

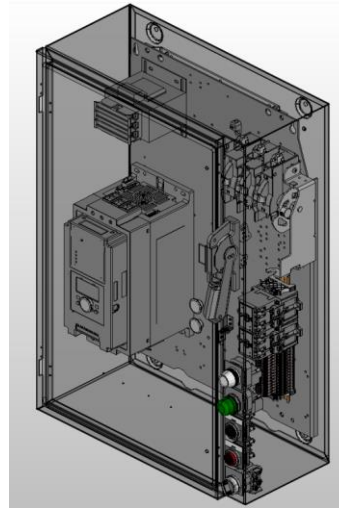


Werner Electric - Marine

Product Offering Introduction

*Unwavering commitment
to our customers, families,
communities and each other.*

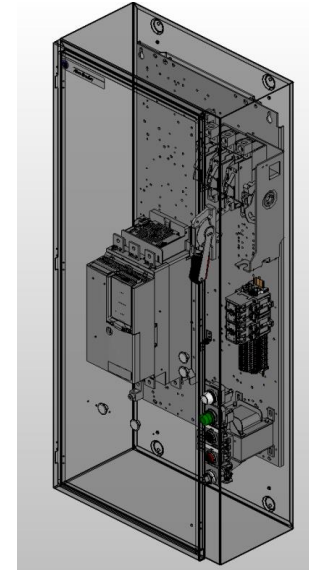
Automation – SMC Soft Starter



1-15HP 480V



SMC-FLEX 15HP DRAWINGS.pdf



20-100HP 480V

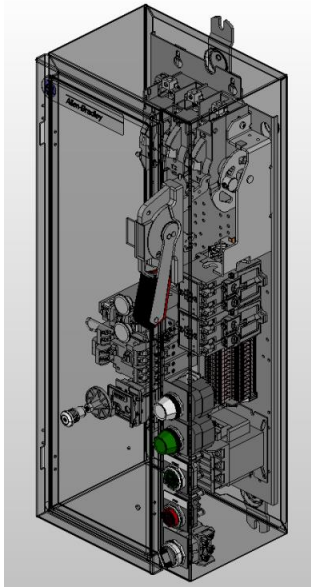


SMC-50 100HP Drawings.pdf

Rockwell
Automation

There are other sizes available that can be designed to spec.

