProPress	10	1

PEX



Standard Jaws for Pureflow

Standard Series Jaw Sets for Pureflow (PEX)

<u> </u>				
Catalog No.	Model No.	Description	Weight lb.	Std. Pack
22653	-	½" Jaw for Pureflow	4	1
22658	_	5/4"Jaw for Pureflow	41/4	1
22663	_	3/4"Jaw for Pureflow	41/2	1
22668	_	1" Jaw for Pureflow	41/2	1
22673	_	1¼" Jaw for Pureflow	63/4	1
22678	_	1½" Jaw for Pureflow	61/2	1

Press Rings



Standard Series XL-C/S Press Rings For Use with ProPress XL-C/S (Copper & Stainless Steel Fittings)

The patented XL-C/S Press Rings and V2 Actuator provide increased flexibility in tight spaces. The ball-tip V2 Actuator swivels nearly 180° with the XL-C/S Press Rings, allowing increased accessibility when making 2½" to 4" connections on ProPress XL-C/S fittings. These rings work with all RIDGID Standard Series Pressing Tools to make connections on 2½"-4" tube (320-E, RP 330-B, RP 330-C & CT400).



Exclusive 180° Swivel for optimum flexibility.

Catalog No.	Model No.	Description	Weight lb.	Std. Pack
20483	XL-C/S	2½" to 4" Rings, Actuator and Case Complete	401/4	1
20543	XL-C/S	2½" Press Ring	6	1
20548	XL-C/S	3" Press Ring	9¾	1
20553	XL-C/S	4" Press Ring	11¾	1
21878	V2	Ring Actuator	71⁄4	1
21103	_	XL-C Carrying Case Only	7¾	1



Press Rings



Standard Series XL Press Rings For Use with ProPress XL (Bronze Fittings)

The patented Standard Series XL Press Rings are spring-loaded so they stay in place once they are put onto the fittings. These rings work with the R2 Actuator on all Standard Series Press Tools used to make connections on 2½" to 4" tube (320-E, RP 330-B, RP 330-C & CT400).

Catalog No.	Model No.	Description	Weight lb.	Std. Pack
93667	XL	2½" to 4" Rings, Actuator and Case	40	1
93677	XL	2½" XL Pressing Ring	5	1
93682	XL	3" XL Pressing Ring	51/4	1
93687	XL	4" XL Pressing Ring	71/4	1
93692	R2	Ring Actuator (For XL Only)	9	1
16803	_	XL Pressing Ring Carrying Case	9	1

Standard Series Press Rings for ProPress Copper and Stainless Fittings

Standard Series Press Rings for ProPress fittings permit access in tighter spaces and serve as an excellent complement to your RIDGID jaw sets. The swivel actuator allows a press tool to be placed +/-90 degrees to the tube being pressed!

Features

- V1 and V2 Kits are designed for use with RIDGID 320-E, RP 330-B, RP 330-C & CT400 Press Tools.
- C1 Compact Kits are designed for RIDGID 100-B Press Tools.
- ProPress Rings are available in ½" − 2" capacity.
- Standard Kit includes: Press Rings, Actuator and Carrying Case.

Compatible With:

• ProPress System (copper & stainless steel 1/2" - 2").

Specifications

• Capacity: 1/2" to 2".







Kits

Catalog No.	Model No.	Description	Weight lb.	Std. Pack
27423	V1	V1 Kit, ½", ¾", 1", 1¼" Ring	10¾	1
27428	V2	V2 Kit, ½", ¾", 1", 1¼", 1½", 2" Ring	13%	1
28043	C1	C1 Kit, 1/2", 3/4", 1", 11/4" Ring	81//8	1
28048	V1/C1	V1/C1 Combo Kit, 1/2", 3/4", 1", 11/4" Ring	121/8	1

Rings

Catalog No.	Model No.	Description	Weight lb.	Std. Pack
27998	V1/C1	½" Press Ring	1/2	1
28003	V1/C1	3/4" Press Ring	3/4	1
28008	V1/C1	1" Press Ring	1	1
28013	V1/C1	11/4" Press Ring	1	1
28018	V2	1½" Press Ring	1½	
28023	V2	2" Press Ring	2	

Actuators

Catalog No.	Model No.	Description	Weight lb.	Std. Pack
28033	V1	V1 Actuator for ½" — 1¼"	4 ⁷ /8	1
21873	V2	V2 Actuator 1½" – 2"	43/4	1
26163	C1	C1 Actuator for 1/2" — 11/4"	21//8	1

Accessories

Catalog No.	Model No.	Description	Weight lb.	Std. Pack
28028	V1/C1	Carrying Case #1 for ½" – 1¼"	3	1
28038	V2	Carrying Case #2 for 1½" – 2"	3	1

Manual PEX Crimp Tools

3/8" to 1" Capacity





ASTM F 1807 PEX Crimp Tools

The RIDGID ASTM F 1807 PEX Crimp Tools are ideal for making PEX tubing connections in potable water and radiant heating applications with ASTM F 1807 copper crimp rings. The handles are constructed of a durable, glass-filled polycarbonate making the tools over 20% lighter than traditional-style crimp tools, yet rugged enough for the toughest jobs. The E^{3®} (Expert Engineered Ergonomics) handles also provide increased comfort and make crimping effortless.

Specifications

- Available sizes: 3/8", 1/2", 5/8", 3/4", 1" and 1/2" & 3/4" combo tool.
- Compact tool length for access to tight spaces.
- Easily adjustable lock screw for tool calibration.
- All tools come standard with a go/no-go gauge.

Catalog No.	Description	Tool Length in.	Tool Weight lb.	Std. Pack		
23443	3/8" PEX Crimp Tool	141⁄4	23/4	1		
23448	½" PEX Crimp Tool	141⁄4	21/8	1		
23453	5%" PEX Crimp Tool	141/2	21//8	1		
23458	3/4" PEX Crimp Tool	14¾	21/8	1		
23463	1" PEX Crimp Tool	151⁄4	3	1		
23468	½" & ¾" PEX Combo Tool	15½	3½	1		
27898	½"-1" PEX Ring Cutter	9	5/8	1		
27903	ASTM F 2098 PEX Clamp Tool	11¼	13/8	1		
Accessories	Accessories					
23473	3/8"- 3/4" ASTM F 1807 gauge	_	1	1		
23478	1" ASTM F 1807 gauge	_	1	1		
29583	3/8"-1" Go/No Go gauge	_	1	1		







JOBMAX™ Fittings Bag



The RIDGID JOBMAX Fittings bag is ideal for transporting copper or PEX fittings to and from the jobsite.

- Thick, double-wall construction. Rated for all weather use.
- 6 large interior pockets made of durable Neoprene.
- PVC-coated interior that resists moisture.
- Tough, abrasion-resistant bottom for durability.
- 3 large exterior pockets for added storage.
- Fitting gauge clip for easy storage and retrieval.
- Heavy-duty drawstring closure for fast adjustment.
- Oversized, rubber grip handle for added comfort.

Catalog	Model	Description	Weight	Std.
No.	No.		lb.	Pack
24913	606	JOBMAX Fittings Bag	1	1



Press Frames for Water-Tight PPC® Corrugated Connectors



RIDGID Press Frames are designed to create a 360° axial press on PPC Corrugated Connectors when used in conjunction with the 100-B Compact Press Tool. These connectors are used to join from ½" to 15%" corrugated copper cables to create a watertight seal, minimizing corrosion and water invasion. RIDGID Press Frames for PPC Corrugated Connectors help to eliminate costly call-backs by providing a consistent, reliable connection every time. Line moisture is the #1 reason for dropped signals.

RIDGID Press Frames provide watertight connections for PPC corrugated connectors used with copper cables. They are ideal for joining a variety of cellular cables including:

- · Antenna Connections.
- House-to-Tower Transition Connections.
- Antenna Jumper Connections.
- · Control House Connections.

Catalog No.	Description	Weight lb.	Std. Pack
28458	1/4" RIDGID Press Frame - PPC	41/8	1
28423	1/2" RIDGID Press Frame - PPC	3	1
28478	Replacement Insert A, ½" for ½" frame	1	1
28483	Replacement Insert B, ½" for ½" frame	11/8	1
16993	100-B Press Tool, Case*, Batteries & Charger	18½	1
28463	7/6" RIDGID Press Frame - PPC	4	1
28468	11/4" RIDGID Press Frame – PPC	4	1
28473	15/8" RIDGID Press Frame – PPC	5	1

^{*}Case will not accomodate press frame.

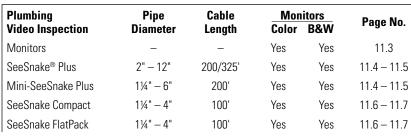
PPC is a registred trademark of John Mezzalingua Associates, Inc., a proven leader in connector technology for the telecommunications, broadcast and wireless industries.

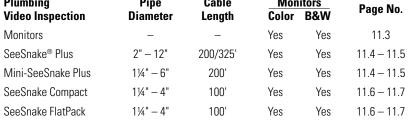


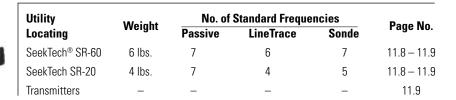
Inspection & Locating



- The RIDGID SeeSnake® video inspection system is rugged and maneuverable.
- The NaviTrack® II and the NaviTrack Scout® locators are the easiest to learn and use. Ideal for those primarily locating sondes.
- · SeekTech® transmitters and receivers provide confident locating of underground utilities.
- · Best-built, best-backed cameras and locators on the market.









Plumbing	Waight	Woight No. of Frequencies			
Locating	Weight	Passive LineTrace		Sonde	Page No.
NaviTrack® II	5 lbs.	1	6	7	11.10
NaviTrack Scout®	3 lbs.	1	3	4	11.11
Transmitters	-	-	_	_	11.12 – 11.13



Tight Quarters Video Inspection	Weight	Cable Length	Camera Diameter	Page No.
SeeSnake® micro™ Inspection Camera	1.2 lbs.	3-30 ft.	0.7 in.	11.14 – 11.15

Inspection & Locating

SeeSnake® Pipe Inspection... Builds Business and Profits

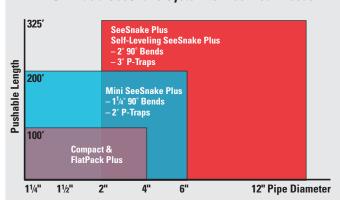
- · Sell additional services.
- Increase customer satisfaction.
- · Reduce service time.
- Increase profits.

More than 95% of SeeSnake System owners report increasing sales and profits soon after purchasing their system. It's easy to see why. Establish credibility with your customers as you show them the condition of the line. Sell more services such as water jetting, root cutting or excavation and repair. SeeSnake not only reduces call backs, but helps you satisfy your customer — and that adds up to more profits.

RIDGID Rugged

The SeeSnake line of pipe inspection equipment is designed and manufactured to endure the roughest conditions. You wouldn't expect anything less from a RIDGID tool. And, of course, they are approved by UL to CSA and UL standards.

RIDGID Has a SeeSnake System to Meet Your Needs





SeeSnake – See the Difference



Camera Head

The best performing camera is built tougher for unmatched durability, reliability and performance.

- Scratch-resistant, debris-shedding sapphire crystal lens.
- 100% stainless steel housing.
- High power adjustable LEDs behind a thick polymer plastic window.
- 410,000 CCD pixel resolution.
- Small camera diameter size (25 mm-35 mm).
- Pipe view (wide angle) technology to be able to clearly see the pipe wall.
- · Self-leveling option.
- Tested water tight to 330'.



Push Cables

This durable push cable, along with RIDGID's small camera heads, allows you to reach areas other camera systems cannot.

- · Fiberglass inner core.
- · Polypropylene coating.
- Integrated push cable with power/video signal.
- 512Hz FleXmitter included with all systems, see page 11.5.

Reels



Reels

- All SeeSnake drums are enclosed to avoid dirt getting on floors.
- Rust-free, dent-resistant drums.
- · Mercury-free slip rings.
- Distance counter included (except FlatPack models).
- All connectors are sturdy 3-pin waterproof universal connectors for added reliability.





Monitors

Color LCD



Catalog No.		Model	Weight		
115V	230V	iviodei	lb.	kg	
23668	23673	Color LCD Monitor + DVD	25	11.4	

- 10.4" high resolution, color LCD.
- DVD recorder with wireless remote.
- · Hands-free audio recording.
- Video and audio in/out connection.



	Catalog No. 115V 230V		Model	Weight		
			Wouei	lb.	kg	
	73172	73117	Color LCD Monitor + VCR	29½	13.4	
	69697	69702	B&W Monitor + VCR	37	16.8	
	64217	64267	B&W Monitor only	23	10.4	

- 10.4" high resolution color LCD or 9" black & white monitor with sunshield.
- Commercial grade VCR.
- · Hands-free audio recording.
- Video & audio In/Out connection.



Catalog No.		Madal	Weight		
115V	230V	Model	lb.	kg	
95532	95552	Color	5	2.3	
92712	93257	B&W	7	3.2	
95722	95727	AC Adapter	3/8	0.7	

- 5" black & white or 5" color LCD monitor with sunshield.
- Video In/Out connection.
- Flip Switch to turn image 180° (B&W only).
- Operates on AC or optional 14.4V battery.
- Splash-resistant case.

SeeSnake Plus Video Inspection System

2" to 12" Lines up to 325'



For the most reliable and rugged pipe inspection camera ... SeeSnake Plus, built tougher for unmatched durability, reliability and performance, including:

- 100% hardened stainless steel camera head spring assembly for increased durability.
- Inspects 2" lines and larger:
 - -2" 90s.
 - 3" P-Traps.
- Rugged, high-intensity lights for improved reliability.
- Flexible transmitter makes locating easier and is fully compatible with RIDGID NaviTrack II and NaviTrack Scout locators (see pages 11.10 and 11.11).
- Also available in an always upright, self-leveling option.
- · Compatible with any SeeSnake monitor.
- The best choice if you plan on purchasing only one camera.

Mini-SeeSnake Plus Video Inspection System

11/4" to 6" Lines up to 200'



At 25 pounds, the Mini-SeeSnake combines portability with a rugged camera used to inspect lines up to 200 feet. It is built tougher for unmatched durability, reliability and performance including:

- 100% hardened stainless steel camera head for increased durability.
- Improved push cable and smaller camera head to push farther through tighter spots.
- Inspects 11/4"-6" lines:
 - $-1\frac{1}{4}$ " 90s (black and white only).
 - 2" P-Traps.
- Rugged, high-intensity lights for improved visibility.
- Flexible transmitter makes locating easier and is fully compatible with RIDGID NaviTrack® II and NaviTrack Scout® (see pages 11.10 and 11.11).
- Choose Mini-SeeSnake when portability and maneuverability are crucial (multi-story buildings, roof tops, confined areas, etc.).

Single Components

	Catalog No.		Description
	115V	230V	Description
SeeSnake Plus Reels	14038 14043 14053 14058 13988 13998	14088 14093 14103 14108 13993 14003	200' B&W Reel 325' B&W Reel 200' Color Reel 325' Color Reel 200' Self-Leveling Reel 325' Self-Leveling Reel
Mini-SeeSnake Plus Reels	14048 14063	14098 14113	200' Mini B&W Reel 200' Mini Color Reel
Control Units	69697 64217 73172 23668	69702 64267 73177 23673	B&W Monitor + VCR B&W Monitor Color LCD Monitor + VCR Color LCD Monitor + DVD

SeeSnake Plus Systems

Voltage	Description	Black & White Systems			
voitage	Description	Monitor + VCR	Monitor	Monitor + VCR	Monitor + DVD
	200' Reel	69722	64232	73182	23878
115V	325' Reel	69732	64247	73187	23883
1157	200' Self-Leveling Reel	-	_	13958	23868
	325' Self-Leveling Reel	_	_	13978	23873
	200' Reel	69727	64562	73192	24463
0001/	325' Reel	69737	64577	73197	24468
230V	200' Self-Leveling Reel	-	_	13963	24453
	325' Self-Leveling Reel	_	_	13983	24458

Mini-SeeSnake Plus Systems

Valtana	Description	Black & Wh	ite Systems		
Voltage	Description	Monitor + VCR	Monitor	Monitor + VCR	Monitor + DVD
115V	200' Mini Reel	69752	67247	83652	23888
230V	200' Mini Reel	69757	67277	83657	24473

SeeSnake Plus Accessories

Mini-SeeSnake Plus Accessories

Catalog No.	Description	Catalog No.
14028	Color Self-Leveling Camera Head — NTSC (115V)	-
14033	Color Self-Leveling Camera Head — PAL (230V)	-
14078	Color Camera Head – NTSC (115V)	14083
14128	Color Camera Head – PAL (230V)	14133
14068	B&W Camera Head – EIA (115V)	14073
14118	B&W Camera Head – CCIR (230V)	14123
15323	SeeSnake Flexible In-Line Transmitter	15828
64607	200' SeeSnake Push Cable Assembly	67327
64612	325' Standard SeeSnake Push Cable Assembly	_
73142	SeeSnake Cable CountIR	73142
12248	18" System Cable with Dubbing Block	12248
64627	SeeSnake Innerconnect Cord – 33'/10'	67307
64492	Extended Handle for Standard SS Reel	_
64497	SS 3" Centering Star Guides, Pkg of 20	67312
_	B&W Mini Ball Guides, Pkg of 10	88392
_	Color Mini Ball Guides, Pkg of 6	97462
_	Mini Guide Hoop, Pkg of 4	93392
64502	SS 6" Centering Star Guides, Pkg of 10	-
97852	SS Ball Guides, Pkg of 10	_
93387	SS Guide Hoop, Pkg of 4	
97832	SS 3" Roller Dolly	_
17563	Color Spanner Wrench	17558
17563	B&W Spanner Wrench	17553

SeeSnake Compact and FlatPack Video Inspection System

11/4" to 4" Lines up to 100'



At 20 pounds, these systems offer fast setup for quick inspections. Their ultra portability makes these cameras excellent complements to your SeeSnake Plus.

Standard Equipment

Power Source:

- Battery port for use with optional 14.4V battery.
- AC/DC operation.

Monitor System:

- High-resolution monitor.
- Power on/off button with step function dimming.
- Splash-resistant case with built in sunshade.
- Video In/Out jack.
- · Power indicator light.

Camera System:

- Scratch-resistant, debris-shedding, flush-mounted sapphire lens.
- Integrated transmitter.
- Durable stainless steel camera head assembly and tapered spring assembly.

Reel

- 100' of push cable.
- Debris-capturing, rotating drum with mercury-free slip ring.
- Counter to display distance on monitor in feet and inches (Compact only).

Frame (Compact Only):

- Rust-resistant roll-cage frame.
- Skid-resistant feet for stability.

Color Compact Systems

Catalog No.		Description		Weight	
115V	230V	Description		kg	
95542	95562	Color Compact System w/ 2 Batteries & Charger	24	11.0	
95537	95557	Color Compact System	18	8.2	
95527	95547	Color Compact Reel Only	13	5.9	
95532	95552	Color Monitor Pack Only	5	2.3	

Black & White Compact Systems

Didok G	black & Willie Compact Cystems						
Catalo	og No.	Description		Weight			
115V	230V	Description	lb.	kg			
93502	93567	Compact System w/ 2 Batteries & Charger	26	11.8			
93507	93927	Compact System	20	9.0			
92707	93252	Compact Reel Only	13	5.9			
92712	93257	Monitor Pack Only	7	3.1			

Color FlatPack Systems

Catalo	og No.	Description	Weight	
115V	230V	Description		kg
95577	95592	Color FlatPack System w/ 2 Batteries & Charger	22	10.0
95572	95587	Color FlatPack System	16	7.8
95567	95582	Color FlatPack Reel Only	11	5.5
95532	95552	Color Monitor Pack Only	5	2.3

Black & White FlatPack Systems

Catalog No.		Description	Weight	
115V	230V	Description		kg
93572	93577	FlatPack System w/ 2 Batteries & 1 Charger	22	10.0
93262	93272	FlatPack System	18	8.6
93267	93277	FlatPack Reel Only	11	5.5
92712	93257	Monitor Pack Only	7	3.1











SeeSnake Compact & FlatPack Plus Accessories

Catalog No.	Description
14083	Color Camera Head – NTSC (115V)
14133	Color Camera Head – PAL (230V)
14073	B&W Camera Head – EIA (115V)
14123	B&W Camera Head – CCIR (230V)
15828	SeeSnake Flexible In-Line Transmitter
19638	100' B&W Compact Push Cable Assembly
20193	100' Color Compact Push Cable Assembly
73142	SeeSnake Cable CountIR
12248	18" System Cable with Dubbing Block
67307	SeeSnake Systems Cable – 10'
67312	Mini Centering Star Guides, Pkg of 20
88392	B&W Mini Ball Guides, Pkg of 10
97462	Color Mini Ball Guides, Pkg of 6
93392	Mini Guide Hoop, Pkg of 4
83407	14.4V Battery
83417	14.4V Battery Charger (115V)
84112	14.4V Battery Charger (230V)
17558	Color Spanner Wrench
17553	B&W Spanner Wrench
95722	115V AC Adapter
95727	230V AC Adapter
24703	Kickstand for SeeSnake Compact

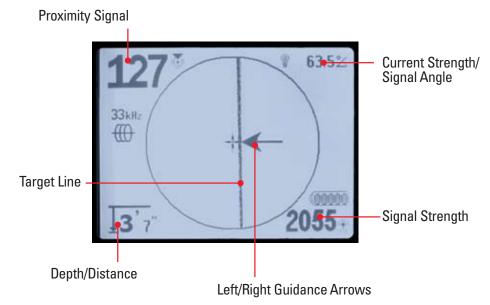
SeeSnake Specifications

General	Color SeeSnake Plus Self Leveling	Color SeeSnake Plus	Mini Color SeeSnake Plus	SeeSnake Plus	Mini-SeeSnake Plus
Line Capacity	2 to 12 in./5 to 30cm	2 to 12 in./5 to 30cm	1½ to 6 in./3.8 to 15 cm	2 to 12 in./5 to 30 cm	1¼ to 6 in./3.2 to 15 cm
Maximum Run	325 ft./99 m	325 ft./99 m	200 ft./61 m	325 ft./99 m	200 ft./61 m
Line Location Transmitter	512 Hz	512 Hz	512 Hz	512 Hz	512 Hz
Distance Measurement/Titling	Cable Count/IR	Cable Count/IR	Cable Count/IR	Cable Count/IR	Cable Count/IR
Mechanical					
Weight (Excl. Monitor)/200' (61m)	43 lbs./19.5 kg	43 lbs./19.5 kg	24.5 lbs/11.1 kg	43 lbs./19.5 kg	24.5 lbs./11.1 kg
Reel & Frame Diameter	32 x 14 x 30 in.	32 x 14 x 30 in.	20 x 11 x 23 in.	32 x 14 x 30 in.	20 x 11 x 23 in.
LxWxH	81 x 36 x 76 cm	81 x 36 x 76 cm	51 x 28 x 58 cm	81 x 36 x 76 cm	51 x 28 x 58 cm
Camera Diameter	1.365 in./35 mm	1.365 in./35 mm	1.18 in./30 mm	1.365 in./35 mm	0.99 in./25 mm
Camera Length	1.88 in./47 mm	1.88 in./45 mm	1.68 in./42 mm	1.82 in./45 mm	1.75 in./44 mm
Push Cable Diameter	0.44 in./11 mm	0.44 in./11 mm	0.31 in./8 mm	0.44 in./11 mm	0.31 in./8 mm
Environmental					
Operating Temperature	14°F to 122°F/-10°C to 50°C	14°F to 122°F/-10°C to 50°C	14°F to 122°F/-10°C to 50°C	14°F to 122°F/-10°C to 50°C	14°F to 122°F/-10°C to 50°C
Waterproof Depth	330 ft./100 m	330 ft./100 m	330 ft./100 m	330 ft./100 m	330 ft./100 m
Video					
Number Of Pixels	512(H) x 492(V)	512(H) x 492(V)	512(H) x 492(V)	512(H) x 492(V)	512(H) x 492(V)
Resolution (TV Lines)	270	400	270	400	400
Lighting	6 High Power Luxeon LEDs	6 High Power Luxeon LEDs	6 High Power Luxeon LEDs	6 High Power Luxeon LEDs	15 LEDs with variable intensity control

SeekTech® Utility Line Locators



The large displays on SeekTech Receivers give you the information you need when you need it to locate more with greater certainty.





The Mapping Display confirms a good locate signal and identifies distortion in congested areas using:

- Target Line Guides the operator down the line and shows changes in direction.
- Left-Right Guidance Arrows Points the operator to the target utility.
- Proximity Signal and Signal Strength Helps the operator center the locator closer to the target for more confident locates.

Other features include:

- Continual Depth Increases productivity by showing depth changes in real time.
- Omni-Seek® Increases accuracy and efficiency when searching in passive mode. Continuously searches passive power and radio bands to locate and avoid unknown metallic lines.
- User-Defined Frequencies RIDGID SeekTech Receivers can be configured with up to 30 user defined frequencies. The SeekTech SR-60 can be set to any frequency between 10 Hz and 490,000 Hz making it a universal receiver. The SeekTech SR-20 can be set to any frequency between 10 Hz and 35,000 Hz.

Comparison of Features

	SR-20	SR-60	Conventional
Simultrace™ (Simultaneous Sonde & Line Trace)	No	Yes	No
User Defined Frequencies (Competitor Frequencies)	Yes up to 35 K	Yes – All Available	Limited or No
Omni-Seek® (Simultaneous Multiple Line Trace)	Yes – All Passive Bands at Once	Yes – All Passive Bands at Once	No
Depth	Continual	Continual	Push Button or Triangulation
Current Measurement	Continual	Continual	Push Button & Average
Distortion Indication On One Screen	Yes	Yes	No
Stereo Guidance (Using Headphones)	No	Yes	No



SR-20:

For users wanting a lightweight yet rugged receiver that provides all the information needed for faster, more accurate locates:

- · Target line and guidance arrows quickly identify distortion.
- · Proximity signal and signal strength help work through difficult locates.

Choose the SR-20 and learn to locate with more confidence.



SR-20 Specifications

Active Line Trace Frequencies*128 Hz, 1 kHz, 8 kHz, 33 kHz.
Passive Power Trace50 Hz, 60 Hz, <4 kHz Broadband.
Passive Radio Trace4 kHz-15 kHz, 15 kHz-36 kHz.
Sonde Frequencies
8 kHz, 16 kHz, 33 kHz.
Power Source4 C-Cell Batteries.
Battery LifeApproximately 16 Hours.
Weight4 lbs. (2.0 kg).
Meets FCC Class A and EN 55022 Class A requirements.

SR-60:

For users wanting the fastest, easiest, most versatile receiver available:

- Can trace any frequency from 10 Hz to 490,000 Hz.
- Can trace energized lines and sondes (active beacons) simultaneously.
- Has all the ease of use and accuracy of the SR-20 but with ALL locatable frequencies.

Choose the SR-60 for fast confident locates even under tough locate conditions (poor conductors, poor soil conditions, poor grounding, etc.)



SR-60 Specifications

•	
Active Line Trace Frequencies**	128 Hz, 1 kHz, 33 kHz 93 kHz, 262 kHz.
Passive Power Trace	50 Hz, 60 Hz, <4 kHz Broadband.
Passive Radio Trace	4 kHz-15 kHz, 15 kHz-36 kHz.
Sonde Frequencies**	16 Hz. 512 Hz, 640 Hz, 850 Hz,
	8k, Hz16, kHz, 33 kHz.
Power Source	4 C-Cell Batteries.
Battery Life	Approximately 16 Hours.
Weight	6 lbs. (2.7 kg).
Meets FCC Class A and EN 55022	Class A requirements.

^{** 30} user definable frequencies can be set from 10 Hz to 490,000 Hz

Catalog	Description Weight Ib. kg	Decaription Weight	ight
No.		lb.	kg
21893	SeekTech SR-20 Line Locator	4.0	1.8
22163	SeekTech SR-60 Line Locator	6	2.7
21898	SeekTech ST-305 Transmitter (5 watts)	21/4	1.1
21903	SeekTech ST-510 Transmitter (10 watts)	9.0	4.0
26168	SeekTech ST-330 Transmitter (+5 watts*)	121/4	5.5
20973	SeekTech 4" Inductive Signal Clamp	11//8	0.8

RIDGID Line Transmitters

Accuracy & Confidence: RIDGID Transmitters deliver the power and performance you expect from RIDGID Locating Equipment. Combine your experience with the information provided by RIDGID Locating Equipment and you have tools that allow you to work through difficult traces with confidence.

	ST-305	ST-510	ST-330
Direct Connect Frequencies	4	5	All
Inductive Frequencies	3	3	2
Simultaneous Transmit 2 Line Frequencies	Y	N	N
Automatic Impedance Matching	Υ	Υ	Y
Digital Output Level Display	N	Υ	Y
Max Power Output	5W	10W	+5W*
Variable Power Setting	Low, Medium, High	Fully Adjustable	Low, Medium, High
Competitors' Frequencies	No	Factory Set	User Defined Frequencies
Battery Check	At Start-up	Continuous	Continuous
Weight	2½ lb. / 1.1 kg	4½ lb. / 2.0 kg	121/4 lb. / 5.5 kg
FCC & EN 55022 Requirement	Class A	Class B	Class A

^{*}When external power source is connected to the ST-33Q, or rechargeable batteries are used up to 10 Watts nominal output power can be generated in direct connect mode

^{* 30} user definable frequencies can be set from 10 Hz to 35,000 Hz

NaviTrack II Locator





Kit shown without optional accessories

The NaviTrack II locator navigates you to the location of underground pipes quickly and easily. It tracks energized lines with ease.

NaviTrack II Locates

- SeeSnake In-Line Transmitters.
- Remote Transmitters (Sondes).
- Energized Metallic Lines.

Performance

- Approach the transmitter from any direction for faster, more accurate locates.
- Maximize the signal and the locate is complete.
- Verify the locate using the large mapping display.
- Depth measurement is continuous.
- Depths of greater than 15' can be read.

NaviTrack II locators provide unprecedented ease of use. Due to NaviTrack II's advanced technology, training time is greatly reduced. You can learn to locate with a NaviTrack II unit in minutes.

Specifications

-	
 Weight 	5 lbs.
Power Source	4 C-Cell batteries.
Battery Life	Approximately 16 hours

Standard Frequencies

• Sonde	. 512 Hz.
Active Line Trace	. 128 Hz, 1 kHZ, 8 kHz, 33 kHz, 262 kHz
Passive AC Line Trace	. 60 Hz, 50 Hz.

Additional Frequencies

•	Sonde	16 Hz, 640 Hz, 850 Hz, 8 kHz, 16 kHz, 33 kH	łz.
•	Active Line Trace	65 kHz, 200 kHz.	

Standard Equipment

- Hard Plastic Carrying Case.
- Surface Markers and Clip.
- Instructional DVD.
- Operator's Manual.
- 4 C-Cell batteries.

For users that locate both remote transmitters and energized lines on a regular basis, NaviTrack II is the fastest, easiest, most versatile locator.

Catalog	Description		ight
No.	Description	lb.	kg
96967	NaviTrack II Locator	5	2.3
22388	NaviTrack II Carrying Case	9	4.0
12543	Marker Chips and Clip	_	_

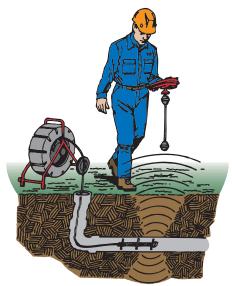
Meets FCC Class A and EN 55022 Class A requirements.





NaviTrack Scout Locator





The NaviTrack Scout locator is designed to solve the most demanding remote transmitter (sonde) locates using the same multi-directional locating technology as the full-featured NaviTrack II.

Easier Locates

The NaviTrack Scout multi-directional antenna technology sees the entire signal all of the time. Simply maximize the signal strength and you have found the target. No nulls or false peaks to complicate the locate.

Accuracy

This locator verifies the locate position using a micro-mapping display to mark distinctive poles in front of and behind the target, insuring an accurate locate.

Automatic Depth

Depth is automatically calculated and displayed when over the target.

Specifications

- Weight......3 lbs.
- Power Source......4 C-Cell batteries.
- Battery LifeApproximately 24 hours.

Standard Frequencies

- Sonde......16 Hz, 512 Hz, 640 Hz, 874 Hz and 33 kHz.
- Line Trace......128 Hz, 1 kHz, 8 kHz and 33 kHz.
- Passive AC Line Trace.....60 Hz, 50 Hz.

Standard Equipment

- Hard Plastic Carrying Case.
- · Surface Markers and Clip.
- Instructional DVD.
- Operator's Manual.
- · 4 C-Cell Batteries.

The NaviTrack Scout is ideal for users locating SeeSnake cameras and other sondes who occasionally need to locate energized lines.

Catalog	Description	Wei	ght
No.	Description	lb.	kg
19238	NaviTrack Scout Locator	3	1.4
20248	Scout Carrying Case	61/4	2.8
12543	Marker Chips and Clip	_	_

Meets FCC Class B and EN 55022 Class B requirements.

Transmitters

RIDGID offers a range of transmitters for different applications.

NaviTrack Transmitters generate a signal onto the buried cable one of three ways:

- Direct connection using connection cords.
- Induction with the optional inductive signal clamp.
- Induction from the transmitter.

NaviTrack Line Transmitter - 10 Watt

- For tracing buried cable, TV lines, phone lines and other metallic lines which can carry an electromagnetic signal.
- Fully variable 10 Watts of power output.
- Two 25' coil connectors.
- · Conductive ground rod.
- Inductive signal clamp (optional accessory).

Specifications

- 128 Hz, 1 kHz, 8 kHz, 33 kHz 10 Watt output power.
- 200 kHz, 262 kHz 1 Watt output power.
- Power Source: 8 D-Cell Batteries.
- Battery Life: Greater than 120 hours.
- Meets FCC Class B and EN 55022 Class B requirements.

Catalog	Description	Weight	
No.	Description	lb.	kg
14818	NaviTrack Line Transmitter	9	4.0
20503	Inductive Signal Clamp	2	0.9



NaviTrack Brick - 5 Watt

- For tracing buried cable, TV lines, phone lines and other metallic lines which can carry an electromagnetic signal.
- Fully variable 5 Watts of power output.
- · Lightweight, easy to carry.
- · Conductive ground rod.
- Two 10' connectors.

Specifications

- 1 kHz, 8 kHz, 33 kHz, 262 kHz.
- Power Source: Six C-Cell Batteries.
- Battery Life: Greater than 120 hours.
- Meets FCC Class A and EN 55022 Class A requirements.

Docarintian	Weight	
Description	lb.	kg
NaviTrack Brick Transmitter	21/2	1.1
Inductive Signal Clamp	2	0.9
		Description lb. NaviTrack Brick Transmitter 2½





Catalog	Catalog Description W		ight
No.	Description	lb.	kg
20503	Inductive Signal Clamp	2	0.9

Inductive Signal Clamp

- Allows users to apply a signal to a cable or pipe when direct connection is not possible.
- Compatible with all RIDGID transmitters.



Remote Transmitter

- Can be attached to a drain cleaning cable or a water jet hose to locate the Remote Transmitter in a line.
- Flashing LED indicates that sonde is transmitting.
- Meets FCC Class B and EN 55022 Class B requirements.

Catalog No.	Description
16728	Remote Transmitter, 512 – AAA
19263	Adapter for 5/8" & 3/4" Drum Machine Cables
19268	Adapter for 1/8" Sec. & 1/2" Drum Machine Cables
19273	Adapter for 5/8" Sec. & 3/8" Drum Machine Cables
19258	Adapter for 11/4" Sectional Cable



Catalog No.	Description
19793	Float Sondes (2), Plus Extra Battery

Floating Transmitter

- · Ideal for locating septic tanks.
- 512 Hz signal.
- Flashing LED indicates that sonde is transmitting.
- Flushable.
- Battery-powered.
- Meets FCC Class B and EN 55022 Class B requirements.



SeeSnake FleXmitter® Transmitter

- With a SeeSnake FleXmitter you can locate a camera in a line (now standard with all SeeSnake reels).
- If your SeeSnake camera isn't equipped with a transmitter, you can upgrade your camera with a FleXmitter transmitter.
- Meets FCC Class A and EN 55022 Class B requirements.

Catalog No.	Description
15323	SeeSnake FleXmitter in-line transmitter
15828	Mini-SeeSnake FleXmitter

SeeSnake® micro™ Inspection Camera



SEE IT.

Into, Under and Around Tight Spaces

The SeeSnake micro Inspection Camera detects and diagnoses the unreachable. Standard 3' cable (expandable to 30' with optional cable extensions), snakes into the tightest spots. A 2.4" high visibility color LCD display shows in detail what can't be seen.









The SeeSnake micro Inspection Camera includes a fully adjustable LED lit camera head to help see no matter how bright or dark the conditions are. The camera head is just 0.7" (17 mm) in diameter to fit in tight spots. A smaller, 0.37" (9.5 mm) diameter, camera head is available for detailed inspections in confined spaces.

SOLVE IT.™

Grab It, Hook It and Diagnose It

Three attachments that twist and lock on the camera head are included with every SeeSnake micro inspection camera to help solve tough problems.



Hook to retrieve objects



Magnet to pick up ferrous metal objects



Mirror to see around corners







Carrying case





• Lightweight, hand-held design — can be carried anywhere.

• Onboard accessories aid repairs and maintenance.

Specifications

•	Display	2.4" Color LCD (160 x 234 resolution).
•	Camera Diameter	0.7" (17 mm).
•	Lighting	2 Adjustable LEDs.
•	Cable Reach	3' (expandable to 30' w/optional extensions).
•	Waterproof	Camera & Cable to 10' (when properly assembled)
•	Power Source	4 AA Batteries (3 hrs. of continuous run-time).
•	Attachments	. Mirror, Hook & Magnet.
•	Weight	1.2 lbs (0.5 kg).

Catalan Na	December 1		Weight	
Catalog No.	Description	lb.	kg	
25643	SeeSnake micro Inspection Camera	11/4	0.5	
31128	3' Cable Extension	3/4	0.3	
31123	6' Cable Extension	13/8	0.6	
26663	Replacement Imager Head and Cable	3/4	0.3	
26668	Accessory Pack (Mirror, Hook, Magnet)	1/8	0.01	
30068	0.37" (9.5 mm) Diameter Camera Head	3/4	0.3	

3' or 6' Cable Extension Accessories

Can be combined to see objects up to 30' away.

0.37" (9.5 mm) Diameter Imager Head Accessory

- Nearly one-half the size of the standard camera head.
- Enables detailed inspections in very confined spaces.
- Bright LED lighting provides clear images.
- Sleek aluminum construction withstands demanding applications.



Standard 0.7" (17 mm) diameter imager head

Optional 0.37'' (9.5 mm) diameter imager head





Drain Cleaning

- Wide selection from a single source "The Right Machine for Every Job".
 A legacy of innovation and quality.

Туре	No. of Models	Length (ft.)	Page No.
Hand Tools			
Toilet Augers	4	3 - 6	12.4
Grappler Hook	1	6	12.4
Flat Sewer Tape	10	10 - 25	12.5
Cable Rust Inhibitor	2	_	12.5
Hand Spinners	3	25-35	12.6
Sink Machines			
Auto-Spin®	1	30	12.7
K-39/K-40	9	25 - 35	12.8-12.11
Drum Machines			
Up to 4" Capacity	12	50 - 100	12.12 - 12.15, 12.22
Up to 6" Capacity	3	50 - 200	12.16 - 12.17, 12.23
Up to 8" Capacity	6	25 - 200	12.18 - 12.19
Up to 10" Capacity	9	25 - 250	12.20 - 12.21
Sectional Machines			
Up to 4" Capacity	11	Up to 175	12.24 - 12.29
Up to 8" Capacity	6	Up to 200	12.30 - 12.31
Up to 10" Capacity	7	Up to 300	12.32 - 12.33
Rodder Machines			
Up to 24" Capacity	2	Up to 500	12.34 - 12.35
Water Jetting Machin	es		
Up to 4" Capacity	4	25 - 200	12.36 - 12.37
Up to 6" Capacity	2	50 - 200	12.38 – 12.39
Up to 8" Capacity	2	35 - 300	12.40 - 12.41
Pumps			
Sump	9	_	12.44
Utility	5	_	12.45
Sewage	3	_	12.46
Quick Connect	1	_	12.46

Hand Tools



	Page
Toilet Augers.	12.4
Grappler Hook.	12.4
Flat Sewer Tape.	12.5
Hand Spinners.	12.6

Sink Machines



Easily portable, compact and lightweight.

