



TD189

Rev. A

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HYDRAULIC CABLE CUTTER

HCCP3000



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1. SAFETY REQUIREMENTS

GENERAL CONSIDERATIONS

The SIMPLEX hydraulic cutters have been designed in accordance with our quality standards and ISO 9001 rules.



The cutter must be used in accordance with the relevant instructions described in the manual. The user must be aware of the inherent risks when handling high pressure hydraulic devices and ensure that a safe working environment and safe systems of work are in place before operating the equipment.

The tool is designed only for the operations described in this manual. The manufacturer is not responsible for any damage caused by incorrect operation of the tool.

SAFETY PRINCIPLES

1. This manual must be always available to the operator and all safety and operational instructions must be followed.
2. The operator should be trained in the tool's operation and the corresponding safety rules regarding prevention of accidents and protection of the environment.
3. The operator must wear personal protective equipment like helmet, glasses, gloves, boots, protective clothing, etc.



Helmet



Glasses



Gloves



Boots



Protective Clothing

4. All personnel must keep fingers, hands and other body parts away from the cutter blade to prevent serious personal injury.
5. Do not modify the tool in any way.
6. Follow suggested maintenance operations periodically as recommended in this manual.
7. All repairs should be performed by a qualified technician with genuine SIMPLEX parts. For further information, contact your nearest SIMPLEX authorized service center.
8. After operation, the tool should be cleaned and stored in a safe and clean place.

GENERAL SAFETY INSTRUCTIONS

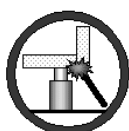


Before use, visually inspect the tool and accessories for any damage. If any damage is found, do not use the tool until repaired. Ensure that all the components of the hydraulic system can support the maximum pressure.

Before operation, make sure the operator is on solid footing in a well-lit area.



Manufacturer's rating is the maximum allowable limit. Good practice encourages using only 80% of the manufacturer rating.



Keep the tool away from flames and heat, such as during welding.



- Before performing inspection or maintenance procedures, press the release button to relieve pressure and return the blade to the fully retracted position (Note: it is permissible to advance the blade to allow access to the blade retaining screw during blade replacement procedures).
- Do not exceed equipment ratings.
- After operation, clean the tool and store it in a clean, dry and secure location.
- When working with wire rope, fraying may occur during the cutting operation. To help prevent this, bind the wire rope on both sides of the cutting blade with tape or wire.

2. TECHNICAL DATA

MODEL	HCCP3000	
TOOL SPECIFICATIONS	Imperial	Metric
Capacity	7.9 Ton	70 kN
Pressure	10,150 psi	700 bar
Weight	14.5 lb	6.6 kg
Length†	25.6 in	650 mm
Width†	3.1 in	79 mm
Height†	7.8 in	198 mm
Max Jaw Opening†	3.0 in	77 mm
CUTTING CAPACITIES*		
Wire Rope		
Steel	Not recommended	
Aluminum	1.57 in	40 in
Cable		
Telephone	2.95 in	75 mm
Lead	2.95 in	75 mm
Underground	2.95 in	75 mm

† Due to rounding, dimensions listed in this chart may be slightly different than the dimensions shown on the diagrams in Section 6.

*Maximum Diameter material that can be cut.

3. OPERATION

1. Using the stationary handle, hold the tool in the upright position (cutting head facing up).
2. Move the blade forward by pumping the integrated pump handle. Continue pumping until the blade reaches the end of its stroke.
3. Press the release button and check that the blade returns to its initial position.
4. Remove the retaining pin (attached to chain) securing the cutting head. Open the cutting head.
5. Place the material to be cut inside the cutting head. Then, close the cutting head and secure it with the retaining pin. Make sure the retaining pin is fully installed.
6. Pump the integrated pump handle to advance the blade. Continue until the material is fully cut.
7. After cutting is completed, press the release button to move the blade back. Open the cutting head and remove all traces of material before making another cut.

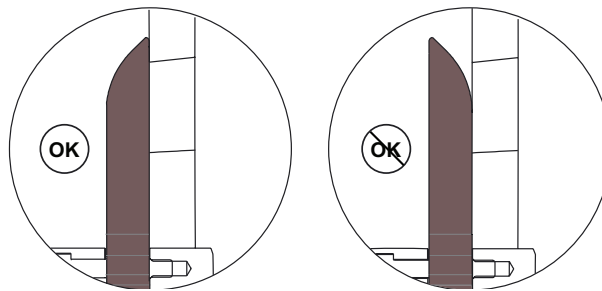
4. MAINTENANCE

1. After use, the tool should be cleaned. Lubricate the area where the blade comes into contact with the head.
2. Ensure all fasteners are securely fastened.
3. In the event of oil leaks or improper functioning, contact your nearest SIMPLEX authorized service center for inspection and repair.