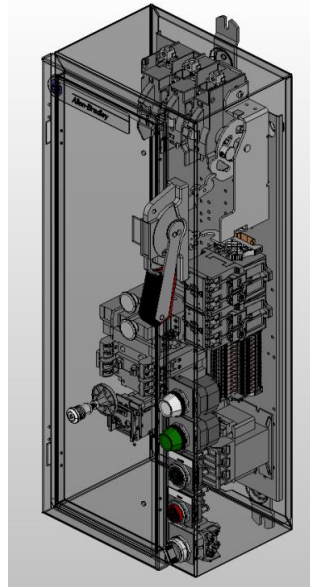
Automation – 512 Combination Starters



NEMA SZ1 – 1-10HP



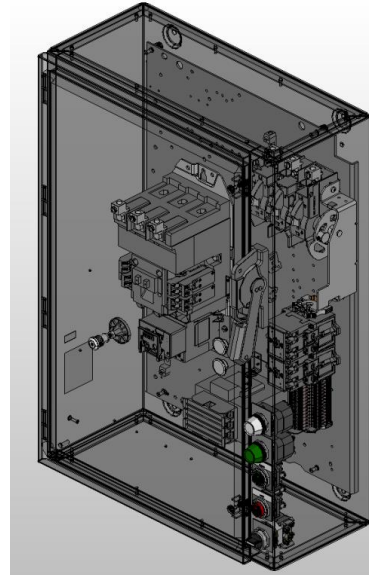
512, Sz1 Schematic & Layout.pdf



NEMA SZ2 – 15-25HP



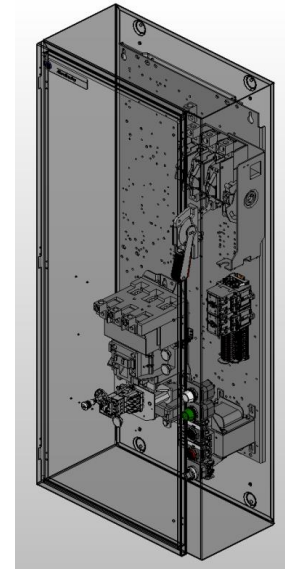
512, Sz 2 Schematic & Layout.pdf



NEMA SZ3 – 30-50HP



512, Sz 3 Schematic & Layout.pdf



NEMA SZ4 – 60-100HP



512, Sz 4 Schematic & Layout.pdf

Rockwell
Automation

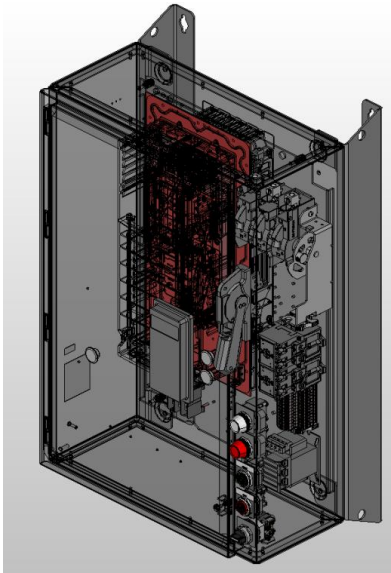
WERNER
ELECTRIC SUPPLY

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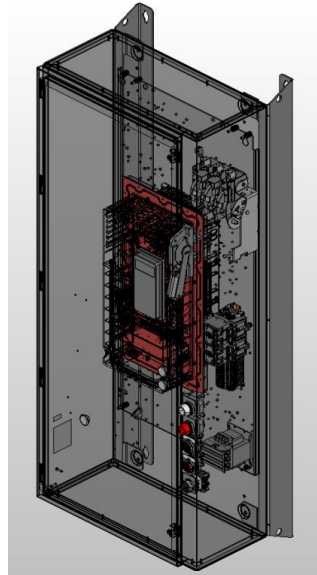
Automation – PowerFlex 753 Drives