Line Size	Application	Model	Page
¾" to 2½"	Bathroom/lavatory/kitchen sinks, tub/shower, urinal and laundry tub drains.	Auto-Spin / K-39/K-40	12.7 - 12.11

Drum Machines







Delivers high torque to clear obstructions.

- Power and torque.
- Cable-saving features.
- Superior maneuverability.

Line Size	Application	Model	Page
1½" to 4"	Bathroom/lavatory/kitchen, sinks, tub/ shower, urinal, laundry tub, roof vents and indoor floor drains.	K-400 K-375R	12.12 12.22
3⁄4" to 4"	Bathroom/lavatory/kitchen, sinks, tub/ shower, urinal, laundry tub, roof vents and indoor floor drains.	K-3800	12.14
3" to 6"	House laterals/main drains/floor drains.	K-6200	12.16
3" to 8"	Laterals, main lines, commercial lines.	K-750 K-750R	12.18 12.23
3" to 10"	Laterals, main lines, commercial lines.	K-7500	12.20

Sectional Machines





High-speed cutting action to drill through obstructions.

- Power and speed with cable control.
- Lightweight and portable.

Line Size	Application	Model	Page
¾" to 4"	Bathroom/lavatory/kitchen sinks, tub/shower, urinal, laundry tub, roof vents and indoor floor drains.	K-50	12.24
11/4" to 4"	Sink lines, roof vents and floor drains.	K-60SP	12.26
11/4" to 4"	Sink lines and floor drains.	K-75	12.28
2" to 8"	Floor/secondary lines, laterals and main lines.	K-1500	12.30
2" to 10"	Laterals and main lines, commercial lines.	K-1500SP	12.32
2" to 10"	Laterals and main lines, commercial lines — gasoline engine powered for remote locations.	K-1500G	12.33

Rodder Machines



Designed specifically for larger diameter lines.

Line Size	Application	Model	Page
8" to 24"	Straight main work in municipalities, universities, institutions and industry.	K-1000	12.34

Water Jetters



Water jetting machines are ideal for clearing grease, sludge or soap-clogged lines.

Line Size	Application	Model	Page
1¼" to 4"	Sink lines/floor/secondary lines.	KJ-1350 KJ-1750	12.36
11/4" to 4"	Sink lines/floor/secondary lines/laterals.	KJ-2200	12.38
2" to 8"	Sink lines/floor/secondary lines/laterals/main lines.	KJ-3000	12.40

Pumps



High quality, performance and dependability.

Туре	Features	Page
Sump	Compact and high performance.	12.44
Utility	Electric and gas-powered models available.	12.45
Sewage	Residential and commercials models available.	12.46
Quick Connect	Ideal accessory for RIDGID wet/dry vacuums.	12.46

Toilet Augers



K-3/K-6 Toilet Augers

High quality tools in 3' and 6' lengths provide fast and safe clearing of toilet obstructions. Features include:

- Vinyl guard to protect porcelain.
- New durable, kink-resistant, ½" compression-wrapped Inner Core Cable.
- Large, ergonomically designed handles.
- Negotiate water-conserving toilets.
- Available in either drop head or bulb head models.

Catalog	Model	Description	Wei	ght	Standard	Replac.	
No.	No.	Description	lb.	kg	Pack	Cables	
59787	K-3	3' Toilet Auger w/Bulb Head	4½	1.9	6	-	
59792	K-3 DH	3' Toilet Auger w/Drop Head	4½	1.9	6	-	
59797	K-6	6' Toilet Auger w/Bulb Head	4½	1.9	6	60362	
59802	K-6 DH	6' Toilet Auger w/Drop Head	4½	1.9	6	60367	

Grappler Hook



K-5 Grappler Hook

- Retrieves rocks, tools, objects.
- Extends your reach 6' for even the deepest traps.

Catalan Na	Madal Na	Description	We	ight
Catalog No.	Model No.	Description	lb.	kg
59190	K-5	Grappler Hook	5	2.3

Sewer Tape



One-Piece Flat Sewer Tape

- Sizes and lengths for use on sewer and drain lines through 8" (200mm) in diameter and up to 100' (30m) in length.
- Carrier included with all except 25' model.
- All models have a hand grip and a spear point at one end and roller ball at the other.

				Descr	iption			Li	ne		
Catalog No.	Model No.	Wi	dth	Thick	Thickness Length		gth	Capacity		Weight	
140.	NO.	in.	mm	in.	mm	ft.	m	in.	mm	lb.	kg
One-Piec	One-Piece Tapes										
62530	E-2724					25	7.6	3/4	20	3	1.4
62535	E-2725	1/2	12	1/16	2	50	15.2	Thru	Thru	6	2.7
62540	E-2726					75	22.8	1½	40	9	4.1
62545	E-2727					100	30.4			12	5.4
62555	E-2729					50	15.2	2	50	8	3.6
			3/4	20	1/16	2			Thru	Thru	
62565	E-2731					100	30.4	4	100	18	8.2
62595	E-2737					50	15.2	4	100	16	7.3
			3/4	20	1/8	3			Thru	Thru	
62605	E-2739					100	30.4	6	150	34	15.4
62615	E-2741					50	15.2	4	100	22	10.0
			1	25	1/8	3			Thru	Thru	
62625	E-2743					100	30.4	8	200	45	20.4

Cable Rust Inhibitor



Cable Rust Inhibitor

RIDGID® Cable Rust Inhibitor is ideal for helping prevent the premature failure of cables caused by rust. Regular application of RIDGID Cable Rust Inhibitor significantly increases life of drain cleaning cables.

- Available in gallon bottles.
- Extends the life of cables.
- Ideal for cleaning and lubricating cables.
- Available in the U.S. only.

Catalog	Description	Wei	Std.	
No.	Bucompaidin	lb.	kg	Pack
59987	Cable Rust Inhibitor 1 GAL.	81/2	3.8	6

Hand Spinners



K-26 Hand Spinner

Ideal for users seeking excellent performance and value. Features include:

- Slip-resistant collet chuck that grips/releases cable with the flick-of-the-wrist.
- 5/16" x 25' hollow core cable with bulb head auger.
- Rotary molded plastic drum that won't rust or dent cleans easily.
- Open drum design that permits access to cable and allows application of Cable Rust Inhibitor (see pg. 12.5).

Catalog	Model	Description	Diameter x Length	mm x m	W	eight eight
No.	No.	Description	in. x ft.	IIIIII X III	lb.	kg
59812	K-26	Hand Spinner w/C1 Bulb Head Cable	5∕16" x 25'	8 x 7.6	6	2.7



K-25 Hand Spinner

The professional's choice for many years, the K-25 Hand Spinner offers premium quality. It's the ideal tool for the user who demands the best. Features include:

- Premium-quality, precision machined, 3-jaw chuck to firmly secure cable. Releases cable with the flick-of-the-wrist.
- Cast aluminum ribbed hand grip that won't slip in your hand.
- Rotary molded plastic drum that won't dent or rust cleans easily.
- Available in bulb head and drop head models. 5/16" x 25' vinyl-wrapped inner core, kink-resistant cables.
- Well balanced for comfortable operation.
- Capacity for 35' x 5/16".

Catalog	Description		Diameter x Length	mm x m	Weight	
No.	No.	Description	in. x ft.	111111 X 1111	lb.	kg
58890	K-25-BP	Hand Spinner with C-1IC Bulb Auger Cable	⁵⁄16" x 25'	8 x 7.6	8	3.6
58895	K-25-DH	Hand Spinner with C-2IC Drop Head Cable	5∕16" x 25'	8 x 7.6	8	3.6

Auto-Spin Sink Machine







- Two-Way AUTOFEED® advances and retrieves the drain cleaning cable with the simple push of a lever keeping you and the work area clean.
- Guide hose gives you the ability to get to those hard to reach areas.
 The guide hose completely contains the rotating cable to eliminate cleanup and protect fixtures.
- Rugged impact and rust-resistant housing.
- Handle with internal AUTOFEED holder so your Auto-Spin is easy to transport and store.
- Foot bulb controls the ON/OFF operation to free your hands for optimal control.
- 30' MAXCORE cable with an inner core for increased strength and longer life.

Specifications

- Motor Rating: 115V, single phase, AC, 1.1 Amp, 60Hz.
- Motor Operating Speed: 450 RPM.
- Cable: 1/4" x 30' MAXCORE.
- Line Capacity: 3/4" 11/2".
- Approved by CSA to CSA and UL Standards.

Catalog	Model	Description	Diameter x Length	mm x m	W	eight
No.	No.	Description	in. x ft.	111111 X 1111	lb.	kg
19148	Auto-Spin	Auto-Spin	1⁄4 x 30	6.35 x 9.14	10	4.5
21338	Auto-Spin	Replacement Cable	1/4 x 30	6.35 x 9.14	1/2	0.6



K-39 Sink Machine



K-39AF quickly opens clogged tub lines. Advance and retrieve cable without reversing motor.



The %" cable in the K-39AF-5 and K-39AF-7 extends machine's capacity to 2 ½" drain lines.

3/4" to 21/2" (19-64mm) Capacity

- Excellent for small line cleaning. Opens clogged lavatory, sink lines, urinals, and tub/shower drains.
 - $-\frac{5}{16}$ " cables best for $\frac{34}{10}$ " to $\frac{1}{2}$ " lines.
 - -%" cables best for $1\frac{1}{4}$ " to $2\frac{1}{2}$ " lines.
- Available in 2 styles: Manual & AUTOFEED.
 - Both have slide action chuck for quick locking/ releasing of cable.
 - Advanced two-way AUTOFEED keeps hands and work area clean – advances & retrieves cable with push of a lever.
- Lightweight, easy-to-use, no set-up required.
- Variable speed power unit rotates cable 0-450 RPM's.

- Two piece twist lock canister with interchangeable inner drum.
 - Makes cable changeout simple; easy to match the right cable to the job.
 - Inner drum prevents water leaks and greatly reduces cable flip-over inside the drum.
 - Drums won't rust or dent ever.
- Drum Capacity: 50' of 5/16" (15m/8mm) or 35' of 3/6" (11m/10mm).
- Approved by CSA to CSA and UL Standards (115V only).
- Includes RIDGID drain cleaning gloves and operator's manual.





K-39AF Machine with Slide Action Chuck and AUTOFEED			Order Information				Machine v		
Catal	og No.	Model	Description	We	eight	Model	Catalo	Catalog No.	
115V	230V	No.	Description	lb.	kg	No.	115V	230V	
21888	n.a.	K-39AF	Machine with: — C-1IC, 5/6" x 25' Inner Core Cable w/Inner Drum	11	5.0	K-39	68057	68097	
23508	n.a.	K-39AF-1	Machine with: - C-1IC, 5/16" x 25' Inner Core Cable w/Inner Drum - C-6429 Carrying Case	27	12.2	K-39-1	68062	68102	
23513	n.a.	K-39AF-5	Machine with: - C-11C, 5/16" x 25' Inner Core Cable w/Inner Drum - C-6, 3/6" x 35' Cable w/Inner Drum. - T-250, Five-Piece Tool Set for 3/6" Cable. - C-6429 Carrying Case	34	15.4	K-39-5	68067	68107	
23518	n.a.	K-39AF-7	Machine with: - C-1 C, 5/6" x 25' Inner Core Cable w/Inner Drum - C-6, 3/6" x 35' Cable w/Inner Drum - C-21, 5/6" x 50' Cable w/Inner Drum - T-250, Five-Piece Tool Set for 3/6" Cable - C-6429 Carrying Case	42	19.0	K-39-7	68072	68112	
n.a.	n.a.	-	Cordless Machine with: — 12-BP Battery Pack — 12-BC Battery Charger — C-1, 5½° x 25′ Cable w/Inner Drum	13	5.9	K-39B	68137	n.a.	
23523	n.a.	K-39B-AF-1	Cordless Machine with: - Two 12-BP Battery Packs - 12-BC Battery Charger - C-1,516" x 25' Cable w/Inner Drum - C-6429 Carrying Case	29	13.2	K-39B-1	68142	n.a.	

Inner Core Cables

(Models C-1IC, C-6IC, C-13IC, C-2IC, C-23IC)

- Vinyl-wrapped inner core to prevent core from rusting to spring enhances cable life.
- Compression wound for strength.
- Resists kinking; negotiates tough bends and traps.
- Provides good flexibility and cleaning power to the cable end.



K-39-5 shown above includes T-250 Tool Set:

- T-203 Bulb Auger.
- T-217 Drop Head Auger.
- T-205 "C" Cutter.
- A-13 Pin Key.
- T-210 Grease Cutter.



The drum front and inner drum makes changing cables quick and easy.

Cables

		Catalog	Model	Description	Wei	ght
		No.	No.	Description	lb.	kg
Ε		50647	S-1	15' with Bulb Auger	21/4	1.0
1/4" -6mm		50652	S-2	25' with Bulb Auger	31/2	1.6
1/4	Bulb Auger	50657	S-3	35' with Bulb Auger	5	2.2
		62225	C-1	25' (7.6m) with Bulb Auger	31/2	1.6
		56782	C-1IC	25' (7.6m) Inner Core w/Bulb Auger	4	1.8
	erroll (Million	89400	C-21	50' (15.2m) with Bulb Auger	7	3.2
5/16"-8mm	Bulb Auger	56792	C-13IC	35' (10.7m) with Bulb Auger	51/2	2.5
9- ,91/		62235	C-2	25' (7.6m) with Drop Head Auger	31/2	1.6
LO.	THE DIFFERENCES.	56787	C-2IC	25' (7.6m) Inner Core w/Drop Head Auger	4	1.8
	- AND THE REAL PROPERTY.	89405	C-22	50' (15.2m) with Drop Head Auger	7	3.2
	Drop Head	56797	C-23IC	35' (10.7m) with Drop Head Auger	51/2	2.5
		62245	C-4	25' (7.6m) with Male Coupling	41/2	2.0
		62250	C-5	35' (10.7m) with Bulb Auger	81/4	3.8
3%" -10mm		62260	C-6	35' (10.7m) with Male Coupling	81/4	3.8
ω ⁻ -		96037	C-6IC	35' (10.7m) with Male Coupling	81/2	4.0

Tools – Fits C-4. C-6 and C-6IC Cables

	Catalog No.	Model No.	Description	Replacement Blade(s)
587000000000000000000000000000000000000	62990	T-201	Straight Auger, 5" Long	-
	62995	T-202	Bulb Auger, 11/8" O.D.	-
essension of the day	63000	T-203	Bulb Auger, 7/8" O.D.	-
	55457	T-225	Retrieving Auger	-
	63065	T-217	Drop Head Auger, 4" Long	
==	54837	T-204	"C" Cutter 1"	54832
	63005	T-205	"C" Cutter 13/8"	97835
	63010	T-206	Funnel Auger, 3" Long	-
	63030	T-210	Grease Cutter, 1"	97905
	63035	T-211	Grease Cutter, 13/8"	97825
	63040	T-212	Grease Cutter, 13/4"	92850
	63045	T-213	4-Blade Cutter, 1"	97795
	63050	T-214	4-Blade Cutter, 1 ³ / ₈ "	97910
	63055	T-215	4-Blade Cutter, 1 ³ / ₄ "	97915
	52812	T-230H-D	"C" Cutter, 2"	92815
	52817	T-231	H-D "C" Cutter, 21/2"	92820
	52822	T-232	H-D "C" Cutter, 3"	92835
	48482	T-250	Tool Set includes: T-203, T-205, T-210, T217, A-13	=

Accessories

ICCG99011G9							
Catalog No.		Model	Description				
115V	230V	No.	Description				
18658	18658	12-BP	12V Cordless Battery Pack				
18663	18683	BC-12	12V Charger				
689	917		K-39 Inner-Drum				
89410		C-6429	Carrying Case				
76817			C-6 Cable Kit incl. Inner Drum, C-6 Cable Torque Arm, T-250 Tool Set				
98072			C-6IC Cable Kit including: Inner Drum, C-6IC Cable, Torque Arm, T-250 Tool Set				
23908 23913		A-39AF	Drum Front and AUTOFEED Assembly Replacement AUTOFEED Cartridge				
41937 70032		_	RIDGID Leather Drain Cleaning Gloves RIDGID PVC Drain Cleaning Gloves				

K-40 Sink Machine





For 3/4" to 21/2" (19 - 64 mm) Drain Lines

The K-40 Sink Machine is ideal for cleaning small secondary drain lines from 3/4" to 21/2". The K-40 sits flat on the floor or countertop and also tips onto its back for easy access to sink drains and bathtubs full of water. The K-40AF practically eliminates job site clean-up thanks to the patented Guide Hose two-way AUTOFEED accessory. It completely contains the rotating cable and eliminates any waste water splashing or spraying.

- ¼ HP induction motor quietly delivers enough torque to clear even the toughest blockages.
- Premium-quality, compression-wound inner core cable combines strength and flexibility to resist kinking.
- Two-piece "twist lock" drum housing will not dent or corrode and allows easy access to the inner drum and cable.
- Special inner drum design virtually eliminates cable flip-over inside the drum and drum leakage.
- Two-way AUTOFEED advances and retrieves the drain cleaning cable with a simple push of a lever keeping you and the work area clean.
- Approved by CSA to CSA and UL Standards (115V only).
- Includes RIDGID drain cleaning gloves and operator's manual.



Model K-40AF in vertical position

Machine Options

Catal	og No.	Model	Decement of the control of the contr	We	ight
115V	230V	No.	Description	lb.	kg
71722	71732	K-40AF	Machine with: — AUTOFEED — Guide Hose — Mounting Bracket — C-13(C-SB, 9/1s" x 35' Speed Bump Cable w/Inner Drum	33	15
78347	N/A	K-40AF-B	Battery Machine with: – (2) 14.4V Battery Packs – 14.4V Battery Charger – AUTOFEED – Guide Hose – Mounting Bracket – C-13IC-SB, 5/16" x 35' Speed Bump Cable w/Inner Drum	24	10.9
71702	71727	K-40	Machine with: — C-13IC, 5/16" x 35' Cable w/Inner Drum	29	13.2

The K-40 makes the job easier and keeps the work site clean.



Down the sink: Press the lever and the cable feeds into the drain. Unique Guide Hose and AUTOFEED combination keeps you right on top of the problem.



In the tub: Compact design allows easy access to hard-to-get-to areas like bathtubs and under-sink cabinets, while keeping the cable contained and away from all finished surfaces.

Cables

		Catalog	Model	Donasistics.	Wei	ight
		No.	No.	Description	lb.	kg
Ε		50647	S-1	15' with Bulb Auger	21/4	1.0
1/4" -6mm		50652	S-2	25' with Bulb Auger	31/2	1.6
1/4	Bulb Auger	50657	S-3	35' with Bulb Auger	5	2.2
		62225	C-1	25' (7.6m) with Bulb Auger	31/2	1.6
		56782	C-1IC	25' (7.6m) Inner Core w/Bulb Auger	4	1.8
		89400	C-21	50' (15.2m) with Bulb Auger	7	3.2
		56792	C-13IC	35' (10.7m) with Bulb Auger	5 ¹ / ₂	2.5
3m m		95847	C-13ICSB	35' (10.7m) Inner Core Speed Bump with	51/2	2.5
5/16" -8mm	Bulb Auger			Bulb Auger		
		62235	C-2	25' (7.6m) with Drop Head Auger	31/2	1.6
		56787	C-2IC	25' (7.6m) Inner Core w/Drop Head Auger	4	1.8
		89405	C-22	50' (15.2m) with Drop Head Auger	7	3.2
	Drop Head	56797	C-23IC	35' (10.7m) with Drop Head Auger	51/2	2.5
		62245	C-4	25' (7.6m) with Male Coupling	41/2	2.0
m m		62250	C-5	35' (10.7m) with Bulb Auger	81/4	3.8
3/8"- 10mm		62260	C-6	35' (10.7m) with Male Coupling	81/4	3.8
65		96037	C-6IC	35' (10.7m) with Male Coupling	81/2	4.0

Tools – Fits C-4, C-6 and C-6IC Cables

	Catalog No.	Model No.	Description	Replacement Blade(s)
58111111111111111111111111111111111111	62990	T-201	Straight Auger, 5" Long	-
	62995	T-202	Bulb Auger, 11/8" O.D.	-
oznamenti Militari	63000	T-203	Bulb Auger, 7/8" O.D.	
	55457	T-225	Retrieving Auger	-
	63065	T-217	Drop Head, 4" Long	-
==6	54837	T-204	"C" Cutter 1"	54832
	63005	T-205	"C" Cutter 1³/8"	97835
	63010	T-206	Funnel Auger, 3" Long	_
	63030	T-210	Grease Cutter, 1"	97905
	63035	T-211	Grease Cutter, 13/8"	97825
	63040	T-212	Grease Cutter, 13/4"	92850
	63045	T-213	4-Blade Cutter, 1"	97795
	63050	T-214	4-Blade Cutter, 1 ³ / ₈ "	97910
	63055	T-215	4-Blade Cutter, 13/4"	97915
	52812	T-230H-D	"C" Cutter, 2"	92815
	52817	T-231	H-D "C" Cutter, 21/2"	92820
	52822	T-232	H-D "C" Cutter, 3"	92825
	48482	T-250	Tool Set includes: T-203, T-205, T-210, T217, A-13	-

Accessories

7.0000001100							
Catalog No.	Model No.	Description					
26558	A-40G PF	AUTOFEED Assembly & Guide Hose					
		for K-40 includes mounting bracket					
23913	A-39/40PF	AUTOFEED Assembly for K-40					
71757	A-40G	Guide Hose					
72702	A-40B	Mounting Bracket					
83407	_	Battery					
83417	-	Charger					
71847	_	Torque Arm					
68917	-	Inner Drum					
76597	-	Top Roller Bearing Housing Assy.					
76817	_	C-6 Cable Kit including Inner Drum,					
		C-6 Cable, Torque Arm, T-250 Tool Set					
98072	-	C-6IC Cable Kit including Inner Drum,					
		C-6IC Cable, Torque Arm, T-250 Tool Set					
41937	_	RIDGID Leather Drain Cleaning Gloves					
70032	_	RIDGID PVC Drain Cleaning Gloves					

K-400 Drum Machine



K-400 Machine Only



For 11/2" to 4" (32-100 mm) Drain Lines

The K-400 offers several unique, user-friendly features to make the toughest drain cleaning jobs easier and hassle-free. Designed with a sleek profile, the K-400 is a great fit for drain cleaners, service plumbers, facility and institutional maintenance departments and property management companies.

- Integrated Transport Cart allows for easy movement to and from the job site.
 Heavy-duty, large wheels easily navigate over bumps and up stairs.
- Integrated Telescoping Handle provides high-handle height during transport.
 Handle locks in low position during drain cleaning operation or during transport to minimize space requirements.
- Cable Control System causes the drum to stop spinning when the blade becomes lodged in a blockage, limits potential for cable to flip-over in the drum and helps to indicate to operator when blockages are encountered.
- "Solid Core" Cable uses tough ¾" or ½" Integral Wound (IW) solid core cable that
 is rugged and kink resistant. Each size comes in several lengths and utilizes a
 variety of the RIDGID quick-connect cutters.
- AUTOFEED® offered as an accessory, this patented, automatic cable feed powers
 cable in and out of the drain. Reverse the direction of the AUTOFEED® and the cable
 feeds back into the drum.

Specifications

- Drum Capacity100' of 3/8" Diameter Cable or 75' of 1/2" Diameter Cable.
- Weight (Machine Only)....45 lbs. (20.4) kg.
- DimensionsLength 21" (24" with AUTOFEED), Height 23", Width 17".

Approved by CSA to CSA and UL Standards (115V only). All K-400 machines are supplied with RIDGID drain cleaning gloves, operator's manual and instructional video.



115V Machine Options

1134 141	Catalog Model Weight							
Catalog No.	Model No.	Description	lb.					
140.	NO.		ID.	kg				
26993	K-400 w/C-31 IW	K-400 Machine w/RIDGID Drain Cleaning Gloves & Std. Equipment — C-31 IW %" x 50' Solid Core (Integral Wound) Cable — T-200 Tool Set Includes: — T-202 Bulb Auger — T-205 "C" Cutter — T-211 Grease Cutter — A-13 Pin Key	60	27.2				
24853	K-400 w/C-32 IW	K-400 Machine w/RIDGID Drain Cleaning Gloves & Std. Equipment — C-32 IW 36" x 75' Solid Core (Integral Wound) Cable — T-260 Tool Set	68	31				
27008	K-400 AF w/C-32 IW	K-400 Machine w/RIDGID Drain Cleaning Gloves & Std. Equipment — C-32 IW 36" x 75' Solid Core (Integral Wound) Cable — T-260 Tool Set	79	36				
27003	K-400 w/C-44 IW	K-400 Machine w/RIDGID Drain Cleaning Gloves & Std. Equipment — C-44 IW ½" x 50' Solid Core (Integral Wound) Cable — T-260 Tool Kit	68	31				
26998	K-400 w/C-45 IW	K-400 Machine w/RIDGID Drain Cleaning Gloves & Std. Equipment — C-45 IW ½" x 75' Solid Core (Integral Wound) Cable — T-260 Tool Set	81	37				
27013	K-400 AF w/C-45 IW	K-400 Machine w/RIDGID Drain Cleaning Gloves & Std. Equipment — AUTOFEED — C-45 IW ½" x 75' Solid Core (Integral Wound) Cable	93	42				

IW (Integral Wound) Solid Core Cables

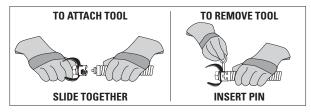
		Catalog	Model	Description	We	ight
		No.	No.	Boompaon	lb.	kg
3/8 "- 10mm	<u> </u>	87577 87582 87587 91037	C-31IW C-32IW C-33IW	50' (15m) IW Cable 75' (23m) IWCable 100' (30m) IW Cable Repair End for 3/6" IW Cable	18 26 34 0.5	8.2 11.8 15.4 0.2
1/2"- 12mm	<	87592 87597 91042	C-44IW C-45IW —	50' (15m) IW Cable 75' (23m) IW Cable Repair End for ½" IW Cable	27 39 0.6	12.2 17.7 0.3



Tools – Fits C-31IW, C-32IW, C-33IW, C-44IW and C-45IW

	Catalog No.	Model No.	Description	Replacement Blade(s)
	62990	T-201	Straight Auger, 5" Long	_
	62995 63000	T-202 T-203	Bulb Auger, 11/8" O.D. Bulb Auger 7/8" O.D.	
JE OMIIIA	63065	T-217	Drop Head, 4" Long	_
26	63005	T-205	"C" Cutter, 1%"	97835
	63010	T-206	Funnel Auger, 3" Long	_
	63015 63020 63025	T-207 T-208 T-209	Spiral Cutter, 1½" Spiral Cutter, 1½" Spiral Cutter, 2"	97840 97895 97900
	63030 63035 63040	T-210 T-211 T-212	Grease Cutter, 1" Grease Cutter, 1%" Grease Cutter, 13/4"	97905 97825 92850
	63045 63050 63055	T-213 T-214 T-215	4-Blade Cutter, 1" 4-Blade Cutter, 13/8" 4-Blade Cutter, 13/4"	97795 97910 97915
=	63060	T-216	Chain Knocker, 2"	98000
	49002	T-260	Tool Set (3%"- K-400) – T-202 Bulb Auger – T-205 "C" Cutter – T-211 Spade Cutter – A-13 Pin Key	_
	12128	T-240	Tool Set (3%"- K-400) – T-202 Bulb Auger – T-211 Spade Cutter – A-13 Pin Key	_

	Catalog	Model No.	Dannintin.	Weight	
	No.	wiodei No.	Description	lb.	kg
THE S	41937	-	RIDGID Drain Cleaning Gloves, Leather	1/2	0.2
	70032	=	RIDGID PVC Drain Cleaning Gloves	1/2	0.2
	59230	A-13	Pin Key for ¾" and ½"Cable	-	I
	26773	-	K-400 AUTOFEED Assembly	2	0.9
	27048	-	K-400 Drum Assembly	10	4.5
	92607	-	36" x 1/2" Tool Adaptor	1/2	0.2
	92682	-	36" x 1/2" Drop Head Adaptor	1/2	0.2
	92687	-	Coupling ½" Drop Head Tool	1/2	0.2
	26778	-	Guide Hose	2	0.9
	51317	C-9	Trap Leader	5	2.2
	59987	-	Cable Rust Inhibitor – 1 Gal.	81/2	3.9



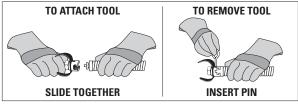


K-3800 Drum Machine









For C-4, C-6, C-6IC, C-7, C-8, C-9, C-10, C-11, C-12, C-14, C-15, C-31, C-32, C-33, C-44, C-45, and C-46 & all IW Cables.

For 3/4" to 4" (19-100mm) Drain Lines

- A powerful, easy to transport, versatile machine for cleaning indoor drains.
 Requires minimal set-up to clean sink lines, floor drains and roof vents.
- Rugged, corrosion-resistant molded cable drum won't dent or rust. The drum tilt adjusts for proper cable feed angle. Inner-drum guards against cable flipover inside the drum.
- Cable drum's quick-release and built-in hand-holds allow easy cable change and transport.
- Standard drum capacity is 100' of ¾" or 90' of ½" (30m/10mm or 27m/12mm) continuous length cable:
- -%" cable best for $1\frac{1}{2}$ " to 3" lines up to 100'.
- $-\frac{1}{2}$ " cable best for 2" to 4" lines up to 90'.
- Optional sink drum holds up to 50' of 5/16" or 1/4" (15m/8mm) cable.
 - Ideal for cleaning through 3/4" to 11/2" sink traps.
- Powerful 1/12 HP Universal Motor spins cable at 240 RPM. When cable
 hits blockage, motor gears down automatically to deliver more power and
 enhance operator control.
- Tools connect to cable in seconds.
- Approved by CSA to CSA and UL Standards (115V only).
- IW (Integral Wound) cables available. IW cables are slightly stiffer and more kink resistant. All IW cables use %" T-200 series cutters.
- Includes RIDGID PVC drain cleaning gloves and operator's manual.

Machine Options

Cata	log No.	Model	.	We	Weight		
115V	220-240V	No.	Description	lb.	kg		
53107	59462	K-3800	K-3800 Machine w/RIDGID Gloves	42	19.0		
53112	-	K-3800	K-3800 Machine w/Std. Equip.	65	29.5		
		w/C-31	– C-31, ³/8" x 50' Cable				
			– T-202 Bulb Auger				
			– T-205 "C" Cutter				
			– T-211 Spade Cutter				
			– A-13 Pin Key				
			 RIDGID PVC Drain Cleaning Gloves 				
53117	63827	K-3800	K-3800 Machine w/Std. Equip	71	32.2		
		w/C-32	– C-32, 3/8" x 75' Cable				
			– T-202 Bulb Auger				
			– T-205 "C" Cutter				
			– T-211 Spade Cutter				
			– A-13 Pin Key				
			 RIDGID PVC Drain Cleaning Gloves 				
53122	63822	K-3800	K-3800 Machine w/Std. Equip.	83	37.7		
		w/C-45	– C-45, 1/2" x 75' Cable				
			– T-102 Funnel Auger				
			– T-142 Knife Blade Cutter				
			– T-107 Spade Cutter				
			– A-12 Pin Key				
			 RIDGID PVC Drain Cleaning Gloves 				
53127	-	K-3800	K-3800 Machine w/Std. Equip.	91	41.3		
		w/C-46	C-46, ¹/₂" x 90' Cable				
			– T-102 Funnel Auger				
			– T-142 Knife Blade Cutter				
			– T-107 Spade Cutter				
			– A-12 Pin Key				
1			 RIDGID PVC Drain Cleaning Gloves 				

Inner Core (IC) Cables -

Good flexibility and more cleaning power to the cable end.

		Catalog	Model		Wei	ight
		No.	No.	Description	lb.	kg
3/8"- 10mm	40000	37842 37847 37852 51752	C-31 C-32 C-33 T-122	50' (15m) IC Cable 75' (23m) IC Cable 100' (30m) IC Cable Repair End	18 26 34 1	8.2 11.8 15.4 0.5
1/2 "- 12mm	(]	37857 37862 37867 55467 59917	C-44 C-45 C-45HC C-46 T-121	50' (15m) IC Cable 75' (23m) IC Cable 75' (23m) Hollow Core Cable 90' (28m) IC Cable Repair End	27 39 38 47 ³ ⁄ ₄	12.2 17.7 17.2 21.2 0.8

Integral Wound (IW) Cables –
Wound tighter on the inner core creating a solid assembly.

		Catalog	Model	Description	We	ight
		No.	No.	Description	lb.	kg
3/8 "-10mm		87577	C-31IW	50' (15m) IW Cable	18	8.2
<u>-</u> F		87582	C-32IW	75' (23m) IW Cable	26	11.8
3%		87587	C-33IW	100' (30m) IW Cable	34	15.4
		91037	_	Repair End for IW Cable	1/2	0.2
12mm		87592	C-44IW	50' (15m) IW Cable	18	8.2
	DESCRIPTION OF THE PROPERTY OF	87597	C-45IW	75' (23m) IW Cable	26	11.8
1/2"-		91042	-	Repair End for 1/2" IW Cable	3/4	0.3

Sink Drum Cables

		Catalog	Model	Description	Wei	ght
		No.	No.		lb.	kg
1/4"- 6mm	Funnel	50652 50657	S-2 S-3	25' (7.6m) w/Funnel Auger 35' (10.7m) w/Funnel Auger	3 ¹ / ₂ 5	1.6 2.2
	Bulb Auger	56782 56792	C-1IC C-13IC	25' (7.6m) Inner Core w/Bulb Auger 35' (10.7m) with Bulb Auger	4 5¹/₂	1.8 2.5
- 91/5	Drop Head	56787 56797	C-2IC C-23IC	25' (7.6m) Inner Core w/Drop Head Auger 35' (10.7m) with Drop Head Auger	4 5 ¹ / ₂	1.8 2.5

Accessories

	Catalog	Model	Description	We	ight
	No.	No.	Description	lb.	kg
	55002 55007 55012	A-380 A-381 A-381-A	Standard Drum for 3/8", 1/2" Cable Sink Drum for 5/16", 1/4" Cable Sink Drum with 25' x 5/16" IC Cable w/Bulb Head	12½ 12½ 16½	5.6 5.6 7.5
W.S	41937	_	RIDGID Drain Cleaning Gloves, Leather	1/2	0.2
	70032	-	RIDGID Drain Cleaning Gloves, PVC	1/2	0.2
	59230 59225	A-13 A-12	Pin Key For 3/8" Cable Pin Key For 1/2" Cable	1/2 1/2	0.2 0.2
	55017	-	Transport Cart	18	8.2
	60087	A3800 PF.	AUTOFEED® Assembly	7%	3.3
	62412	_	Front Guide Hose Adaptor Kit	3½	1.6
	59987	_	Cable Rust Inhibitor 1 Gal.	8½	6

Tools Fit 3/8" IC, 3/8" IW and 1/2" IW Cables

C-31,C-32,C-33,C-31IW,C-32IW,C-33IW,C-44IW and C-45IW

	Catalog No.	Model No.	Description	Replacement Blade(s)
	62990 62995 63000	T-201 T-202 T-203	Straight Auger, 5" Long Bulb Auger, 11/8" O.D. Bulb Auger 7/8" O.D.	
	63065	T-217	Drop Head, 4" Long	_
3	54837 63005	T-204 T-205	"C" Cutter, 1" "C" Cutter, 1³/8"	54832 97835
	63010	T-206	Funnel Auger, 3" Long	_
FA	63015 63020 63025	T-207 T-208 T-209	Spiral Cutter, 11/4" Spiral Cutter, 11/2" Spiral Cutter, 2"	97840 97895 97900
	63030 63035 63040	T-210 T-211 T-212	Grease Cutter, 1" Grease Cutter, 13/6" Grease Cutter, 13/4"	97905 97825 92850
3	63045 63050 63055	T-213 T-214 T-215	4-Blade Cutter, 1" 4-Blade Cutter, 13/8" 4-Blade Cutter, 13/4"	97795 97910 97915
50)	63060	T-216	Chain Knocker, 2"	98000
	49002	T-260	Tool Set: T-202 Bulb Auger, T-205 "C" Cutter, T-211 Spade Cutter, A-13 Pin Key	_
	12128	T-240	Tool Set (³/₅"): T-202 Bulb Auger, T-211 Spade Cutter, A-13 Pin Key	_

Tools Fit 1/2" IC Cables

C-44, C-45 and C-46

	Catalog No.	Model No.	Description	Replacement Blade(s)
	62850	T-101	Straight Auger	
	62855	T-102	Funnel Auger	-
Œ	62865	T-104	"H" Cutter, 2¹/2"	97800
	62870	T-105	Grease Cutter, 21/2"	97920
	62875	T-106	Grease Cutter, 31/2"	97925
(B)	62880	T-107	Spade Cutter, 13/4"	92850
0.70	62930	T-112	4-Blade Cutter, 13/4"	97915
	62935	T-113	4-Blade Cutter, 3"	97940
Z ())	62940	T-114	Chain Knocker	97985
	54842 54852	T-141 T-142	Knife Blade Cutter, 1 ¹ / ₂ " Knife Blade Cutter, 2 ¹ / ₂ "	54847 97800
	54992	T-270	Tool Set: T-102 Funnel Auger, T-142 Knife Blade Cutter, T-107 Spade Cutter, A-12 Pin Key	_
	92687		Drop Head Tool Adaptor 1/2"	_

K-6200 Drum Machine





For 3" to 6" (75-150mm) Drain/Sewer Lines

Superior maneuverability and a small footprint allow easy access to tight work areas. The K-6200 comes equipped with either IC (Inner Core) cable or IW (Integral Wound) cable.

Recommend %" cable for 3" to 6" drain lines up to 200'.

- Patented Cable Control System Causes the drum to slow down when the blade becomes lodged in a blockage. Limits potential for cable flip-over inside the drum.
- **Direct Drive Design** 1/10 HP universal motor and gearbox bear down as torque builds. Motor sound lets the operator know when blockage is encountered. Drum requires no adjustments to stay aligned and tight on drive shaft.
- Easy Maintenance Construction Separate drum and machine in seconds. Inner drum and guide tube remove easily to maintain or replace cable.
- Designed Durable and Stable Low center of gravity frame design and custom kickstand keep machine firmly anchored during operation. Rugged, corrosion-resistant polyethylene drum is rust and dent proof. Double tubular frame is lightweight and designed for extra strength.
- AUTOFEED and Standard Accessories Powerful feed mechanism is built to last and is easily maintained. AUTOFEED, toolbox and selection of cutters included in all models.
- Approved by CSA to CSA and UL Standards (115V only).
- Includes RIDGID PVC drain cleaning gloves and operator's manual.

Specifications

Line Capacity	3"- 6" Lines, Up to 200 feet.
Drum Capacity	100' of %" Cable.
Motor:	
Type	115V/60 Hz, Reversible, Universal AC Motor
Rating	4/10 HP, 285 RPM.
Amps	5.6.
Weight (Machine & 100 ft. of Cal	ble) 180 lbs.
Length	29½".
Height	43½" (Max).
Width	183/4"

Machine Options - Power Feed

Catalog No.	Model No.	Description		eight
115V		•	lb.	kg
95737	K-6200	Machine w/5/8" Pigtail & Standard Accessories	98	44.54
95732	K-6200 w/C-24	Machine, Standard Accessories and 56" x 100' Inner Core Cable	180	81.81
93557	K-6200 w/C-24-IW	Machine, Standard Accessories and 56" x 100' IW Solid Core Cable	180	81.81

Cables and Flexible Leaders

- Inner Core (IC) cables provide good flexibility and more cleaning power to the cable end.
- Integral Wound (IW) cables are wound tighter on the inner core creating a solid assembly.