CHANGING THE BLADE

Note: Refer to Section 6 of this manual for parts list and item numbers. To help prevent damage to the tool, always perform blade replacement procedures in a clean and dry work area.

Pump the handle until the blade moves out far enough to provide access to the blade retaining screw (17). Remove the screw (17) and remove the old blade. Mount a new blade and check that the orientation is correct (see diagram, below). Apply Loctite 242 thread sealant to threads of screw (17). Reinstall the screw (17) and tighten it to a torque of 531-620 in-lb [720-841 Nm]. Retract the blade after completing blade replacement procedures.



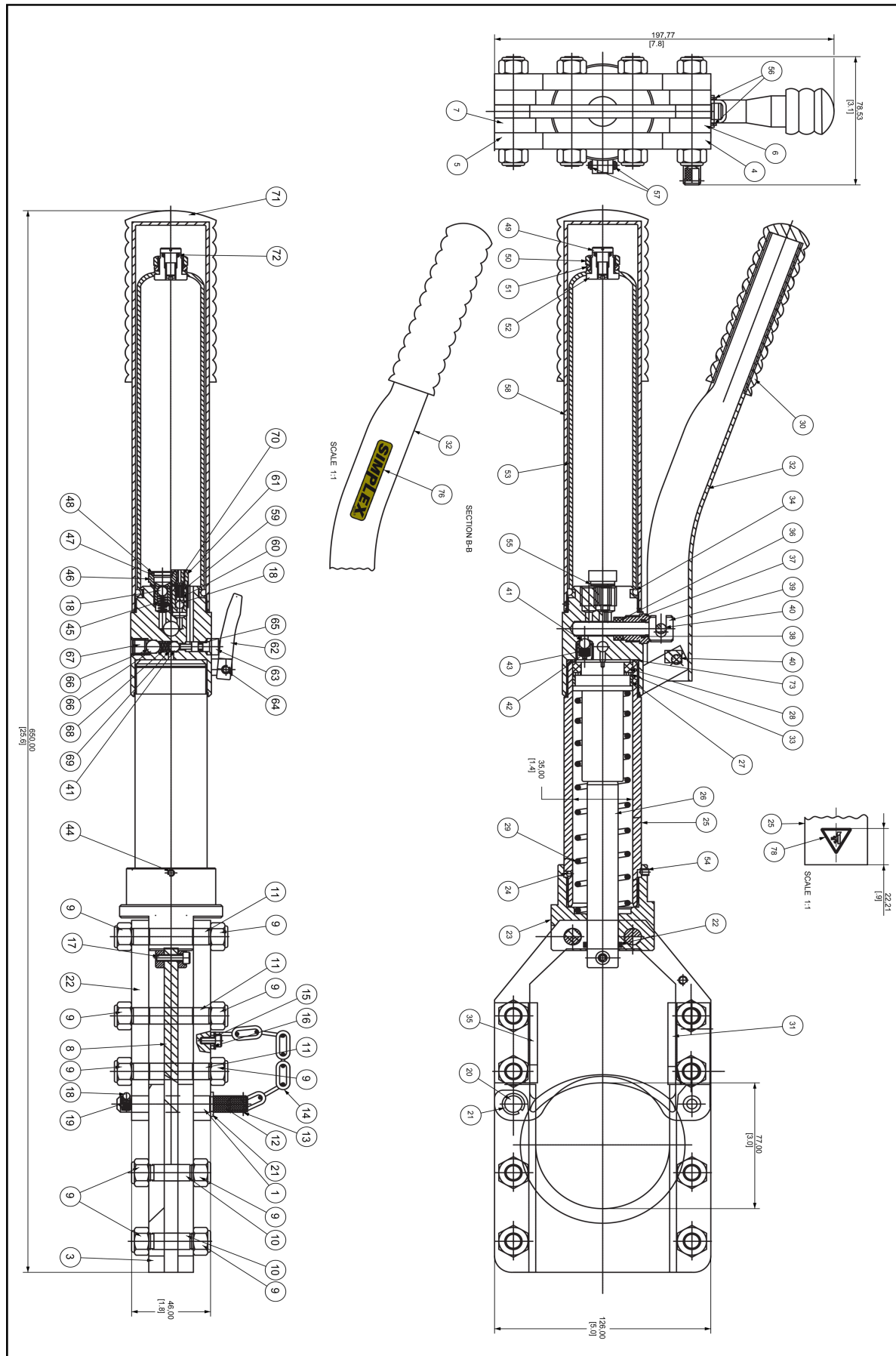
5. ADDITIONAL INFORMATION

All information, illustrations and specifications in this operation manual are based on the latest information available at the time of publication. The right is reserved to make changes at any time without notice.

Equipment operators and installers shall be responsible for ensuring that a safe working environment and safe systems of work are in place before operating the equipment.

Simplex declares that this product has been tested and conforms to applicable standards and complies with all CE requirements.

6. ASSEMBLY DIAGRAMS AND PARTS LISTS



ITEM NUMBER	DESCRIPTION	QTY
1	UPPER PLATE BASE	1
2	LOWER PLATE BASE	1
3	COUNTERBLADE	1
4	RIGHT GUIDE BASE	1
5	LEFT GUIDE BASE	1
6	RIGHT INTERMEDIATE GUIDE BASE	1
7	LEFT INTERMEDIATE GUIDE BASE	1
**8	BLADE	1
9	SELF LOCKING NUT M10 DIN-985	20
10	SADDLE SHAFT	4
11	SHAFT	6
12	RETAINING PIN	1