PF753– 1-30HP



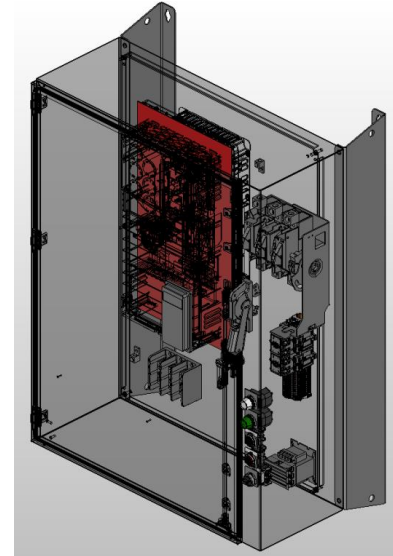
PF753 30HP Drive Drawings.pdf



PF753– 20-40HP



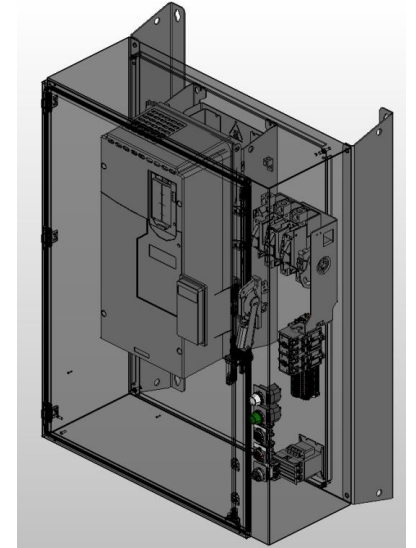
PF753 40HP Drive Drawings.pdf



PF753– 30-60HP



PF753 60HP Drive Drawings.pdf



PF753– 50-100HP



PF753 100HP Drive Drawings.pdf



Distribution Equipment – Switchboards/Panels













Distribution Equipment – Dry Type Transformers

HPS Titan Series - Dry Type up to 500 kVA



Wire & Cable – Offshore Cable - LSZH

TRICAB CABLE SERIES		PRODUCT FEATURES			APPROVALS				VOLTAGE RATING		
Power & Control		Braid	LSZH	Fire Resistant	ABS	BV	DNV	LR	600/1000V	150/250V	2KV
Shipboard											
BV		•	•	•	•	•	•	•	•	•	•
DV		•	•	•	•	•	•	•	•	•	•
RR		•	•	•	•	•	•	•	•	•	•
BH		•	•	•	•	•	•	•	•	•	•
Offshore											
PJ		•	•	•	•	•	•	•	•	•	•
HT		•	•	•	•	•	•	•	•	•	•
Instrumentation (I&I)											
Shipboard											
RC		•	•	•	•	•	•	•	•	•	•
RS		•	•	•	•	•	•	•	•	•	•
ES		•	•	•	•	•	•	•	•	•	•
FJ		•	•	•	•	•	•	•	•	•	•
Offshore											
RB		•	•	•	•	•	•	•	•	•	•
FK		•	•	•	•	•	•	•	•	•	•





		PRODUCT FEATURES			APPROVALS				VOLTAGE RATING		
Instrumentation (I&I)		Braid	LSZH	Fire Resistant	ABS	BV	DNV	LR	600/1000V	150/250V	2KV
Shipboard											
EW		•	•	•	•	•	•	•	•	•	•
EG		•	•	•	•	•	•	•	•	•	•
FC		•	•	•	•	•	•	•	•	•	•
FL		•	•	•	•	•	•	•	•	•	•
Offshore											
FZ		•	•	•	•	•	•	•	•	•	•
FE		•	•	•	•	•	•	•	•	•	•
Switchboard/ Panel Wire											
UP		•	•	•	•	•	•	•	•	•	•
VFD/VSD											
DQ		•	•	•	•	•	•	•	•	•	•
DF		•	•	•	•	•	•	•	•	•	•
Shore Power											
EZ		•	•	•	•	•	•	•	•	•	•







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Wire & Cable – Type P (IEEE 45/1580)

TRICAB CABLE SERIES	PRODUCT FEATURES			APPROVALS		VOLTAGE RATING		
Power & Control - 0.6/1kV	Braid	Flame Retardant	Oil Resistant	ABS	UL	600/1000V	150/250V	2KV
PG 	•	•	•	•	•	•		
PB 		•	•	•	•	•		
PZ 	•	•	•	•	•	•		
PA 		•	•	•	•	•		

Power & Control - 2 kV								
PX 	•	•	•	•	•			•
PN 		•	•	•	•			•
PS 		•	•	•	•			•

	PRODUCT FEATURES			APPROVALS		VOLTAGE RATING		
Power & Control - 2 kV heavy duty	Braid	Flame Retardant	Oil Resistant	ABS	UL	600/1000V	150/250V	2KV
PY 	•	•	•	•	•			•
PW 		•	•	•	•			•
PT 		•	•	•	•			•

Signal - 0.6 kV Individual & Collective Screened								
PH 	•	•	•	•	•	•		
PD 		•	•	•	•	•		

VFD - 2 kV								
PL 	•	•	•	•	•			•
PK 	•	•	•	•	•			•



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Wire & Cable – Additional Manufactures



ICC CABLE CORP.



Wire & Cable – Shield-Flex® Flexible Conduit



Good Shielding: **Type SLA** is UL Listed, similarly to standard Type LA liquidtight flexible steel conduit, but is augmented with a tinned copper shielding braid located over the inner steel core and under its protective

PVC jacket. It has a working temperature range of -30°C to 80°C dry / 60°C wet / 70°C oil and the shielding braid offers a minimum of 90% shielding coverage.



BEST Shielding: **Type EMCS** is a hybrid of SLA and EMS because it utilizes the same bronze core and PVC jacket as EMS but gets further screening protection from a tinned copper braid as found in the SLA product.

Type EMCS offers the same working temperatures as EMS.



Better Shielding: **Type EMS** offers a better shielding effectiveness than Type SLA and has a working temperature range of -55°C to 105°C. Type EMS has an inner core made

from a fully interlocked bronze strip and does not contain a braided shield. An all-temperature PVC jacket is extruded over the core, resulting in a sealed, waterproof raceway when assembled with liquidtight fittings.

