

WARRIOR EDGE 500 DX

Powerful multi-process pulse welding power source



Warrior Edge 500 DX is an easy-to-use, high-performing and connected multi-process welding machine featuring the Welding Modes Pulse, SPEED, THIN, CRAFT, ROOT and ROOT PIPE.

- **PULSE** WeldMode – adaptive pulse MIG process optimized to compensate for operator variation with an easy, user-friendly setup designed to achieve excellent weld results
- **SPEED** WeldMode – provides a focused arc that allows the welder to control the weld puddle at higher travel speeds thus increasing the productivity, on steel, stainless steel, and aluminium.
- **THIN** WeldMode – reduces spatter levels and helps reduce distortion when welding thin plates
- **CRAFT** WeldMode – double pulse weld process designed to enhance aluminium and stainless-steel, producing TIG like bead appearance with the productivity of MIG welding
- **ROOT and ROOT Pipe** WeldModes – easy to control gap bridging ability, optimized for root pass welding
- **Push Pull Compatible** – capability added to ensure the system is plug and play ready with the water-cooled Push Pull 350.
- **WeldCloud** – integrated connectivity

RobustFeed Edge features

- **TrueFlow** – digital gas flow control system from ESAB, effectively manages shielding gas, both in starts and while welding thus improving quality and decreasing consumption
- **Hybrid HMI** – material selection and configurations on a TFT screen inside the unit with a clear and easy to use external display for everyday operation makes unit intuitive to operate
- **Operator Management** – quick to set-up system with RFID key card that allows locking down quick-jobs with limit setting that improves repeatability and adherence to welding procedure specifications
- **SpoolSafe** – unique in the market, IP54 protection against dust, dirt, and other debris that keeps your wire dry and clean, improves feedability and reduces risk of contaminations of the weld
- Integrates with the Exeor DX torch models graphic display remote without the need for additional connectors
- **Red Dot design award 2021** – winning design provides well-designed ergonomics and intuitive user interface that reduces operator training needs



Warrior Edge 500 DX and
RobustFeed Edge DX with
Exeor DX Torch

Industry

- Industrial and General Fabrication
- Structural Steel Fabrication
- Transportation
- Railcars
- Mobile Equipment
- Tank and Vessel Fabrication
- Pressure Vessels
- Pipeline
- Energy
- Marine/Offshore

Visit esab.com for more information.

WARRIOR EDGE 500 DX

Specifications	
Mains Voltage	380 - 575 V ±10%, 3Φ, 50/60 Hz
Welding Output GMAW (MIG/MAG)	500 A / 39.0 V at 60% Duty Cycle 400 A / 34.0 V at 100% Duty Cycle
Welding Output SMAW (MMA)	500 A / 40.0 V at 60% Duty Cycle 400 A / 36.0 V at 100% Duty Cycle
Welding Output GTAW (TIG)	500 A / 30.0 V at 60% Duty Cycle 400 A / 26.0 V at 100% Duty Cycle
Setting Range GMAW (MIG/MAG)	8 A / 8.0 V - 500 A / 44 V
Setting Range SMAW (MMA)	8 A / 20.3 V - 500 A / 40 V
Setting Range GTAW (TIG)	4 A / 10.2 V - 500 A / 30 V
Standby Power	43 W
Open Circuit Voltage	54.8 V
Efficiency at Max Current MIG/MAG	88%
Power Factor at Max Current MIG/MAG	0.93
Dimensions L x W x H	700 x 325 x 680 mm (27.6 x 12.8 x 26.8 in.)
Weight	85 kg (187 lbs)
Operating Temperature	-20 to +55°C (0 to 131 °F)
Enclosure Class	IP23
Application Class	S
Insulation Class	H
Certification Mark (Standards)	CSA
Cooling Unit, Integrated	
Cooling Power	1,4 kW
Coolant Volume	4.7 l (1.3 gal)
Max Flow	2.0 l/min (0.7 gal/m)
Max Pressure	4.5 bar (65 psi)

Selection Guide Power Source										
Description	Part Number	Cooler	Hybrid HMI	SYN	PULSE	SPEED	THIN	CRAFT	ROOT	ROOT PIPE
Warrior Edge 500 CX II (CSA)	0448500884	Optional	X	X	X	X				
Warrior Edge 500 DX (CSA)	0446300889	Integrated 1.4 kW	X	X	X	X	X	X	X	X