		Catalog	Model	Description	We	ight
		No.	No.	Description	lb.	kg
	(IC)	92460 92465 92470 43647	C-25 C-26 C-27 C-24	25' IC Cable (7.6m) 50' IC Cable (15.2m) 75' IC Cable (22.9m) 100' IC Cable (30.5m)	24 43 63 84	10.9 19.5 28.6 38.1
mmi	(HC)	32737 58192	C-27HC C-24HC	75' Hollow Core (22.9m) 100' Hollow Core (30.5m)	52¾ 70½	23.9 32.0
5/8"-16mm		95762 95757 95752 95747	C-25 IW C-26 IW C-21 IW C-24 IW	25' IW Cable (7.6m) 50' IW Cable (15.2m) 75' IW Cable (22.9m) 100' IW Cable (30.5m)	24 43 63 84	10.9 19.5 28.6 38.1
	**************************************	92555	T-458	5⁄8" x 2' Leader	2	0.85
	Thomas Thomas The	44122	_	%" Pigtail	21/2	1.13



	Catalog	Model	D	Replac	ement
	No.	No.	Description	Blade(s)	Holder
	92485	T-403	P-Trap Cutter, 3"	92835	92900
	92490	T-404	P-Trap Cutter, 3½"	92840	92900
al D	92495	T-406	Spear Blade	92850	92915
	92500	T-407	Retrieving Auger	-	-
	92505	T-408	Sawtooth Cutter	92890	92915
	51762	T-409	H-D Bulb Auger	-	-
	92510 92515 92520 92525 92530	T-411 T-412 T-413 T-414 T-416	Double Cutter, 2" Double Cutter, 2½" Double Cutter, 3" Double Cutter, 4" Double Cutter, 6"	92815 92820 92825 92830 92855	92905 92905 92910 92910 92910
E	92535 92540 92545 92550	T-432 T-433 T-434 T-436	3-Blade Cutter, 2" 3-Blade Cutter, 3" 3-Blade Cutter, 4" 3-Blade Cutter, 6"	92860 92865 92870 92875	92895 92895 92895 92895

Optional Accessories

Catalog No.	Description
95812	AUTOFEED – K-6200
49032	Front Guide Hose Assembly, 3 feet
95797	Lifting Hook – K-6200
95792	Swivel Loading Wheel Assembly
95802	K-6200 Drum Assy. w/%" Pigtail
95807	K-3800 Drum Assy. w/6200 Adapters
95822	K-3800 to K-6200 Adapter Kit Only
59987	Cable Rust Inhibitor 1 Gal.
91047	Female Repair Coupling
70032	RIDGID PVC Drain Cleaning Gloves



Standard equipment included in all machine options

Standard Accessories

- T-411 2" Double Cutter
- T-413 3" Double Cutter
- T-414 4" Double Cutter
- T-406 Spear Blade
- Pair Reclining Legs
- RIDGID Drain Cleaning Gloves
- T-458 5/8" x 2' Trap Leader (Not Shown)

K-750 Drum Machine



Model K-750



Cable advance



Cable retract



K-750 with C-100 shown above

For 3" to 8" (75-200mm) Drain/Sewer Lines

- Powerful, self-contained machine ideal for lateral lines. Easy to transport, minimal set-up - attach a tool and go.
- AUTOFEED advances, retrieves cable with a push of a lever, up to 20' per minute.
- Versatile AUTOFEED adjusts for either 5%" or 34" cable with a twist of a screwdriver.
 - Recommend %" cable for 3" to 6" drain lines up to 150' (75-150mm, 48m).
 - Recommend 3/4" cable for 4" to 8" drain lines up to 200' (100-250mm, 62m).
- · Cable spins at 200 RPM.
- Tough, corrosion-resistant cable drum withstands harsh treatment and abuse. It will not dent or corrode and cleans easily.
- Drum holds 100 feet of $\frac{3}{4}$ " (30m, 19mm) or 125 feet of $\frac{5}{8}$ " (35m, 16mm) cable and is designed for quick, easy removal.
- Well-balanced design gives machine a lightweight "feel." Transport wheels ease loading into service truck/van.
- Equipped with 1/2 HP induction motor.
- Approved by CSA to CSA and UL Standards (115V only).
- Includes RIDGID PVC drain cleaning gloves and operator's manual.

Standard ¾" Tool Set Includes:

- T-406 Spear Blade Cutter.
- T-407 Retrieving Auger.
- T-413 3" Cutter.
- T-414 4" Cutter.
- T-411 2" Cutter.

Standard %" Tool Set Includes:

- T-403 3" P-Trap Cutter.
- T-406 Spear Blade Cutter.
- T-413 3" Cutter.
- T-407 Retrieving Auger.
- T-411 2" Cutter.

Machine Ontions - AUTOFEED

Catalo	og No.	Model		We	ight
115V-60Hz	230V-50Hz	No.	Description	lb.	kg
41977	44202	K-750	Machine with RIDGID Drain Cleaning Gloves, AUTOFEED - 3/4" Pigtail	114	51.9
51402	51407	K-750	Machine with RIDGID Drain Cleaning Gloves, AUTOFEED - %" Pigtail	113	51.3
42002	44207	K-750 w/C-75	Machine with RIDGID Drain Cleaning Gloves, AUTOFEED, Standard ¾" Tool Set, and: C-75, 75' x ¾" Cable	206	93.6
42007	44212	K-750	Machine with RIDGID Drain Cleaning Gloves, w/C-100 AUTOFEED, Standard 34 " Tool Set, and: C-100, 100' x 34 " Cable	234	106.3
42012	44217	K-750 w/C-27	Machine with RIDGID Drain Cleaning Gloves, AUTOFEED, Standard %" Tool Set, and: C-27, 75' x %" Cable	182	82.7
47047	_	K-750 w/C-24	Machine with RIDGID Drain Cleaning Gloves, AUTOFEED, Standard $\%$ * Tool Set, and: C-24, 100' x $\%$ * Cable		

Machine Options - Manual Feed

51342 — K-750 Machine with RIDGID Drain Cleaning Gloves 104	47.3	104	Machine with RIDGID Drain Cleaning Gloves	K-750	_	51342	
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Inner Core (IC) Cables

Good flexibility and more cleaning power to the cable end.

	Catalog	Model	Description	Wei	ight
	No.	No.	Description	lb.	kg
5/8" - 16mm	92460 92465 92470 43647	C-25 C-26 C-27 C-24	25' IC Cable (7.6m) 50' IC Cable (15.2m) 75' IC Cable (22.9m) 100' IC Cable (30.5m)	24 43 63 84	10.9 19.5 28.6 38.1
3/4"- 20mm	92475 92480 41212 41697	C-28 C-29 C-75 C-100	25' IC Cable (7.6m) 50' IC Cable (15,2m) 75' IC Cable (22.9m) 100' IC Cable (30.5m)	30 60 93 122	13.6 27.2 42.5 55.3

Hollow Core Cables

		Catalog	Model	Description	Wei	ght
		No.	No.	Bescription	lb.	kg
5/8" - 16mm	cymalicanian and a company and a company and a company and a company and a company and a company and a company	32737 58192	C-27HC C-24HC	75' HC Cable (22.9m) 100' HC Cable (30.5m)	52¾ 70½	23.9 32.1
3/4"- 20mm	ÇALLARININ KURUL Zarin 18annın da	47427 47432	C-75HC C-100HC	75' HC Cable (22.9m) 100' HC Cable (30.5m)	75 100	34.0 45.5

Leaders and Pig Tails

	Catalog	Model	Description	Weight	
	No.	No.	Description	lb.	kg
********/*******	92555	T-458	56" x 2' Leader	2	0.85
	92560	T-468	34" x 2' Leader	2¾	1.25
44122 —			5⁄6" Pigtail, 4½" Long	2½	1.13
44117 —			3⁄4" Pigtail, 6" Long	3½	1.59

Accessories

	Catalog	Model		We	ight
	No.	No.	Description	lb.	kg
	43637 41982	A-7558 A-7534	Drum Assembly w/5%" Pigtail Drum Assembly w/34" Pigtail	33 37½	15 17.0
j	43642 41992	2 C-100IC Kit w/Tools, 3/4" x 100'		8	3.5
	49032		Front Guide Hose Assembly	3	1.3
	46015	E-453	Allen Wrench	_	_
	41937 70032		RIDGID Leather Drain Cleaning Gloves RIDGID PVC Drain Cleaning Gloves	1/2 1/2	0.2 0.2
	59360	A-3	Tool Box	5	2.3
	59987		Cable Rust Inhibitor 1 GAL.	81/2	3.9
				OZ.	g
MAA MAA	31487	A-7570	%" Repair Splicer	1½	43
antian	92805 92810	A-6582 A-6583	5/8" Male Coupling 5/8" Female Coupling	1 2	28 57
	31492 92880 92885	A-7571 B-6840 B-6841	34" Repair Splicer 34" Male Coupling 34" Female Coupling	2 1 2	57 28 57

Tools and Replacement Blades – Fit 5%" and 3%" Cables

C-24, C-25, C-26, C-27, C-28, C-29, C-75, C-100, C-27HC, C-24HC, C-75HC and C-100HC

	Catalog	Model		Replac	cement
	No.	No.	Description	Blade(s)	Holder*
	92485 92490	T-403 T-404	P-Trap Cutter, 3" P-Trap Cutter, 31/2"	92835 92840	92900 92900
EL D	92495	T-406	Spear Blade, 13/4"	92850	92915
	92500	T-407	Retrieving Auger, 29/16"	_	_
	92505	T-408	Sawtooth Cutter, 3"	92890	92915
	51762	T-409	H-D Bulb Auger, 13/4"	_	_
	92510 92515 92520 92525 92530	T-411 T-412 T-413 T-414 T-416	Double Cutter, 2" Double Cutter, 2''/2" Double Cutter, 3" Double Cutter, 4" Double Cutter, 6"	92815 92820 92825 92830 92855	92905 92905 92910 92910 92910
	92535 92540 92545 92550	T-432 T-433 T-434 T-436	3-Blade Cutter, 2" 3-Blade Cutter, 3" 3-Blade Cutter, 4" 3-Blade Cutter, 6"	92860 92865 92870 92875	92895 92895 92895 92895

QUICK-CONNECT CABLE & TOOLS

Rotate pin one-half turn in either direction to quickly add cable or tools:

Hashmark Hashmark

Screwdriver Slot (Locked Posi

LOCKED
Hashmark "CLOSED" aligned
with "L" stamped on coupling.

(Locked Position)

UNLOCKED

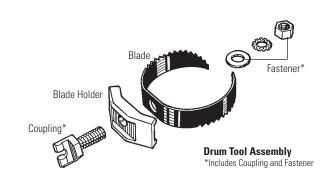
Hashmark "OPEN" aligned opposite
"L" stamped on coupling.

Screwdriver Slot

(Unlocked Position)

Coupling features stainless steel pin and spring; eliminates need for punches, stands, or expansion pins.

For C-24, C-25, C-26, C-27, C-28, C-29, C-75, C-100, C-27HC, C-24HC, C-75HC, and C-100HC.

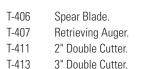


K-7500 Drum Machine



Model K-7500

Standard Accessories



T-414B 4" Double Cutter - (Blade only).
T-416B 6" Double Cutter - (Blade only).

T-408 Sawtooth Cutter. T-403 3" P-Trap Cutter. T-468 34" Flexible Leader.

Tool Box, Hex Key, RIDGID Drain Cleaning Gloves.

For %" machine packages (Catalog Nos. 61102 and 61112), the T-468 Leader is replaced with the T-458 Leader and the 6" Double Cutter Blade is eliminated.

For 3" to 10" (75-250mm) Lines

- The performance, cable control, durability, and maneuverability demanded by professional users. Ideal for any tough job, such as roots – up to 250'.
 - Recommend %" cable for 3" to 6" drain lines up to 250' (75-150mm, 76m).
 - Recommend 3/4" cable for 4" to 10" drain lines up to 250' (100-250mm, 76m).
- Cable spins at 200 RPM.
- Powerful, yet quiet, %0 HP universal motor and gearbox bear down as cutter engages tough obstructions.
 - Provides audible and visual signals to operator.
- Inner-drum and ball bearing distributor arm work with motor/gearbox system to reduce chance of cable flip-over inside the drum.
- Main and inner drums won't rust, split or dent ever, and clean easily for professional appearance. Main drum holds up to 100' of ¾" cable or 125' of ½" cable.
- Powerful AUTOFEED mechanism has grease fittings and an open design for easy maintenance; advances and retrieves cable up to 22' per minute.
- Patented two position stair climber eases transport and loading eliminates extra cost for loading wheels.
- Narrow profile allows machine to fit through bathroom doors.
- Handles adjust to desired height to ensure balanced transport.
- Approved by CSA to CSA and UL Standards (115V only).
- Includes RIDGID PVC drain cleaning gloves and operator's manual.

Machine Options - Power Feed

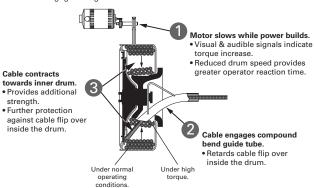
Catal	Catalog No.		Description	We	ight
115V	220-240V	No.	Description	lb.	kg
59562	61542	K-7500	Machine w/¾" Pigtail and Standard Accessories	150	68.2
61102	61522	K-7500	Machine w/%" Pigtail and Standard Accessories	149	67.8
61112	-	K-7500 w/C-24	Machine, Standard Accessories, and 5%" x 100' Inner Core Cable.	233	105.9
60062	-	K-7500 w/C-75	Machine, Standard Accessories, and ³ / ₄ " x 75' Inner Core Cable.	244	110.9
60052	_	K-7500 C-100	Machine, Standard Accessories, and 3/4" x 100' Inner Core Cable.	272	123.7
60057	ı	K-7500 C-100HC	Machine, Standard Accessories, and 3/4" x 100' Hollow Core Cable.	249	113.2

Machine Options – Manual Feed

Cata	Catalog No.		Description	We	ight
115V	220-240V	No.	Description	lb.	kg
59587	-	K-7500	Machine and Standard Accessories	140	68.2
60067	-	K-7500 C-100	Machine, Standard Accessories, and 3/4" x 100' Inner Core Cable.	262	118.9
60072	1	K-7500 C-100HC	Machine, Standard Accessories, and 3/4" x 100' Hollow Core Cable.	239	108.4

Cable Control & Performance -

When Tool Engages Tough Obstructions

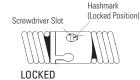


Accessories

	Catalog	Model	D	We	ight
	No.	No.	Description	lb.	kg
	60042	A-7534D	Drum Assembly w/3/4" Pigtail	31	14
	61107	A-7558D	Drum Assembly w/5/8" Pigtail	30	13.6
	60047	A-75DR	Drum Only	20	9
•	60032	A-75PF	AUTOFEED Assembly	10	4.5
	60037		AUTOFEED Spacers		
£00%	41992		C-100 IC Kit w/Tools ¾" x 100'		
	49032		Front Guide Hose Assembly	3	1.3
1273	41937	-	RIDGID Leather Drain Cleaning	-	0.0
	70032	-	RIDGID PVC Drain Cleaning Gloves	.5 .5	0.2 0.2
	59360	A-3	Tool Box	5	2.3
	59987		Cable Rust Inhibitor 1 GAL.	8.5	3.9
				OZ.	g
	31487	A-7570	%" Repair Splicer	1½	43
	92805	A-6582	%" Male Coupling	1	28
	92810	A-6583	%" Female Coupling	2	57
	31492	A-7571	¾" Repair Splicer	2	56
	92880	B-6840	3/4" Male Coupling	1	28
	92885	B-6841	34" Female Coupling	2	57

QUICK-CONNECT CABLE & TOOLS

Rotate pin one-half turn in either direction to quickly add cable or tools:



LOCKED
Hashmark "CLOSED" aligned
with "L" stamped on coupling.

Hashmark (Unlocked Position)

Screwdriver Slot

UNLOCKED

Hashmark "OPEN" aligned opposite

"L" stamped on coupling.

Coupling features stainless steel pin and spring; eliminates need for punches, stands, or expansion pins.

Inner Core (IC) Cables

Good flexibility and more cleaning power to the cable end.

		Catalog	Model	Description	Wei	ght
		No.	No.	Description	lb.	kg
E	2	92460	C-25	25' IC Cable (7.6m)	24	10.9
16mm		92465	C-26	50' IC Cable (15.2m)	43	19.5
- 8/2	411111111111111111111111111111111111111	92470	C-27	75' IC Cable (22.9m)	63	28.6
2	EKKARIKAN	43647	C-24	100' IC Cable (30.5m)	84	38.1
٦		92475	C-28	25' IC Cable (7.6m)	30	13.6
20mm	22//////////////	92480	C-29	50' IC Cable (15.2m)	60	27.2
3/4"- 2	. Chergrangerna	41212	C-75	75' IC Cable (22.9m)	93	42.5
3/4	4	41697	C-100	100' IC Cable (30.5m)	122	55.3

Hollow Core (HC) Cables

	Catalog	Model	Description	Wei	ght
	No.	No.	Description	lb.	kg
5/8 "-16mm	32737 58192	C-27HC C-24HC	75' HC Cable (22.9m) 100' HC Cable (30.5m)	52¾ 70½	23.9 32.0
3/4"-20mm	47427 47432	C-75HC C-100HC	75' HC Cable (22.9m) 100' HC Cable (30.5m)	75 100	34.0 45.5

Leaders and Pigtails

	Catalog Model		atalog Model		ght
	No.	No.	Description	lb.	kg
2000	92555 92560	T-458 T-468	5/8" x 2' Leader 3/4" x 2' Leader	2 2¾	0.85 1.25
%	44122 44117	_	5/8" Pigtail 3/4" Pigtail	2½ 3½	1.13 1.59

Tools and Replacement Blades - Fits 5%" and 34" Cables

C-24, C-25, C-26, C-27, C-28, C-29, C-75, C-100, C-24HC, C-27HC, C-75HC and C-100HC

	Catalog	Model		Repla	cement
	No.	No.	Description	Blade(s)	Holder
	92485	T-403	P-Trap Cutter, 3"	92835	92900
	92490	T-404	P-Trap Cutter, 31/2"	92840	92900
EP	92495	T-406	Grease Blade	92850	92915
	92500	T-407	Retrieving Auger	_	-
	92505	T-408	Sawtooth Cutter	92890	92915
c==millillim	51762	T-409	H-D Bulb Auger	-	-
	92510 92515 92520 92525 92530	T-411 T-412 T-413 T-414 T-416	Double Cutter, 2" Double Cutter, 21/2" Double Cutter, 3" Double Cutter, 4" Double Cutter, 6"	92815 92820 92825 92830 92855	92905 92905 92910 92910 92910
	92535 92540 92545 92550	T-432 T-433 T-434 T-436	3-Blade Cutter, 2" 3-Blade Cutter, 3" 3-Blade Cutter, 4" 3-Blade Cutter, 6"	92860 92865 92870 92875	92895 92895 92895 92895

K-375R Drum Machine



Model K-375R with 1/2" x 50 Cable and Standard Tools

For 2" to 4" (50-100mm) Drain Lines

The K-375R makes quick work for cleaning drains from 2" to 4". A variety of cutting tools with quick connect couplers make it easy to match the right tool for the right job.

Ideal for clearing non-root blockages in floor and gutter drains, interior laterals and vent pipes. Removes grease, debris, sludge and lint.

- Clear access to drum allows immediate view of cable for inspection plus easier and faster cleaning of drum and cable.
- Patented Cable Control System slows the drum, should cable or blade become completely lodged in blockage.
- New integral-wound, solid core cable is tough and kink resistant. (1/2" x 50').

Typical Applications

• Floor Drains, Vent Pipes, Stack Lines, Gutter Drains.

Specifications

- 1/3 HP, 115V, 60Hz Reversible Induction Motor.
- 190 RPM.
- · Air Activated Foot Switch.
- Quick Disconnect Drum.
- Weight 73 lbs.
- Torque Limiter.

Standard Equipment

- One C-44 IW Cable (1/2" x 50' Solid Core).
- One T-202 Bulb Auger.
- One T-211 Grease Cutter.
- One T-205 C-Cutter.
- One A-13 Coupling Pin.

Includes RIDGID leather drain cleaning gloves and operator's manual.

NOTE! Should Not Be Used to Cut Roots.

K-375R Accessories

Model No.	Description			
T-202	Bulb Auger			
T-211	Grease Cutter			
T-205	"C" Cutter			
A-13	Coupling Pin			
A-375	Plastic Drum Assembly			
_	RIDGID Leather Drain Cleaning Gloves			
_	2-Wheel Transport Cart			
C-44 IW	½"x 50' Solid Core Cable			
_	½" IW Cable Repair Coupling			
_	K-375R Metal Drum Assembly			
	No. T-202 T-211 T-205 A-13 A-375 —			

Machine Ordering Information

Catalog No. Model No.	Description		Weight	
			kg	
83292	K-375R	½" Open Cage Drum Machine w/½" x 50' IW Solid Core Cable; T-260 Tool Set includes: T-202 1½" Bulb Auger, T-205 "C" Cutter, T-211 Spade Cutter and Pin Key; RIDGID Leather Drain Cleaning Gloves.	73	33

K-750R Drum Machine



Model K-750R with 5/8" x 100' Cable and Standard Tools

K-750R Accessories

Catalog No.	Model No.	Description
92495	T-406	Spear Blade
92485	T-403	P-Trap Cutter
92510	T-411	2" "C" Cutter
92520	T-413	3" "C" Cutter
92525	T-414	4" "C" Cutter
87602	C-24 IW	%" x 100' Solid Core Cable
43642	A-75	AUTOFEED Assembly
41937	_	RIDGID Leather Drain Cleaning Gloves
59360	A-3	Tool Box
91047	_	%" IW Cable Repair Coupling

For 3" to 6" (75-150mm) Drain Lines

The K-750R is a self-contained drain cleaner ideal for lateral drain lines from 3" to 6". Easy-to-transport, narrow design for small entry ways and minimal setup make this machine ideal for tough mainline work.

Comes equipped with a large blade assortment to handle numerous applications. Clears roots, debris and foreign objects out of main lines, storm drains, house laterals and leach lines.

- Clear access to drum allows immediate view of cable for inspection plus easier and faster cleaning of drum and cable.
- Patented Cable Control System slows the drum, should cable or blade become completely lodged in blockage.
- New integral-wound, solid core cable is tough and kink resistant. (5/8" x 100').

Typical Applications

• Main Lines, Storm Drains, Septic Lines, Building Drains.

Specifications

- 1/2 HP, 115V, 60Hz Reversible Induction Motor.
- 200 RPM.
- Air Activated Foot Switch.
- Weight 194 lbs.
- Dual Kickstands.
- New Torque Limiter Feature.
- Lean, Well-Balanced Design for Easy One-Man Transport and Operation.

Standard Equipment

- One C-24 IW Cables (5/8" x 100' Solid Core).
- One T-406 Spear Blade.
- One T-403 P-Trap Cutter.
- One T-411 2" "C" Cutter.
- One T-413 3" "C" Cutter.
- One T-414 4" "C" Cutter.
- One A-3 Tool Box.

Includes RIDGID leather drain cleaning gloves and operator's manual.

Machine Ordering Information

Catalog No. Model No.		Description	Weight	
Catalog No. N	wiouei ivo.	Description		kg
83557	K-75R	%" Open Cage Drum Machine w/%" x 100' IW Solid Core Cable; 2", 3", 4" "C" Cutters; P-Trap Cutter; Spade Blade; Tool Box; RIDGID Leather Drain Cleaning Gloves.	194	98

K-50 Sectional Machine



K-50-8 shown below includes:

- K-50 Machine.
- A-17-A, Adapter includes:
 25' x 5/16", C-1 Bulb Auger Cable.
- A-17-B, Adapter includes:
 35' x ¾", C-5 Bulb Auger Cable.
- A-1 RIDGID Drain Cleaning Mitt.







For 3/4" to 4" (19-100mm) Drain Lines

- Compact, versatile, professional's machine. Capable of running three different size cables: 5/16", 3/6", and 5/6". The perfect, all-around sink, shower and floor drain machine. Weighs less than 40 lbs.
- Unique, easy-to-use, instant-acting cable clutch maximizes operator control:
 - Pull handle down and cable spins at 400 RPM.
 - Release handle, cable stops instantly.
- Uses sections of 5/8" cable, cleans 11/4" to 4" lines up to 100 feet.
 - C-8 best for $1\frac{1}{4}$ -3" drains.
 - C-9 best for 2 4" drains.
- Equipped with an A-17 adapter, runs up to 50 feet of 5/16" (15m/8mm) or 35 feet of 3/6" (11m/10mm) continuous length cable.
- 5/16" best for 3/4" to 11/2" lines.
- $-\frac{3}{8}$ " best for $1\frac{1}{4}$ " to 2" lines.
- Equipped with 1/6 HP motor; 115V Models.
- Includes A-1 RIDGID drain cleaning mitt and operator's manual.
- Approved by CSA to CSA and UL Standards (115V only).

Machine Options

Catal	Catalog No.		Description	We	ight
115V	230V	No.	Безеприон	lb.	kg
58920	76455	K-50	Machine with A-1 RIDGID drain cleaning mitt	37	16.8
58960	76475	K-50-4	Machine, with: — A-30 Cable Kit	61	27.7
58980	76485	K-50-6	Machine, with: — A-17-A Adapter — A-30 Cable Kit	67	30.4
59000	76495	K-50-8	Machine, with: — A-17-A Adapter — A-17-B Adapter — A-30 Cable Kit	77	34.9
52972	_	K-50-9	Machine, with: – A-40 Cable Kit	74	33.6

A-30 Cable Kit, includes:

- Six Sections C-8, 7½' x 5%" Cable (45 feet).
- A-10 Cable Carrier.
- T-201 Straight Auger.
- T-202 Bulb Auger.
- T-205 "C" Cutter.
- T-211 Spade Cutter.
- A-13 Coupling Pin Key.
- A-14-6 Rear Guide Hose.
- A-1 Left-Hand RIDGID Drain Cleaning Mitt.

Cables

		Catalog No.	Model No.	Description	lb.	kg
- 8mm		62225 56782	C-1 C-1IC	25' (7.6m) w/Bulb Auger 25' (7.6m) Inner Core w/ Bulb Auger	3½ 4	1.6 1.8
	Bulb Auger	89400	C-21	50' (15.2m) w/Bulb Auger	7	3.2
5/16" - 8		62235 56787	C-2 C-2IC	25' (7.6m) w/Drop Head Auger 25' (7.6m) Inner Core w/Drop Head Auger	3½ 4	1.6 1.8
	Drop Head	89405	C-22	50' (15.2m) w/Drop Head Auger	7	3.2
_		62245	C-4	25' (7.6m) w/Male Coupling	4½	2.0
- 10mm		62250	C-5	35' (10.7m) w/Bulb Auger	81/4	3.8
3%"-		62260 96037	C-6 C-6IC	35' (10.7m) w/Male Coupling 35' (10.7m) w/Male Coupling	81⁄4 81⁄2	3.8 4.0
16mm	5WWW	62265	C-7	7½' (2.3m) Tight-Wind	4	1.8
5/8 "- 16r	CTTTT11000000000	62270	C-8	7½' (2.3m) All-Purpose Wind	3	1.4
5/8	Sectional	51317	C-9	10' (3.1m) Heavy-Duty Wind	43/4	2.1

Accessories

Catalog	Model	Description	We	ight
No.	No.	Description	lb.	kg
59235 84325	A-14-6 A-14-10	6' Rear Guide Hose 10' Rear Guide Hose	5 7	2.3 3.2
59270	A-18	Front Guide Hose Assembly	9	4.1
59210	A-10	Cable Carrier (Holds 90' C-8, C-9)	31/4	1.5
59205 59295	A-1 A-2	Left-Hand RIDGID Drain Cleaning Mitt Right-Hand RIDGID Drain Cleaning Mitt	½ ½	0.2 0.2
 59230	A-13	Pin Key For %" Cable	1/8	0.1
59450	A-3179	K-50 Jaw Set	1½	0.7

Cable Kits

Catalog	Model	0.11	T 1 0 4	We	ight
No.	No.	Cable	Tools & Accessories	lb.	kg
59365 A-30		Six Sections: C-8, 56"x7'½' (45', 13.7m)	T-201 Straight Auger T-202 Bulb Auger T-205 "C" Cutter T-211 Spade Cutter A-13 Coupling Pin Key A-10 Cable Carrier A-14-6 Rear Guide Hose A-1 Left-Hand RIDGID Drain Cleaning Mitt	20	9.1
59370	A- 30TW	Six Sections: C-7, 5%"x7½" (45', 13.7m) Tight-Wind	Same as A-30	30	13.6
52962	A-40	Six Sections: C-9, 5%" x 10' (60', 18.3 m)	T-206 Funnel Auger T-215 4-Blade Cutter T-231 "C" Cutter A-13 Coupling Pin Key A-10 Cable Carrier A-14-10 Rear Guide Hose A-1 Left-Hand RIDGID Drain Cleaning Mitt	37	16.8

Tools – Fits 5/16", 3/8" and 5/8" Cables

C-4, C-6, C-7, C-8 and C-9

	Catalog No.	Model No.	Description	Replacement Blade(s)
CHILDRAWMA.	62990 62995 63000 55457 62067	T-201 T-202 T-203 T-225 T-201A	Straight Auger, 5" Long Bulb Auger, 11/8" O.D. Bulb Auger, 7/8" O.D. Retrieving Auger Straight Flex Auger	_ _ _ _
	63065	T-217	Drop Head, 4" Long	_
	54837 63005	T-204 T-205	"C" Cutter 1" "C" Cutter 1%"	54832 97835
STRWWWW	63010	T-206	Funnel Auger, 3" Long	_
	63015 63020 63025	T-207 T-208 T-209	Spiral Cutter, 1½" Spiral Cutter, 1½" Spiral Cutter, 2"	97840 97895 97900
	63030 63035 63040	T-210 T-211 T-212	Grease Cutter, 1" Grease Cutter, 13/4"	97905 97825 92850
\$	63045 63050 63055	T-213 T-214 T-215	4-Blade Cutter, 1" 4-Blade Cutter, 1%" 4-Blade Cutter, 1¾"	97795 97910 97915
2 (0)	63060	T-216	Chain Knocker, 2"	98000
27	63280 63070 63080 63220	T-218 T-219 T-220 T-221	Flue Brush, 3" Flue Brush, 2½" Flue Brush, 2" Flue Brush, 1½"	 - -
2	52812 52817 52822	T-230 T-231 T-232	H-D "C" Cutter, 2" H-D "C" Cutter, 2½" H-D "C" Cutter, 3"	92815 92820 92835
	48482	T-250	Tool Set includes: - T-203 - T-217 - T-205 - A-13 - T-210	_
	12128	T-240	Tool Set (3/6"-K-380) – T-202 Bulb Auger – T-211 Spade Cutter – A-13 Pin Key	_

Adapters

Catalog	Model	Description		odel Description We		eight
No.	No.	Description	lb.	kg		
59250	A-17-A	Adapter With 25' x 5/16" Cable w/Bulb Auger	8	3.6		
59255	A-17-B	Adapter With 35' x 3%" Cable w/Bulb Auger	13	5.9		
59265	A-17-C	Adapter With 35' x 3%" Cable w/Male Coupling	13	5.9		
92095 A	A-17-D	Adapter With 50' x 5/16" Cable w/Bulb Auger	12	5.4		
92100	A-17-E	Adapter With 50' x 5/18" Cable w/Drop Head	12	5.4		

K-60 Sectional Machine





K-60SP-SE shown above includes:

- K-60SP Machine.
- A-1 RIDGID Drain Cleaning Mitt.
- A-60-12 Rear Guide Hose.
- A-62 Cable Kit, includes:
- A-8 Cable Carrier.
- Five Sections Of C-10,7/8" Cable, Total 75 Feet.
- · A-61 Tool Kit, includes:
- T-101 Straight Auger.
- T-102 Funnel Auger.
- T-107 Spade Cutter.
- T-125 Retrieving Auger.
- T-150-1 Sharktooth Cutter.
- A-3 Tool Box.
- A-12 Pin Key.

For 11/4" to 4" (32-100mm) Drain Lines

- A compact machine for institutional, commercial or residential cleaning. Also ideal for septic tank vacuum truck operators. Small enough to fit into cramped spaces, yet powerful enough to clear tough blockages.
- Ideal for rooftop vent stacks. Rear handle allows for easy transporting up ladders and onto rooftops.
- Unique, easy-to-use, instant-acting cable clutch maximizes operator control.
- Push handle down, cable spins at 600 RPM.
- Release handle, cable stops instantly.
- Simple adjustment knob allows unit to spin both ¾" (22mm) and ¾" (16mm) diameter cable. Adjusts in seconds.
 - -%" cable (C-10) cleans 2" to 4" lines through 150 feet.
- 5/8" cable (C-7, C-8, C-9) cleans 11/4" to 4" lines through 125 feet.
- Remove only two bolts to access jaw set for cleaning or replacement.
 Removal of same bolts provides access to belt drive.
- Equipped with 1/2 HP motor.
- Includes A-1 RIDGID drain cleaning mitt and operator's manual.
- Approved by CSA to CSA and UL Standards (115V only).

Machine Options

Cata	log No.	Model No.	No. Model Description		Weight	
115V	220-240V		Description	lb.	kg	
66492	66512	K-60SP	Machine with RIDGID Drain Cleaning Mitt, A-12 Pin Key, and A-60-12 Rear Guide Hose	41	18.6	
66497	66517	K-60SP-SE	Machine with RIDGID Drain Cleaning Mitt, A-12 Pin Key, and A-60-12 Rear Guide Hose, plus: A-61 Tool Kit A-62 Cable Kit	92	41.7	



Cables and Leaders

		Catalog	Model	Description	We	ight
		No.	No.	Bootifuon	lb.	kg
"- 22mm		62275 30007	C-10 T-127	15' All-Purpose Wind (4.6m) 1/6" Trap Leader	9½ 2	4.3 0.9
-"8//	Sectional					
ε		51317	C-9	10' Heavy-Duty* (3m)	5	2.2
16mm	ACCOMPANIA DE LA COMPANIA DEL COMPANIA DEL COMPANIA DE LA COMPANIA	62270	C-8	7½' All-Purpose Wind* (2.3m)	3	1.4
- "8/2	Sectional	62265	C-7	7½' Tight-Wind* (2.3m)	4	1.8

Accessories

	Catalog Model	Description	We	ight	
	No.	No.	Description	lb.	kg
	59470	A-8	Cable Carrier (Holds 75' 1/8" Cable/C-10)	5½	2.5
	59210	A-10	Cable Carrier (Holds 45' 7/6" Cable/C-10) (Holds 90' 5/6" Cable/C-7, C-8, C-9)	31/4	1.5
000	59425	A-36	Cable Caddy	15	6.8
	65687		K-60SP Replacement Jawset	3/4	0.3

Cable Kits and Tool Kit

	Catalog	Model	D	We	ight				
	No.	No.	Description	lb.	kg				
	61630	A-62	Standard Equipment Cable Kit for K-60-SE, includes: – Five Sections C-10, '/e" x 15' Cable (75', 23m) – A-8 Cable Carrier	43	19.5				
Secretarian (Secretarian)	61625	A-61	Standard Equipment Tool Kit For K-60-SE, includes: – T-101 Straight Auger – T-102 Funnel Auger – T-107 Spade Cutter – T-125 Retrieving Auger – T-150-1 Sharktooth Cutter – A-3 Tool Box – A-12 Pin Key	8	3.6				

48472	A-35	5/s" Cable Kit, includes: - Six Sections C-8, 5/s" x 71/2" Cable (45', 14m) - A-10 Cable Carrier - T-201 Straight Auger - T-205 "C" Cutter - T-211 Spade Cutter - A-13 Coupling Pin Key	18	8.2
48477	A-35TW	⁵ /s" Tight-Wind Cable Kit, Substitutes C-7 For C-8 In Above Package	28	12.7

Tools - Fits %" Sectional Cable (C-10)

	Catalog No.	Model No.	Description	Replacement Blade(s)
	62850 62855 27642	T-101 T-102 T-125	Straight Auger Funnel Auger Retrieving Auger	
	62860	T-103	Sawtooth Cutter, 21/2"	98070
GD.	62865	T-104	"H" Cutter, 21/2"	97800
	62870 62875	T-105 T-106	Grease Cutter, 21/2" Grease Cutter, 31/2"	97920 97925
(E)	62880	T-107	Spade Cutter, 13/4"	92850
4	62915 62920 62925	T-109 T-110 T-111	Spiral Sawtooth Cutter, 1 ³ / ₄ " Spiral Sawtooth Cutter, 2 ¹ / ₄ " Spiral Sawtooth Cutter, 3"	97930 97935 92890
29	62930 62935	T-112 T-113	4-Blade Cutter, 13/4" 4-Blade Cutter, 3"	97915 97940
	98050 98055 98060	T-150 T-150-1 T-150-2	Sharktooth Cutter, 3" and 4" Sharktooth Cutter, 3" Blade Sharktooth Cutter, 4" Blade	See below 98005 98010
전()	62940	T-114	Chain Knocker	97985

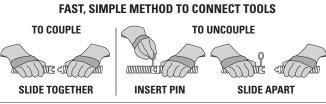
^{*}Tools for C-7, C-8 and C-9 Cables see page 12.25.

Accessories

	Catalog	Model	Description	Weight	
	No.	No.	Description	lb.	kg
	59360	A-3	Tool Box	5	2.3
	59205 59295	A-1 A-2	Left-Hand RIDGID Drain Cleaning Mitt Right-Hand RIDGID Drain	1/2	0.2
			Cleaning Mitt	1/2	0.2
$\overline{}$	59225 59230	A-12 A-13	Pin Key, ⁷ /8" Cable Pin Key, ⁵ /8" Cable	1/ ₈ 1/ ₈	0.1 0.1
	61615 76575	A-60-12 A-60-16	12' Rear Guide Hose For K-60 16' Rear Guide Hose For K-60	12 15¹/₂	5.5 7
	59445	A-5	Grease Gun	1/2	0.2

Carbide Tip Tools (For Cement Blockages)

Catalog No.	Description
67132	For 5/8" Cable 3/4" Wide
67137	For 5/8" Cable 1" Wide
67142	For 7/8" Cable 1" Wide



For C-4, C-6, C-7, C-8, C-9, C-10, C-11, C-12, C-14, C-15, C-31, C-32, C-33, C-44, C-45, and C-46.

K-75 Sectional Machine





Model K-75A Kit

K-75B-SE includes:

- K-75B Machine with A-1 RIDGID Drain Cleaning Mitt, A-12 Pin Key and A-34-12 Rear Guide Hose.
- A-62 Cable Kit, includes:
- Five Sections Of %"(C-10) Cable, Total 75 Feet.
- A-8 Cable Carrier.

- For 11/4" to 4" (32-100mm) Drain Lines

 Offers many features of heavier duty K 1500 Machin
- Offers many features of heavier-duty K-1500 Machine in a lighter-weight design. Speed cleans drain lines. Easy to transport; sets up fast.
- Unique, easy-to-use, instant-acting cable clutch maximizes operator control:
 - Pull handle down, cable spins at 640 RPM.
 - Release handle, cable stops instantly.
- Equipped to spin, easy-to-handle, 15-foot sections of %"
 (4.6m/22mm) cable to clean 2" to 4" lines through 175 feet
 (50-100mm/53m).
- Change clutch jaws to run 7½-foot sections of 5%" (C-8, C-7, C-9) cable to clean 1¼" to 4" lines through 125 feet (32-75mm/38m).
- Equipped with ½ HP motor.
- Includes A-1 RIDGID drain cleaning mitt and operator's manual.
- Approved by CSA to CSA and UL Standards (115V only).

NOTE: Available in both upright "A" and low-profile "B" frame styles.