Halogen-Free (HF) Series: For a low-smoke, low-flame spread, zero-halogen version, ask for **HFSLA**, **HFEMS**, or **HFEMCS**. It's ideal for field installation in confined, public areas such as subways, tunnels, etc. The jacketing material virtually eliminates the release of acidic gases found in PVC products.



Wire & Cable – Marine Fiber Optic Cable

Prysmian Group

Approvals

Meets IEC60794-1-1, 60794-1-2 and 60794-2

Meets IEEE 45 and IEEE 1580

Det Norske Veritas (DNV)

American Bureau of Shipping (ABS)

Lloyd's Register of Shipping (LRS)

Flame retardant per IEC 60332-3 CAT. A/F and IEEE 1202

Smoke density requirements of IEC 61034-1 and 61034-2

Acid gas generation requirements of IEC 60754-1 & 60754-2

Toxicity requirements of NES 713

Meets the performance requirements of IEEE 802.3z
(Gigabit Ethernet)

S670T Armored and Sheathed Marine Fiber Optic Cables

2 to 48 fibers / single-mode or multimode / LSZH / armored and sheathed



S611T Marine Fiber Optic Cables

Tight buffer construction | 2 to 48 fibers / single-mode or multimode / LSZH



Industrial Cable Glands



- General Duty
- Class 1, Division 1
- Class 1, Division 2

HAWKE
International

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We can support recertification training locally when needed.



Banding and Cable Ties



Excellent resistance to temperature extremes, corrosion, weather, chemicals, salt sprays and UV radiation.

- Stainless Steel Cable Ties
 - Coated
 - Zig Zag
 - Double Loop
 - Continuous Roll
- Stainless Steel Banding
- Coated Stainless Steel Banding
- Blank Stainless Steel Tags



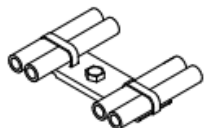
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Adhesive Bonded Fastening Systems



Intermediate Wireways



9T WIREWAY

9TA06-9TA16 ALUMINUM
9T06-9T16 STEEL
9TC06-9TC16 STAINLESS

P. 3-3

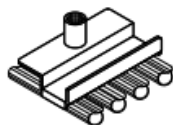
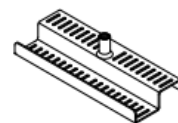


PLATE HANGERS

RTW620B-RTW680B STEEL
BOTTOM LOADING
RTW620T-RTW680T STEEL
TOP LOADING

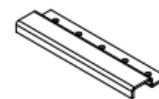
P. 3-8



SHOTGUN HANGER

RTWSG30MS-RTWSG70MS STEEL
RTWSG30SS-RTWSG70SS STAINLESS
RTWSG30AL-RTWSG70AL STEEL

P. 3-5



CABLE SUPPORT HONEYCOMB SINGLE

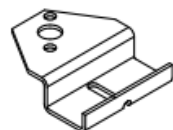
RT60201A-RT60801A ALUMINUM
RT60201-RT60801 STEEL
RT60201S-RT60801S STAINLESS

P. 3-10



T-BAR HANGER INTERMEDIATE

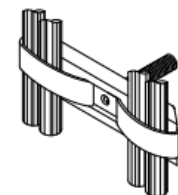
RTD7150A-RTD7750A ALUMINUM
RTD7150-RTD7750 STEEL CAP 10.0 LBS
RTD7150S-RTD7750S STAINLESS
CAP 10.0 LBS



CABLE SUPPORT

RTD6075A-RTD6600A ALUMINUM
RTD6075-RTD6600 STEEL

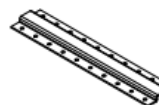
P. 3-9



T-BAR HANGER HEAVY DUTY

RTG7150-RTG7750 STEEL CAP 20.0 LBS
RTG7150S-RTG7750S STAINLESS
CAP 20.0 LBS

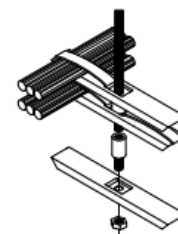
P. 3-6



CABLE SUPPORT HONEYCOMB DOUBLE

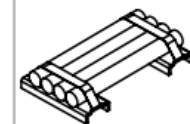
RT60902A-RT61302A ALUMINUM
RT60902-RT61302 STEEL
RT60902S-RT61302S STAINLESS