Selection Guide Wire Feeder								
Description	Part Number	Spoolsafe IP54	Dual HMI	RFID Panel Lock	Trueflow Digital Gas Control	Heater	MMA Outlet	Push/Pull Capable
RobustFeed Edge DX (Tweco)	0446600885	X	X	X	X	X	X	X

WARRIOR EDGE 500 DX

Ordering Information

Warrior Edge 500 DX (Integrated water cooler, Incl. SPEED, THIN, CRAFT, ROOT and ROOT PIPE), 380-575 V, CSA	0446300889
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Wire Feeder & Control Panel

RobustFeed Edge DX Water-cooled, Digital Gas Control, Heater, Rear OKC, Tweco Connect, Push Pull Compatible	0446600885
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For complete list of wire feeder accessories and interconnection cables, see separate fact sheets or instruction manuals.

Options & Accessories

Description	Part Number
Cool 2	0465427880
Coolant 10 l (2.64 gal)	0465720002
4-wheel Trolley, Power Source	0349313450
Counterbalance Arm with Stabilizer Kit, for 3 in 1 Trolley	0448181880
Counterbalance Arm Extension Kit for use with 6 m (20 ft) and 7.5 m (25 ft) torches	0448116880
Wheel Kit, Power Source	0465416880
Feeder Mounting Kit, Power Source Assembly incl. cable holders	0447518880
RobustFeed Wheel Kit *	0446081880
Guide Pin Extension Kit *	0465508880
Torch Holder RobustFeed	0446958880
Torch Strain Relief RobustFeed	0446082880
Boom Adaptor (Lifting Device)	0446956880
Quick Connector Marathon Pac	F102440880
RFID Admin Card Kit, 5 Cards (2 incl. with RobustFeed)	0447776880
RFID User Card Kit, 5 Cards (3 incl. with RobustFeed)	0447776881
WiFi & BT dongle for connectivity	0349313733
Remote User Interface, RobustFeed EDGE	0448850880
Control Cable, 2 m (6.5 ft)	0349314654
Control Cable, 5 m (16 ft)	0349314652
Control Cable, 10 m (32 ft)	0349314650

* Guide Pin Extension Kit 0465508880 required when Wire Feeder Wheel Kit is used in combination with Trolley 0349313450.

WARRIOR EDGE 500 DX

Torches

Description	15ft	25ft
Exeor MIG 4.0W ² CX, Water-Cooled, Up/down * Tweco	0700026510	0700026511
Exeor MIG 4.0W ² DX, Water-Cooled, Graphic display ** Tweco	0700026514	0700026515

* Torch with enhanced cooling performance. Includes Torch LED light and CX remote module for JOB selection / WFS / V, 2T/4T

** Torch with enhanced cooling performance. Includes Torch LED light and DX graphical remote module for JOB selection / WFS / V / 2T/4T / Measure values, Arc Dynamics

For more information on Exeor torches, see separate fact sheet.

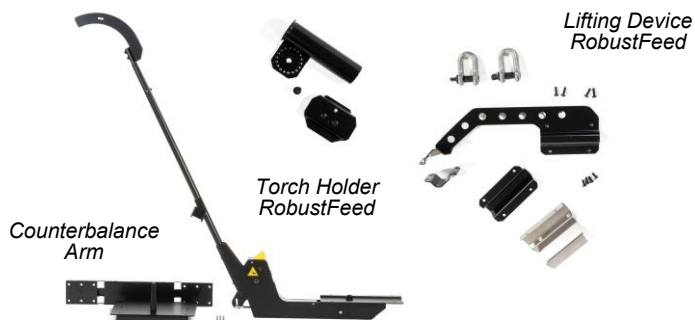
Push Pull Torches

Description	25ft	40ft
PP 350w, Inline push-pull, TWECO	0700026195	0700026196

For more information on PP350W torches, see separate fact sheet.

Interconnection Cables, incl. strain relief

Length	70mm ²
	Water-Cooled
2 m (6.5 ft)	0446310890
5 m (16 ft)	0446310891
10 m (32 ft)	0446310892
15 m (50 ft)	0446310893
20 m (64 ft)	0446310894
25 m (82 ft)	0446310895
35 m (114 ft)	0446310896



Exeor MIG 4.0W² CX and 4.0W² DX Torches



Remote User Interface



PP 350w Inline Push-pull



ESAB / esab.com