Machine Options – Only Available in 115V-60Hz

Catalog	Catalog Model No. No.	Description	Weight		
No.		Description	lb.	kg	
23737	K-75A	A-Frame Machine with A-1 RIDIGD Drain Cleaning Mitt, A-12 Pin Key and A-34-12 Rear Guide Hose	122	55.3	
23747	K-75A-SE	A-Frame Machine with A-1 RIDIGD Drain Cleaning Mitt, A-12 Pin Key and A-34-12 Rear Guide Hose, Plus: A-61 Tool Kit A-62 Cable Kit	160	72.6	
23742	K-75B	B-Frame Machine with A-1 RIDIGD Drain Cleaning Mitt, A-12 Pin Key and A-34-12 Rear Guide Hose	110	49.9	
23752	K-75B-SE	B-Frame Machine with RIDIGD Drain Cleaning Mitt, A-12 Pin Key and A-34-12 Rear Guide Hose, Plus: A-61 Tool Kit A-62 Cable Kit	149	76.6	



- T-101 Straight Auger.
- T-102 Funnel Auger.
- T-107 Spade Cutter.
- T-125 Retrieving Auger.
- T-150-1 3" Sharktooth Cutter.
- A-3 Tool Box.
- A-12 Pin Key.

Cables and Leaders

		Catalog	Model	Description	Weight	
		No.	No.	Bocompaion	lb.	kg
Ē		62275	C-10	15' All-Purpose Wind (4.6m)	91/2	4.3
22 mm	AND THE PROPERTY OF THE PARTY O	30007	T-127	⅓" Trap Leader	2	0.9
-"8/	CHILDEN OF SHOULD HAVE					
7	Sectional					
ш		51317	C-9	10' Heavy-Duty* (3m) 3/8" Pitch.	5	2.2
16mm	A THE PROPERTY OF THE PARTY OF	62270	C-8	7½' All-Purpose Wind* (2.3m)	3	1.4
2/8"-	Charles and the state of the st	62265	C-7	7½' Tight-Wind* (2.3m)	4	1.8
2/	Sectional					

^{*}Requires A-376X Jawset; See Accessories.

Cable Kits

	Catalog	Model		We	ight
	No. No.		Description	lb.	kg
	61630	A-62	Standard Equipment Cable Kit for K-75-SE, includes: – Five Sections C-10, ⁷ / ₈ " x 15' Cable (75', 23m) – A-8 Cable Carrier	43	19.5
STATE OF THE PROPERTY OF THE P	61625	A-61	Standard Equipment Tool Kit For K-75-SE, includes: — T-101 Straight Auger — T-102 Funnel Auger — T-107 Spade Cutter — T-155 Retrieving Auger — T-150-1 Sharktooth Cutter — A-3 Tool Box — A-12 Pin Key	8	3.6

To adapt K-75 to run %" cable; requires A-376X Jawset and %" Cable Kit.

59330	A-376X	5/8" Jawset	1	0.5
48472 A-35		s6" Cable Kit, includes: - Six Sections C-8, s6" x 7√2" Cable (45', 14m) - A-10 Cable Carrier - T-201 Straight Auger - T-202 Bulb Auger - T-205 "C" Cutter - T-211 Spade Cutter - A-13 Coupling Pin Key	18	8.2
48477	A-35TW	5/8" Tight-Wind Cable Kit, Substitutes C-7 For C-8 In Above Package	28	12.7

Accessories

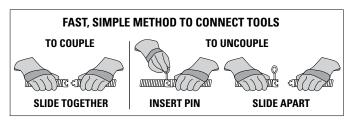
	Catalog	Model	D	We	ight
	No.	No.	Description	lb.	kg
20	59425	A-36	Cable Caddy	15	6.8
	59330 59325	A-376X A-368X	Jawset Adapts K-75 To %" Cable 1/8" Replacement Jawset	1 1	0.5 9.5
	84315 59415 59395	A-34-8 A-34-10 A-34-12	8-Foot Rear Guide Hose 10-Foot Rear Guide Hose 12-Foot Rear Guide Hose	11½ 13½ 20	5.2 6.2 9.1

Tools* - Fits 1/8" Sectional Cable

	Catalog No.	Model No.	Description	Replacement Blade(s)
	62850	T-101	Straight Auger	_
	62855	T-102	Funnel Auger	_
	27642	T-125	Retrieving Auger	_
	62860	T-103	Sawtooth Cutter, 2½"	98070
	62865	T-104	"H" Cutter, 2½"	97800
	62870	T-105	Grease Cutter, 2½"	97920
	62875	T-106	Grease Cutter, 3½"	97925
(E)	62880	T-107	Spade Cutter, 1¾"	92850
	62915	T-109	Spiral Sawtooth Cutter, 1¾"	97930
	62920	T-110	Spiral Sawtooth Cutter, 21/4"	97935
	62925	T-111	Spiral Sawtooth Cutter, 3"	92890
5 .	62930	T-112	4-Blade Cutter, 13/4"	97915
	62935	T-113	4-Blade Cutter, 3"	97940
	98050	T-150	Sharktooth Cutter, 3" and 4"	See below
图(c)	98055	T-150-1	Sharktooth Cutter, 3" Blade	98005
	98060	T-150-2	Sharktooth Cutter, 4" Blade	98010
-W	62940	T-114	Chain Knocker	97985

Accessories

Accessories									
	Catalog No.	Model No.	Description	We lb.	ight kg				
	59360	A-3	Tool Box	5	2.3				
	59205 59295	A-1 A-2	Left-Hand RIDGID Drain Cleaning Mitt RightHand RIDGID Drain Cleaning Mitt	1/2	0.2				
	59225 59230	A-12 A-13	Pin Key, 1/8" Cable Pin Key, 5/8" Cable	1/8	0.1 0.1				
	59470 59210	A-8 A-10	Cable Carrier (Five Sections C-10) Cable Carrier (Three Sections C-10)	5½ 3¼	2.5 1.5				



For C-4, C-6, C-7, C-8, C-9, C-10, C-11, C-12, C-14, C-15, C-31, C-32, C-33, C-44, C-45, and C-46.

^{*}Tools for C-7, C-8 and C-9 see page 12.25.
*Carbide tip tools for cutting cement blockages available.
See K60 section on page 12.27 for C-10 cables.

K-1500 Sectional Machine







K-1500 B W/C-11 shown above includes:

- K-1500 B Machine with A-1 RIDGID Drain Cleaning Mitt, A-12 Pin Key and A-34-12 Rear Guide Hose.
- Seven Sections of 11/4" (C-11) Cable, Total 105 Feet.
- Two A-8 Cable Carriers.
- Nine-Piece Tool Set includes:
- T-1 Straight Auger.
- T-50-1 Sharktooth Cutter.
- T-3 Funnel Auger.
- A-2864 Hex Key.
- T-6 Retrieving Auger.
- T-8 Grease Cutter.
- A-3516 Hex Key.
- A-3 Tool Box.
- T-13 Sawtooth Cutter.

For 2" to 8" (50-200mm) Drain and Sewer Lines

- The finest all-around sewer and drain cleaning machine. One man can easily clean the heaviest blockages — indoors or out. High-speed cleaning gets the job done faster...better.
- Unique, easy-to-use, instant-acting cable clutch maximizes operator control:
 - Pull handle down, cable spins at constant 710 RPM
 - Release handle, cable stops instantly.
- Wheels to the job site sets up fast, cleans up fast.
- Low-profile "B" frame design will fit most crawl spaces, loads and unloads from truck easily. Upright "A" frame features cable carrier storage during transport, ideal for in-house applications.
- Equipped to run, easy to handle, 15-foot sections of 11/4" cable to clean 3" to 8" (32m-200mm) lines to 200 feet (61m).
- Easy clutch jaw change-out adapts K-1500 to run 15-foot sections of %" (4.6/22mm) cable through 2" to 4" lines up to 175 feet (50-100mm, 53m).
- Equipped with ¾ HP motor; 115V Models.
- Includes RIDGID drain cleaning mitt and operator's manual.
- Approved by CSA to CSA and UL Standards (115V only).

Machine Options - B Frame

Catalog No.		Model	5	We	ight	
115V-60Hz	230V-50Hz	240V-50Hz	No.	Description	lb.	kg
23697	27617	-	K-1500B	Machine with A-1 RIDIGD Drain Cleaning Mitt, A-12 Pin Key, and A-34-12 Rear Guide Hose	135	61.3
23717	27597	27637	K-1500B	Machine with A-1 RIDIGD Drain Cleaning Mitt, A-12 Pin Key, and A-34-12 Rear Guide Hose, Plus: — Seven Sections 1½" (C-11) Cable, Total 105 Feet — Two A-8 Cable Carriers — Nine-Piece 1½" Tool Set	256	116.1
23707	-	_	K-1500B	Machine with A-1 RIDIGD Drain Cleaning Mitt, A-12 Pin Key, and A-34-12 Rear Guide Hose, Plus: — Seven Sections 1¼" (C-14) Cable, Total 105 Feet — Two A-8 Cable Carriers — Nine-Piece 1¼" Tool Set	256	116.1

Machine Options - A Frame

Catalog	Catalog No.		B 1.0	Weight	
115V-60Hz	240V-50Hz	Model No.	Description	lb.	kg
23692	27612	K-1500A	Machine with A-1 RIDIGD Drain Cleaning Mitt, A-12 Pin Key, and Rear Guide Hose	135	61.3
23712	27592	K-1500A	Machine with A-1 RIDIGD Drain Cleaning Mitt, A-12 Pin Key, and A-34-12 Rear Guide Hose, Plus: – Seven Sections 1¼" (C-11) Cable, Total 105 Feet – Two A-8 Cable Carriers – Nine-Piece 11/4* Tool Set	256	116.1
23702	-	K-1500A	Machine with A-1 RIDIGD Drain Cleaning Mitt, A-12 Pin Key, and A-34-12 Rear Guide Hose, Plus: – Seven Sections 1¼* (C-14) Cable, Total 105 Feet – Two A-8 Cable Carriers – Nine-Piece 1¼* Tool Set	256	116.1

Instant-Acting Clutch





Engage clutch, cable spins.

Release handle, cable stops instantly.

Cables, Leaders and Cable Kits

		Catalog	Model	Description	We	ight
		No.	No.	Безеприон	lb.	kg
7/8" - 22mm	Sectional	62275	C-10	15' Standard, All-Purpose Wind. Requires A-368X Jawset 1/6" Tools.	9½	4.3
	Sectional	62280	C-11	15' Standard All-Purpose Wind. 3/8" Pitch. Good for 4" Traps, 3"- 8" Lines.	16	7.3
11/4" - 32mm	Sectional	62285	C-12	15' Extra-Heavy-Duty Wind. %" Pitch. Recommended For 4"-10" Long Runs, No 4" Traps.	19	8.6
	Sectional	62295	C-14	15' Heavy-Duty Wind. ½" Pitch. Recommended For 3"-10" Lines Through Cleanout, No 4" Traps.	16	6.8
	Sectional	62300	C-15	15' Extra-Flexible Wind. ½" Pitch. Recommended for 3"- 6" Lines Good for Traps.	12	5.5
		63090	T-27	1¼" x 25" Leader	23/4	1.2

To adapt K-1500 to run %" cable requires A-368X Jawset and %" Cable Kit.

	59325 59320	A-368X A-369-X	⅓" Jaw Set 1¼" Jaw Set	_	_
	61630	A-62	7/6" Cable Kit (See page 12.29)	43	19.5
Casessessivesided (Casessessivesided Casessessivesided Casessessiv	61625	A-61	%" Tool Kit (See page 12.29)	8	3.6

Accessories

	Catalog	Model	Description	We	ight
	No. No.		Description	lb.	kg
	59470 59475	A-8 A-9	Cable Carrier, 60-Foot Capacity (1½") Cable Carrier, 150-Foot Capacity (1½")	5½ 14	2.5 6.4
	59415 59395 59400	A-34-10 A-34-12 A-34-16	10-Foot Rear Guide Hose 12-Foot Rear Guide Hose 16-Foot Rear Guide Hose	13¾ 20 26½	6.2 9.1 12.0
6	59300	A-20	8-Foot Front Guide Hose Assembly	25	11.4

Accessories

	Catalog	Model	Description		ight
	No.	No.	Bootilphon	lb.	kg
	59205 59295	A-1 A-2	Left-Hand RIDGID Drain Cleaning Mitt Right-Hand RIDGID Drain Cleaning Mitt	1/2 1/2	0.2 0.2
	59360	A-3	Tool Box	5	2.3
0	59225	A-12	Coupling Pin Key	1/8	0.1
	59440	A-4	Trap Spoon (30")	13/4	0.8
	59240	A-17	Manhole Guide Pipe	23	10.4
	59320	A-369X	1¼" Replacement Jawset	3/4	0.3

Tools – Fits 11/4" Sectional Cable (C-11, C-12, C-14 and C-15)

Tools – Fits 11/4"	Catalog	Model	C-12, C-14 and C-15)	Replacement
	No.	No.	Description	Blade(s)
28.111111111111111111111111111111111111	62840	T-1	Straight Auger	_
	61800	T-2	Heavy-Duty Straight Auger	_
	63105 61790	T-3 T-4	Funnel Auger Heavy-Duty Funnel Auger	_ _
	63190	T-5	Straight Retrieving Auger	
	63195	T-6	Funnel Retrieving Auger Run Machine In Reverse	_
	63200	T-7	Hook Auger	
	63205 63210 62845	T-8 T-9 T-10	Grease Cutter, 2½" Grease Cutter, 3½" Grease Cutter, 4½"	97920 97925 97865
A	59480 59485	T-11 T-12	"H" Cutter, 2½" "H" Cutter, 3½"	97800 97945
E 8.	61970 61975	T-13 T-14	Sawtooth Cutter, 2½" Sawtooth Cutter, 3½"	98070 98075
	61770 61825	T-15A T-15B	Expanding Cutter, 4" - 6" Expanding Cutter, 6" - 8"	62970 62980
	61960 61850 61855	T-16 T-17 T-18	Spiral Bar Cutter, 4" Spiral Bar Cutter, 6" Spiral Bar Cutter, 8"	97855 97955 97960
	59625 63075 63085	T-21 T-22 T-23	Spiral Sawtooth Cutter, 2½" Spiral Sawtooth Cutter, 3" Spiral Sawtooth Cutter, 4"	97965 97970 97850
	59765 59770 59775 59780	T-24 T-25 T-26 T-26A	4-Blade Cutter, 2½" 4-Blade Cutter, 3½" 4-Blade Cutter, 4½" 4-Blade Cutter, 5½"	97940 97975 97805 97980
	98030 98035 98040 98045	T-50 T-50-1 T-50-2 T-50-3	Three Blade (3"-4"-5") Sharktooth Cutter, 3" Sharktooth Cutter, 4" Sharktooth Cutter, 6"	See Below 98005 98010 98015
	63110 63115 63120	T-31 T-32 T-33	Chain Knocker, For 3"- 4" Pipe Chain Knocker, For 6" Pipe Chain Knocker, For 8" Pipe	97985 97990 97995
<u> </u>	63145 63150 63155 63160 63165 63170 63175 63240 63180 63185	T-38 T-39 T-40 T-41 T-42 T-43 T-44 T-45 T-46 T-47	Flue Brush, 1½" Flue Brush, 2" Flue Brush, 2½" Flue Brush, 3½" Flue Brush, 3½" Flue Brush, 4" Flue Brush, 4½" Flue Brush, 5" Flue Brush, 5" Flue Brush, 5%" Flue Brush, 6"	- - - - - - - -

K-1500SP Sectional Machine





K-1500SP with C-11 shown above

K-1500SP w/C-11 includes:

- \bullet K-1500SP Machine with A-1 RIDGID Drain Cleaning Mitt and A-12 Pin Key.
- A-34-12 Rear Guide Hose.
- 150 Feet, Ten Sections of C-11, 11/4" Cable.
- Three A-8 Cable Carriers.
- Nine-Piece 11/4" Tool Package, includes:
- T-1 Straight Auger.
- T-50 Sharktooth Cutter
- T-3 Funnel Auger.
- with 3", 4" and 5" Blades.
- T-6 Retrieving Auger.
- A-2864 Hex Key (3/16").
- T-8 2½" Grease Cutter.
- A-3516 Hex Key (1/4").
- T-13 21/2" Sawtooth Cutter.
- A-3 Tool Box.

For 2" to 10" (50-250mm) Drain/Sewer Lines

- All the features of the standard K-1500 with extra power to clean larger lines (10") and longer distances (through 300 feet). Cuts through blockages fast.
- Equipped with full 1 HP TEFC motor and heavy-duty rotary switch.
- Unique easy-to-use, instant-acting cable clutch maximizes operator control:
- Pull handle down and cable spins at 600 RPM.
- Release handle, cable stops instantly.
- Low-profile frame design will fit most crawl spaces.
- 10" solid ball bearing wheels.
- Easy clutch jaw change-out adapts the K-1500 SP to use %" cable to clean 2" to 4" lines through 175 feet (order jawset A-368X, 59325).
- Includes A-1 RIDGID drain cleaning mitt and operator's manual.
- Approved by CSA to CSA and UL Standards (115V only).

Machine Options - B Frame

indomine options 2 i amo								
Cata	alog No.			We	ight			
120V-60Hz	220/240V-50Hz	Model No.	Description	lb.	kg			
43507	43512	K-1500SPB	Machine with A-1 RIDGID Drain Cleaning Mitt and A-12 Pin Key, Plus: — A-34-12 Rear Guide Hose	141	64			
46907	_	K-1500SPB	Machine with A-1 RIDGID Drain Cleaning Mitt and A-12 Pin Key, Plus: — A-34-12 Rear Guide Hose — 150 Feet, Ten Sections of C-11, 11/4" Cable — Three A-8 Cable Carriers — A-3 Tool Box — Eight-Piece 11/4" Tool Package	317	144			
91027	_	K-1500SPB	Machine with A-1 RIDGID Drain Cleaning Mitt and A-12 Pin Key Plus: – A-34-12 Rear Guide Hose – C-14 Three Carrier Cable Combination Kit	297	135			

Machine Options - A Frame

Cat	Catalog No.		Description	Wei	ight
120V	220/240V	Model No.	Description	lb.	kg
46837	_	K-1500SPA	Machine with A-1 RIDGID Drain Cleaning Mitt and A-12 Pin Key, Plus: – A-34-12 Rear Guide Hose	150	68
91032	_	K-1500SPA	Machine with A-1 RIDGID Drain Cleaning Mitt and A-12 Pin Key, Plus: – A-34-12 Rear Guide Hose & C-14 Three Carrier Cable Combination Kit	317	144

K-1500SP Accessories-see page 12.31.

C-14 Heavy-Duty Accessory Kit

Catalog	Model	Dinti	Weight	
No.	No.	Description	lb.	kg
48457	_	C-14 Three-Carrier Cable Combination Kit Includes: – 150' C-14 Cable, Ten Sections 1½" – Three Cable Carriers – A-3 Toolbox and A-12 Pin Key – T-2 HD Straight Auger; T-4 HD Funnel Auger; – T-6 Funnel Retrieving Auger; T-8 Spade Cutter; T-13 Saw Tooth Cutters; T-50 Sharktooth	160	72.6

K-1500G Sectional Machine



Machine Dimensions:

macinino Billionoronoi	
Width Wheel to Wheel	26"
Length Including Kickstand	28"
Ground to Top of Handle	38"
Back of Handle to Front	49"
Ground to Top of Housing Shell	27"



K-1500G with C-14 shown above

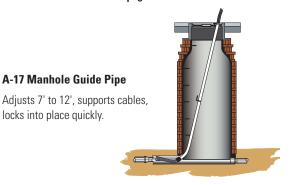
For 2" to 10" (50-250mm) Drain/Sewer Lines

- A gasoline engine makes the K-1500G well-suited for cleaning lines in remote locations where electrical power is unavailable. Cuts through roots fast
- Unique, easy-to-use, instant-acting cable clutch maximizes operator control.
 - Pull down on the handle and the cable spins at 600 RPM.
 - Release handle, cable stops instantly.
- Comes equipped to use 11/4" cable to clean 3" to 10" lines through 300 feet (75-250mm, 92m).
- 6 HP gasoline engine drives cable via four-speed transmission. Allows the operator to vary the cable spinning speed to fit the application. Forward speeds of 333, 425 and 500 RPM, and a reverse speed of 250 RPM.
- Low-profile, four-wheel cart easily rolls to the job. Guards against machine upset and possible fuel spillage.
- Includes A-1 RIDGID drain cleaning mitt and operator's manual.

Machine Options

Catalog Model		Description	We	ight
No.	No.	Description	lb.	kg
44587	K- 1500G	Machine Only with A-1 RIDGID Drain Cleaning Mitt, A-12 Coupling Pin Key and A-34-10 Rear Guide Hose	190	86.4
48462	K- 1500G w/C-14	Machine with Standard Equipment, includes: - Ten Sections Of C-14 Cable, Total 150 Feet - Three A-8 Cable Carriers - A-1 Left-Hand RIDGID Drain Cleaning Mitt - A-12 Coupling Pin Key - A-34-12 Rear Guide Hose - A-2864 Hex Key - A-3516 Hex Key - A-3 Tool Box - T-2 Heavy-Duty Straight Auger - T-4 Heavy-Duty Funnel Auger - T-6 Retrieving Auger - T-8 Grease Cutter - T-13 Sawtooth Cutter - T-50 Sharktooth Cutter		

K-1500G Accessories - see page 12.31.



K-1000 Rodder Machine



Cleans 8" to 24" (200-610mm) Drain/Sewer Lines

- A rugged, compact machine well-suited for straight main line work in municipalities, universities, institutions and industry. Drives sectional sewer rods through long, straight runs of larger diameter pipe — up to 500 feet.
- Equipped with a 6 HP gasoline engine and forward/reverse transmission. Rod rotates at 133 RPM in forward and reverse at full throttle.
- Spring-loaded throttle control is hand operated. Varies rod speed within range.
 Returns engine speed to idle and disengages clutch when operator releases throttle.
- Adjustable torque limiter minimizes kinking of rods and excessive torque through transmission system.
- Includes A-1 RIDGID drain cleaning mitt and operator's manual.

Machine Options

Catalog	Model	Description	We	Weight	
No.	No.	Description	lb.	kg	
59175	K-1000	Rodder Machine, includes: — B-3542 Rod Driver — A-2704 Tool Driver — A-3567 Drive Pin — R-0 Rod Turner — A-4558 Torque Adapter — A-12 Coupling Pin Key — A-1 Left-Hand RIDGID Drain Cleaning Mitt — A-2 Right-Hand RIDGID Drain Cleaning Mitt	160	75	
84295	K-1000	Rodder Machine, same as above, plus: – 20 Sections of A-2475, 5/16" Rod, Total of 100 Feet – T-300 Spear Head Cutter – T-317 Auger – T-326 Pick-Up Tool	210	95	

Rods, Rodding Tools, and Accessories

	Catalog	Model	Description	We	ight
	No.	No.	Description	lb.	kg
	60355	A-2474	3' Solid Sectional Rod, includes R-1 Male and R-2 Female Couplings	11/4	0.6
100	60360	A-2475	5' Solid Sectional Rod, includes R-1 Male and R-2 Female Couplings	13⁄4	0.8
	60365	A-2476	10' Solid Sectional Rod, includes R-1 Male and R-2 Female Couplings	3	1.4

Accessories

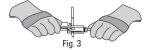
	Catalog	Model	Description	Wei	ight
	No.	No.	Description	lb.	kg
	59835	K-10	Complete Set of Quick-Connect Rod Couplings: One Each R-1 and R-2	3/8	0.2
	59560 59555	R-1 R-2	Male Rod Coupling Female Rod Coupling	1/4 1/8	0.1 0.1
	61875	R-7	Male Tool Coupling, connects Tool Adapter to Rodding Tool	1/2	0.2
	61885	R-8	Female Tool Coupling, connects Tool to Tool Adapter	1/2	0.2
9—/—	60700	A-2704	Tool Adapter, includes R-2 and R-7 Couplings	21/4	1.0
	62170 61895	B-3542 —	Rod Holder For K-1000 Rod Driver for K-2000	3¾ 5½	1.5 2.5
_1	62815	R-0	Rod Turner, used to manually turn Rods in short runs	31/4	1.5
	59205 59295	A-1 A-2	Left-Hand RIDGID Drain Cleaning Mitt Right-Hand RIDGID Drain Cleaning Mitt	½ ½	0.2 0.2
	59360	A-3	Tool Box	5	2.3
$\overline{}$	59225	A-12	Coupling Pin Key	1/8	0.1

Rods, Rodding Tools, and Accessories

- RIDGID K-10 quick-connect couplings make rodding jobs easier than ordinary threaded couplings:
 - To connect rods, align and snap them together for a solid connection (Fig. 1 and 2).



- To disconnect, insert the pin key and slide the couplings apart (Fig. 3).



- One coupling pin key replaces assembly tool and wrench required to connect ordinary threaded couplings. Easy-to-add rods or tools.
 No bulky reels.
- Convert existing tools and rods to the RIDGID quick-connect system:
- One pair of R1 and R2 couplings substitute for one threaded coupling.
- Standard left-hand and-right hand rod nuts fasten R1 and R2 couplings to existing rods.
- R-8 couplings adapt each rod tool to quick-connect system.
- A-2704 adapts rod couplings to larger-size tool couplings.

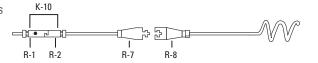
Tools

	Catalog	Model		We	ight
	No.	No.	Description	lb.	kg
D=/=0	62045	T-300	Spear Head	11%	0.8
=-/-W	62050 62055 62060 62065 62070	T-301 T-302 T-303 T-304 T-305	Round Stock Corkscrew, 1½" Round Stock Corkscrew, 2" Round Stock Corkscrew, 2½" Round Stock Corkscrew, 3" Round Stock Corkscrew, 3½"	1½ 1½ 1¾ 1¾ 1¾ 1¾	0.6 0.7 0.8 0.8 0.8
-/-M	62075 62080 62085	T-306 T-307 T-308	Double Corkscrew, 3" Double Corkscrew, 4" Double Corkscrew, 5"	2½ 2½ 2¾	1.0 1.1 1.2
5-/- /	62090 62095 62100 62105 62370 62375 62380	T-309 T-310 T-311 T-312 T-313 T-314 T-315	Square Stock Corkscrew, 3" Square Stock Corkscrew, 4" Square Stock Corkscrew, 5" Square Stock Corkscrew, 6" Square Stock Corkscrew, 10" Square Stock Corkscrew, 10" Square Stock Corkscrew, 12"	2½ 2½ 3¼ 3¾ 6½ 7½ 8¼	1.0 1.1 1.5 1.7 3.0 3.4 3.8
	62110 62115 62120 62125 62385 62390	T-316 T-317 T-318 T-319 T-320 T-321	Auger, 3" Auger, 4" Auger, 5" Auger, 6" Auger, 8" Auger, 10"	3 3½ 4½ 5 8½ 9½	1.4 1.5 2.0 2.3 3.9 4.3
>-/	62140	T-326	Pick-Up Tool	1	0.5

The following Heavy-Duty Cable Tools are also recommended for use with rod.

	Catalog No.	Model No.	Description	Replacement Blade(s)
	61800	T-2	Heavy-Duty Straight Auger	_
	61790	T-4	Heavy-Duty Funnel Auger	_
	63200	T-7	Hook Auger	_
	61960 61850 61855	T-16 T-17 T-18	Spiral Bar Cutter, 4" Spiral Bar Cutter, 6" Spiral Bar Cutter, 8"	97855 97955 97960
	63085	T-23	Spiral Sawtooth Cutter, 4"	97850
E	59765 59770 59775 59780	T-24 T-25 T-26 T-26A	4-Blade Cutter, 2½" 4-Blade Cutter, 3½" 4-Blade Cutter, 4½" 4-Blade Cutter, 5½"	97940 97975 97805 97980

- RIDGID rods meet ASTM-270 specifications.
- For 11/4" cables, tools, and accessories, see page 12.31.
- For %" cables, tools, and accessories, see page 12.29.



Electric Water Jetters

These jetters propel a highly flexible hose through 11/4" to 4" lines—blasting through sludge, soap and grease blockages.

As you pull the hose back, it power scrubs the line, flushing debris away and restoring drain lines to their free-flowing capacity.

- Easy to use:Thrust propels the hose down the line. You simply guide the hose into the drain.
- High Quality: Duplex pump with corrosion-resistant, forged brass head. New pressure control valve allows quick and easy pressure adjustment.
- Dependable: Reduced number of fittings, hoses and parts minimizes leaks and down time keeping you on the job.
- Versatile: Optional power washer package cleans cables, tools and other heavily soiled equipment.
- Approved by CSA to CSA and UL standards (115 V only).



KJ-1350 - 11/4" to 4" (32-100mm) Drain Lines

- **Powerful:** Actual working pressure of 1350 psi and flow of 1.4 GPM for fast, effective cleaning of lines.
- **Pulse Action:** Activate the KJ-1350's pulse action to easily negotiate difficult bends and traps. The KJ-1350-2 has a second level of pulse.
- **Portable and Compact:** The optional H-10 Cart rolls the jetter and hose to the job site. Jetter and hose reel are easily removed from the cart in seconds for hard to reach drains or remote storage. The compact cart offers a retractable handle and swivel hose reel minimizing storage space. Optional adapter allows the KJ-1350 to be mounted on the upright H-30 Cart.
- **Electrical Requirement:**The 1.5 HP motor draws a maximum of 14 Amps and can run on most standard 115 Volt circuits.



KJ-1750 — 11/4" to 4" (32-100mm) Drain Lines

- **Powerful:** Actual working pressure of 1750 psi and flow of 1.4 GPM for fast, effective cleaning of lines.
- Pulse Action: Two levels of pulse are standard. Activate the KJ-1750's pulse action to easily negotiate difficult bends and traps.
- Portable: The optional H-30 Cart rolls the jetter and hose to the job site. The
 jetter is easily removed from the cart in seconds for hard to reach drain or for
 remote storage. Optional adapter allows the KJ-1750 to be mounted on the
 compact H-10 Cart.
- **Electrical Requirement:**The 2.0 HP motor draws a maximum of 17 Amps which requires a 20 Amp, 115 Volt circuit.

Machine Options (115V)

Catalog No.	Model No.	Description	Wt.
62587	KJ-1350	KJ-1350 Standard Jetter with Pulse – H-21, H-22, and H-24 1/8" NPT Nozzles – 25' x 1/8" Sink Trap Hose – Nylon Storage Bag – Nozzle Cleaning Tool	70 lb. (31.7 kg)
62597	KJ-1350-C	Above With: - H-10 Cart - 100' x ¼" Trap Hose	120 lb. (54.4 kg)
63107	KJ-1350-2	KJ-1350 Jetter with Dual Pulse - H-21, H-22, and H-24 1/6" NPT Nozzles - 50' x 1/6" Sink Trap Hose - Nylon Storage Bag - Nozzle Cleaning Tool	72 lb. (32.7 kg)
63112	KJ-1350-2C	Above With: – H-10 Cart – 100' x ¼" Trap Hose	122 lb. (55.3 kg)
62687	KJ-1750	KJ-1750 Jetter with Dual Pulse - H-41, H-42, and H-44 1/6" NPT Nozzles - H-51 and H-52 1/4" NPT Nozzles - 50' x 1/4" Sink Trap Hose - Nylon Storage Bag - Nozzle Cleaning Tool	75 lb. (34.0 kg)
62697	KJ-1750-C	Above With: - H-30 Cart - 110' x ½" Jet Hose	155 lb. (70.3 kg)
67332	KJ-1750-SC	62687 with: – H-10 Cart – 100' x ¼" Trap Hose	125 lb. (56.7 kg)

Machine Options (230V)

Catalog No.	Model No.	Description	Wt.
66447	KJ-1750-E	KJ-1750 230V Jetter with Dual Pulse – H-41, H-42, and H-44 1/6" NPT Nozzles – 50' x 1/6" Sink Trap Hose – Nylon Storage Bag – Nozzle Cleaning Tool	75 lb. (34.0 kg)
66442	KJ-1750-E SC	Above With: – H-10 Cart – 100' x ¼" Trap Hose	155 lb. (56.7 kg)

Jetter Nozzles and Hoses

Jeller Nuzzies anu nuses						
Catalog	Model	Description		Hose	Hose	
No.	No.	•		I.D.	0.D.	
64707	H-21	KJ-1350 Propulsion Nozzle	1/8" NPT			
64712	H-22	KJ-1350 Penetrating Nozzle	Fits 1/8" &	-	_	
64717	H-24	KJ-1350 Drop Head Nozzle	1/4" Hose			
82832	H-25	KJ-1350 Spinning Nozzle				
64722	H-31	KJ-1350 Propulsion Nozzle	1/4" NPT	_	_	
64727	H-32	KJ-1350 Penetrating Nozzle	Fits 1/2" Hose			
64742	H-41	KJ-1750 Propulsion Nozzle	1/8" NPT			
64747	H-42	KJ-1750 Penetrating Nozzle	Fits 1/8" &	_	_	
64752	H-44	KJ-1750 Drop Head Nozzle	1/4" Hose			
82837	H-45	KJ-1750 Spinning Nozzle				
64757	H-51	KJ-1750 Propulsion Nozzle	1/4" NPT	-	-	
64762	H-52	KJ-1750 Penetrating Nozzle	Fits 1/2" Hose			
52957	H-1825	1/8" x 25' Sink Trap Hose		1/8"	3/16"	
53037	H-1850	1/8" x 50' Sink Trap Hose		1/8"	3/16"	
47592	H-1425	1/4" x 25'		3/16"	1/4"	
47597	H-1435	1/4" x 35'		3/16"	1/4"	
47602	H-1450	1/4" x 50'	1/4" Trap Hose	3/16"	1/4"	
49272	H-1475	1/4" x 75'		3/16"	1/4"	
49277	H-1400	½" x 100'		3/16"	1/4"	
64732	H-1415	1⁄4" x 150'		3/16"	1/4"	
50002	HL-1	Flexible Leader, 1/4" x 12"		1/8"	3/16"	
50007	HL-2	Flexible Leader, 1/2" x 18"		1/8"	3/16"	
47607	H-1250	½" x 50'		1/4"	1/2"	
47612	H-1275	½" x 75'		1/4"	1/2"	
47617	H-1200	½" x 100'		1/4"	1/2"	
51587	H-1211	½" x 110'	½" Jet Hose	1/4"	1/2"	
49487	H-1215	½" x 150'		1/4"	1/2"	
51597	H-1220	½" x 200'		1/4"	1/2"	

Jetter Accessories

Catalog No.	Model No.	Description
64697	H-10	H-10 Cart with Hose Reel
62592	H-10 WH	H-10 Cart with Hose Reel and 100' x 1/4" Trap Hose
62882	H-5	Mini Hose Reel (fits H-10 cart) 150' x 1/4" Capacity
64737	H-30	H-30 Cart with Hose Reel
62877	H-30 WH	H-30 Cart with Hose Reel and 110' x ½" Jet Hose
62887	HP-EL	Pressure Wash Package, Electric Jetters
64702	HW-EL	Wash Wand, Electric Jetters
51572	H-1235	½" x 35' Wash Hose
62897	H-10A	KJ-1750 Adapter to Fit H-10 Cart
62892	H-30A	KJ-1350 Adapter to Fit H-30 Cart
48367	H-25	Winterizing Kit
47542	H-21	Nozzle Cleaning Tool
67187	H-32	Jet Vac (See page 163 for details)
70032	_	RIDGID PVC Drain Cleaning Gloves
41937	_	RIDGID Leather Drain Cleaning Gloves
62757	_	Nylon Storage Bag

Jetter Nozzles

Model H-21 and H-31 (KJ-1350) Model H-41 and H-51 (KJ-1750) Propulsion Nozzles

General-purpose nozzle that works well in most applications. Features three reverse thrusters for maximum propulsion to jet long distances.



Model H-22 and H-32 (KJ-1350) Model H-42 and H-52 (KJ-1750 Penetrating Nozzles

Penetrating nozzle features an additional forward pointing jet that blasts a hole in solid ice or sludge blockages. Three reverse jets provide propulsion.



Model H-24 Drop Head Nozzle (KJ-1350) Model H-44 Drop Head Nozzle (KJ-1750)

Allows jetter hose to negotiate difficult bends and traps. Three reverse thrusters provide propulsion.



Model H-25 Spinning Nozzle (KJ-1350) Model H-45 Spinning Nozzle (KJ-1750)

Spinning action cleans the entire interior of pipe surface. Three reverse jets provide propulsion.



KJ-2200 Water Jetter



Model KJ-2200-C



Jets 11/4" to 6" (32-150mm) Drain Lines

This jetter propels a highly flexible hose through $1\frac{1}{4}$ " to 6" lines — blasting through sludge, soap and grease blockages. As you pull the hose back, it power scrubs the line flushing debris away, restoring drain lines to their full, free-flowing capacity.

- **Powerful:** Actual working pressure of 2200 psi and flow of 2.4 GPM for fast, effective cleaning of lines.
- Easy to Use:Thrust propels the hose down the line. You simply guide the hose into the drain.
- **Pulse Action:** Activate the KJ-2200's pulse action to easily negotiate difficult bends and traps.
- Portable: The optional H-30 cart rolls the jetter and hose to the job site. The
 jetter is easily removed from the cart in seconds for hard to reach drains, indoor
 applications or remote storage.
- **Convenient:** Standard equipment includes FV-1 foot valve. It makes remote or indoor operation simple and safe. You control the jetting action at the drain while leaving the jetter outdoors.
- Quality & Dependability: Triplex pump with corrosion-resistant, forged brass head. Reduced number of fittings, hoses and parts minimizes leaks and down time – keeping you on the job.
- **Versatile:** Optional power washer package cleans cables, tools and other heavily soiled equipment.
- New and improved 6.5 HP Recoil start gasoline engine starts easily.
 Features: ON/OFF switch; choke and throttle controls; easy access oil fill and dip stick.

Machine Options

Catalog No.	Model No.	Description	Wt.
63877	KJ-2200	KJ-2200 Jetter with Pulse – H-61, H-62, and H-64 ½" NPT Nozzles – H-71 and H-72 ½" NPT Nozzles – T5' x ½" Trap Hose – FV-1 Foot Valve – Nozzle Cleaning Tool	65 lb. (29.5 kg)
63882	KJ-2200-C	Above With: — H-10 Cart — 110' x ¹ / ₄ " Trap Hose	145 lb. (65.8kg)

Jetter Nozzles and Hoses

Catalog No.	Model No.		Description	Hose I.D.	Hose O.D.
64772	H-61	Propulsion Nozzle			
64777	H-62	Penetrating Nozzle	1/8" NPT		
64782	H-64	Drop Head Nozzle	Fits 1/4" Hose		
82842	H-65	Spinning Nozzle			
64787	H-71	Propulsion Nozzle	1⁄4" NPT		
64792	H-72	Penetrating Nozzle			
82852	H-75	Spinning Nozzle	Fits 1/2" Hose		
47592	H-1425	½" x 25'		3/16"	1/4"
47597	H-1435	½" x 35'		3/16"	1/4"
47602	H-1450	½" x 50'	1/4" Trap Hose	3/16"	1/4"
49272	H-1475	½" x 75'		3/16"	1/4"
49277	H-1400	½" x 100'	Orange	3/16"	1/4"
64732	H-1415	½" x 150'		3/16"	1/4"
50002	HL-1	Flexible Leader, 1/4"		1/8"	3/16"
50007	HL-2	Flexible Leader, 1/2"		1/8"	3/16"
47607	H-1250	½" x 50'		1/4"	1/2"
47612	H-1275	½" x 75'		1/4"	1/2"
47617	H-1200	½" x 100'		1/4"	1/2"
51587	H-1211	½" x 110'	½" Jet Hose	1/4"	1/2"
49487	H-1215	½" x 150'		1/4"	1/2"
51597	H-1220	½" x 200'	Black	1/4"	1/2"

Jetter Accessories

Catalog No.	Model No.	Description
62882	H-5	Mini Hose Reel (No Hose included)
64737	H-30	H-30 Cart with Hose Reel
62877	H-30 WH	H-30 Cart with Hose Reel and 110' x ½" Jet Hose
64077	HP-22	Pressure Wash Package, KJ-2200
64767	HW-22	Wash Wand, KJ-2200
51572	H-1235	Wash Wand Hose ½" x 35'
48157	FV-1	Foot Valve
66732	HF-4	Quick Connect Hose
48367	H-25	Winterizing Kit
47542	H-21	Nozzle Cleaning Tool
67187	H-32	Jet Vac
70032	_	RIDGID PVC Drain Cleaning Gloves
41937	_	RIDGID Leather Drain Cleaning Gloves

Jetter Nozzles

Model H-61 and H-71 Propulsion Nozzles

General-purpose nozzle that works well in most applications. Features three reverse thrusters for maximum propulsion to jet long distances.