P. 3-11



T-BAR HANGER HEAVY DUTY INVERTED T

RTGT7550-RTGT7750 STEEL
CAP 20.0 LBS
RTGT7550S-RTGT7750S STAINLESS
CAP 20.0 LBS



CHANNEL HANGER

9C01S-9C04S STEEL
9C01A-9C04A STEEL

P. 3-12

RT &D

Cable Tray

LADDER CABLE TRAY

Ladder cable tray is a welded assembly composed of rungs and side rails. Cables are fastened to the rungs to maintain spacing or to keep cables in place when the tray is installed vertically. Cables can enter or exit from the top or bottom of the tray.

The open, ventilated design of ladder tray offers many advantages:

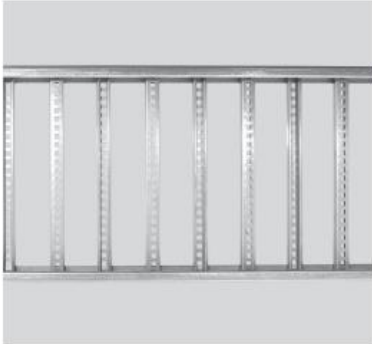
- Eliminates channeling of hazardous or explosive gases
- Prevents moisture formation that can compromise an electrical system or lead to premature corrosion
- Minimizes the buildup of debris and dust
- Offers excellent weight-to-span ratio and can be used for long spans

As per the NEC, the maximum allowable rung spacing is 9 inches (230 mm) when cable tray carries single-conductor cables of 1/0 to 4/0 AWG (American Wire Gauge) (Appendix I).

The rung spacing for cable tray that supports large power conductors should be between 9 and 12 inches (230 and 300 mm) to respect the minimum bend radius for cables as they exit the bottom of the cable tray. A rung spacing of 6 to 9 inches (150 to 230 mm) is preferable when the cable tray contains small multi-conductor cables used in instrumentation and control applications.

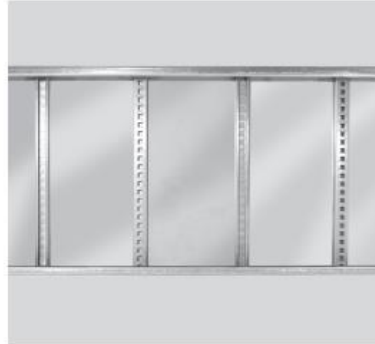
VENTILATED CABLE TRAY

Ventilated cable tray is an alternative for small multi-conductor cables used for instrumentation and control applications that require additional protection. The rung spacing for ventilated, ladder-type cable tray is 4 inches (100 mm).



SOLID-BOTTOM CABLE TRAY

Providing additional cable protection, solid-bottom cable tray is sometimes preferred to support and protect numerous small instrumentation and control cables. Because of its closed design, this type of tray should be used in applications where there is minimal risk of heat generation and buildup. When equipped with a solid cover, this type of cable tray can be used to support non-plenum-rated cables in air-handling spaces (environmental air areas).



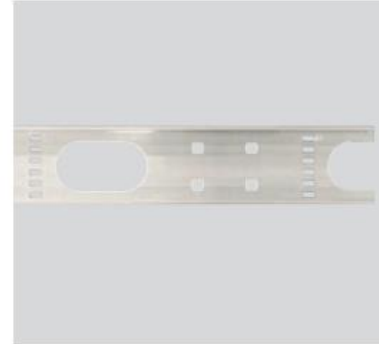
ONE-PIECE CABLE TRAY

Made of one continuous metal sheet, one-piece tray is typically used in applications where visual esthetics are important. It is used in a range of applications with spans of 10 feet (3.0 meters) or less, to support power cables and light-duty cables.



CHANNEL TRAY

Channel tray is typically used to support drop outs and smaller branch runs from the main cable tray system to electrical devices or other equipment. It is available with a ventilated or solid bottom. Channel tray can protect against electromagnetic interference when made of steel and equipped with a cover and wrap-around cover clamps.