13	ELASTIC PIN DIN 1481 Ø2x10	1
14	11 LINK CHAIN Ø2 A=8 L=18	1
15	ALLEN SCREW M4 x 6 DIN 912 8.8	1
16	STANDARD WASHER FOR M4	1
17	ALLEN SCREW M4 x 15 DIN 912 12.9	1
18	BALL 4	3
19	SPRING	1
20	SADDLE PIN	1
21	ELASTIC RING FOR Ø10 DIN 471	3
*22	O-RING 17.2 x 2.62	1
23	SADDLE	1
24	BALL 3	1
25	PUMP TUBE	1
26	PISTON	1
27	COPPER COLLAR	1
*28	COLLAR 25 x 35 x 5.5	1
29	SPRING	1
30	HANDLE	1
31	LEFT BLADE GUIDE	1
32	LEVER	1
*33	SEGMENT	1
*34	O-RING 29.74 x 3.53	1
35	RIGHT BLADE GUIDE	1
*36	COLLAR 8 x 14 x 7	1
37	INJECTOR GUIDE NUT	1
*38	O-RING 8.73 x 1.78	1
39	PISTON	1

* Included in service kit HCCP3000K.

** Included in blade kit HCCP3000B.

ITEM NUMBER	DESCRIPTION	QTY
40	PIN	2
*41	BALL 5.5	2
42	RETENTION VALVE SCREW	1
43	RETENTION SPRING	1
44	ALLEN STUD M4 x 5	2
45	INDRAFT SPRING	1
46	INDRAFT VALVE SCREW	1
47	BRASS NETTING FILTER	1
48	NETTING HOLDER COLLAR	1
49	OBITURATOR SCREW	1
50	NUT	1
51	TANK WASHER	1
52	TANK SCREW	1
53	TANK RUBBER	1
54	ALLEN STUD M4 x 5	1
*55	COPPER WASHER 14 x 10 x 1.5	1
56	SECURITY RING FOR Ø6 DIN 6799	4
57	SECURITY RING FOR Ø3.2 DIN 6799	2
58	TANK COVER TUBE	1
59	RESTRICTOR VALVE SPRING	1
60	BALL BUTTON	1
61	SECURITY VALVE BODY	1
62	BUTTON LEVER	1
63	UNLOADING BUTTON	1
64	BUTTON PIN	1
*65	O-RING 2.9 x 1.78	1
*66	BALL 7.5	1
67	ALLEN STUD M10 x 10	1
68	SPRING	1
69	STANDARD WASHER FOR M3	1
70	STUD M6 x 6	1
71	HANDLE	1
*72	O-RING 6.75 x 1.78	1
*73	O-RING 37.82 x 1.78	1
74	BODY	1
76	SIMPLEX DECAL #88187	2
78	SAFETY DECAL #DD2589226	1

* Included in service kit HCCP3000K.

** Included in blade kit HCCP3000B.