Model H-62 and H-72 Penetrating Nozzles

Penetrating nozzle features an additional forward pointing jet that blasts a hole in solid ice or sludge blockages. Three reverse jets provide propulsion.



Model H-64 Drop Head Nozzle

Allows jetter hose to negotiate difficult bends and traps. Three reverse thrusters provide propulsion.



Model H-65 and H-75 Spinning Nozzle

Spinning action cleans the entire interior of pipe surface. Three reverse jets provide propulsion.



Jet Vac

For use with all RIDGID water jetters:

The Jet Vac attaches to any portable water jetter to quickly move (vacuum) liquid and debris from flooded basements, sumps, swimming pools, construction sites, car wash pits, etc. This cost and time saving product will move up to 60 gallons of liquid per minute.



Jet Vac Unit

KJ-3000 Water Jetter





Jets 2" to 8" (50-200mm) Drain Lines

The RIDGID KJ-3000 portable water jetter gives you 3000 psi actual working pressure to handle large commercial and industrial applications. This jetter propels a highly flexible and lightweight hose through 2" to 8" lines — blasting through sludge, soap, grease, and sediment blockages. As you pull the hose back, it power scrubs the line flushing debris away and restoring drain lines to their full, free-flowing capacity — all without the use of harmful chemicals.

- **Powerful:** Actual working pressure of 3000 psi and flow of 4.0 GPM for fast, effective cleaning of lines.
- **Lightweight Hose:** Hose with nylon braid provides significant weight reduction and increased flexibility all without reducing strength. Allows the thrust to propel the hose further down the line.
- Complete: With the KJ-3000's removable hose reel, there is no need to purchase expensive portable hose reels. Standard packages come equipped to handle indoor and remote applications.
- Convenient: Completely remove the hose reel to ease loading onto service trucks. Simply rotate the hose reel forward to gain full access to the engine's gas tank and air filter.
- Maneuverable: In the heavy-duty 3000 psi jetter category, the RIDGID
 KJ-3000 is one of the most maneuverable jetters on the market. The unit, on its
 unique two-wheeled cart, easily fits through standard size doors and can
 negotiate tight turns with the greatest of ease.
- Pulse Action: Activate the KJ-3000's pulse action to easily negotiate difficult bends and traps.
- Quality & Dependability: Triplex pump with corrosion-resistant, forged brass head. Gear reducer allows pump to run at slower (optimal) speed. Reduced number of fittings, hoses and parts minimizes leaks and downtime keeping you on the job.
- **Versatile:** Power wash package and chemical injector system cleans cables, tools, and other heavily soiled equipment.
- 13 HP Recoil start gasoline engine starts easily. Features: ON/OFF switch; choke and throttle controls; easy access oil fill and dip stick.



Root Ranger root cutting jetter nozzle now included with every KJ-3000.

Machine Options

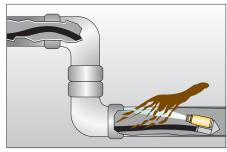
Catalog No.	Model No.	Description	Wt.
64882	KJ-3000	KJ-3000 Jetter with Pulse - H-91 and H-92 ¼" NPT Nozzles - RR3000 Root Cutting Nozzle - H-38 Hose Reel with 200' x ¾" ID Jet Hose - 50' x ¾" ID Jet/Wash Hose - Pressure Wash Package - FV-1 Foot Valve - Nozzle Cleaning Tool	215 lb. (97.5 kg) 160 lb. (72.6 kg) w/o Hose Reel
64892	KJ-3000-E	Above With: - Electric Start Engine (Battery not included)	225 lb. (102.1 kg) 170 lb. (77.1 kg) w/o Hose Reel

Jetter Nozzles and Hoses

Catalog No.	Model No.	Descriptio	n	Hose I.D.	Hose O.D.
64802	H-81	Propulsion Nozzle			
64807	H-82	Penetrating Nozzle	1/8" NPT		
64812	H-84	Drop Head Nozzle	Fits 1/4" Hose		
82847	H-85	Spinning Nozzle			
64817	H-91	Propulsion Nozzle			
82857	H-95	Spinning Nozzle	1/4" NPT		
64822	H-92	Penetrating Nozzle	Fits 3/8" Hose		
16713	RR3000	Root Ranger Root Cutting Nozzle			
47592	H-1425	1/4" x 25' Trap Hose		3/16"	1/4"
47597	H-1435	1/4" x 35' Trap Hose		3/16"	1/4"
47602	H-1450	1/4" x 50' Trap Hose	1/4" Trap Hose	3/16"	1/4"
49272	H-1475	1/4" x 75' Trap Hose	Orange	3/16"	1/4"
49277	H-1400	1/4" x 100' Trap Hose		3/16"	1/4"
64732	H-1415	1/4" x 150' Trap Hose		3/16"	1/4"
64827	H-3835	3/8" ID x 35' Wash Hose		3/8"	5/8"
64832	H-3850	3/8" ID x 50' Jet/Wash Hose		3/8"	5⁄8"
64837	H-3810	3/6" ID x 100' Jet Hose	248 1 . 11	3/8"	5/8"
64842	H-3815	3/8" ID x 150' Jet Hose	3/8" Jet Hose	3/8"	5/8"
64847	H-3820	3/8" ID x 200' Jet Hose	Black	3/8"	5/8"
64852	H-3825	3/8" ID x 250' Jet Hose		3/8"	5/8"
64857	H-3830	3/8" ID x 300' Jet Hose		3/8"	5/8"

Jetter Accessories

Dellei Acce	3301163	
Catalog No.	Model No.	Description
62882	H-5	Mini Hose Reel
64862	H-38	Hose Reel (Fits KJ-3000)
64902	H-38 WH	Hose Reel with 200' x 3/6" ID Hose (Fits KJ-3000)
64797	HW-30	Wash Wand, KJ-3000
48367	H-25	Winterizing Kit
48157	FV-1	Foot Valve
66732	HF-4	Quick Connect Hose (Reel to Foot Valve)
47542	H-21	Nozzle Cleaning Tool
67187	H-32	Jet Vac
70032	_	RIDGID PVC Drain Cleaning Gloves
41937	_	RIDGID Leather Drain Cleaning Gloves



Clear tough blockages and tree roots with Root Ranger 3000.

Jetter Nozzles

Model H-81 and H-91 Propulsion Nozzles

General-purpose nozzle features three reverse thrusters for maximum propulsion to jet long distances.



Model H-82 and H-92 Penetrating Nozzles

Additional forward pointing jet blasts a hole in solid ice or sludge blockages. Three reverse jets provide propulsion.



Model H-84 Drop Head Nozzle

Allows Jetter hose to negotiate difficult bends and traps. Three reverse thrusters provide propulsion.



Model H-85 and H-95 Spinning Nozzles

Spinning action cleans the entire interior of pipe surface. Three reverse jets provide propulsion.



Foot Pedal

The foot pedal's ON/OFF control gives you total control of the jetting action at the drain opening. It frees both hands to guide the jetting hose into the drain opening and around bends and traps.

Jet Vac

For use with all RIDGID water jetters:

The Jet Vac attaches to any portable water jetter to quickly remove (vacuum) liquid and debris from flooded basements, sumps, swimming pools, construction sites, car wash pits, etc. This cost and time saving product will move up to 60 gallons of liquid per minute.



Jet Vac Unit

For Drain Guns, Sink Drums, and Small Line Sectional Machines

		Model	Length	Typical Application	Characteristics	Machines	
	Bulb Auger	C-1 C-21	25' 50'	Drain Lines ¾* to 1½*. Kitchen Sinks, Lavatory Sinks, Bathtub Drains, Drinking Fountains and Urinals.	- Hollow core cables that provide maximum flexibility for	K-25/K-26 (25' only)	
, 5/46" (8mm)	Drop Head	C-2 C-22	25' 50'	Drain Lines ¾" to 1½". Drop Head leads into down drain pipes, especially good for back-to-back mounted fixtures and severe bends.	severe bends and "P" Traps.	K-39 K-40 K-50*	
	Inner Core w/ Bulb Auger	C-1IC C-13IC	25' 35'	Drain Lines 11/4" to 2". Kitchen Sinks, Lavatory Sinks, Slop Sinks and Laundry Lines.		K-25/K-26 (25' only)	
	Inner Core w/ Drop Head	C-2IC C-23IC	25' 35'	Drop Head leads into down drain pipes, especially good for back-to-back mounted fixtures and severe bends.	Inner core cables that provide good flexibility while resisting kinking.	K-39, K-40 K-3800, K-50*	
. (iu	Male Coupling	C-4 C-6 C-6IC	25' 35' 35'	Drain Lines 1¼" to 2½". Kitchen Sinks, Lavatory Sinks, Slop Sinks, and Disposal Waste Lines.	Flexible, yet tough %" cable most commonly used after traps have been	K-39	
3/8" (10mm)	Bulb Auger	C-5	35'	Drain Lines 1¼" to 2½". Kitchen Sinks, Lavatory Sinks, Slop Sinks, and Disposal Waste Lines.	removed. C-6IC slightly stiffer than C-6.	K-40 K-50*	

For Drum Machines

*See Page 12.25 for Proper Adapter or Sink Drum.

		Model	Length	Typical Application	Characteristics	Machines
3%" (10mm)	w/Inner Core	C-31,C-31IW C-32,C-32IW C-33,C-33IW	50' 75' 100'	Drain Lines 1½" to 2½". Kitchen Sinks, Lavatory Sinks, Slop Sinks and Laundry Stacks.	Good flexibility. As torque builds, outer spring tightens on wire core causing cable to stiffen and transfer greater torque to cutter.	K-400 K-3800
1½" (12mm)	w/Inner Core	C-44,C-44IW C-45,C-45IW C-46	50' 75' 90'	75' Urain Lines 2" to 4". Laundry Stacks, Hoot Vents and Same characteristics as above. Exceptional flowing the Characteristics as above. Exceptional flowing the Characteristics as above.		K-400 K-3800
5/8" (16mm)	w/Inner Core	C-25,C-25IW C-26,C-26IW C-27,C-27IW C-24,C-24IW	25' 50' 75' 100'	Drain Lines 3" to 6". Floor Drains, Vents, and Laterals.	General purpose cable. Inner core provides greater stiffness under load.	K-750 K-6200 K-7500
5	w/Hollow Core	C-27HC C-24HC	75' 100'	Drain Lines 3" to 6". Floor Drains, Vents, and Laterals.	Hollow core cable is lighter in weight & more flexible. Helps operator negotiate difficult traps & bends in large lines.	K-750 K-7500
3/4" (20mm)	w/Inner Core	C-28 C-29 C-75 C-100	25' 50' 75' 100'	Drain Lines 4" to 10". Main Lines including Laterals.	Powerful cable used for heavy-duty blockages such as tree roots. Cable tightens on core to provide extra stiffness under load, delivering power to cutter.	K-750 K-7500
; (20)	w/Hollow Core	C-75HC C-100HC	75' 100'	Drain Lines 4" to 6". Main Lines including Laterals.	Hollow core cable is lighter in weight and more flexible. Helps operator negotiate difficult traps and bends in large lines.	K-750 K-7500

For Sectional Machines

		Model	Length	Typical Application	Characteristics	Machines
	<	C-7	7½'	2" and 3" Floor Drains.	Tight wind cable providing good rigidity in a hollow core cable. Not for tree roots.	K-50, K-60SP K-75A/B*
5/8" (16mm)	T-1-2000000	C-8	7½'	Drain Lines 11/4" to 2". Ideal for proper cleaning of small lines.	Open wind cable that is more flexible than C-7. Open wind acts as an auger to thoroughly remove blockages in small lines.	K-50, K-60SP K-75A/B*
	<	C-9	10'	Drain Lines 2" to 4". Ideal for Floor Drains and Stacks.	Heavy-Duty open wind cable ideal for long runs in indoor lines.	K-50, K-60SP K-75A/B*
7,8" (22MM)	Current Control	C-10	15'	Drain Lines 2" to 4". Rooftop Vent Stacks.	to 4". Rooftop Vent Stacks. Standard all-purpose open wind. Excellent flexibility.	
(3)		C-11	15'	Drain Lines 3" to 8". Good for all around work. Easily negotiates 4" Traps.	Standard all-purpose open wind with %" pitch. Flexible, yet rigid enough to do fast, tough root cutting.	K-1500A/B/& SP
11/4" (32mm)	<	C-12	15'	Drain Lines 4" to 10". Do not use through 4" "P" Traps.	Extra-heavy-duty open wind with %" pitch. Designed for 4" to 10" long runs.	K-1500A/B/& SP
(32		C-14	15'	Drain Lines 3" to 10". Do not use through 4" "P" Traps.	Heavy-duty open wind with ½" pitch. Especially good For 4" cleanout or 8" elbow entering in 4" to 10" line.	K-1500A/B& SP
	(International)	C-15	15'	Drain Lines 3" to 6". Ideal for 4" Traps.	Extra-flexible open wind with ½" pitch. Lighter than C-11, slightly stiffer.	K-1500A/B

*See Pages 12.29 & 12.31 for Proper Jawset.

Drop Head Auger

For cleaning back to back mounted fixtures e.g., sinks where cable needs to be led into down pipe.



Straight Auger

For use in exploring and breaking up stoppages or returning sample to surface to determine correct tool.



Funnel Auger

For use as second tool in line. Breaks up remains of stoppage left by straight



Hook Auger

For heavy and dense root stoppages in pipes that require hooking and





Retrieving Auger

For searching for cable which is broken or lost in line.



Spade Cutter

For following up after augers have been used and to open up floor drains.



Four Blade Saw Tooth Cutter

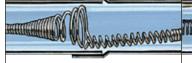
For blockages caused by hardened, glazed material such as chemical



Grease Cutter

For lines which have become badly greased with detergents and have to be opened.





Spiral Saw Tooth Cutter

For clearing any stoppage, roots, rags, sticks, etc.



Saw Tooth Cutter

For cleaning lines blocked heavily with roots. Unique design permits cutter to be removed from damaged pipe without



Spiral Bar Cutter

For main sewers blocked by roots, leaf debris, sticks, sawdust, cloth, and



Sharktooth Cutter

For use in cleaning pipes of general material clinging to pipe walls.





Grease "C" Cutter

For grease blockage in lines leading from garbage disposal unit or waste pipe.



Expanding Finish Cutters

For final removal of material adhering to walls and certain roots of fibrous nature.



Chain Knocker

For use when vigorous action is required for cleaning of scale in pipes and boiler



Flue Brush

For use for finish cleaning required of boiler tubes and heat exchangers.













Sump, Utility and Sewage Pumps

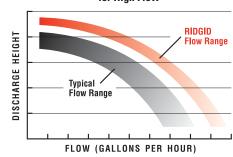


RIDGID sump, utility and sewage pumps offer the quality, performance and dependability expected from the RIDGID name.

Premium Components for Longer Life

- Cast Iron housings and impellers for abrasion resistance.
- Stainless steel motor housing and impeller seal plates for corrosion resistance.
- · Industrial grade motors.
- Backed by the RIDGID Lifetime Warranty.

Premium Performance for High Flow



- Top suction intake for increased reliability.
- 1½" discharge for high flow.

SP-500P ½ HP



Sump Pumps

Premium Performance

- Top suction intake filters debris for increased reliability.
- 1½" diameter discharge for higher flows.
- Fits into small 11" diameter sump basins.
- Horsepower choices of 1/3, 1/2 or 1 HP.
- 115 V units UL Listed and approved to CSA standards.

Catalog	Model	Description	Capacity*	We	eight
No.	No.	Description	GPH	lb.	kg
85942	SP-330	1/3 HP Submersible Sump Pump	3,100	17	7.7
85992	SP-330D	1/3 HP Submersible Sump Pump w/Diaphragm Switch	3,100	17	7.7
85937	SP-500	1/2 HP Submersible Sump Pump	4,400	20	9.1
85952	SP-500P	1/2 HP Pedestal Sump Pump	4,100	16	7.3
25423	SSP-1000	1 HP Switchless Industrial Submersible Sump Pump	5,400	24	10.9

^{*}Note: Capacity in gallons per hour at zero foot discharge height

SP330 1/3 HP Sump Pump



CONTRACTOR





TP-4000 4 HP Utility Semi-Trash Pump



2" Hose Kit for TP-4000

Utility Pumps

- Two electric utility pumps to fit most water transfer applications with dry run capability for unattended operation.
- Two gas-driven semi-trash pumps in 4 HP and 5.5 HP ratings.
 - Premium Honda® engines for easy starts and longer life.
 - Cast iron pump & impeller for durability and longer life.
 - Heavy-duty roll cage for stability.
 - Intake flapper to retain prime.
 - Solids handling up to 5/8" diameter.

Catalog	Model	Description	Capacity*	We	eight
No.	No.	Description	GPH	lb.	kg
85987	TP-250	1/4 HP Submersible Utility Pump	1,100	8	3.6
85957	TP-4000	4 HP Utility Semi-Trash Pump	9,600	48	21.8
85962	TP-5500	5.5 HP Utility Semi-Trash Pump	16,800	72	32.7
90702	-	2" Hose Kit for TP-4000 includes suction/ discharge hoses & connectors	-	25	11.5
90707	-	3" Hose Kit for TP-5500 includes suction/ discharge hoses & connectors	-	53	24

^{*}Note: Capacity in gallons per hour at zero foot discharge height



SEP-500 1/2 HP Residential Sewage Pump

Sewage Pumps

- SEP-500 (1/2 HP) for residential applications
 - -2" or 3" discharge capability.
 - Vortex impeller design generates high flow rates.
 - Solids handling up to 2" diameter.

Catalog	Model	Description	Capacity*	Weight	
No.	No.	2000 i pilon	GPH	lb.	kg
85967	SEP-500	1/2 HP Residential Sewage Pump	8,600	24	10.9

Note: Capacity in gallons per hour at zero foot discharge height.



VP2000 Quick Connect Pump

Quick Connect Pump

Ideal accessory for and RIDGID wet/dry vacuum with a drain. Pumps 10 gallons per minute.

Catalog	Model	Description	Capacity*	Weight	
No.	No.		GPH	lb.	kg
26453	VP2000	Quick Connect Pump	600	2.0	0.9

Note: Capacity in gallons per hour at zero foot discharge height.



Wet/Dry Vacuums

- Four to sixteen gallon capacities.
- Proprietary motor and blower combination to maximize performance.
- Rugged polypropylene drums are impact and corrosion resistant.

Туре	No. of Models	Gallon Capacity	Page No.
Commercial Series Wet/Dry Vacuums	9	4-16	13.2
Industrial Series Wet/Dry Vacuums	2	14-16	13.3
Accessories	36	_	13.4-13.5
Air Mover	1	-	13.6
Air Filtration System	1	_	13.6
Quick Connect Pump	1	-	13.6



Commerical Series Wet/Dry Vacuums

Ridge Tool offers a complete line of commercial grade wet/dry vacuums. The new RIDGID Wet/Dry Vacs are the highest powered vacuums in the industry — offering 2 to 6.5 peak horsepower in 4 to 16 gallon capacities. They are an excellent accessory to your shop or garage, making easy clean-up for even the most challenging jobs...wet or dry.The RIDGID Wet/Dry Vacs offer the following features:

- Proprietary motor and patented blower wheel designed to maximize performance.
- Pleated filter has more surface area for greater efficiency and longer life.
- Reduced dB level resulting in even quieter operation.
- Rugged polypropylene drums are impact and corrosion resistant.
- Automatic suction shut-off senses and prevents liquid overflow; integral drain plug makes draining the vacuum easy.
- All units convert to a powerful blower with at least 150 mph blowing velocity.

The new ProVac series offers dynamic redesign and styling, a stronger 2-piece drum, an improved noise reduction system, and a built-in filter sensor with an advanced 3-stage filter for better motor performance. In addition, the ProVac WD1850 has a removable soft storage bag to secure accessories and tools, while the WD1950 boasts all the great new features of the ProVac series in a stainless steel drum.

















Catalog	Model	Description	Sealed	Peak Horse	Airflow	Air Wotto	Air Watts Cord		ight
No.	No.	Description	Pressure	Power	2½" Orifice	All Walls	Length	lb.	kg
15813	WD4050	4 Gallon Wet/Dry Vacuum	50"	5.0	150 cfm	235	20'	12.0	5.4
22713	WD4550	4.5 Gallon Wet/Dry Vacuum Pro-Pack	48"	5.0	100 cfm	165	20'	15.0	6.8
22718	WD5500	5 Gallon Wet/Dry Vacuum (Wall-Mount Unit)	45"	5.0	95 cfm	152	20'	24.0	10.9
96877	WD0635	6 Gallon Wet/Dry Vacuum	48"	2.0	100 cfm	170	10'	16.0	7.3
96887	WD1246	12 Gallon Wet/Dry Vacuum	48"	5.0	175 cfm	270	15'	22½	10.2
18718	WD1450	14 Gallon Wet/Dry Vacuum	48"	6.0	180 cfm	280	20'	25.0	11.4
96897	WD1665	16 Gallon Wet/Dry Vacuum w/Detachable Blower	50"	6.5	120 cfm	340	20'	28.0	12.8
18723	WD1850	16 Gallon Wet/Dry Vacuum ProVac	50"	6.5	180 cfm	290	20'	36.0	16.4
22708	WD1950	16 Gallon Wet/Dry Vacuum Stainless Steel	53"	6.5	203 cfm	336	20'	43.0	19.5



RV2400A 14-Gallon



RV400B 16-Gallon

Industrial Series Wet/Dry Vacuums



RIDGID 2-stage wet/dry vacuums are designed and built for the toughest heavy debris and fluid pickup applications.

- Powerful heavy-duty dual-stage motor provides maximum suction power.
- All new heavy-duty design including a two-piece drum for extra strength.
- Power head with a patented SNR "Scroll Noise Reduction" design provides better airflow and suction with less noise. The result – more power and quieter operation.
- 14- or 16-gallon capacity for large jobs.
- Tug-A-Long™ positive locking mechanism securely locks the hose to the vacuum so the hose will not pull out during use.
- Dual layer hose provides maximum durability and crush resistance.
- Heavy-duty cart system with large non-marring wheels provides easy movement over the toughest terrains.
- · Quick-release cart handle makes emptying the drum easy.
- Removable accessory storage bag keeps accessories together and at hand.
- Fine particle filter treated with Microban™ provides exceptional filtration, even for drywall
 dust. It is washable, reusable, clogs less and can be used for both wet and dry operation.
 Microban technology limits the growth of bacteria, mold and microbials.
- Blowing port included to provide a powerful force for blowing leaves, grass clippings, etc.
- Large built-in drain is located at the lowest point of the drum for complete draining of liquids.

Catalog	Model	Description	Sealed	Airflow	Air Watts	20' 37.0 1 20' 40.0 1	ight	
No. No.	Description	Pressure	2½" Orifice	Air vvaus	Length	lb.	kg	
25648	RV2400A	14 Gallon 2-stage Wet/Dry Vac	95"	104 cfm	289	20'	37.0	16.8
25653	RV2600B	16 Gallon 2-stage Wet/Dry Vac	96"	104 cfm	289	20'	40.0	18.2
24608	VT2570	10' ProHose, 2.5" diameter	_	_	_	_	4.0	1.8

Accessories

Vacuums are offered with a variety of standard equipment and accessories as indicated below. The three-stage high efficiency filter is standard on the ProVac series and also fits the other models. () denotes quantity.

	Catalog	Model	D					Standa	ırd Equipm	ent With				
	No.	No.	Description	WD4050	WD4550	WD5500	WD0635	WD1246	WD1450	WD1665	WD1850	WD1950	RV2400A	RV2600B
	72887	VT2501	Dusting Brush		•	•								
	72892	VT2506	Blower Nozzle							•				
	72897	VT2507	7' Vacuum Hose				•							
	72902	VT2508	Extension Wand			•(2)	•(2)	•(2)	•(2)	•(2)	•(2)	•(2)		
	72907	VT2509	Utility Nozzle		•	•	•	•	•	•	•	•		
	72912	VT2510	Wet Nozzle					•	•	•	•	•		
	72917	VT2511	2½" Hose Connector											
	72922	VT2514	14" Floor Brush											
	72927	VT2525	Noise Muffler	•		•	•	•	•	•	•	•		
	72932	VT2502	Crevice Tool		•	•								
	72937	VT2503	Car Nozzle	•		•		•	•	•	•	•		
	83727	VT2520	Tug-A-Long Hose	•				•	•	•	•	•		
2	83892	_	1¼" Vac Hose											
	72947	VF4000	Standard Pleated Paper Filter				•	•	•	•	•	•	•	•
	72952	VF5000	High Efficiency 3-Stage Filter				•	•	•	•	•	•	•	•
	26643	VF3500	High Efficiency with Microban®	•	•									
	83862	VF3000	Filter for TV3000											
	97457	VF6000	HEPA Filter				•	•	•	•	•	•	•	•
	23738	VF3501	Air Filter Bags	•(2)	•(2)									
	23743	VF3502	Air Filter Bags						•(2)		•(2)			

Catalog	Model						Standa	ard Equipm	ent With				
No.	No.	Description	WD4050	WD4550	WD5500	WD0635	WD1246			WD1850	WD1950	RV2400A	RV2600B
26593	VT1780	1%" Accessory Kit	•	•	•	•							
29848	VT1781	17⁄8" Car Nozzle	•	•	•	•							
29843	VT1782	1%" Hose Assembly	•			•							
23783	VT1785	11%" Dusting Brush	•	•	•	•							
23778	VT1786	1%" Crevice Tool	•	•	•	•							
29838	VT1787	11/4" Extension Wand	•	•	•	•							
31063	VT1789	1%" Utility Nozzle	•	•	•	•							
31068	VT1790	17/8" Wet Nozzle	•	•	•	•							
31073	832077	Multi-Nozzle Body										•	•
31078	832079	Floor Brush Insert											•
31038	832080	Carpet Insert											•
31088	832078	Squeegee Insert											•
31098	831377	Tug-A-Long-Hose										•	•
31103	832068	Extension Wand Upper Metal											•
31108	832069	Extension Wand Lower Metal											•
31093	VT2540	Claw Nozzle											•

Professional Portable Air Mover





The quick drying action of the RIDGID air mover can be used to dry wet floors, wet carpets or other water-damaged areas. It is also ideal for drying shampooed upholstery or drywall, providing ventilation and more.

- Heavy duty ½ HP, 5.0 Amp induction motor with three airflow speed settings. Quiet, long-lasting, extended life design.
- Long 30' power cord for extended reach with a built-in cord wrap.
- Three-position base varies direction of airflow. Multi-position housing directs air upward by tilting the unit to a stable 45° or 90° position.
- Professional styling and bold color signals caution while drying slippery floors.
- · Impact resistant housing and durable design.

Catalog	Model	Description	Cord Length	We	eight	
No.	No.	Description	(ft.)	lb.	kg	
21113	AM2550	Air Mover	30'	35	16	

Portable Air Filtration System



A lightweight, portable air filtering unit that removes small, airborne dust particles for a cleaner work environment.

- Can be carried to jobsite or mounted between joists/studs.
- 200 cfm air flow delivers 8 air changes per hour in a 15' x 10' room.
- 93% of debris @ 5 microns is trapped in two-stage filter design.

	Catalog	Model	Description	Airflow	Cord Length	Weight		
	No.	No.	Description	Airiiow	(ft.)	lb.	kg	
ľ	72957	AF2100	Portable Air Filtration System	200 cfm	10'	10.0	4.54	
	72962	RF2001	Foam Filter for AF2000	_	_	1.0	0.45	
Į	72967	RF2002	Cone Filter for AF2000	_	_	1.0	0.45	

Quick-Connect Pump NEW





Ideal accessory for any RIDGID wet/dry vacuum with a drain. Pumps 10 gallons per minute.

Catalog		Description	Capacity	Weight		
No.	No.	5. 5.5.7 p .1.5.11	GPH	lb.	kg	
26453	VP2000	Quick Connect Pump	600	2.0	0.9	