WIRE MESH CABLE TRAY

Wire mesh cable tray, also referred to as basket tray, is a welded wire-mesh cable management system made of high-strength steel wire. It is used to manage cables for light power, telecommunications and fiber optics in commercial and industrial facilities.



Thomas & Betts

Firestop Sealants



Details

- Firestop tested up to 3 hours in accordance with ASTM E814 (UL 1479) and CAN/ULC-S115
- Exceptional weatherability (-60°F to 300°F) upon cure
- *Can be applied with conventional caulking equipment*
- Meets UL Water Leakage Test, W Rating — Class 1 requirements
- Non-slump, halogen-free formula provides strong adhesion

3M

General Electrical Supplies





Tools



Lighting – Shipboard Fixtures



PHOENIX[®]
DURABILITY X DESIGN™



Glamox

Lighting – Shipboard Fixtures



imtra®

Lighting – Navigation Lights and Panels



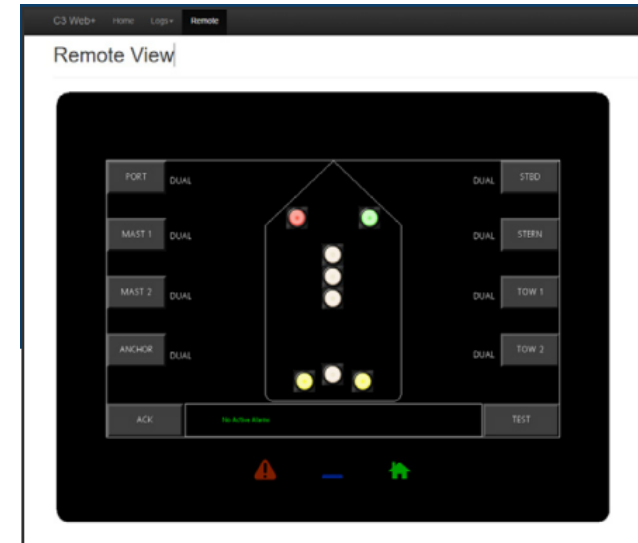
Pipe Mounting Plate

PM (3.00 inch pipe mounting, plates included)



Vertical Mounting Plate

VM (vertical mounting, plates included)



Control Panel: Available in standard and LED touchscreen options

Nav Lights and Control Panels are USCG approved, UL1104 and ABS certified

PHOENIX[®]
DURABILITY X DESIGN[™]

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Lighting – Navigation Lights



LOPOLIGHT

Audio Visual Signals & Communication

- Hazardous Location Loudspeaker
- Hazardous Location Strobe
- Hazardous Location Sounder
- Hazardous Location LED



AudioMaster® Two-Way Intercom



FEDERAL SIGNAL



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Shipboard Communication & Alarm



Elemec3 Network PA/GA System

Elemec3 (E3) is a network enabled Public Address and General Alarm (PA/GA) system designed for life critical installations in the world's toughest industrial communications markets.



Class 1 Div 1 Analog Telephone



Class 1 Div 1 Horn Speaker



Class 1 Div 1 Speaker Amplifier



EZ Page Intercom

 GAI-TRONICS



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Enclosures



Specifications

Protection Rating: NEMA Type 12; NEMA Type 13; NEMA Type 4; NEMA Type 4X; IP66
Finish: Brushed #4
Material: Stainless Steel 304
Color: Unpainted
Thickness: 14 ga