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3.			1				206	3.5	345M	8.6		
3. 7.17 30. 3.15 150. 3.16 216. 7.5 388. 8.3 1224.BM. 7.6 3.S. 3.2 30. 3.16 150-L. 3.14 220. 7.5 360. 4.17 1224-M. 7.6 4. 7.17 31-A BSFT. 4.3 150-L. 3.14 223. 3.19 364. 4.26 1232-BM. 7.6 4. 7.16 31-A BSFT. 4.3 150-L. 4.21 226. 3.4 357. 8.6 1229. 6.4 4. 4.12 32. 4.17 150-A. 4.28 226. 3.5 357. 8.6 1290. 6.4 10. 3.16 32. 7.5 150-A. 4.24 228. 3.5 37.7 8.6 1290. 5.4 10. 3.13 35. 3.15 151. 3.16 221. 221. 3.5 3.5 7.4 1321. 7.17 10. 1.2	3	7.16	25	1.6			206	3.5	345M/150	8.6	1224	4.28
3-S. 3.2 30. 3.16 150-L 3.14 220. 7.5 360. 4.17 1232-A. 7.6 4. 4.12 31-A BSPT 4.3 150-LS 3.14 223S 3.19 364 4.26 1232-BM 7.6 4. 7.17 31-A NPSM 4.3 150-A. 4.19 226 3.6 368 8.3 1248 6.4 4. 7.16 31-A NPT 4.3 150-A. 4.21 226 3.4 375 8.6 1249 6.4 4. 4.12 32. 4.17 150-A. 4.28 226 3.5 377 8.6 1250 6.4 4. 4. 4.12 32. 4.17 150-A. 4.28 226 3.5 377 8.3 1250 5.4 10. 3.16 32 5.5 8 150-A. 4.26 227S 3.19 378 8.3 1250 5.4 10. 3.15 32. 7.5 150-A. 4.24 228 3.5 395 7.4 1321 7.17 10. 1.3 35 S. 3.15 151 3.16 241 4.26 402 4.12 1380 7.13 10. 1.2 36 1.2 151 3.15 246 3.5 403 8.2 1406 4.26 10. 7.16 36. 7.17 151-P 3.16 246 3.5 403 8.2 1406 4.26 10. 7.16 36. 7.17 151-P 3.16 246 3.5 404 8.2 1421 7.17 11-R 4.4 39. 2.3 151-P 3.15 250 4.24 405 8.2 1450 9.2 11-R (NFM) 4.5 100-B 10.12 152 3.16 254 3.7 406M 8.2 1452 4.7 11-R (NFM) 4.5 100-B 10.4 152 6.4 258 3.9 408 8.2 1462 4.28 11-R (NFM) 4.5 100-A 4.26 152-P 3.16 258PS 3.9 408M 8.2 1460 4.26 11-R (NFM) 4.5 100-A 4.26 152-P 3.16 258PS 3.9 408M 8.2 1462 4.28 11-R (NFM) 4.5 100-A 4.26 152-P 3.16 258PS 3.9 408M 8.2 1462 4.28 11-R (NFM) 4.5 100-A 4.21 153 3.15 276 3.3 148 4.14 1619 7.8 12-R 4.3 100-A 4.21 153 3.15 276 3.3 148 4.14 1619 7.8 12-R 4.3 100-A 4.21 153 3.15 276 3.3 148 4.14 1619 7.8 12-R 4.3 100-A 4.21 153 3.15 276 3.3 148 4.14 1619 7.8 12-R 4.3 100-A 4.21 153 3.15 276 3.3 148 4.14 1610 7.8 12-R 4.3 100-A 4.21 153 3.15 276 3.3 148 4.14 1610 7.8 12-R (NFM) 4.5 10.3 3.16 154- 3.15 300 Compat 4.24 418 4.14 1620 7.8 12-R (NFM) 4.5 10.3 3.16 154- 3.15 300 Compat 4.24 418 4.14 1620 7.8 12-R (NFM) 4.5 10.3 3.16 154- 3.15 300 Compat 4.24 418 4.14 1620 7.8 12-R (NFM) 4.5 10.3 3.16 154- 3.15 300 Compat 4.24 418 4.14 1620 7.8 12-R (NFM) 4.5 10.3 3.16 154- 3.15 300 Compat 4.24 418 4.14 1620 7.8 12-R (NFM) 4.5 10.3 3.16 154- 3.15 300 Compat 4.24 418 4.14 1620 7.7 12-R (NFM) 4.5 10.3 3.16 154- 3.15 300 Compat 4.24 418 4.14 1620 7.7 12-R (NFM) 4.5 10.3 3.16 154- 3.15 300 Compat 4.24 418 4.14 1620 7.7 12-R (NFM) 4.5 10.3 3.16 154- 3.15 300 Compat 4.24 418 4.14 1620 7.7 12-R (NFM) 4.5 10.3 3.16 156- 3.15			27	2.3					346	4.1	1224-A	7.6
4 4.12 31.A BSPT 4.3 150-LS 3.14 223S 3.19 364 4.26 1232-BM 7.6 4 7.16 31.A NPT 4.3 150A 4.21 226 3.6 388 8.3 1248 6.4 4 4.12 32 4.17 150A 4.21 226 3.5 377 8.6 129 6.4 10 3.16 32 5.8 150A 4.24 228 3.5 377 8.6 1250 6.4 10 3.15 32 7.5 150A 4.24 228 3.5 355 7.4 1321 7.17 10 1.3 35 S 3.15 151 3.16 241 4.26 402 4.12 1380 7.13 10 1.76 36 7.17 151-P 3.16 246 3.5 404 8.2 1420 7.7 11-R 4.3 40A 2 152<	3	7.17	30	3.15			216	7.5	358	8.3		
4 7.17 31-A NPSM 4.3 150A 4.19 226 3.6 368 8.3 1248 6.4 4 7.16 31-A NPT 4.3 150A 4.28 226 3.4 375 8.6 1250 6.4 10 3.16 32 5.8 150A 4.26 227S 3.19 378 8.3 1260 5.4 10 3.15 32 7.5 150A 4.26 227S 3.19 378 8.3 1260 5.4 10 3.13 35 3.315 151 3.16 241 4.26 402 4.12 130 7.17 10 7.12 36 7.17 151-P 3.15 246 3.5 403 8.2 1406 4.26 10 7.16 36 7.17 151-P 3.15 250 7.5 406 8.2 1452 7.17 11-R 4.23 40-A 2.2 1	3-S	3.2	30	3.16			220	7.5	360	4.17	1232-A	7.6
4. 7.16			31-A BSPT	4.3	150-LS	3.14	223S	3.19	364	4.26	1232-BM	7.6
4 4,12 32 4,17 150A 4,28 226 3,5 377 8,6 1250 6,4 10 3,16 32 5,8 150A 4,26 227S 3,19 378 8,3 1260 5,4 10 3,15 32 7,5 150A 4,24 228 3,5 395 7,4 1321 7,17 10 1,3 35S 3,15 151 3,16 241 4,26 402 4,12 1380 7,13 10 7,16 36 7,17 151-P 3,16 246 3,5 403 8,2 1406 4,26 10 7,16 36 7,17 151-P 3,16 246 3,5 404 82 1450 9,2 11-R 4,43 39 2,3 151-P 3,16 250 7,5 406 8,2 1452 4,17 11-R 195PP 4,6 100-B 10,12 <td>4</td> <td>7.17</td> <td>31-A NPSM</td> <td>4.3</td> <td>150A</td> <td>4.19</td> <td>226</td> <td>3.6</td> <td>368</td> <td>8.3</td> <td>1248</td> <td>6.4</td>	4	7.17	31-A NPSM	4.3	150A	4.19	226	3.6	368	8.3	1248	6.4
10. 3.16 32. 5.8 150A 4.26 227S 3.19 378 8.3 1260 5.4	4	7.16	31-A NPT	4.3	150A	4.21	226	3.4	375	8.6	1249	6.4
10	4	4.12	32	4.17	150A	4.28	226	3.5	377	8.6	1250	6.4
10	10	3.16	32	5.8	150A	4.26	227S	3.19	378	8.3	1260	5.4
10	10	3.15	32	7.5	150A	4.24	228	3.5	395	7.4	1321	7.17
10	10	1.3	35 S	3.15	151	3.16	241	4.26	402	4.12	1380	7.13
11-R 4.4 39 2.3 151-P 3.15 250 4.24 405 8.2 1450 .92 11-R 4.3 40-A 2.2 152 3.15 250 .7.5 406 8.2 1452 4.17 11-R (NFSM) 4.5 100-B 10.12 152 3.16 254 3.7 406M 8.2 1460 .426 11-R (NFSM) 4.5 100-B 10.4 152 6.4 258 3.9 408 8.2 1462 4.26 11-R (NFT) 4.5 100A 4.26 152-P 3.16 258PS 3.9 408M 8.2 1493 3.17 12 7.5 100A 4.24 153 3.15 258K 3.9 408M 8.2 1493 3.17 12-B 12.9 100A 4.24 153 3.15 258K 3.9 408M 8.2 1602 7.8 12-B 12.9 100A	10	1.2			151	3.15	246	3.5	403	8.2	1406	4.26
11-R 4.3 40-A 2.2 152 3.15 250 7.5 406 8.2 1452 4.17 11-R (NPSM) 4.5 100-B 10.12 152 3.16 254 3.7 406M 8.2 1460 4.26 11-R (NPSM) 4.5 100-B 10.4 152 6.4 258 3.9 408 8.2 1462 4.26 11-R (NPT) 4.5 100A 4.26 152-P 3.16 258PS 3.9 408M 8.2 1462 4.28 12-R 7.5 100A 4.28 152-P 3.15 258PS 3.9 408M 8.2 1521 7.17 12-R 1.2 100A 4.24 153 3.15 276 3.4 412M 8.2 1602 7.8 12-B 1.2 100A 4.21 153 3.16 276 3.5 418 4.17 1619 7.8 12-R 4.2 4.1	10	7.16	36	7.17	151-P	3.16	246	3.5	404	8.2	1421	7.17
11-R (BSPP) 4.6 100-B 10.12 152 3.16 254 3.7 406M 8.2 1460 4.26 11-R (NPSM) 4.5 100-B 10.4 152 6.4 258 3.9 408 8.2 1460 4.26 11-R (NPT) 4.5 100A 4.26 152-P 3.16 258PS 3.9 408M 8.2 1493 3.17 12 7.5 100A 4.24 153 3.15 258N 3.9 410M 8.2 1602 7.8 12-BP 12.9 100A 4.21 153 3.16 276 3.4 412M 8.2 1602 7.8 12-B 12.9 100A 4.21 153 3.16 276 3.5 418 4.15 1619 7.8 12-B 4.4 101 3.16 153-P 3.16 300 Compact 4.24 418 4.14 1620 7.8 12-R (BSPP) 4.6	11-R	4.4	39	2.3	151-P	3.15	250	4.24	405	8.2	1450	9.2
11-R (NPSM) 4.5 100-B 10.4 152 6.4 258 3.9 408 8.2 1462 4.26 11-R (NPT) 4.5 100A 4.26 152-P 3.16 258PS 3.9 408M 8.2 1493 3.17 12 7.5 100A 4.28 152-P 3.15 258KL 3.9 410M 8.2 1521 7.17 12 1.2 100A 4.24 153 3.15 276 3.5 418 4.15 1602 7.8 12-BP 12.9 100A 4.21 153 3.16 276 3.5 418 4.15 1619 7.8 12-R 4.3 100A 4.19 153-P 3.16 300 5.4 418 4.17 1619F 7.8 12-R 4.4 101 3.16 153-P 3.15 300 Compact Kit 4.24 418 4.11 1620 7.8 12-R (BSPP) 4.6	11-R	4.3	40-A	2.2	152	3.15	250	7.5	406	8.2	1452	4.17
11-R (NPT) 4.5 100A 4.26 152-P 3.16 258PS 3.9 408M 8.2 1493 3.17 12 .7.5 100A 4.28 152-P 3.15 258XL 3.9 410M 8.2 1521 .7.17 12 1.2 100A 4.24 153 3.15 276 3.4 412M 8.2 1602 .7.8 12-BP 12.9 100A 4.21 153 3.16 276 3.5 418 4.15 1619 .7.8 12-R 4.3 100A 4.19 153-P 3.16 300 .54 418 4.17 1619F .7.8 12-R 4.4 101 3.16 153-P 3.15 300 Compact Kit 4.24 418 4.14 1620 .7.8 12-R (BSPP) 4.6 101 3.13 154- 3.15 300 Compact Kit 4.24 418 4.12 1721 .7.17 12-R (BSPP)	11-R (BSPP)	4.6	100-B	10.12	152	3.16	254	3.7	406M	8.2	1460	4.26
12. 7.5 100A. 4.28 152-P. 3.15 258XL. 3.9 410M. 8.2 1521. 7.17 12. 1.2 100A. 4.24 153. 3.16 276. 3.4 412M. 8.2 1602. 7.8 12-BP. 12.9 100A. 4.21 153. 3.16 276. 3.5 418. 4.15 1619. 7.8 12-R. 4.3 100A. 4.19 153-P. 3.16 300. 5.4 418. 4.17 1619F. 7.8 12-R. (BSPP). 4.6 101. 3.13 154. 3.16 300 Compact Kit. 4.24 418. 4.14 1620. 7.8 12-R (BSPT). 4.6 102. 3.16 154. 3.15 300 Compact Kit. 4.24 418. 4.12 1721. 7.17 12-R (NPSM). 4.5 103. 3.16 154-P. 3.15 300 Complete. 4.17 418. 4.12 1721. 7.17 <td>11-R (NPSM)</td> <td>4.5</td> <td>100-B</td> <td>10.4</td> <td>152</td> <td>6.4</td> <td>258</td> <td>3.9</td> <td>408</td> <td>8.2</td> <td>1462</td> <td>4.26</td>	11-R (NPSM)	4.5	100-B	10.4	152	6.4	258	3.9	408	8.2	1462	4.26
12 1.2 100A 4.24 153 3.15 276 3.4 412M 8.2 1602 7.8 12-BP 12.9 100A 4.21 153 3.16 276 3.5 418 4.15 1619 7.8 12-R 4.3 100A 4.19 153-P 3.16 300 5.4 418 4.17 1619F 7.8 12-R 4.4 101 3.16 153-P 3.15 300 Compact 4.24 418 4.14 1620 7.8 12-R (BSPP) 4.6 101 3.13 154 3.16 300 Compact Kit 4.24 418 4.13 1621 7.17 12-R (BSPP) 4.6 102 3.16 154-P 3.15 300 Compact Kit 4.24 418 4.13 1621 7.17 12-R (BSPP) 4.6 102 3.16 154-P 3.15 300 Compact Kit 4.24 418 4.12 1721 7.17 12-R (N	11-R (NPT)	4.5	100A	4.26	152-P	3.16	258PS	3.9	408M	8.2	1493	3.17
12. 1.2 100A 4.24 153 3.15 276 3.4 412M 8.2 1602 7.8 12-BP 12.9 100A 4.21 153 3.16 276 3.5 418 4.15 1619 7.8 12-R 4.3 100A 4.19 153-P 3.16 300 5.4 418 4.17 1619F 7.8 12-R 4.4 101 3.16 153-P 3.15 300 Compact 4.24 418 4.14 1620 7.8 12-R (BSPP) 4.6 101 3.13 154 3.16 300 Compact Kit 4.24 418 4.13 1621 7.17 12-R (BSPT) 4.6 102 3.16 154-P 3.15 300 Complete 4.17 418 4.12 1721 7.17 12-R (NPSM) 4.5 103 3.16 154-P 3.15 300 Only 4.18 4.12 1721 7.17 12-R (NPT) 4.5	12	7.5	100A	4.28	152-P	3.15	258XL	3.9	410M	8.2	1521	7.17
12-BP 12.9 100A 4.21 153 3.16 276 3.5 418 4.15 1619 7.8 12-R 4.3 100A 4.19 153-P 3.16 300 5.4 418 4.17 1619F 7.8 12-R 4.4 101 3.16 153-P 3.15 300 Compact 4.24 418 4.14 1620 7.8 12-R (BSPP) 4.6 101 3.13 154 3.16 300 Compact Kit 4.24 418 4.13 1621 7.17 12-R (BSPT) 4.6 102 3.16 154 3.15 300 Complete 4.17 418 4.12 1721 7.17 12-R (NPSM) 4.5 103 3.16 154-P 3.15 300 Only 4.16 419 4.29 1821 7.17 12-R (NPT) 4.5 103 3.13 154-P 3.16 300A Complete 4.17 424-CI 3.3 1822-I 4.25	12	1.2	100A	4.24			276	3.4	412M	8.2	1602	7.8
12-R 4.3 100A 4.19 153-P 3.16 300 5.4 418 4.17 1619F 7.8 12-R 4.4 101 3.16 153-P 3.15 300 Compact 4.24 418 4.14 1620 7.8 12-R (BSPP) 4.6 101 3.13 154 3.16 300 Compact Kit 4.24 418 4.13 1621 7.17 12-R (BSPT) 4.6 102 3.16 154 3.15 300 Complete 4.17 418 4.12 1721 7.17 12-R (NPSM) 4.5 103 3.16 154-P 3.15 300 Only 4.16 419 4.29 1821 7.17 12-R (NPT) 4.5 103 3.13 154-P 3.16 300A Complete 4.17 424-Cl 3.3 1822-I 4.25 12R (NPT) 4.5 104 3.13 156-D 3.16 300A Complete 4.17 424-Cl 3.3 1822-I 4.25 <			100A	4.21	153	3.16	276	3.5	418	4.15	1619	7.8
12-R 4.4 101 3.16 153-P 3.15 300 Compact 4.24 418 4.14 1620 7.8 12-R (BSPP) 4.6 101 3.13 154 3.16 300 Compact Kit 4.24 418 4.13 1621 7.17 12-R (BSPT) 4.6 102 3.16 154 3.15 300 Complete 4.17 418 4.12 1721 7.17 12-R (NPSM) 4.5 103 3.16 154-P 3.15 300 Only 4.16 419 4.29 1821 7.17 12-R (NPT) 4.5 103 3.13 154-P 3.16 300A Complete 4.17 424-Cl 3.3 1822-I 4.25 12R (NPT) 4.5 104 3.13 156 3.16 301A 3.12 424-S 3.3 1974 7.9 14 1.3 104 3.16 156-P 3.16 304 4.17 425 5.4 200c 1.8	12-R	4.3	100A	4.19	153-P	3.16			418	4.17	1619F	7.8
12-R (BSPP) 4.6 101 3.13 154 3.16 300 Compact Kit 4.24 418 4.13 1621 7.17 12-R (BSPT) 4.6 102 3.16 154 3.15 300 Complete 4.17 418 4.12 1721 7.17 12-R (NPSM) 4.5 103 3.16 154-P 3.15 300 Only 4.16 419 4.29 1821 7.17 12-R (NPT) 4.5 103 3.13 154-P 3.16 300A Complete 4.17 424-Cl 3.3 1822-l 4.25 12R (NPT) 4.5 104 3.13 156 3.16 301A 3.12 424-S 3.3 1822-l 4.25 12R (NPT) 4.5 104 3.13 156 3.16 301A 3.12 424-S 3.3 1974 7.9 14 1.3 104 3.16 156-P 3.16 304 4.17 425 5.4 2002 1.8 14 1.4 108 3.16 156-P 3.15 310 8.2 <t< td=""><td>12-R</td><td>4.4</td><td>101</td><td>3.16</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	12-R	4.4	101	3.16								
12-R (BSPT) 4.6 102 3.16 154 3.15 300 Complete 4.17 418 4.12 1721 7.17 12-R (NPSM) 4.5 103 3.16 154-P 3.15 300 Only 4.16 419 4.29 1821 7.17 12-R (NPT) 4.5 103 3.13 154-P 3.16 300A Complete 4.17 424-Cl 3.3 1822-I 4.25 12R (NPT) 4.5 104 3.13 156 3.16 301A 3.12 424-S 3.3 1974 7.9 14 1.3 104 3.16 156 3.15 303 7.5 425 2.2 2002 1.8 14 1.2 106 3.16 156-P 3.16 304 4.17 425 5.4 2006 1.8 14 1.4 108 3.16 156-P 3.15 310 8.2 425 4.14 2191 3.12 15 3.16 109-P 3.16 161 4.1 310M 8.2 1010 1.7	12-R (BSPP)	4.6	101	3.13	154	3.16					1621	7.17
12-R (NPSM) 4.5 103 3.16 154-P 3.15 300 Only 4.16 419 4.29 1821 7.17 12-R (NPT) 4.5 103 3.13 154-P 3.16 300A Complete 4.17 424-Cl 3.3 1822-l 4.25 12R (NPT) 4.5 104 3.13 156 3.16 301A 3.12 424-S 3.3 1974 7.9 14 1.3 104 3.16 156 3.15 303 7.5 425 2.2 2002 1.8 14 1.2 106 3.16 156-P 3.16 304 4.17 425 5.4 2006 1.8 14 1.4 108 3.16 156-P 3.15 310 8.2 425 4.14 2191 3.12 15 3.16 109 3.16 161 4.1 310M 8.2 1010 1.7 3215 1.6 15-SI 3.15 109-P 3.16 170 7.15 311 4.17 1017 1.7 3231 <td></td> <td></td> <td>102</td> <td>3.16</td> <td>154</td> <td>3.15</td> <td>· ·</td> <td></td> <td></td> <td></td> <td></td> <td></td>			102	3.16	154	3.15	· ·					
12-R (NPT) 4.5 103 3.13 154-P 3.16 300A Complete 4.17 424-Cl 3.3 1822-l 4.25 12R (NPT) 4.5 104 3.13 156 3.16 301A 3.12 424-S 3.3 1974 7.9 14 1.3 104 3.16 156 3.15 303 7.5 425 2.2 2002 1.8 14 1.2 106 3.16 156-P 3.16 304 4.17 425 5.4 2006 1.8 14 1.4 108 3.16 156-P 3.15 310 8.2 425 4.14 2191 3.12 15 3.16 109 3.16 161 4.1 310M 8.2 1010 1.7 3215 1.6 15 3.15 109-P 3.16 170 7.15 311 4.17 1017 1.7 3229 1.6 15SI 3.16 111-R 4.4 170FG 7.15 312 8.2 1019 1.7 3231 1.			103	3.16	154-P	3.15	300 Only	4.16	419	4.29		
12R (NPT) 4.5 104 3.13 156 3.16 301A 3.12 424-S 3.3 1974 7.9 14 1.3 104 3.16 156 3.15 303 7.5 425 2.2 2002 1.8 14 1.2 106 3.16 156-P 3.16 304 4.17 425 5.4 2006 1.8 14 1.4 108 3.16 156-P 3.15 310 8.2 425 4.14 2191 3.12 15 3.16 109 3.16 161 4.1 310M 8.2 1010 1.7 3215 1.6 15 3.15 109-P 3.16 170 7.15 311 4.17 1017 1.7 3229 1.6 15 3.15 111-R 4.4 170FG 7.15 312 8.2 1019 1.7 3231 1.6 15SI 3.16 111-R 4.3 171 7.15 312 4.17 1021 7.17 3233 1.6 <							· ·		424-CI	3.3		
14. 1.3 104. 3.16 156. 3.15 303. 7.5 425. 2.2 2002. 1.8 14. 1.2 106. 3.16 156-P 3.16 304. 4.17 425. 5.4 2006. 1.8 14. 1.4 108. 3.16 156-P 3.15 310. 8.2 425. 4.14 2191. 3.12 15. 3.16 109. 3.16 161. 4.1 310M. 8.2 1010. 1.7 3215. 1.6 15. 3.15 109-P 3.16 170. 7.15 311. 4.17 1017. 1.7 3229. 1.6 15.SI 3.15 111-R 4.4 170FG 7.15 312. 8.2 1019. 1.7 3231. 1.6 15SI 3.16 111-R 4.3 171. 7.15 312. 4.17 1021. 7.17 3233. 1.6 16. 7.5 116. 7.5 171FG 7.15 312M. 8.2 1024-A 7.5 3235.							i i		1			
14. 1.2 106 3.16 156-P 3.16 304. 4.17 425. 5.4 2006. 1.8 14. 1.4 108. 3.16 156-P 3.15 310. 8.2 425. 4.14 2191. 3.12 15. 3.16 109. 3.16 161. 4.1 310M. 8.2 1010. 1.7 3215. 1.6 15. 3.15 109-P 3.16 170. 7.15 311. 4.17 1017. 1.7 3229. 1.6 15.SI 3.15 111-R 4.4 170FG 7.15 312. 8.2 1019. 1.7 3231. 1.6 15SI 3.16 111-R 4.3 171. 7.15 312. 4.17 1021. 7.17 3233. 1.6 16. 7.5 116. 7.5 171FG 7.15 312M. 8.2 1024-A 7.5 3235. 1.6 17. 1.6 117. 3.13 172. 7.15 314M. 8.2 1024-A 7.5 3237. <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>												
14. 1.4 108. 3.16 156-P 3.15 310. 8.2 425. 4.14 2191. 3.12 15. 3.16 109. 3.16 161. 4.1 310M. 8.2 1010. 1.7 3215. 1.6 15. 3.15 109-P 3.16 170. 7.15 311. 4.17 1017. 1.7 3229. 1.6 15.SI 3.15 111-R 4.4 170FG 7.15 312. 8.2 1019. 1.7 3231. 1.6 15SI 3.16 111-R 4.3 171. 7.15 312. 4.17 1021. 7.17 3233. 1.6 16. 7.5 116. 7.5 171FG 7.15 312M. 8.2 1024-A. 7.5 3235. 1.6 17. 1.6 117. 3.13 172. 7.15 314M. 8.2 1024-A. 7.5 3237. 1.6 18. 1.2 117. 3.16 173. 7.15 315M. 8.2 1203. 4.23 4100												
15. 3.16 109. 3.16 161. 4.1 310M. 8.2 1010. 1.7 3215. 1.6 15. 3.15 109-P. 3.16 170. 7.15 311. 4.17 1017. 1.7 3229. 1.6 15-SI. 3.15 111-R. 4.4 170FG. 7.15 312. 8.2 1019. 1.7 3231. 1.6 15SI. 3.16 111-R. 4.3 171. 7.15 312. 4.17 1021. 7.17 3233. 1.6 16. 7.5 116. 7.5 171FG. 7.15 312M. 8.2 1024-A. 7.5 3235. 1.6 17. 1.6 117. 3.13 172. 7.15 314M. 8.2 1121. 7.17 3237. 1.6 18. 1.2 117. 3.16 173. 7.15 315M. 8.2 1203. 4.23 4100. 3.18	14	1.4	108	3.16					425	4.14	2191	3.12
15. 3.15 109-P 3.16 170. 7.15 311. 4.17 1017. 1.7 3229. 1.6 15-SI 3.15 111-R 4.4 170FG 7.15 312. 8.2 1019. 1.7 3231. 1.6 15SI 3.16 111-R 4.3 171. 7.15 312. 4.17 1021. 7.17 3233. 1.6 16. 7.5 116. 7.5 171FG 7.15 312M. 8.2 1024-A 7.5 3235. 1.6 17. 1.6 117. 3.13 172. 7.15 314M. 8.2 1121. 7.17 3237. 1.6 18. 1.2 117. 3.16 173. 7.15 315M. 8.2 1203. 4.23 4100. 3.18												
15-SI 3.15 111-R 4.4 170FG 7.15 312 8.2 1019 1.7 3231 1.6 15SI 3.16 111-R 4.3 171 7.15 312 4.17 1021 7.17 3233 1.6 16 7.5 116 7.5 171FG 7.15 312M 8.2 1024-A 7.5 3235 1.6 17 1.6 117 3.13 172 7.15 314M 8.2 1121 7.17 3237 1.6 18 1.2 117 3.16 173 7.15 315M 8.2 1203 4.23 4100 3.18												
15SI 3.16 111-R 4.3 171 .7.15 312 4.17 1021 .7.17 3233 1.6 16 7.5 116 7.5 171FG 7.15 312M 8.2 1024-A 7.5 3235 1.6 17 1.6 117 3.13 172 7.15 314M 8.2 1121 7.17 3237 1.6 18 1.2 117 3.16 173 7.15 315M 8.2 1203 4.23 4100 3.18												
16. .7.5 116. .7.5 171FG .7.15 312M 8.2 1024-A .7.5 3235. .1.6 17. .1.6 117. .3.13 172. .7.15 314M 8.2 1121. .7.17 3237. .1.6 18. .1.2 117. .3.16 173. .7.15 315M 8.2 1203. .4.23 4100. .3.18									1			
17. 1.6 117. 3.13 172. 7.15 314M. 8.2 1121. 7.17 3237. 1.6 18. 1.2 117. 3.16 173. 7.15 315M. 8.2 1203. 4.23 4100. 3.18												
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## 42.4	Model No.	Page No.										
454 W. 86 854 85 758 79 81 337 802079 135 918-1-56 56 455 85 758 798 1.77 810. 1.4 932000 135 918-1-56 6 458MM 86 675 3.18 788 4.11 810. 1.4 939-4.26 918-5.56 458MM 86 675 8.5 759 779 611A 4.19 839-4.26 918-5.56 46 41 6.12 780 779 611A 4.24 839-4.33 918-5.57 46. 41 6.717 781 779 811A 4.22 839-4.33 918-5.57 460 7.16 781 779 814 4.22 839-4.33 918-5.57 460 2.2 800 4.13 783-7.71 814 4.24 886-7.79 918-5.8 460 2.2 800 4.13 783-7.71 815-4.41 880-	42-A	3.3	562	8.5					832077	13.5		
455 88 955 85 798 79 81 32 8000 13 998-1 5.6 458MM 88 575 318 788 4.1 811A 4.17 839 4.18 918-4 5.6 458MM 8.6 575 8.5 798 7.9 811A 4.17 839 4.18 918-4 5.6 46 2.5 515 750 1.7 811A 4.29 882 4.3 918-1 5.7 46 4.1 6 7.12 781 7.7 811A 4.20 882 3.3 918-1 5.7 460 4.1 6 7.17 761 7.9 817 4.1 884 3.3 920 5.8 460 5.2 6 7.1 761 7.9 815A 4.17 840A 4.2 895 2.5 480 5.2 6 7.2 815A 4.2 812 <td>44-S</td> <td>3.3</td> <td>563</td> <td>8.5</td> <td></td> <td></td> <td></td> <td></td> <td>832078</td> <td>13.5</td> <td>916</td> <td>5.5</td>	44-S	3.3	563	8.5					832078	13.5	916	5.5
456 8.3 570 8.5 788 1.7 810 1.4 836 1.4 919-2 5.6 45888 8.6 575 8.5 789 4.1 811. 4.19 839 4.26 910-5 5.6 46 2.5 58° 1.5 780 1.7 811. 4.24 839 4.33 9191 5.7 460 4.1 6 7.16 701 711 811. 4.20 832 3.7 9181 5.7 460 5.4 6.7,17 781 7.9 811. 4.20 832 7.9 92 2.5 460 5.4 6.7,17 781. 7.9 814. 1.4 800. 4.1 920. 2.5 460 2.2 60 1.2 780 4.2 4.1 800. 4.1 995. 5.2 482 2.3 601. 4.2 82.2 4.7 815. 4.2	454-W	8.6	564	8.5					832079	13.5	918	5.6
ASBMM 8.6 975 3.18 PSB 4.1 B11A 4.17 B33 4.19 B18A 5.6 46. 2.5 SP 1.5 780 7.7 811A 4.24 838 4.33 9184 5.7 46. 4.1 6 1.2 760 7.9 811A 4.26 838 3.3 9184 5.7 460. 5.4 6 7.17 761 7.1 811A 4.26 838 4.33 9184 5.7 460. 5.4 6 7.17 761 7.9 812 1.4 84 3.7 920 5.8 460. 5.2 6 7.17 761 7.9 812 1.4 840 3.1 920 5.8 460. 3.3 60 1.2 76 4.2 915A 4.4 942 4.1 4.2 955 5.2 463. 2.3 606 7.7 764 <td>455</td> <td>8.6</td> <td>565</td> <td>8.5</td> <td></td> <td></td> <td></td> <td></td> <td>832080</td> <td>13.5</td> <td>918-1</td> <td>5.6</td>	455	8.6	565	8.5					832080	13.5	918-1	5.6
6888 86 75 85 788 79 911A 419 838 426 918-5 5.6 46 4.25 5P 1.5 760 1.7 811A 4.26 8039 4.33 9181 5.7 460 4.14 6 7.16 761 779 811A 4.27 80E .71 918-1 .57 460 5.4 6 7.17 761 779 814 1.4 840. 4.1 92 2.5 400 2.2 60 1.12 702 1.7 814 1.4 840. 4.1 921 7.71 461 2.3 601 4.13 763 7.7 815A 4.19 842 4.19 965 .25 462 2.3 601 1.01 765 1.2 815A 4.24 842 4.60 975 .52 468-3 3.3 632 7.7 766 4.	456	8.3	570	8.5	758	1.7			836	1.4		
46. 25 P 1.5 80. 1.7 811A 4.24 838 4.33 9184 5.7 460. 4.14 6. 7.16 761. 7.1 811A 4.27 88E. 1.71 9184 5.7 460. 5.4 6. 7.17 761. 7.9 812. 1.4 84. 3.7 920. 5.8 460. 2.2 60. 1.2 762. 1.7 781. 1.4 1.4 840. 4.3 920. 5.8 461. 2.3 600. 4.13 763. 7.1 815A. 4.17 840A. 4.29 965. 2.5 4.2 462. 2.3 606. 7.7 765. 4.79 815A. 4.24 842. 4.2 975. 5.2 464. 2.3 606. 7.1 816. 4.2 842. 4.2 975. 5.2 466. 2.3 607. 7.7 <	458MM	8.6	575	3.18		1.1	811A	4.17	839	4.19	918-4	5.6
66. 4.14 6. 7.12 760. 7.9 111. 4.26 88E. 3.7 918. 5.7 460. 5.4 6. 7.17 761. 7.9 812. 1.4 84. 3.7 920. 5.8 460. 2.2 60. 1.2 762. 1.7 814. 1.4 840. 4.1 991. 7.77 461. 2.3 800. 4.13 763. 7.9 815. 4.11 840. 4.1 991. 7.77 462. 2.3 801. 4.13 763. 7.9 815. 4.21 842. 4.29 995. 5.5 463. 2.3 806. 10.11 765. 1.7 815. 4.24 842. 4.29 995. 5.5 464. 463. 3.3 810. 4.22 766. 4.29 815. 4.26 842. 4.29 975. 5.24 466-10. 3.3 810	458R	8.6	575	8.5	758	7.9	811A	4.19	839	4.26	918-5	5.6
460	46	2.5	5P	1.5			811A	4.24			918-l	5.7
Bell	46	4.1					811A	4.26	83E	3.7	918-l	5.7
460E 22 60 12 762 17 915A 417 840A 41 921 7.17 461 2.3 600 4.13 763 7.71 815A 4.17 840A 4.29 98E 7.73 463 2.3 606 7.77 764 4.29 815A 4.24 842 4.26 975 5.2 464 2.3 606 1011 766 4.29 815A 4.26 842 4.27 975 5.5 466-CI 3.3 610 4.22 766 4.29 815A 4.27 844 4.21 A-1 1.225 466-CI 3.3 632 7.7 766 7.9 816 4.21 844 4.21 A-1 1.225 468-CI 3.3 632 7.7 767 7.1 816 4.23 844 3.4 4.1 1.23 488-HWS 58 3.3 767 7	460						811A	4.27				
461 23 600 413 763 7.79 815A 4.19 842 4.19 96E 7.19 463 2.3 606 7.7 764 4.29 815A 4.24 842 4.29 975 5.2 464 2.3 606 10.11 765 1.7 815A 4.24 842 4.27 975 5.5 466-CL 3.3 610 4.22 766 7.9 815A 4.27 844 4.21 A-1 1.227 466-CL 3.3 614 3.1 766 7.9 816 4.21 844 4.21 A-1 1.227 468-CL 3.3 632 7.7 766 7.9 816 4.21 848 1.4 A-1 1.229 468-HWS 3.3 632 7.7 766 7.9 816 4.21 846 7.1 1.22 472-CL 3.3 65F.C 4.8 768			6	7.17								
463	460E	2.2	60	1.2			814	1.4	840A	4.1		
463 2.3 606 7.7 764 4.29 815A 4.24 842 4.26 975 5.2 464 2.3 606 10.11 765 1.7 815A 4.26 842 4.27 975 5.4 466-IWS 614 3.1 766 7.1 816 4.19 844 4.1 A-1 1227 468-S 3.3 832 7.7 767 7.1 816 4.19 844 4.2 A-1 1229 468-W 636 7.7 767 7.1 816 4.21 848 1.4 A-1 1229 468-W 636 3.9 767 7.9 816 4.24 846 7.79 A-1 123 468-W 3.3 640 2.3 788 4.1 816 4.27 866 4.27 A-10 1229 472-UN 6 68-F.C 4.8 788 4.1 816 4.27<	461	2.3	600	4.13								
464 2.3 606 10.11 765 1.7 815A 4.26 842 4.27 975 5.5 466-CI 3.3 610 4.22 766 4.29 815A 4.27 844 4.1 A-1 12.5 466-CI 3.3 632 7.7 766 7.9 816 4.21 848 1.4 A-1 12.27 468-CI 3.3 636 7.7 767 7.7 816 4.21 848 1.4 A-1 12.23 468-CI 3.3 636 7.7 767 7.7 816 4.24 846 7.19 A-1 12.35 488-S* 3.3 640 2.3 788 1.7 816 4.27 856 3.7 A-10 12.25 472-CI 3.3 65F-C 4.8 768 4.1 816 4.27 856 3.7 A-10 12.27 472-S 3.3 671 7.7	462	2.3	601	4.13			815A	4.19	842	4.19	96E	7.19
466-CI .3.3 610 .4.22 766 .4.29 815A .4.27 844 .4.1 A-1 .12.25 466-HWS 614 .3.1 766 .7.7 816 .4.19 844 .4.21 A-1 .12.27 468-CI .3.3 636 .7.7 767 .7.1 816 .4.21 848 .1.4 A-1 .1.23 488-CI .3.3 636 .7.7 767 .7.1 816 .4.24 84E .3.7 A-1 .12.35 488-CI .3.3 640 .2.3 768 .1.7 816 .4.24 84E .7.19 A-1 .12.5 472-CI .3.3 65R-C .4.8 768 .4.21 817 .4.19 85E .7.19 A-1 .12.25 472-CI .3.3 671 .7.7 .4.15 817 .4.21 85E .7.19 A-12 .12.27 472-CI .3.2 .5.1 .4.2 </td <td>463</td> <td>2.3</td> <td>606</td> <td>7.7</td> <td>764</td> <td>4.29</td> <td>815A</td> <td>4.24</td> <td>842</td> <td>4.26</td> <td></td> <td></td>	463	2.3	606	7.7	764	4.29	815A	4.24	842	4.26		
466-HWS 614 3.1 766 7.1 816 4.19 844 4.21 A-1 12.27 468-C 3.3 552 7.7 766 7.9 816 4.21 848 1.4 A-1 12.23 468-HWS 63E 3.9 767 7.9 816 4.24 84E 3.7 A-1 12.35 488-S* 3.3 560 2.2 778 1.7 816 4.26 85 3.7 A-1 12.25 472-CI 3.3 567 4.8 768 4.1 816 4.26 85 3.7 A-10 12.27 472-HWS 65FTC 4.8 768 4.1 817 4.19 85E 3.7 A-10 12.29 472-HWS 3.0 671 7.7 770 4.15 817 4.21 85E 3.7 A-10 12.29 472-HWS 3.2 681 4.21 817 4.21 85E <td>464</td> <td>2.3</td> <td>606</td> <td>10.11</td> <td>765</td> <td>1.7</td> <td></td> <td></td> <td>842</td> <td>4.27</td> <td>975</td> <td>5.4</td>	464	2.3	606	10.11	765	1.7			842	4.27	975	5.4
466-S. 3.3 632. 7.7 766. 7.9 816. 4.21 848. 1.4 A-1. 12.29 468-Cl. 3.3 636. 7.7 767. 7.7 816. 4.23 84E. 3.7 A-1. 12.31 468-Ws. 63E. 3.9 767. 7.79 816. 4.24 84E. 7.19 A-1. 12.35 468-S* 3.3 640. 2.3 768. 1.7 816. 4.26 85. 3.7 A-10. 12.25 472-US. 3.3 65F.C. 4.8 768. 4.21 817. 4.9 86E. 3.7 A-10. 12.27 472-WS. 3.3 671. 7.7 770. 4.15 817. 4.21 86E. 3.7 A-10. 12.27 472-S. 3.3 671. 7.7 770. 4.15 817. 4.24 86E. 3.7 A-12. 12.27 48-S. 3.2 773.	466-CI	3.3	610	4.22		1.20	815A	4.27	844	4.1	A-1	12.25
488-CI 3.3 636 .7.7 767 .7.1 816 .4.23 84E .3.7 A-1 .12.31 468-HWS 65E 3.9 767 .7.9 816 .4.24 84E .7.19 A-1 .12.35 468-S* .3.3 640 .2.3 788 .1.7 816 .4.28 85 .3.7 A-10 .12.25 472-CI .3.3 65B-C .4.8 768 .4.1 816 .4.27 856 .4.27 A-10 .12.27 472-S .3.3 671 .7.7 770 .4.15 817 .4.21 85E .7.19 A-12 .12.13 48 .1.2 690 .4.14 .771 .4.15 817 .4.21 86E .3.7 .4.12 12.29 42-S .3.2 691 .4.14 .772 .4.15 817 .4.24 86E .3.7 .A-12 .12.27 4U .4.27 60	466-HWS		614	3.1	766	7.1	816	4.19	844	4.21	A-1	12.27
488-HWS 63E 3.9 767 7.9 816 4.24 84E 7.19 A-1 1.235 468-8° 3.3 640 2.3 768 1.7 816 4.26 85 3.7 A-10 1225 472-HWS 65R-TC 4.8 768 4.1 816 4.27 856 4.27 A-10 1227 472-S 3.3 671 7.7 770 4.15 817 4.21 85E 7.19 A-12 1229 48- 1.2 690 4.14 771 4.15 817 4.21 85E 7.19 A-12 1213 4-S 3.2 691 4.14 772 4.15 817 4.24 86E 3.7 A-12 1227 4U 4.19 6-S 3.2 773 4.15 817 4.26 86E 7.19 A-12 1229 4U 4.27 6U 4.19 774 4.15	466-S	3.3	632	7.7	766	7.9	816	4.21	848	1.4	A-1	12.29
488-S* 3.3 640 2.3 768 1.7 816 4.26 85 3.7 A-10 12.25 472-CI 3.3 65R-C 4.8 768 4.1 816 4.27 856 4.27 A-10 12.29 472-HWS 65R-TC 4.8 768 4.21 817 4.19 85E 3.7 A-10 12.29 472-HWS 33 671 .7 .7 .70 .415 817 .421 85E .719 A-12 .12.13 4.8 1.2 690 .414 .771 .415 817 .424 86E .37 .412 12.17 4.8 3.2 691 .414 .771 .415 817 .426 86E .37 .412 12.29 4U 4.19 68 3.2 .733 .415 817 .426 86E .719 A-12 .1229 4U 4.27 70 .415 <td>468-CI</td> <td>3.3</td> <td>636</td> <td>7.7</td> <td>767</td> <td>7.1</td> <td>816</td> <td>4.23</td> <td>84E</td> <td>3.7</td> <td>A-1</td> <td>12.31</td>	468-CI	3.3	636	7.7	767	7.1	816	4.23	84E	3.7	A-1	12.31
472-CI 3.3 65R-C 4.8 768 4.1 816 4.27 856 4.27 A-10 12.27 472-HWS 65R-TC 4.8 768 4.21 817 4.19 85E 3.7 A-10 12.29 472-S 3.3 671 7.7 770 4.15 817 4.21 85E 7.19 A-12 12.13 48 1.2 690 4.14 771 4.15 817 4.23 86 3.7 A-12 12.15 4-S 3.2 691 4.14 772 4.15 817 4.24 86E 3.7 A-12 12.27 4U 4.19 6-S 3.2 773 4.15 817 4.27 86E 3.7 A-12 12.27 4U 4.27 6U 4.19 774 4.15 818 1.4 87 7.14 A-12 12.25 5 7.16 7. 7.16 775	468-HWS		63E	3.9	767	7.9	816	4.24	84E	7.19	A-1	12.35
472-HWS 65R-TC 4.8 768 4.21 817 4.19 85E 3.7 A-10 12.29 472-S 3.3 671 7.7 770 4.15 817 4.21 86E 7.19 A-12 12.13 48. 1.2 690 4.14 771 4.15 817 4.23 86 3.7 A-12 12.13 4.8 3.2 691 4.14 772 4.15 817 4.23 86 3.7 A-12 12.15 4.8 3.2 691 4.14 772 4.15 817 4.24 86E 3.7 A-12 12.29 4U 4.19 6-S 3.2 773 4.15 817 4.26 86E 7.19 A-12 12.29 4U 4.27 76 4.15 818 1.4 87 3.7 A-13 12.29 5 7.16 7. 7.16 75 4.15 819 <th< td=""><td>468-S*</td><td>3.3</td><td>640</td><td>2.3</td><td>768</td><td>1.7</td><td>816</td><td>4.26</td><td>85</td><td>3.7</td><td>A-10</td><td>12.25</td></th<>	468-S*	3.3	640	2.3	768	1.7	816	4.26	85	3.7	A-10	12.25
472-HWS 65R-TC 4.8 768 4.21 817 4.19 85E 3.7 A-10 12.29 472-S 3.3 671 7.7 770 4.15 817 4.21 85E 7.19 A-12 12.13 48. 1.2 690 4.14 771 4.15 817 4.23 86 3.7 A-12 12.13 48. 3.2 691 4.14 772 4.15 817 4.23 86 3.7 A-12 12.15 4.8 3.2 691 4.14 772 4.15 817 4.24 86E 3.7 A-12 12.29 4U 4.27 60 4.19 774 4.15 817 4.26 86E 7.19 A-12 12.29 5 7.16 7.7 7.16 7.7 4.15 818 1.4 87 3.7 A-13 12.25 5 7.16 7.7 7.16 1.5 <	472-CI	3.3	65R-C	4.8	768	4.1	816	4.27	856	4.27	A-10	12.27
472-S .33 671 .7.7 770 .4.15 817 .4.21 85E .7.19 A-12 .12.13 48 .1.2 690 .4.14 .772 .4.15 817 .4.24 86E .3.7 A-12 .12.15 4-S .3.2 691 .4.14 .772 .4.15 817 .4.24 86E .3.7 A-12 .12.27 4U .4.19 6-S .3.2 .773 .4.15 817 .4.24 86E .7.19 A-12 .12.29 4U .4.27 6U .4.19 .774 .4.15 818 .1.4 87 .7.14 A-12 .12.35 5 .7.16 .7 .7.16 .775 .4.15 818 .1.4 87 .7.14 A-12 .12.35 5 .7.16 .7 .7.16 .756 .1.7 819 .4.17 87E .3.7 A-13 .12.15 5 .7.16 .7	472-HWS		65R-TC	4.8	768	4.21	817	4.19			A-10	12.29
48. 1.2 690. 4.14 771. 4.15 817. 4.23 86 3.7 A-12 12.15 4.S 3.2 691. 4.14 772. 4.15 817. 4.24 86E. 3.7 A-12 12.27 4U 4.19 6-S. 3.2 773. 4.15 817. 4.26 86E. 7.19 A-12 12.29 4U 4.27 6U 4.19 774. 4.15 817. 4.27 87. 7.14 A-12 12.29 5. 1.5 6U 4.27 774. 4.15 818. 1.4 87. 7.14 A-12 12.35 5. 7.16 7. 7.16 775. 4.15 819. 4.17 87E. 3.7 A-13 12.15 5. 7.17 7. 7.17 7.76 1.7 819. 4.24 882. 3.7 A-13 12.25 500. 8.3 700. 4.15			671	7.7	770	4.15	817	4.21	85E	7.19	A-12	12.13
4U 4.19 6-S 3.2 773 4.15 817 4.26 86E 7.19 A-12 12.29 4U 4.27 6U 4.19 774 1.7 817 4.27 87 3.7 A-12 12.31 5 1.5 6U 4.27 774 4.15 818 1.4 87 7.14 A-12 12.35 5 7.16 7 7.16 775 4.15 819 4.17 87E 3.7 A-13 12.15 5 7.17 7 7.17 776 1.7 819 4.19 880 3.7 A-13 12.15 5 7.4 7 8.5 776 7.9 819 4.21 881 3.7 A-13 12.13 5 7.4 7 8.5 776 7.9 819 4.24 882 3.7 A-13 12.25 500 8.3 700 4.15 777 7.1<	48	1.2			771	4.15	817	4.23	86	3.7	A-12	12.15
4U 4.19 6-S 3.2 773 4.15 817 4.26 86E 7.19 A-12 12.29 4U 4.27 6U 4.19 774 1.7 817 4.27 87 3.7 A-12 12.31 5 1.5 6U 4.27 774 4.15 818 1.4 87 7.14 A-12 12.35 5 7.16 7 7.16 775 4.15 819 4.17 87E 3.7 A-13 12.15 5 7.17 7 7.17 776 1.7 819 4.19 880 3.7 A-13 12.15 5 7.4 7 8.5 776 7.9 819 4.21 881 3.7 A-13 12.13 5 7.4 7 8.5 776 7.9 819 4.24 882 3.7 A-13 12.25 500 8.3 700 4.15 777 7.1<	4-S	3.2	691	4.14	772	4.15	817	4.24	86E	3.7	A-12	12.27
5. 1.5 6U 4.27 774 4.15 818 1.4 87 7.14 A-12 12.35 5. 7.16 7. 7.16 775 4.15 819 4.17 87E 3.7 A-13 12.13 5. 7.17 7. 7.17 776 1.7 819 4.19 880 3.7 A-13 12.15 5. 7.4 7. 8.5 776 7.9 819 4.21 881 3.7 A-13 12.25 500A 4.27 700 4.15 777 7.9 819 4.24 882 3.7 A-13 12.25 506 8.3 700 4.15 777 7.9 819 4.26 882 3.7 A-13 12.25 508 8.3 707 7.1 778 1.17 819 4.26 88E 7.19 A-13 12.25 531 4.19 709 7.1 780	4U	4.19	6-S	3.2			817	4.26	86E	7.19	A-12	12.29
5. 7.16 7. 7.16 775. 4.15 819. 4.17 87E. 3.7 A-13 12.13 5. 7.17 7. 7.17 776. 1.7 819. 4.19 880. 3.7 A-13 12.15 5. 7.4 7. 8.5 776. 7.9 819. 4.21 881. 3.7 A-13 12.25 500A 4.27 700. 4.15 777. 1.7 819. 4.24 882. 3.7 A-13 12.25 506. 8.3 700. 4.15 777. 7.9 819. 4.26 883. 3.7 A-13 12.25 508. 8.3 700. 7.1 778. 1.7 819. 4.26 88E. 7.19 A-13 12.25 531. 4.19 709. 7.1 780. 7.11 819. 4.26 88E. 7.19 A-14-10 12.25 531. 4.24 710.	4U	4.27	6U	4.19	774	1.7	817	4.27	87	3.7	A-12	12.31
5. 7.17 7. 7.17 776 1.7 819 4.19 880 3.7 A-13 12.15 5. .7.4 7. .8.5 .76 .7.9 819 .4.21 .881 .3.7 A-13 .12.22 500A .4.27 .700 .4.15 .777 .1.7 .819 .4.24 .882 .3.7 A-13 .12.25 506 .8.3 .700 .4.15 .777 .7.9 .819 .4.26 .883 .3.7 A-13 .12.25 508 .8.3 .707 .7.1 .778 .1.7 .819 .4.26 .88E .7.19 .A-13 .12.25 531 .4.19 .709 .7.1 .780 .7.11 .819 .4.29 .89 .3.7 .A-14-10 .12.25 531 .4.23 .709 .7.9 .781 .7.11 .819 .4.33 .89E .7.19 .A-17-0 .12.31 .531 .4.24	5	1.5	6U	4.27	774	4.15	818	1.4	87	7.14	A-12	12.35
5	5	7.16	7	7.16	775	4.15	819	4.17	87E	3.7	A-13	12.13
5	5	7.17	7	7.17	776	1.7	819	4.19	880	3.7	A-13	12.15
506 8.3 700. 4.15 777. 7.9 819 4.26 883. 3.7 A-13 12.27 508 8.3 707. 7.1 778. 1.7 819 4.26 88E. 7.19 A-13 12.29 531 4.19 709. 7.1 780. 7.11 819 4.29 89 3.7 A-14-10. 12.25 531 4.23 709. 7.9 781 7.11 819 4.33 89E. 3.7 A-14-6 12.25 531 4.24 710. 7.1 782 7.11 819 4.33 89E. 7.19 A-17 12.31 531 4.26 710. 7.9 783 7.11 81E. 7.19 8R111S 7.12 A-17-A 12.25 531 4.27 711. 4.29 784 7.11 82. 3.7 9 7.4 A-17-B 12.25 532 4.19 713			7	8.5	776	7.9	819	4.21	881	3.7	A-13	12.22
508 8.3 707 7.1 778 1.7 819 4.26 88E 7.19 A-13 12.29 531 4.19 709 7.1 780 7.11 819 4.29 89 3.7 A-14-10 12.25 531 4.23 709 7.9 781 7.11 819 4.33 89E 3.7 A-14-6 12.25 531 4.24 710 7.1 782 7.11 819 4.33 89E 7.19 A-17 12.31 531 4.26 710 7.9 783 7.11 81E 7.19 8R111S 7.12 A-17-A 12.25 531 4.27 711 4.29 784 7.11 82 3.7 9 7.4 A-17-B 12.25 532 4.19 713 4.29 785 7.11 820 4.21 904 3.5 A-17-D 12.25 532 4.26 714 4.29 <td>500A</td> <td>4.27</td> <td>700</td> <td>4.15</td> <td>777</td> <td>1.7</td> <td>819</td> <td>4.24</td> <td>882</td> <td>3.7</td> <td>A-13</td> <td>12.25</td>	500A	4.27	700	4.15	777	1.7	819	4.24	882	3.7	A-13	12.25
531 4.19 709 7.1 780 7.11 819 4.29 89 3.7 A-14-10 12.25 531 4.23 709 7.9 781 7.11 819 4.33 89E 3.7 A-14-6 12.25 531 4.24 710 7.1 782 7.11 819 4.33 89E 7.19 A-17-A 12.25 531 4.26 710 7.9 783 7.11 81E 7.19 8R111S 7.12 A-17-A 12.25 531 4.27 711 4.29 784 7.11 82 3.7 9 7.4 A-17-B 12.25 532 4.19 713 4.29 785 7.11 820 4.19 902 3.5 A-17-C 12.25 532 4.24 713 7.1 786 7.11 820 4.21 904 3.5 A-17-D 12.25 532 4.26 714 4.2	506	8.3	700	4.15	777	7.9	819	4.26	883	3.7	A-13	12.27
531 4.23 709 7.9 781 7.11 819 4.33 89E 3.7 A-14-6 12.25 531 4.24 710 7.1 782 7.11 819 4.33 89E 7.19 A-17 12.31 531 4.26 710 7.9 783 7.11 81E 7.19 88111S 7.12 A-17-A 12.25 531 4.27 711 4.29 784 7.11 82 3.7 9 7.4 A-17-B 12.25 532 4.19 713 4.29 785 7.11 820 4.19 902 3.5 A-17-C 12.25 532 4.24 713 7.1 786 7.11 820 4.21 904 3.5 A-17-D 12.25 532 4.26 714 4.29 787 7.11 821 4.21 90E 7.19 A-17-E 12.25 532 4.27 716 7.1	508	8.3	707	7.1	778	1.7	819	4.26	88E	7.19	A-13	12.29
531 4.24 710 .7.1 782 .7.11 819 4.33 89E .7.19 A-17 12.31 531 4.26 710 .7.9 783 .7.11 81E .7.19 8R111S .7.12 A-17-A .12.25 531 4.27 711 .4.29 784 .7.11 82 .3.7 9 .7.4 A-17-B .12.25 532 4.19 713 .4.29 785 .7.11 820 .4.19 902 .3.5 A-17-C .12.25 532 .4.24 713 .7.1 786 .7.11 820 .4.21 904 .3.5 A-17-D .12.25 532 .4.26 714 .4.29 787 .7.11 821 .4.21 90E .7.19 A-17-E .12.25 532 .4.26 714 .4.29 787 .7.11 821 .4.26 911 .4.29 .4.17-E .12.25 535 .4.21 </td <td>531</td> <td>4.19</td> <td>709</td> <td>7.1</td> <td>780</td> <td>7.11</td> <td>819</td> <td>4.29</td> <td>89</td> <td>3.7</td> <td>A-14-10</td> <td>12.25</td>	531	4.19	709	7.1	780	7.11	819	4.29	89	3.7	A-14-10	12.25
531 4.26 710 7.9 783 7.11 81E 7.19 88111S 7.12 A-17-A 12.25 531 4.27 711 4.29 784 7.11 82 3.7 9 7.4 A-17-B 12.25 532 4.19 713 4.29 785 7.11 820 4.19 902 3.5 A-17-C 12.25 532 4.24 713 7.1 786 7.11 820 4.21 904 3.5 A-17-D 12.25 532 4.26 714 4.29 787 7.11 820 4.21 904 3.5 A-17-D 12.25 532 4.26 714 4.29 787 7.11 821 4.21 90E 7.19 A-17-E 12.25 532 4.27 716 7.1 788 7.11 821 4.26 911 4.29 A-18 12.25 535 4.21 72 3.1	531	4.23	709	7.9	781	7.11	819	4.33	89E	3.7	A-14-6	12.25
531 4.26 710 7.9 783 7.11 81E 7.19 88111S 7.12 A-17-A 12.25 531 4.27 711 4.29 784 7.11 82 3.7 9 7.4 A-17-B 12.25 532 4.19 713 4.29 785 7.11 820 4.19 902 3.5 A-17-C 12.25 532 4.24 713 7.1 786 7.11 820 4.21 904 3.5 A-17-D 12.25 532 4.26 714 4.29 787 7.11 821 4.21 90E 7.19 A-17-E 12.25 532 4.27 716 7.1 788 7.11 821 4.26 911 4.29 A-18 12.25 535 4.21 72 3.19 789 7.11 822 4.26 911 5.6 A-2 12.25 535A 4.19 724 7.4 </td <td>531</td> <td>4.24</td> <td>710</td> <td>7.1</td> <td>782</td> <td>7.11</td> <td>819</td> <td>4.33</td> <td>89E</td> <td>7.19</td> <td>A-17</td> <td>12.31</td>	531	4.24	710	7.1	782	7.11	819	4.33	89E	7.19	A-17	12.31
532 4.19 713 4.29 785 7.11 820 4.19 902 3.5 A-17-C 12.25 532 4.24 713 7.1 786 7.11 820 4.21 904 3.5 A-17-D 12.25 532 4.26 714 4.29 787 7.11 821 4.21 90E 7.19 A-17-E 12.25 532 4.27 716 7.1 788 7.11 821 4.26 911 4.29 A-18 12.25 535 4.21 72 3.19 789 7.11 822 4.26 911 5.6 A-2 12.25 535A 4.19 724 7.4 796 7.11 824 1.4 912 5.6 A-2 12.27 541 4.29 725 4.29 797 7.11 83 3.7 913 4.29 A-2 12.29 542 4.29 72-BP 12.9	531	4.26	710	7.9	783	7.11			8R111S	7.12	A-17-A	12.25
532 4.19 713 4.29 785 7.11 820 4.19 902 3.5 A-17-C 12.25 532 4.24 713 7.1 786 7.11 820 4.21 904 3.5 A-17-D 12.25 532 4.26 714 4.29 787 7.11 821 4.21 90E 7.19 A-17-E 12.25 532 4.27 716 7.1 788 7.11 821 4.26 911 4.29 A-18 12.25 535 4.21 72 3.19 789 7.11 822 4.26 911 5.6 A-2 12.25 535A 4.19 724 7.4 796 7.11 824 1.4 912 5.6 A-2 12.27 541 4.29 725 4.29 797 7.11 83 3.7 913 4.29 A-2 12.29 542 4.29 72-BP 12.9	531	4.27	711	4.29					9	7.4	A-17-B	12.25
532 4.24 713 7.1 786 7.11 820 4.21 904 3.5 A-17-D 12.25 532 4.26 714 4.29 787 7.11 821 4.21 90E 7.19 A-17-E 12.25 532 4.27 716 7.1 788 7.11 821 4.26 911 4.29 A-18 12.25 535 4.21 72 3.19 789 7.11 822 4.26 911 5.6 A-2 12.25 535A 4.19 724 7.4 796 7.11 824 1.4 912 5.6 A-2 12.27 541 4.29 725 4.29 797 7.11 83 3.7 913 4.29 A-2 12.39 542 4.29 72-BP 12.9 8 1.2 831377 13.5 914 4.29 A-2 12.31 555 4.27 72-BP 12.9	532	4.19	713	4.29	785	7.11	820	4.19	902	3.5		
532 4.26 714 4.29 787 7.11 821 4.21 90E 7.19 A-17-E 12.25 532 4.27 716 7.1 788 7.11 821 4.26 911 4.29 A-18 12.25 535 4.21 72 3.19 789 7.11 822 4.26 911 5.6 A-2 12.25 535A 4.19 724 7.4 796 7.11 824 1.4 912 5.6 A-2 12.27 541 4.29 725 4.29 797 7.11 83 3.7 913 4.29 A-2 12.29 542 4.29 72-BP 12.9 8 1.2 831377 13.5 914 4.29 A-2 12.31 555 4.27 72-BP 12.9 8 7.16 832068 13.5 914 5.6 A-2 12.35			713	7.1	786	7.11	820	4.21	904	3.5		
532 4.27 716 7.1 788. 7.11 821 4.26 911 4.29 A-18. 12.25 535. 4.21 72. 3.19 789. 7.11 822 4.26 911 5.6 A-2 12.25 535A 4.19 724 7.4 796 7.11 824 1.4 912 5.6 A-2 12.27 541 4.29 725 4.29 797 7.11 83 3.7 913 4.29 A-2 12.29 542 4.29 72-BP 12.9 8 1.2 831377 13.5 914 4.29 A-2 12.31 555 4.27 72-BP 12.9 8 7.16 832068 13.5 914 5.6 A-2 12.35	532	4.26	714	4.29	787	7.11	821	4.21				
535. 4.21 72. 3.19 789. 7.11 822. 4.26 911. 5.6 A-2 12.25 535A 4.19 724. 7.4 796. 7.11 824. 1.4 912. 5.6 A-2 12.27 541 4.29 725. 4.29 797. 7.11 83. 3.7 913. 4.29 A-2 12.29 542 4.29 72-BP 12.9 8. 1.2 831377. 13.5 914. 4.29 A-2 12.31 555. 4.27 72-BP 12.9 8. 7.16 832068. 13.5 914. 5.6 A-2 12.35			716	7.1							A-18	12.25
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23692	12.30	26107	4.28	27923	10.6	31020	1.2	31355	1.5	31597	8.6
23697	12.30	26112	4.28	27938	10.7	31025	1.2	31360	1.5	31600	1.9
23702		26122	4.28		10.7	31030		31365	1.5	31602	8.6
23707	12.30	26127	4.28	27948	10.7	31035	1.2	31370	1.5	31605	1.9
23712	12.30	26132	4.29	27958	10.6	31038	13.5	31375	1.3	31607	8.6
23717	12.30	26137	4.29	27968	10.6	31040	1.2	31380	1.3	31610	1.9
23737	12.28	26142	4.29	27998	10.2	31045	1.2	31385	1.3	31612	8.6
23738	13.4	26147	4.29	27998	10.9	31050	1.2	31390	1.3	31615	1.9
23742	12.28	26148	7.21	28003	10.2	31055	1.2	31395	1.3	31617	8.6
23743	13.4	26152	4.29	28003	10.9	31060	1.2	31400	1.6	31620	1.9
23747	12.28	26157	4.29	28008	10.2	31063	13.5	31405	1.7	31622	3.14
23752	12.28	26162	4.29	28008	10.9	31065	1.2	31410	3.5	31622	3.16
23778	13.5	26163	10.9	28013	10.2	31068	13.5	31420	1.9	31625	1.9
23783	13.5	26167	4.29	28013	10.9	31070	1.2	31425	1.9	31627	3.14
23868		26187	4.29	28018	10.2	31073	13.5	31430	1.9	31632	3.15
23873			4.29		10.9	31075		31435		31632	3.16
23878	11.5	26212	4.29	28023	10.2	31078	13.5	31440	1.9	31637	3.15
23883		26217	4.29	28023	10.9	31080		31442	4.28	31637	3.16
23888		26453	12.46	28028	10.9	31085		31445	1.9	31642	3.15
23893		26558			10.9	31088		31450		31642	
23898			13.5		10.9	31090		31455		31647	
23908		26643			10.9	31093		31460		31647	
23913		26648			10.9	31095		31465		31650	
23913			11.14		10.12	31098		31470		31652	
24087			11.14		10.12	31100		31475		31652	
24453			12.13		10.12	31103		31480		31657	
24458			12.13		10.12	31105		31485		31657	
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1687 3.16 23880 3.3 3320 3.16 32528 8.4 35776 7.17 38555 4.3 3170 1.9 25900 3.5 33225 3.6 35270 8.4 35756 7.17 38595 4.8 3175 1.9 32910 3.16 33525 3.6 35270 8.4 35780 7.17 38595 4.8 3175 1.9 32910 3.16 33842 4.29 35200 8.4 35795 7.17 38592 3.16 31740 1.9 23910 3.16 33842 4.29 35200 8.4 35950 7.17 38592 3.16 31750 1.9 32910 3.16 33847 8.6 3556 7.16 38610 7.17 38692 3.16 31750 1.9 32920 3.15 34917 4.22 35500 7.16 38810 7.17 38692 3.16 317 38690			328503.2	332003.16	352408.4	357607.17	365404.3
1967 3.16 30865	31662	3.16	328703.3	332053.16	352458.4	357657.17	365504.3
51720 1.9 20900 3.5 32525 3.6 80290 8.4 8790 7.17 06950 4.8 31730 1.9 32910 3.15 32851 3.17 35275 8.4 35795 7.17 36892 3.15 31735 1.9 32910 3.15 38851 3.12 35290 8.4 35795 7.17 36892 3.15 31740 1.9 32910 3.15 38900 3.5 35290 8.4 38900 7.17 36972 3.15 31740 1.9 32900 3.15 36970 3.5 35290 8.4 36900 7.17 36672 3.15 31750 1.9 32920 3.15 34977 4.22 35560 7.16 35815 3.77 36620 4.24 31760 1.9 32930 3.15 34927 4.22 35560 7.16 35820 3.7 36680 3.1 31770 <	31667	3.15	328803.3	332103.16	352508.4	357707.17	365554.3
1775 1.9 32910	31667	3.16	328953.3	332203.6	352558.4	357757.17	365604.3
1730	31720	1.9	329003.5	332253.6	352608.4	357807.17	365654.8
31735. 1.9 20910. 3.16 3362. 4.29 85280. 8.4 85785. 7.17 36897. 3.15 31740. 1.9 32920. 3.15 33690. 3.5 35290. 8.4 38905. 7.17 36897. 3.16 31750. 1.9 32920. 3.15 3077. 4.20 35560. 7.16 38910. 7.17 36670. 4.10 31760. 1.9 32920. 3.15 3002. 4.22 35565. 7.16 38920. 3.7 36670. 4.20 31760. 1.9 32920. 3.15 34092. 4.32 35565. 7.16 3892. 3.7 36690. 4.10 31775. 1.9 32940. 3.1 31492. 3.13 35690. 7.16 3893. 3.7 36690. 4.4 31787. 1.19 32940. 3.1 31417. 4.29 35560. 7.16 38943. 3.7 36890. 4.5	31725	1.9	329053.5	335513.16	352708.4	357857.17	365704.8
1740	31730	1.9	329103.15	335513.12	352758.4	357907.17	365923.15
1714 19 32915	31735	1.9	329103.16	336424.29	352808.4	357957.17	365923.16
31745. 1.9 3220. 3.15 33670. 3.5 92290. 8.4 35905. 7.17 36670. 4.10 31750. 1.9 32205. 3.15 34077. 4.22 35540. 7.16 38810. 7.17 36620. 4.20 31765. 1.9 32230. 3.15 34082. 4.32 35540. 7.16 38810. 3.7 36620. 4.10 31760. 1.9 32300. 3.16 34087. 4.22 35555. 7.16 38810. 3.7 36620. 3.10 31770. 1.9 32383. 3.15 34447. 3.18 35555. 7.16 38303. 3.7 36680. 4.4 31775. 1.9 32940. 3.1 34147. 3.18 35565. 7.16 38303. 3.7 36680. 4.4 31782. 7.12 32970. 3.16 34157. 4.29 35575. 7.16 35846. 3.7 36880. 4.5 <td></td> <td></td> <td>329153.15</td> <td>336653.5</td> <td>352858.4</td> <td>358007.17</td> <td>365973.15</td>			329153.15	336653.5	352858.4	358007.17	365973.15
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31760					355357.16	358107.17	
1776 19	31755	1.9	329253.15	340774.32	355407.16	358153.7	366204.26
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31787 1.9 32950 3.15 34152 8.5 35570 7.16 35845 3.7 36880 4.5 31787 7.12 23970 3.16 34157 4.29 35580 7.16 35850 3.7 36893 4.5 31792 7.12 23975 3.18 34167 4.29 35580 7.16 35867 4.19 36895 4.5 31797 7.12 32975 3.16 34167 4.29 35580 7.16 35867 4.19 36895 4.5 31797 7.12 32995 3.16 34177 4.29 35595 7.16 35867 4.24 35890 4.5 31802 7.13 33005 3.16 34182 4.29 35500 3.7 35872 4.26 36912 4.13 31807 7.13 33057 4.29 34570 3.5 36615 3.7 358872 4.26 36942 4.2 31827	31775	1.9	329403.15	341423.18	355607.16	358353.7	366904.4
31787 7.12 32970 3.16 34157 4.29 35575 7.16 35850 3.7 36885 4.5 31790 1.9 32975 3.13 34162 4.29 35580 7.16 35855 3.7 36890 4.5 31797 7.12 32995 3.16 34167 4.29 35590 7.16 35867 4.13 36891 4.5 31802 7.12 32995 3.16 34177 4.29 35590 3.7 35867 4.26 36900 4.5 31802 7.13 33005 3.16 34182 4.29 35600 3.7 35877 4.26 36912 4.13 31807 7.10 33055 3.16 34497 4.13 35610 3.7 35877 4.26 36932 4.13 31807 7.13 33057 4.29 34570 3.5 35615 3.7 35897 4.26 36935 4.5 318107	31780	1.9	329403.1	341473.18	355657.16	358403.7	368754.5
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31790 1.9 32975 3.13 34162 4.29 35580 .7.16 35895 .37 36890 4.5 31797 .7.12 32975 3.16 34167 4.29 35596 .7.16 35867 4.19 36890 .45 31802 .7.12 32995 3.16 34177 4.29 35590 .7.16 35867 4.26 36900 .45 31802 .7.13 33005 3.16 34182 4.29 35600 3.7 35877 4.26 36912 4.13 31807 .7.10 33055 3.14 34217 4.26 35605 3.7 35877 4.26 36932 4.13 31807 .7.12 33057 4.29 34570 3.5 35615 3.7 35882 4.26 36932 4.5 31827 4.29 33077 4.29 34577 3.5 35620 3.7 35910 7.6 36945 4.5 31827<			329703.16	341574.29	355757.16	358503.7	368854.5
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31802 7.12 32985 3.16 34177 4.29 35595 3.7 35867 4.33 36902 4.13 31802 7.13 33005 3.16 34182 4.29 35600 3.7 35877 4.26 36932 4.13 31807 7.10 33055 3.16 34497 4.13 35610 3.7 35887 4.26 36932 4.13 31807 7.13 33057 4.29 34570 3.5 35615 3.7 35887 4.26 36932 4.5 31817 7.12 33070 3.14 34572 3.15 35620 3.7 35900 7.6 36942 8.2 31822 4.30 33077 4.29 34575 3.5 35620 3.7 35910 7.6 36945 4.5 31822 4.29 33077 4.29 34577 4.29 35630 3.7 35915 7.6 36944 8.2 31832	31792	7.12	329753.16	341674.29	355857.16	358674.19	368954.5
31802 7.13 33005 3.16 34182 4.29 35600 3.7 35872 4.26 36912 4.13 31807 7.10 33055 3.14 34217 4.26 35605 3.7 35882 4.26 36932 4.13 31807 7.12 33055 3.16 34497 4.13 35610 3.37 35882 4.26 36935 4.5 31817 7.12 33070 3.14 34572 3.15 35615 3.7 35990 7.6 36942 8.2 31827 4.29 34575 3.5 35620 3.7 35910 7.6 36942 8.2 31827 4.29 33077 4.29 34577 4.29 35630 3.7 35910 7.6 36945 4.5 31832 4.29 33085 7.7 34612 4.26 35635 3.7 35920 7.6 36950 4.5 31990 1.5 33100	31797	7.12		341724.29	355907.16	358674.26	369004.5
31802 7.13 33005 3.16 34182 4.29 35600 3.7 35872 4.26 36912 4.13 31807 7.10 33055 3.14 34217 4.26 35605 3.7 35882 4.26 36932 4.13 31807 7.12 33055 3.16 34497 4.13 35610 3.37 35882 4.26 36935 4.5 31817 7.12 33070 3.14 34572 3.15 35615 3.7 35990 7.6 36942 8.2 31827 4.29 34575 3.5 35620 3.7 35910 7.6 36942 8.2 31827 4.29 33077 4.29 34577 4.29 35630 3.7 35910 7.6 36945 4.5 31832 4.29 33085 7.7 34612 4.26 35635 3.7 35920 7.6 36950 4.5 31990 1.5 33100	31802	7.12	329853.16	341774.29	355953.7	358674.33	369024.13
31807 7.10 33055 3.14 34217 4.26 35605 3.7 35877 4.26 36932 4.13 31807 7.12 33055 3.16 34497 4.13 35610 3.7 35882 4.26 36935 4.5 31807 7.13 33057 4.29 34570 3.5 35615 3.7 35887 4.26 36940 4.5 31817 7.12 33070 3.14 34572 3.15 35615 3.7 35890 7.6 36942 4.2 31822 4.30 33072 4.29 34575 3.5 35625 3.7 35910 7.6 36945 4.5 31827 4.29 33077 4.29 34575 4.26 35630 3.7 35910 7.6 36947 8.2 31832 4.29 33075 4.29 34575 4.26 35630 3.7 35920 7.6 36945 4.5 31990			330053.16		356003.7		
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31822 4.30 33072 4.29 34575 3.5 35625 3.7 35910 7.6 36945 4.5 31827 4.29 33077 4.29 34577 4.29 35630 3.7 35915 7.6 36947 8.2 31832 4.29 33085 7.7 34612 4.26 35630 3.7 35920 7.6 36950 4.5 31990 1.5 33100 3.6 34695 3.16 35640 3.7 36005 8.5 36952 8.2 32020 1.5 33110 3.6 34945 3.7 35650 3.7 36005 8.2 36957 8.2 32025 1.5 33110 3.6 34950 3.7 35660 3.7 36092 8.2 36967 8.2 32025 1.5 33112 3.6 34950 3.7 35660 3.7 36092 8.2 36966 4.5 32050 1.5	31807	7.13	330574.29	345703.5	356153.7	358874.26	369404.5
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31990 1.5 33100 3.6 34617 4.26 35640 3.7 36005 3.18 36952 8.2 32015 1.5 33105 3.6 34695 3.16 35645 3.7 36005 8.5 36955 4.5 32020 1.5 33110 3.6 34945 3.7 35650 3.7 36092 8.2 36957 8.2 32025 1.5 33115 3.6 34950 3.7 35655 3.7 36092 8.2 36960 4.5 32055 1.5 33120 3.6 34950 3.7 35665 3.7 36097 8.2 36962 8.2 32050 1.5 33125 3.6 34960 3.7 35665 3.7 36102 8.2 36962 8.2 32055 1.5 33130 3.6 34965 3.19 35670 3.7 36112 8.2 36962 8.2 32055 1.5	31827	4.29	330774.29	345774.29	356303.7	359157.6	369478.2
32015 1.5 33105 3.6 34695 3.16 35645 3.7 36005 8.5 36955 4.5 32020 1.5 33110 3.6 34945 3.7 35650 3.7 36092 8.2 36957 8.2 32025 1.5 33115 3.6 34950 3.7 35665 3.7 36092 8.2 36960 4.5 32035 1.5 33120 3.6 34955 3.7 35660 3.7 36097 8.2 36962 8.2 32055 1.5 33125 3.6 34960 3.7 35665 3.7 36102 8.2 36962 8.2 32055 1.5 33130 3.6 34965 3.19 35670 3.7 36112 8.2 36965 4.5 32065 1.5 33135 3.6 34975 3.7 35675 3.7 36112 8.2 36967 8.2 32237 4.29	31832	4.29	330857.7	346124.26	356353.7	359207.6	369504.5
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32025 1.5 33115 3.6 34950 3.7 35655 3.7 36092 8.2 36960 4.5 32035 1.5 33120 3.6 34955 3.7 35660 3.7 36097 8.2 36962 8.2 32050 1.5 33125 3.6 34960 3.7 35665 3.7 36102 8.2 36962 8.2 32055 1.5 33130 3.6 34965 3.19 35670 3.7 36112 8.2 36965 4.5 32065 1.5 33135 3.6 34975 3.7 35675 3.7 36112 8.2 36965 4.5 32237 4.29 33145 3.6 35020 3.7 35680 3.7 36122 8.2 36970 4.5 32737 12.17 33155 3.6 35090 3.7 35685 3.7 36122 8.2 36970 4.5 32737 12.17	32015	1.5	331053.6	346953.16	356453.7	360058.5	369554.5
32035 1.5 33120 3.6 34955 3.7 35660 3.7 36097 8.2 36962 8.2 32050 1.5 33125 3.6 34960 3.7 35665 3.7 36102 8.2 36962 8.2 32055 1.5 33130 3.6 34965 3.19 35670 3.7 36112 8.2 36965 4.5 32065 1.5 33135 3.6 34975 3.7 35675 3.7 36117 8.2 36967 8.2 32237 4.29 33145 3.6 35020 3.7 35680 3.7 36122 8.2 36970 4.5 32242 4.29 33150 3.6 35090 3.7 35685 3.7 36127 8.2 36972 8.2 32737 12.17 33160 3.16 35155 3.7 35695 7.16 36132 8.2 36975 4.5 32737 12.19	32020	1.5	331103.6	349453.7	356503.7	360928.2	369578.2
32050 1.5 33125 3.6 34960 3.7 35665 3.7 36102 8.2 36962 8.2 32055 1.5 33130 3.6 34965 3.19 35670 3.7 36112 8.2 36965 4.5 32065 1.5 33135 3.6 34975 3.7 35675 3.7 36117 8.2 36967 8.2 32237 4.29 33145 3.6 35020 3.7 35680 3.7 36122 8.2 36970 4.5 32242 4.29 33150 3.6 35090 3.7 35685 3.7 36127 8.2 36972 8.2 32737 12.17 33155 3.6 35135 3.7 35685 3.7 36127 8.2 36972 8.2 32737 12.17 33160 3.16 35135 3.7 35695 7.16 36342 8.2 36975 4.5 32737 12.19	32025	1.5	331153.6	349503.7	356553.7	360928.2	369604.5
32055 1.5 33130 3.6 34965 3.19 35670 3.7 36112 8.2 36965 4.5 32065 1.5 33135 3.6 34975 3.7 35675 3.7 36117 8.2 36967 8.2 32237 4.29 33145 3.6 35020 3.7 35680 3.7 36122 8.2 36970 4.5 32242 4.29 33150 3.6 35090 3.7 35685 3.7 36127 8.2 36972 8.2 32737 12.17 33155 3.6 35135 3.7 35695 7.16 36132 8.2 36972 8.2 32737 12.19 33160 3.16 35155 3.19 35700 7.16 36345 4.3 36980 4.5 32737 12.21 33165 3.16 35175 8.3 35720 7.17 36355 4.3 36980 4.5 32775 1.9<	32035	1.5	331203.6	349553.7	356603.7	360978.2	369628.2
32065. 1.5 33135. 3.6 34975. 3.7 35675. 3.7 36117. 8.2 36967. 8.2 32237. 4.29 33145. 3.6 35020. 3.7 35680. 3.7 36122. 8.2 36970. 4.5 32242. 4.29 33150. 3.6 35090. 3.7 35685. 3.7 36127. 8.2 36972. 8.2 32737. 12.17 33155. 3.6 35135. 3.7 35695. 7.16 36132. 8.2 36975. 4.5 32737. 12.19 33160. 3.16 35155. 3.19 35700. 7.16 36345. 4.3 36980. 4.5 32737. 12.21 33165. 3.16 35170. 8.3 35720. 7.17 36355. 4.3 36985. 4.5 32775. 1.9 33170. 3.16 35175. 8.3 35725. 7.17 36375. 4.3 36990. 4.5 32810. 3.2 33175. 3.16 35215. 8.4 35735. <t< td=""><td>32050</td><td>1.5</td><td>331253.6</td><td>349603.7</td><td>356653.7</td><td>361028.2</td><td>369628.2</td></t<>	32050	1.5	331253.6	349603.7	356653.7	361028.2	369628.2
32237 4.29 33145 3.6 35020 3.7 35680 3.7 36122 8.2 36970 4.5 32242 4.29 33150 3.6 35090 3.7 35685 3.7 36127 8.2 36972 8.2 32737 12.17 33155 3.6 35135 3.7 35695 7.16 36132 8.2 36975 4.5 32737 12.19 33160 3.16 35155 3.19 35700 7.16 36345 4.3 36980 4.5 32737 12.21 33165 3.16 35170 8.3 35720 7.17 36355 4.3 36985 4.5 32737 1.9 33170 3.16 35175 8.3 35725 7.17 36355 4.3 36985 4.5 32810 3.2 33175 3.12 35180 8.3 35730 7.17 36380 4.3 36995 4.5 32820 3	32055	1.5	331303.6	349653.19	356703.7	361128.2	369654.5
32242 4.29 33150 3.6 35090 3.7 35685 3.7 36127 8.2 36972 8.2 32737 12.17 33155 3.6 35135 3.7 35695 7.16 36132 8.2 36975 4.5 32737 12.19 33160 3.16 35155 3.19 35700 7.16 36345 4.3 36980 4.5 32737 12.21 33165 3.16 35170 8.3 35720 7.17 36355 4.3 36985 4.5 32775 1.9 33170 3.16 35175 8.3 35725 7.17 36375 4.3 36990 4.5 32810 3.2 33175 3.12 35180 8.3 35730 7.17 36380 4.3 36995 4.5 32820 3.2 33175 3.16 35215 8.4 35735 7.17 36390 4.3 37000 4.5 32830 3.2 33180 3.16 35220 8.4 35745 7.17 36480	32065	1.5	331353.6	349753.7	356753.7	361178.2	369678.2
32737. 12.17 33155. 3.6 35135. 3.7 35695. 7.16 36132. 8.2 36975. 4.5 32737. 12.19 33160. 3.16 35155. 3.19 35700. 7.16 36345. 4.3 36980. 4.5 32737. 12.21 33165. 3.16 35170. 8.3 35720. 7.17 36355. 4.3 36985. 4.5 32775. 1.9 33170. 3.16 35175. 8.3 35725. 7.17 36375. 4.3 36990. 4.5 32810. 3.2 33175. 3.12 35180. 8.3 35730. 7.17 36380. 4.3 36995. 4.5 32820. 3.2 33175. 3.16 35215. 8.4 35735. 7.17 36390. 4.3 37000. 4.5 32825. 3.2 33180. 3.16 35220. 8.4 35740. 7.17 36475. 4.3 37010. 4.5	32237	4.29	331453.6	350203.7	356803.7	361228.2	369704.5
32737 12.19 33160 3.16 35155 3.19 35700 7.16 36345 4.3 36980 4.5 32737 12.21 33165 3.16 35170 8.3 35720 7.17 36355 4.3 36985 4.5 32775 1.9 33170 3.16 35175 8.3 35725 7.17 36375 4.3 36990 4.5 32810 3.2 33175 3.12 35180 8.3 35730 7.17 36380 4.3 36995 4.5 32820 3.2 33175 3.16 35215 8.4 35735 7.17 36390 4.3 37000 4.5 32825 3.2 33180 3.16 35220 8.4 35740 7.17 36475 4.3 37005 4.5 32830 3.2 33185 3.16 35225 8.4 35745 7.17 36480 4.3 37010 4.5 32840	32242	4.29	331503.6	350903.7	356853.7	361278.2	369728.2
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32810. 3.2 33175. 3.12 35180. 8.3 35730. 7.17 36380. 4.3 36995. 4.5 32820. 3.2 33175. 3.16 35215. 8.4 35735. 7.17 36390. 4.3 37000. 4.5 32825. 3.2 33180. 3.16 35220. 8.4 35740. 7.17 36475. 4.3 37005. 4.5 32830. 3.2 33185. 3.16 35225. 8.4 35745. 7.17 36480. 4.3 37010. 4.5 32840. 3.2 33190. 3.16 35230. 8.4 35750. 7.17 36505. 4.3 37015. 4.5	32737	12.21	331653.16	351708.3	357207.17	363554.3	369854.5
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32825 3.2 33180 3.16 35220 8.4 35740 7.17 36475 4.3 37005 4.5 32830 3.2 33185 3.16 35225 8.4 35745 7.17 36480 4.3 37010 4.5 32840 3.2 33190 3.16 35230 8.4 35750 7.17 36505 4.3 37015 4.5	32810	3.2	331753.12	351808.3	357307.17	363804.3	369954.5
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37030		37510			4.7	38120		40090		41697	
37035		37515			4.7	38125		40100		41697	
37040		37520			4.7	38130		40110		41852	
37045		37525			4.7	38140		40125		41855	
37050		37530			12.15	38155	4.11	40130		41855	
37055		37535			4.7	38220		40165		41860	
37095		37540			12.15	38225		40170		41935	
37100		37545	4.5		4.7	38230		40175		41937	
37105		37550			12.15	38235		40180		41937	
37110		37555	4.5		4.7	38240	-	40185	2.2	41937	
37115	4.5	37560	4.5		12.15	38245	4.8	40190	2.2	41937	
37125	4.5	37565	4.5	37860	4.7	38250	4.8	40195	2.2	41937	12.19
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37135	4.5	37575	4.5	37865	4.7	38335	4.7	40205	2.2	41937	12.22
37140	4.5	37580	4.5	37867	12.15	38340	4.7	40210	2.2	41937	12.23
37145	4.5	37585	4.5		4.7	38345	4.7	40215	2.2	41937	12.37
37150	4.5	37590	4.5	37875	4.7	38350	4.7	40220	2.3	41937	12.39
37150	4.5	37595	4.5	37880	4.7	38355	4.7	40225	2.3	41937	12.41
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37160	4.5	37615	4.5	37890	4.7	38365	4.7	40235	2.3	41977	12.18
37165		37620	4.5	37895	4.7	38370	4.7	40617	3.13	41982	12.19
37170	4.5	37625	4.5	37900	4.7	38375	4.7	40617	3.16	41992	12.19
37175		37630	4.5	37905	4.7	38380		41162	8.6	41992	
37180	4.5	37635	4.5	37910	4.7	38385	4.7	41212	12.19	42002	12.18
37185	4.5	37640	4.5	37915	4.7	38390	4.7	41212	12.21	42007	12.18
37190	4.5	37645	4.5	37920	4.7	38395	4.7	41285		42012	12.18
37195	4.5	37650	4.5	37925	4.7	38400	4.7	41295	8.6	42047	4.27
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37380	4.5	37675	4.5	37935	4.7	38410	4.7	41315	8.6	42057	4.27
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37395		37715	4.5	37950		38425	4.7	41330	8.6	42072	
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37405		37725			4.7	38540	4.3	41340	8.6	42082	
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37440	4.5	37745	4.5		4.7	38610		41575	4.12	42255	
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37455		37777			4.7	38625		41600		42270	
37460		37780			4.7	39187		41610		42275	
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37403		37805			4.7	39976		41620		42360	
37495		37810			4.8	40005		41620		42360	
37500		37815			4.8	40003		41620		42360	
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42365	4.17	4421212.18	47617	12.39	48307	5.5	48597	8.7	49225	4.31
42365	4.19	4421712.18	47735	4.30	48310	4.31	48605	4.32	49230	
42365		4458712.33	47740	4.30	48315	4.31	48610	4.32	49240	
42370	4.17	448528.3	47745	4.30	48320	-	48615	4.32	49245	4.31
42380	4.17	448974.14	47750	4.30	48325	4.31	48620	4.32	49250	4.31
42385	4.17	449924.29	47755		48330	4.31	48625	4.32	49272	12.37
42390	4.19	449974.29	47760	4.30	48335	4.31	48630	4.32	49272	
42390	4.21	450024.29	47765	4.30	48340	4.31	48635	4.32	49272	12.41
42395	4.21	450075.5	47770	4.30	48345	4.31	48640	4.32	49277	12.37
42395	4.26	453475.5	47775	4.30	48350	4.31	48645	4.32	49277	12.39
42405	4.10	453525.5	47780	4.30	48355	4.31	48650	4.32	49277	
42405	4.21	4601512.19	47785	4.30	48360	4.31	48655	4.32	49305	4.32
42415	4.10	461053.12	47790	4.30	48367	12.37	48660	4.32	49345	
42415	4.21	464253.18	47810	4.30	48367	12.39	48665	4.32	49487	12.37
42485	4.19	464503.18	47815	4.30	48367	12.41	48670	4.32	49487	12.39
42485	4.27	466604.17	47820	4.30	48375	4.31	48675	4.32	49585	4.32
42490	4.19	466604.26	47845	4.30	48377	5.6	48680	4.32	49600	4.32
42490	4.27	467324.8	47850	4.30	48382	5.6	48690	4.32	49610	4.32
42505	2.5	467374.8	47855	4.30	48387	5.6	48695	4.32	49662	5.6
42505	4.10	467424.8	47860	4.30	48392	5.6	48700	4.32	49707	4.7
42510	2.5	467474.8	47875	4.30	48397	5.6	48705	4.32	49712	4.7
42575	4.17	4683712.32	47880	4.30	48402	5.6	48710	4.32	49717	4.7
42575	5.8	468525.5	47885	4.30	48405	5.6	48715	4.32	49722	4.7
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42605	4.15	4704712.18	47895	4.30	48407	5.6	48725	4.32	49795	4.32
42610		470571.4	47900	4.30	48407	5.7	48730	4.32	49805	4.32
42615	4.15	470826.5	47905	4.30	48412	5.6	48735	4.32	49815	4.32
42620	4.15	470876.5	47910	4.30	48412	5.7	48740	4.32	49820	4.32
42625	4.15	472225.6	47940	4.30	48417	5.6	48745	4.32	49825	4.32
42950	4.15	473953.18	48157	12.39	48417	5.7	48755	4.32	49830	4.32
42956	3.11	4742712.19	48157	12.41	48457	12.32	48915	4.32	49835	4.32
43292	4.14	4742712.21	48215	4.31	48462	12.33	48920	4.32	49840	4.32
43507	12.32	4743212.19	48220	4.31	48472	12.27	48925	4.32	49845	4.32
43512	12.32	4743212.21	48225	4.31	48472	12.29	48930	4.32	49850	4.32
43637	12.19	4754212.37	48230	4.31	48477	12.27	48935	4.32	49870	4.32
43642	12.19	4754212.39	48235	4.31	48477	12.29	48940	4.32	49875	4.32
43642	12.23	4754212.41	48240	4.31	48482	12.9	48945	4.32	49890	4.32
43647	12.17	4759212.37	48245	4.31	48482	12.11	48950	4.32	49895	4.32
43647	12.19	4759212.39	48250	4.31	48482	12.25	48955	4.32	49900	4.32
43647		4759212.41	48255		48537		48960		49905	4.32
43890	4.26	4759712.37	48260	4.31	48542	8.7	48965	4.32	49915	4.32
44117	12.19	4759712.39	48265	4.31	48547		48970		49925	
44117		4759712.41	48270		48552	8.7	48975		49930	4.32
44122		4760212.37	48275	4.31	48557		48985		49932	
44122		4760212.39	48280		48562		49002		49937	
44122		4760212.41	48285		48567		49002		49942	
44185		4760712.37	48290		48572		49032		49947	
44190		4760712.39	48292		48577		49032		49952	
44200		4761212.37	48295		48582		49032		49962	
44202		4761212.39	48297		48587		49215		49967	
44207		4761712.37	48305		48592		49220		49972	
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50002		50647	12.11		4.33	52440		52900		54465	
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50007		50652	12.9		4.33	52455	7.5	52910	-	54500	7.14
50007		50652	12.11	51206	8.5	52465	7.5	52915	6.4	54520	
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50040	4.32	50657	12.9	51317	12.25	52475	7.5	52925	6.4	54575	7.14
50050			12.11		12.27	52480	7.5	52930		54837	
50060	4.32	50657	12.15	51317	12.29	52485	7.5	52935	6.4	54837	12.11
50070	4.32	50700	4.30	51342	12.18	52490	7.5	52940	6.4	54837	12.15
50075	4.32	50705	4.30	51402	12.18	52495	7.5	52945	6.4	54837	12.25
50080	4.32	50710	4.30	51407	12.18	52505	7.5	52950	6.4	54842	12.15
50085	4.32	50715	4.30	51507	6.7	52755	6.4	52955	6.4	54852	12.15
50090	4.32	50720	4.30	51512	6.7	52760	6.4	52957	12.37	54992	12.15
50095	4.32	50725	4.30	51517	6.7	52760	6.5	52960	6.4	55002	12.15
50100	4.32	50730	4.30	51522	6.7	52765	6.4	52962	12.25	55007	12.15
50105		50735	4.30	51527	6.7	52770	6.4	52965	6.4	55012	12.15
50107	4.26	50740	4.30	51537	6.7	52775	6.4	52970	6.4	55017	12.15
50110	4.32	50745	4.30	51542	6.7	52780	6.4	52972	12.24	55207	4.3
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50125	4.32	50760	4.30		12.37	52790	6.4	52985	6.4	55457	
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50522			4.31		8.3	52825		54090		56782	
50525			4.17		8.3	52830		54095		56782	
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50585			4.33		8.5	52880		54397		56797	
50590			4.33		8.5	52885		54440		56797	
50645		51055			8.5	52890		54445		56847	
50647	12.9	51060	4.33	52435	8.5	52895	6.4	54450	7.14	56852	7.6