Specifications

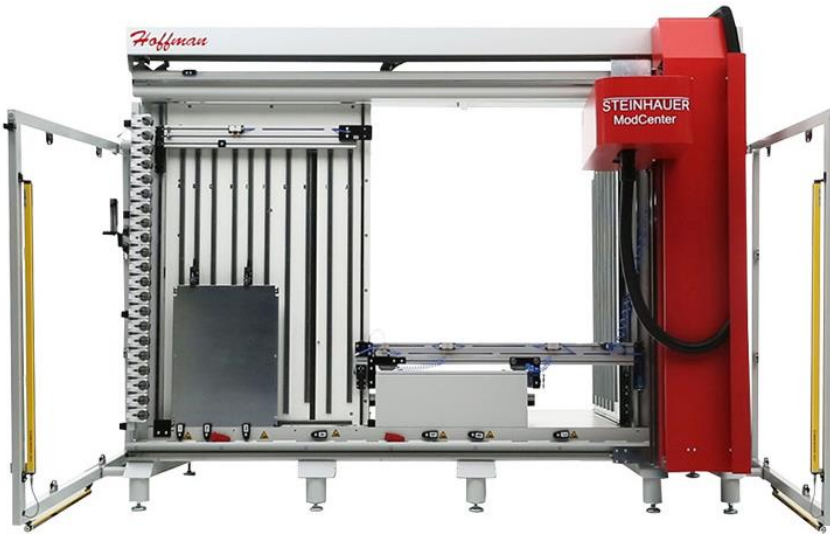
Protection Rating: NEMA Type 12; NEMA Type 4; IP66
Material: Mild Steel
Color Code: ANSI 61



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Enclosures - Modifications



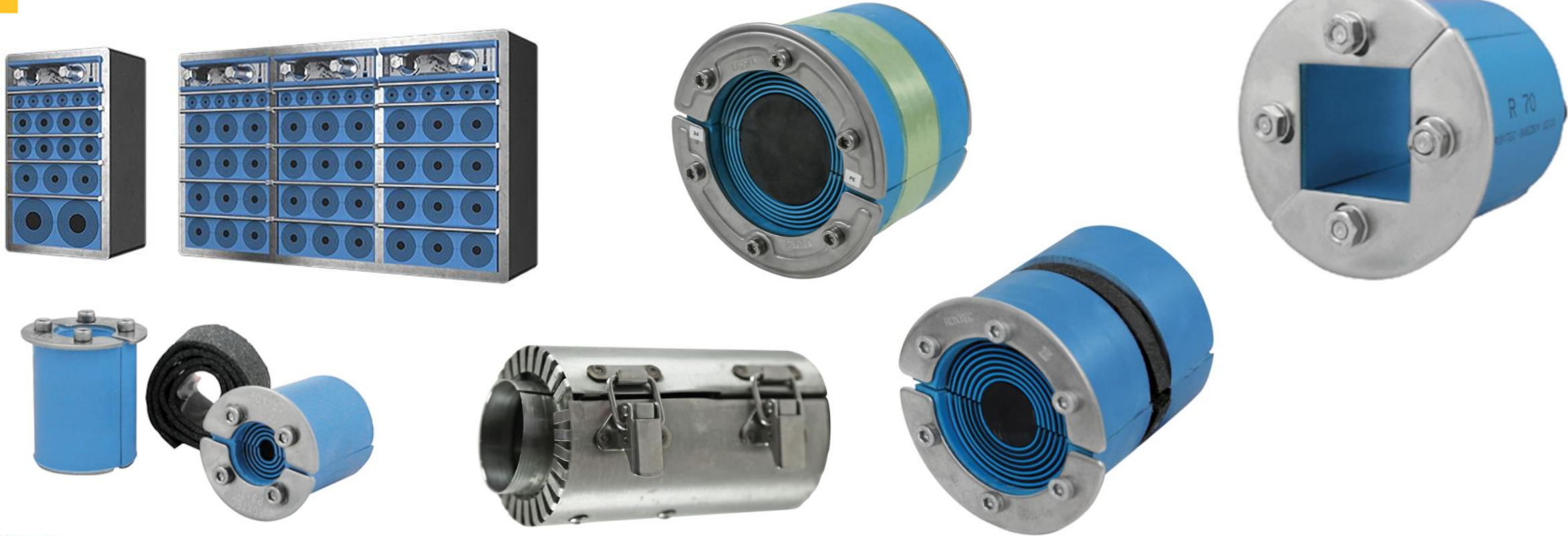
- Performs cutouts and drills & taps holes
- Accepts the following file formats
 - DWG, DXF, DWF, DWFX
 - Cannot use 3D Files
- Maximum enclosure size is 93" x 93"
- Maximum back panel size is 78" x 72"
- Machine works on
 - Painted steel
 - Stainless steel
 - Non-metallic enclosures



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Enclosures – Transit Barriers



Power Transmission – Electric Motors



MARINE AND COAST GUARD DUTY MOTORS

Reuland's Marine Duty motors utilize quality components in configurations designed for the hazards of the marine environment, providing sealed construction, corrosion protection, and high-grade insulation systems. Reuland® motors have been performing in these environments for over 75 years and are made in compliance with the specifications of IEEE-45, the American Bureau of Shipping (ABS), the United States Coast Guard (USCG), and IEC 60092.

Any of Reuland's products including motors, brakes, and gearboxes can be successfully adapted for the marine environment by employing our marine duty protection.

- Power: Up to 300 HP
- Voltage: Up to 600V
- Phase: 3-Phase
- Frequency: 60 Hz
- Standard: Cast Iron or Aluminum
- Custom: Stainless Steel



MILITARY / NAVY SERVICE A & C MOTORS

Reuland's Navy Service motors meet all pertinent MIL specifications for fractional and integral HP motors, including MIL-M-17060 and high impact shock per specifications MIL-S-901 and MIL STD-167. Our designs comply with all specifications related to shock and vibration, efficiency, sealed insulation systems, corrosion protection, weight, materials, procurement, testing, as well as structure-borne and airborne noise limits. Housings and end brackets are built with steel or ductile iron. Material traceability is provided through the Reuland® quality assurance program in compliance with MIL Standards. These motors use VPI sealed insulation systems, corrosion-proof hardware, and corrosion-resistant coatings that meet Navy Service A requirements.

- Power: Up to 300 HP
- Voltage: Up to 600V
- Phase: 3-Phase
- Frequency: 60 Hz
- Standard: Steel or Ductile Iron



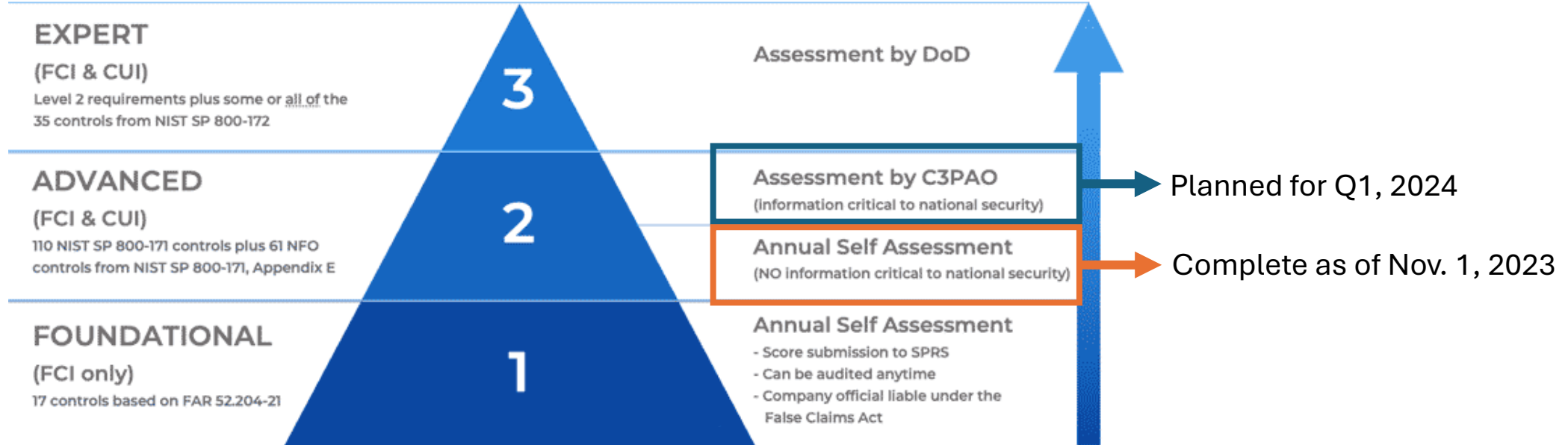
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Werner Custom Assemblies and Services



CMMC 2.0 Compliance Levels



Our federally certified platform for secure communication and document storage.



Our compliance assessment tool. Allows us to validate all 110 controls for CMMC.



Thank You

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