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58227 3.9 59360 12.21 59987 12.19 61960 12.31 62300 12.31 62870 58712 4.29 59360 12.23 59987 12.21 61960 12.35 62347 7.10 62875 58747 8.5 59360 12.27 59992 5.6 61970 12.31 62352 7.9 62875 58752 4.24 59360 12.29 59992 5.7 61975 12.31 62352 7.10 62875 58757 4.24 59360 12.31 60002 3.9 62045 12.35 62362 7.10 62877 58890 12.6 59365 12.35 60007 3.9 62050 12.35 62370 12.35 62880 58920 12.24 59370 12.25 60037 12.21 62060 12.35 62380 12.35 6280 58960 12.24 59395 12.29 60042 12.21 62065 12.35 62385 12.35 62880	12.27
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63040	12.11	63200	12.35	64802	12.41	65730	4.6	66310	4.7	66800	4.30
63040	12.13	63205	12.31	64807	12.41	65765	4.6	66315	4.7	66805	4.30
63040	12.15	63210	12.31	64812	12.41	65770	4.6	66320	4.7	66807	1.8
63040	12.25	63220		64817	12.41	65775	4.6	66325	4.7	66810	4.30
63045		63240		64822	12.41	65780		66330		66830	
63045	12.11	63280	12.25	64827	12.41	65785	4.6	66335	4.7	66880	4.30
63045	12.13	63297	3.6	64832	12.41	65790	4.6	66340	4.7	66905	4.30

69810. 4.30 67925 4.31 69737 11.5 71687 3.10 74207 3.5 76822 5.5 69820 4.30 67935 4.31 69752 11.5 71702 12.10 74272 3.3 76827 5.5 69820 4.3 67945 4.31 69757 11.5 71702 12.10 74685 3.3 76827 5.3 68886 4.31 69757 11.5 71702 12.10 74685 3.3 76827 5.4 69887 7.2 68805 7.2 68805 7.2 72 71702 12.10 74700 3.3 76827 5.5 68892 7.2 88807 7.2 88807 7.2 88807 7.2 88807 7.2 72 71702 12.10 74700 3.3 76827 5.5 68807 7.2 72 88807 7.2 88807 7.2 72 71702 12.10 74700 3.3 76827 5.5 68807 7.2 72 71702 12.10 74700 3.3 76827 5.5 68807 7.2 72 71702 12.10 74700 3.3 76827 5.5 68807 7.2 72 71702 71.11 74730 3.3 16 76827 5.5 68807 7.2 72 71702 71.11 74730 3.3 16 76827 5.5 67102 4.2 68807 7.2 72 71705 7.2 71700 4.5 8807 7.2 71705 7.2 71700 4.5 88087 7.2 71705 7.2 71700 4.5 80807 7.2 71705 7.2 71700 4.5 80808 7.2 71700 7.2 71700 4.5 80808 7.2 71700 7.2 71700 4.5 80808 6.5 67170 7.2 71700 4.5 80808 6.5 67180 7.2 81807 7.2 71700 7.2 71700 4.5 80808 6.5 67180 7.2 81807 7.2 71700 7.2 71700 4.5 80806 6.5 67277 11.5 88100 4.26 88897 7.2 72 77700 7.2 7170 4.5 80806 6.5 67270 11.5 88100 4.26 88897 7.2 77809 7.2 71700 7.2 71700 4.5 80806 6.5 67370 11.5 88100 4.26 88897 7.2 77809 7.3 748 748 748 748 80601 6.5 67370 11.5 88100 4.26 88897 7.2 77809 7.3 748 748 748 80601 6.5 67370 11.5 88100 4.26 88897 7.2 78897 3.3 748 88808 6.5 67370 11.7 88107 4.2 88808 7.7 78897 3.3 748 88808 6.5 67370 11.7 88107 4.2 88808 7.7 78897 3.3 748 88808 6.5 67370 11.7 88107 4.2 88808 7.7 78897 3.3 748 88808 6.5 67370 11.7 88107 4.2 88808 7.7 78897 3.3 748 88808 6.5 67370 11.7 88107 4.2 88808 7.7 78897 3.3 748 88808 6.5 67370 11.7 88107 4.2 88808 7.7 78897 3.3 748 88808 6.5 65 77890 3.3 748 88808 6.5 67370 3.3 748 88808 6.5 65 77890 3.3 748 88808 6.5 65 77890 3.3 748 88808 6.5 65 77890 3.3 748 88808 6.5 65 77890 3.3 748 88808 6.5 65 77890 3.3 748 88808 6.5 65 77890 3.3 748 88808 6.5 65 77890 3.3 748 88808 6.5 65 77890 3.3 748 88808 6.5 65 77890 3.3 748 88808 6.5 65 77890 3.3 748 88808 6.5 65 77890 3.3 748 88808 6.5 65 77890 3.3 748 88808 6.5 65 77890 3.3 748 88808 6.5 65 778	Catalog No.	Page No.									
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67307	67247	11.5		6 6991	27.2	72862	3.10	75075	5.4	80510	6.5
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67660 4.32 68917 12.11 70685 4.7 73172 11.5 76657 10.8 82852 12.39 67662 4.24 68962 9.3 70690 4.7 73177 11.5 76662 10.2 82857 12.37 67662 5.5 68967 9.3 70695 4.7 73182 11.5 76662 10.8 82857 12.41 67665 4.32 68972 9.3 70700 4.7 73187 11.5 76667 10.2 83037 8.6 67675 4.32 69622 7.4 70705 4.7 73197 11.5 76667 10.8 83080 3.3 67805 4.32 69632 7.4 70710 4.7 73197 11.5 76672 10.2 83085 3.3 67807 4.22 69642 7.4 70715 4.7 73360 7.8 76672 10.8 83140 3.6 67812	67655	4.32				73142	11.7	76652	10.8	82847	12.41
67662 4.24 68962 9.3 70690 4.7 73177 11.5 76662 10.2 82857 12.37 67662 5.5 68967 9.3 70695 4.7 73182 11.5 76662 10.8 82857 12.41 67665 4.32 68972 9.3 70700 4.7 73187 11.5 76667 10.2 83037 8.6 67675 4.32 69622 7.4 70705 4.7 73197 11.5 76667 10.8 83080 3.3 67807 4.22 69632 7.4 70710 4.7 73197 11.5 76672 10.2 83085 3.3 67807 4.22 69642 7.4 70715 4.7 73360 7.8 76672 10.8 83140 3.6 67812 4.22 69667 5.5 70725 4.7 73370 7.8 76677 10.2 83145 3.3 67822 <	67657	4.24	6891712.	9 7066	29.2	73172	11.3	76657	10.2	82852	12.37
67662 5.5 68967 9.3 70695 4.7 73182 11.5 76662 10.8 82857 12.41 67665 4.32 68972 9.3 70700 4.7 73187 11.5 76667 10.2 83037 8.6 67675 4.32 69622 7.4 70705 4.7 73192 11.5 76667 10.8 83080 3.3 67685 4.32 69632 7.4 70710 4.7 73197 11.5 76672 10.2 83085 3.3 67807 4.22 69642 7.4 70715 4.7 73360 7.8 76672 10.8 83140 3.6 67812 4.22 69667 5.5 70720 4.7 73365 7.8 76677 10.2 83145 3.3 67817 4.22 69692 5.5 70725 4.7 73370 7.8 76677 10.8 83165 3.3 6782 4	67660	4.32	6891712.1	1 7068	54.7	73172	11.5	76657	10.8	82852	12.39
67665. 4.32 68972. 9.3 70700 4.7 73187. 11.5 76667. 10.2 83037. 8.6 67675. 4.32 69622. 7.4 70705. 4.7 73192. 11.5 76667. 10.8 83080. 3.3 67685. 4.32 69632. 7.4 70710. 4.7 73197. 11.5 76672. 10.2 83085. 3.3 67807. 4.22 69642. 7.4 70715. 4.7 73360. 7.8 76672. 10.8 83140. 3.6 67812. 4.22 69667. 5.5 70720. 4.7 73365. 7.8 76677. 10.2 83145. 3.3 67817. 4.22 69692. 5.5 70725. 4.7 73370. 7.8 76677. 10.8 83150. 3.3 6782. 4.22 69697. 11.3 70740. 4.30 73842. 3.16 76777. 6.2 83170. 3.3	67662	4.24	689629.	3 7069	D4.7	73177	11.5	76662	10.2	82857	12.37
67675 4.32 69622 7.4 70705 4.7 73192 11.5 76667 10.8 83080 3.3 67685 4.32 69632 7.4 70710 4.7 73197 11.5 76672 10.2 83085 3.3 67807 4.22 69642 7.4 70715 4.7 73360 7.8 76672 10.2 83145 3.3 67812 4.22 69667 5.5 70720 4.7 73365 7.8 76677 10.2 83145 3.3 67817 4.22 69692 5.5 70725 4.7 73370 7.8 76677 10.8 83150 3.3 67822 4.22 69697 11.3 70730 4.7 73447 4.24 76767 4.12 83165 3.3 67872 4.22 69697 11.5 70740 4.30 73842 3.16 76777 6.2 83170 3.3 67880 <td< td=""><td>67662</td><td>5.5</td><td>689679.</td><td>3 7069</td><td>54.7</td><td>73182</td><td>11.5</td><td>76662</td><td>10.8</td><td>82857</td><td>12.41</td></td<>	67662	5.5	689679.	3 7069	54.7	73182	11.5	76662	10.8	82857	12.41
67685 4.32 69632 7.4 70710 4.7 73197 11.5 76672 10.2 83085 3.3 67807 4.22 69642 7.4 70715 4.7 73360 7.8 76672 10.8 83140 3.6 67812 4.22 69667 5.5 70720 4.7 73365 7.8 76677 10.2 83145 3.3 67817 4.22 69692 5.5 70725 4.7 73370 7.8 76677 10.8 83150 3.3 67822 4.22 69697 11.3 70730 4.7 73447 4.24 76677 10.8 83150 3.3 67872 4.22 69697 11.5 70740 4.30 73842 3.16 76777 6.2 83170 3.3 67880 4.31 69702 11.5 70745 4.30 73842 3.17 76792 6.2 83240 3.16 67890 <	67665	4.32	689729.	3 7070	D4.7	73187	11.5	76667	10.2	83037	8.6
67807 4.22 69642 7.4 70715 4.7 73360 7.8 76672 10.8 83140 3.6 67812 4.22 69667 5.5 70720 4.7 73365 7.8 76677 10.2 83145 3.3 67817 4.22 69692 5.5 70725 4.7 73370 7.8 76677 10.8 83150 3.3 67822 4.22 69697 11.3 70730 4.7 73447 4.24 76767 4.12 83165 3.3 67872 4.22 69697 11.5 70740 4.30 73842 3.16 76777 6.2 83170 3.3 67880 4.31 69702 11.3 70745 4.30 73847 3.16 76787 6.2 83235 3.16 67890 4.31 69702 11.5 70750 4.30 73852 3.17 76792 6.2 83240 3.16 67900	67675	4.32	696227.	4 7070	54.7	73192	11.5	76667	10.8	83080	3.3
67812 4.22 69667 5.5 70720 4.7 73365 7.8 76677 10.2 83145 3.3 67817 4.22 69692 5.5 70725 4.7 73370 7.8 76677 10.8 83150 3.3 67822 4.22 69697 11.3 70730 4.7 73447 4.24 76767 4.12 83165 3.3 67872 4.22 69697 11.5 70740 4.30 73842 3.16 76777 6.2 83170 3.3 67880 4.31 69702 11.3 70745 4.30 73847 3.16 76787 6.2 83235 3.16 67885 4.31 69702 11.5 70750 4.30 73852 3.17 76792 6.2 83240 3.16 67890 4.31 69707 9.3 70755 4.30 73857 3.17 76817 12.9 83290 3.16 67900	67685	4.32	696327.	4 7071	D4.7	73197	11.5	76672	10.2	83085	3.3
67812 4.22 69667 5.5 70720 4.7 73365 7.8 76677 10.2 83145 3.3 67817 4.22 69692 5.5 70725 4.7 73370 7.8 76677 10.8 83150 3.3 67822 4.22 69697 11.3 70730 4.7 73447 4.24 76767 4.12 83165 3.3 67872 4.22 69697 11.5 70740 4.30 73842 3.16 76777 6.2 83170 3.3 67880 4.31 69702 11.3 70745 4.30 73847 3.16 76787 6.2 83235 3.16 67885 4.31 69702 11.5 70750 4.30 73852 3.17 76792 6.2 83240 3.16 67890 4.31 69707 9.3 70755 4.30 73857 3.17 76817 12.9 83290 3.16 67900	67807	4.22	696427.	4 7071	54.7	73360	7.8	76672	10.8	83140	3.6
67822 4.22 69697 11.3 70730 4.7 73447 4.24 76767 4.12 83165 3.3 67872 4.22 69697 11.5 70740 4.30 73842 3.16 76777 6.2 83170 3.3 67880 4.31 69702 11.3 70745 4.30 73847 3.16 76787 6.2 83235 3.16 67885 4.31 69702 11.5 70750 4.30 73852 3.17 76792 6.2 83240 3.16 67890 4.31 69707 9.3 70755 4.30 73857 3.17 76817 12.9 83290 3.16 67900 4.31 69712 9.3 70760 4.30 73902 12.9 76817 12.11 83292 12.2 67905 4.31 69717 9.3 70830 4.12 73907 12.9 76822 5.3 83295 3.16 67910 <td></td> <td></td> <td>696675.</td> <td>5 7072</td> <td>D4.7</td> <td>73365</td> <td>7.8</td> <td>76677</td> <td>10.2</td> <td>83145</td> <td>3.3</td>			696675.	5 7072	D4.7	73365	7.8	76677	10.2	83145	3.3
67872 4.22 69697 11.5 70740 4.30 73842 3.16 76777 6.2 83170 3.3 67880 4.31 69702 11.3 70745 4.30 73847 3.16 76787 6.2 83235 3.16 67885 4.31 69702 11.5 70750 4.30 73852 3.17 76792 6.2 83240 3.16 67890 4.31 69707 9.3 70755 4.30 73857 3.17 76817 12.9 83290 3.16 67900 4.31 69712 9.3 70760 4.30 73902 12.9 76817 12.11 83292 12.22 67905 4.31 69717 9.3 70830 4.12 73907 12.9 76822 5.3 83295 3.16 67910 4.31 69722 11.5 70835 4.12 74007 4.12 76822 5.4 83350 7.13 67915 </td <td>67817</td> <td>4.22</td> <td>696925.</td> <td>5 7072</td> <td>54.7</td> <td>73370</td> <td>7.8</td> <td>76677</td> <td>10.8</td> <td>83150</td> <td>3.3</td>	67817	4.22	696925.	5 7072	54.7	73370	7.8	76677	10.8	83150	3.3
67880 .4.31 69702 .11.3 70745 .4.30 73847 .3.16 76787 .6.2 83235 .3.16 67885 .4.31 69702 .11.5 70750 .4.30 73852 .3.17 76792 .6.2 83240 .3.16 67890 .4.31 69707 .9.3 70755 .4.30 73857 .3.17 76817 .12.9 83290 .3.16 67900 .4.31 69712 .9.3 70760 .4.30 73902 .12.9 76817 .12.11 83292 .12.22 67905 .4.31 69717 .9.3 70830 .4.12 73907 .12.9 76822 .5.3 83295 .3.16 67910 .4.31 69722 .11.5 70835 .4.12 74007 .4.12 76822 .5.4 83350 .7.13 67915 .4.31 69727 .11.5 71687 .3.10 74012 .4.12 76822 .5.5 83380 .2.5 </td <td>67822</td> <td>4.22</td> <td>6969711.</td> <td>3 7073</td> <td>D4.7</td> <td>73447</td> <td>4.24</td> <td>76767</td> <td>4.12</td> <td>83165</td> <td>3.3</td>	67822	4.22	6969711.	3 7073	D4.7	73447	4.24	76767	4.12	83165	3.3
67885 .4.31 69702 .11.5 70750 .4.30 73852 .3.17 76792 .6.2 83240 .3.16 67890 .4.31 69707 .9.3 70755 .4.30 73857 .3.17 76817 .12.9 83290 .3.16 67900 .4.31 69712 .9.3 70760 .4.30 73902 .12.9 76817 .12.11 83292 .12.22 67905 .4.31 69717 .9.3 70830 .4.12 73907 .12.9 76822 .5.3 83295 .3.16 67910 .4.31 69722 .11.5 70835 .4.12 74007 .4.12 76822 .5.4 83350 .7.13 67915 .4.31 69727 .11.5 71687 .3.10 74012 .4.12 76822 .5.5 83380 .2.5	67872	4.22	6969711.	5 7074	D4.30	73842	3.16	76777	6.2	83170	3.3
67890 4.31 69707 9.3 70755 4.30 73857 3.17 76817 12.9 83290 3.16 67900 4.31 69712 9.3 70760 4.30 73902 12.9 76817 12.11 83292 12.22 67905 4.31 69717 9.3 70830 4.12 73907 12.9 76822 5.3 83295 3.16 67910 4.31 69722 11.5 70835 4.12 74007 4.12 76822 5.4 83350 7.13 67915 4.31 69727 11.5 71687 3.10 74012 4.12 76822 5.5 83380 2.5	67880	4.31	6970211.	3 7074	54.30	73847	3.16	76787	6.2	83235	3.16
67900 .4.31 69712 .9.3 70760 .4.30 73902 .12.9 76817 .12.11 83292 .12.22 67905 .4.31 69717 .9.3 70830 .4.12 73907 .12.9 76822 .5.3 83295 .3.16 67910 .4.31 69722 .11.5 70835 .4.12 74007 .4.12 76822 .5.4 83350 .7.13 67915 .4.31 69727 .11.5 71687 .3.10 74012 .4.12 76822 .5.5 83380 .2.5	67885	4.31	6970211.	5 7075	D4.30	73852	3.17	76792	6.2	83240	3.16
67900 .4.31 69712 .9.3 70760 .4.30 73902 .12.9 76817 .12.11 83292 .12.22 67905 .4.31 69717 .9.3 70830 .4.12 73907 .12.9 76822 .5.3 83295 .3.16 67910 .4.31 69722 .11.5 70835 .4.12 74007 .4.12 76822 .5.4 83350 .7.13 67915 .4.31 69727 .11.5 71687 .3.10 74012 .4.12 76822 .5.5 83380 .2.5	67890	4.31	697079.	3 7075	54.30	73857	3.17	76817	12.9	83290	3.16
67905 4.31 69717 9.3 70830 4.12 73907 12.9 76822 5.3 83295 3.16 67910 4.31 69722 11.5 70835 4.12 74007 4.12 76822 5.4 83350 7.13 67915 4.31 69727 11.5 71687 3.10 74012 4.12 76822 5.5 83380 2.5						1				l	
67910 4.31 69722 11.5 70835 4.12 74007 4.12 76822 5.4 83350 7.13 67915 4.31 69727 11.5 71687 3.10 74012 4.12 76822 5.5 83380 2.5				3 7083	D 4.12			76822	5.3	83295	3.16
679154.31 6972711.5 716873.10 740124.12 768225.5 833802.5										l	
	67915	4.31	6972711.	5 7168	73.10	74012	4.12	1		83380	2.5
	67920	4.31	6973211.	5 7169	23.10	74047	4.12	76822	5.6	83407	11.5

Catalog No.	Page No.										
83407			4.7		1.5	92467		92540		93257	
83407		85850			1.5	92467		92545		93257	
83417		85855			1.5	92467		92545		93257	
83417			4.32		1.5	92467		92545		93262	
83417			4.32		12.45	92470		92550		93267	
83417			12.44		12.45	92470		92550		93272	
83435	4.5		12.44		11.5	92470		92550		93277	
83450			12.44		11.5	92475		92555		93287	
83455	4.5		12.45		11.5	92475		92555		93387	
83460		1	12.45		11.5	92480		92555		93392	
83465	4.5		12.46		11.5	92480		92560		93392	
83470		85987	12.45		11.5	92485	12.17	92560	12.21	93492	
83475			12.44		11.5	92485		92585		93492	
83480	4.5	1	3.13		11.5	92485	12.21	92590	4.6	93497	5.3
83485		86127	3.16		12.32	92485	12.23	92595	4.6	93502	
83540		86902	1.7		12.32	92490		92600	4.6	93507	11.6
83557		86902	7.9		12.13	92490		92605		93557	12.16
83587	13.4	86907	1.7	91037	12.15	92490	12.21	92607	12.13	93567	11.6
83582	13.4	86907	7.9	91042	12.13	92495	12.17	92610	4.6	93572	11.6
83652	11.5	86912	1.7	91042	12.15	92495	12.19	92660	1.6	93577	11.6
83657	11.5	86912	7.9	91042	12.22	92495	12.21	92665	1.6	93667	10.2
83862	13.4	86917	1.7	91047	12.17	92495	12.23	92670	1.6	93667	10.9
84097	4.19	86922	1.7	91047	12.23	92500	12.17	92675	1.6	93667	10.9
84112	11.5	86927	1.7	91125	3.16	92500	12.19	92680	1.6	93677	10.2
84112	11.7	86932	1.7	91142	4.19	92500	12.21	92682	12.13	93682	10.2
84282	4.11	87577	12.13	91322	4.19	92505	12.17	92685	1.6	93682	10.9
84287	4.11	87577	12.15	92082	4.13	92505	12.19	92687	12.13	93687	10.2
84292	4.11	87582	12.13	92095	12.25	92505	12.21	92687	12.15	93687	10.9
84295	12.34	87582	12.15	92100	12.25	92510	12.17	92690	4.5	93692	10.9
84315	12.29	87587	12.13	92170	3.17	92510	12.19	92695	4.5	93692	10.9
84325		87587	12.15	92437	5.3	92510	12.21	92700		93707	3.12
84332			12.13		5.3	92510	12.23	92705	4.5	93712	3.12
84337	4.11	87592	12.15	92447	5.3	92515	12.17	92707	11.6	93717	3.12
84417	9.2	87592	12.22	92452		92515		92710	4.5	93722	
84427		87597	12.13	92457	4.19	92515	12.21	92712	11.3	93727	3.12
84427	6.3	87602	12.23		4.21	92520		92712		93732	3.12
84472	9.3	88232	5.3	92457	4.24	92520	12.19	92712	11.6	93737	3.12
84517	12.22	88260		92457	4.26	92520		92715		93742	3.12
84532		88392	11.5	92457	4.28	92520	12.23	92805	12.19	93747	
84532		88392			12.17	92525		92805		93785	
84532			7.15		12.19	92525		92810		93790	7.6
84532			12.9		12.21	92525		92810	12.21	93907	
84532		89400			4.19	92525		92850		93912	
84532			12.25		4.21	92530		92850		93917	
84537			12.9		4.24	92530		92880		93922	
84537		89405			4.26	92530		92880		93927	
84537			12.25		4.28	92535		92885		94220	
84537			12.9		12.17	92535		92885		94682	
84537		1	1.3		12.17	92535		92890		94687	
84537			1.3		12.13	92540		92890		95527	
85830			1.3		4.19	92540		93252		95532	
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Catalog No.	Page No.						
95532	11.6	96720	4.8	97787		98150	6.6
95537	11.6	96720	4.8	97800	12.27	98155	6.6
95542	11.6	96725	4.10	97800	12.29	98170	6.7
95547	11.6	96877	13.2	97822	4.10	98175	6.7
95552	11.3	96887	13.2	97832	11.5	98180	6.7
95552	11.6	96897	13.2	97852	11.5	98185	6.7
95557	11.6	96967	11.10	97882	4.19	98190	6.7
95562	11.6	96982	5.8	97915	12.27	98195	6.7
95567	11.6	96987	5.8	97915		98200	6.7
95572	3.19	96992	5.8	97920	12.27	98205	6.7
95572	11.6	96997	5.8	97920	12.29	98210	6.7
95577	11.6	97045	4.19	97925	12.27	98215	6.7
95582	11.6	97045		97925		98220	
95587	_	97045	_	97930		98225	
95592		97045		97930		98230	
95722		97045		97935		98235	
95722		97050		97935		98240	
95727		97050		97940	-	98250	
95727		97050		97940		98255	• • • • • • • • • • • • • • • • • • • •
95732		97050		97985		98260	
95737		97065		97985		98265	
95747		97065		98005		98270	
95752		97065	_	98005		98275	
95752		97065		98010		98280	
95762		97065		98010		98290	
95772 95782		97070 97070	_	98030 98035	-	98295 98690	
			_				
95792		97070		98040		98700	
95797		97075		98045		98705	
95802		97075		98050		98695	
95807		97075		98050	-	98710	
95812		97075		98055		98715	
95822		97075		98055		98720	b./
95847		97080	_	98060			
95877		97080		98060			
95872		97080		98070			
95882		97212		98070			
95887		97212		98072	-		
95892		97345		98072			
96032		97350		98095			
96037	12.9	97365		98090	6.6		
96037		97365	4.21	98100	6.6		
96037	12.25	97375		98105	6.6		
96372		97415		98110	6.6		
96372		97420		98120			
96397		97452	-	98125	6.6		
96497	4.21	97457		98130	6.6		
96502		97462		98140	6.6		
96507	4.21	97462	11.7	98145	6.6		
96512		97597		98165	6.6		
96517	4.21	97787	3.13	99545	4.31		

TERMS AND CONDITIONS OF SALE

Ridge Tool Company is herein referred to as "Ridge" and the customer or person or entity purchasing goods or services (hereinafter collectively referred to as "Goods") is referred to as the "Buyer". These Terms and Conditions, any price list or schedule, quotation, acknowledgment or invoice from Ridge relevant to the sale of the Goods and all documents incorporated by specific reference therein, constitute the complete and exclusive statement of the terms of the agreement governing the sale of Goods by Ridge to Buyer. Buyer's acceptance of the Goods will manifest Buyer's assent to these terms and conditions without variation or addition. Any different or additional terms in Buyer's purchase order or other Buyer documents are hereby objected to. Ridge reserves the right in its sole discretion to refuse orders.

- 1. PRICES: Unless a fixed price is quoted, the price at which this order is accepted is subject to adjustment to Ridge's price in effect at the time of order.
- 2. TERMS OF PAYMENT: Terms are stated on Ridge's invoice in U.S. currency. Ridge shall have the right, among other remedies, either to terminate this agreement or to suspend further performance under this and/or other agreements with the Buyer in the event Buyer fails to make any payment when due, which other agreements Buyer and Seller hereby amend accordingly, or Ridge otherwise deems itself insecure. Buyer shall be liable for all expenses, including attorneys' fees, relating to the collection of past due amounts. Should Buyer's financial responsibility become unsatisfactory to Ridge, cash payments or security satisfactory to Ridge may be required by Ridge for future deliveries and for the goods theretofore delivered. If such cash payment or security is not provided, in addition to Ridge's other rights and remedies, Ridge may discontinue deliveries.
- 3. SHIPMENT AND DELIVERY: Unless otherwise expressly provided, shipments are made F.O.B. Ridge's shipping point. Risk of loss or damage and responsibility shall pass from Ridge to Buyer upon delivery to and receipt by common carrier. Any claims for shortages or damages suffered in transit are the responsibility of Buyer and shall be submitted by the Buyer directly to the carrier. Shortages or damages must be acknowledged and signed for at the time of delivery. While Ridge will use all reasonable commercial efforts to maintain the delivery date(s) acknowledged or quoted by Ridge, all shipping dates are approximate and not guaranteed. Ridge reserves the right to make partial shipments. Ridge, at its option, shall not be bound to tender delivery of any Goods for which Buyer has not provided shipping instructions. If the shipment of the Goods is postponed or delayed by Buyer for any reason, Buyer agrees to reimburse Ridge for any and all handling and storage costs and other additional expenses resulting therefrom. All claims for shipping errors, lost shipments or any other discrepancies must be made within ninety (90) days or they will be disallowed and deemed waived.
- 4. Ridge WARRANTY: Ridge covers its products with a LIFETIME WARRANTY against defects in material or workmanship for the life of the tool. Pipe or drain cleaning tools, rods and cable, are not covered by this warranty and are considered expendable material. To take advantage of this warranty, the complete product must be delivered prepaid to RIDGE TOOL COMPANY or any RIDGE AUTHORIZED SERVICE CENTER. Pipe wrenches and other hand tools should be returned to place of purchase. Obviously, failures due to misuse, abuse, or normal wear and tear are not covered by this warranty. NO OTHER WARRANTY, WRITTEN OR ORAL, APPLIES. No employee, agent, dealer, or other person is authorized to give any warranty on behalf of Ridge.

Warranted products will be repaired or replaced at our option at no charge and returned via prepaid transportation. Such replacement or repair is the exclusive remedy available from Ridge. Ridge is not liable for damage of any sort, including without limitation incidental and consequential damages.

This warranty shall not apply to any Goods which:

- a. Have been repaired or altered outside Ridge's factory (or Authorized Service Center) or in any manner so as, in Ridge's judgment, to affect its serviceability or proper operation.
- b. Have been subjected by persons other than Ridge (or Authorized Service Center) to improper handling, operation, maintenance, repair or alteration.
- c. Have been subjected to misuse, negligence, improper installation or accident. Ridge's obligation under this warranty, and the Buyer's exclusive remedy for the breach thereof, shall be limited to, at Ridge's option, repair or replacement of any allegedly defective Goods or issuance of credit. Ridge requires the return of any allegedly defective Goods, transportation prepaid, before honoring any claim. All returned Goods are subject to inspection, and if examination does not disclose any defect covered by this warranty, replacement of such Goods or issuance of credit for same will not be approved.

THE FOREGOING CONSTITUTES RIDGE'S SOLE WARRANTY RESPONSIBILITY AND BUYER'S EXCLUSIVE REMEDY WHETHER SOUNDING IN TORT, CONTRACT, STRICT LIABILITY OR OTHERWISE, EXCEPT AS OTHERWISE EXPRESSLY SET FORTH IN THIS AGREEMENT. THERE ARE NO OTHER WARRANTIES, EXPRESS OR IMPLIED, WHETHER OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR OTHERWISE. RIDGE SHALL NOT BE LIABLE FOR ANY SPECIAL, INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES OF ANY CHARACTER IN CONNECTION WITH THE SALE, RESALE OR USE OF THE GOODS.

This warranty extends only to persons or organizations who purchase the Goods from Ridge for resale.

5. LIMITATION OF REMEDY AND LIABILITY: THE SOLE AND EXCLUSIVE REMEDY FOR BREACH OF ANY WARRANTY HEREUNDER SHALL BE LIMITED TO REPAIR, CORRECTION, REPLACEMENT OR CREDIT UNDER SECTION 4.

RIDGE SHALL NOT BE LIABLE FOR DAMAGES CAUSED BY DELAY IN PERFORMANCE, AND IN NO EVENT, REGARDLESS OF THE FORM OF THE CLAIM OR CAUSE OF ACTION (WHETHER BASED IN CONTRACT, INFRINGE-MENT, NEGLIGENCE, STRICT LIABILITY, OTHER TORT OR OTHERWISE), SHALL RIDGE'S LIABILITY TO BUYER AND/OR ITS CUSTOMERS EXCEED THE PRICE PAID BY BUYER FOR THE SPECIFIC GOODS GIVING RISE TO THE CLAIM OR CAUSE OF ACTION, AND BUYER SHALL INDEMNIFY RIDGE FOR ANY DAMAGES IN EXCESS THEREOF. BUYER AGREES THAT IN NO EVENT SHALL RIDGE'S LIABILITY TO BUYER AND/OR ITS CUSTOMERS INCLUDE INCIDENTAL, CONSEQUENTIAL OR PUNITIVE DAMAGES, WHICH ARE WAIVED BY BUYER AND AS TO WHICH BUYER SHALL INDEMNIFY RIDGE. The term "consequential damages" shall include, but not be limited to, loss of anticipated profits, business interruption, loss of use of revenue, cost of capital or loss of or damage to property or equipment, or loss of reputation. Further, Buyer shall indemnify and hold Ridge harmless from any liability to Buyer, Buyer's employees, workers, contractors or any other persons arising out of Buyer's, or any other persons' use of the Goods. All instructions and

warnings supplied by Ridge will be passed on to those persons who use the Goods. Ridge's Goods are to be used in their recommended applications and all warning labels adhered to the Goods by Ridge shall be left intact.

6. EXCUSE OF PERFORMANCE (FORCE MAJEURE): Ridge shall not be liable for delays in performance or for non-performance due to acts of God; acts of Buyer; war; fire; flood; weather; sabotage; strikes, labor disputes, civil disturbances or riots; governmental requests, restrictions, allocations, laws, regulations, orders or actions; unavailability of or delays in transportation; default of suppliers; or unforeseen circumstances or events beyond Ridge's reasonable control. Deliveries or other performance may be suspended for an appropriate period of time or cancelled by Ridge upon notice to Buyer in the event of any of the foregoing, but the balance of this agreement shall otherwise remain unaffected.

If Ridge determines that its ability to supply the total demand for the Goods, or to obtain material used directly or indirectly in the manufacture of the Goods, is hindered, limited or made impracticable due to causes set forth herein, Ridge may allocate its available supply of the Goods or such material (without obligation to acquire other supplies of any such Goods or materials) among itself and its purchasers on such basis as Ridge determines to be equitable without liability for any failure of performance which may result therefrom.

- 7. CHANGES: Ridge reserves the right to change designs and specifications for standard Goods without prior notice to Buyer, but not with respect to custom Goods being made for Buyer. Ridge shall have no obligation to install or make such change in any Goods manufactured prior to the date of such change.
- 8. ASSIGNMENT: Buyer shall not assign its rights or delegate its duties hereunder or any interest herein without the prior written consent of Ridge, and any such assignment, without such consent, shall be void.
- INSTALLATION: Buyer shall be responsible for receiving, inspecting, testing, storing, installing, starting up and maintaining all Goods.
- 10. INSPECTION/TESTING: Buyer, at its expense, agrees that it will promptly inspect the Goods upon receipt thereof, and in no event later than thirty (30) days from the date of receipt of the Goods. Buyer shall deliver to Ridge within fifteen (15) days of inspection, but in no event later than forty-five (45) days from the date of receipt of the Goods, written notice of any and all deficiencies, defects, variations from specifications or complaints of any kind with respect to the quantity, quality, condition, shipment, performance, price or appearance of the Goods so received by Buyer. In the event no such written notice is received by Ridge, Buyer shall be deemed conclusively to have inspected and accepted all such Goods unconditionally and to have waived any and all rights and claims, including without limitation any right to reject the Goods or to claim damages in respect thereof. Buyer may not return Goods without first advising Ridge of the reasons therefore, obtaining from Ridge a material authorization number and observing such instructions as Ridge may give in authorizing such return.
- 11. SERVICES: If this agreement requires Ridge to perform or provide any services, Ridge (including without limitation its successors, assigns, agents or any person or entity acting at Ridge's direction) shall not be responsible for any damages, claims, liabilities or expenses of any nature arising out of such services.

- 12. U.S. EXPORT CONTROL LAWS: All Goods sold to Buyer by Ridge hereunder are subject to U.S. Export Control Laws. Buyer hereby agrees not to re-sell or divert any goods contrary to such laws.
- 13. SELLER/CONTRACTOR shall comply with all applicable federal, state or local laws, rules, regulations, or orders. Seller/Contractor shall comply with Executive Order 11246, as amended by the Executive Order 11375, and the applicable provisions of the Office of Federal Contract Compliance Programs (OFCCP), 41 CFR Part 60, which are incorporated herein by this reference.
- 14. MISCELLANEOUS: These terms and conditions supersede all other communications, negotiations and prior oral or written statements regarding the subject matter hereof. No change, modification, rescission, discharge, abandonment, or waiver of these terms and conditions shall be binding upon Ridge unless made in writing and signed on its behalf by its duly authorized representative. No conditions, usage or trade, course of dealing or performance, understanding or agreement purporting to modify, vary, explain, or supplement these terms and conditions shall be binding unless hereafter made in writing and signed by Seller. No modification shall be effected by Ridge's receipt or acceptance of Buyer's purchase orders, shipping instruction forms, or other documentation containing terms at variance with or in addition to those set forth herein, all of which are objected to by Ridge. No waiver by Ridge with respect to any breach or default of any right or remedy and no course of dealing, shall be deemed to constitute a continuing waiver of any other breach or default of any other right or remedy, unless such waiver be expressed in writing and signed by Ridge. All typographical or clerical errors made by Ridge in any quotation, acknowledgment or publication are subject to correction.

The validity, performance, and all other matters relating to the interpretation and effect of this agreement shall be governed by the laws of the state of Ohio without regard to its conflict of law principles. Buyer and Ridge agree that the proper venue for all actions arising in connection herewith shall be only in Ohio and the parties agree to submit to such jurisdiction. No action, regardless of form, arising out of transactions relating to this contract, may be brought by either party more than two (2) years after the cause of action has accrued. Further, the United Nations Convention on the International Sale of Goods (1980) (as amended from time to time) shall not apply to this Purchase Order or any transactions relating thereto.



We Build Reputations™



