

WARRIOR EDGE 500 DX

Powerful multi-process pulse welding power source



 **reddot** design award
winner 2021

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



Warrior Edge 500 DX is an easy-to-use, high-performing and connected multi-process welding machine featuring the WeldModes 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

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 - 460 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
Weight	85 kg
Operating Temperature	-20 to +55°C
Enclosure Class	IP23
Application Class	S
Insulation Class	H
Certification Mark (Standards)	CE

Cooling Unit, Integrated

Cooling Power	1,4 kW
Coolant Volume	4.7 l
Max Flow	2.0 l/min
Max Pressure	4.5 bar

Selection Guide Power Source										
Description	Part Number	Cooler	Hybrid HMI	SYN	PULSE	SPEED	THIN	CRAFT	ROOT	ROOT PIPE
Warrior Edge 500 CX I (CE)	0448500880	Optional	X	X	X					
Warrior Edge 500 CX II (CE)	0448500881	Optional	X	X	X	X				
Warrior Edge 500 DX (CE Water)	0446300886	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 BX (CE)	0446600880	X	X	X				
RobustFeed Edge CX (CE)	0446600881	X	X	X	X	X		
RobustFeed Edge DX (CE)	0446600882	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), 380-460 V, CE	0446300886

Wire Feeder & Control Panel	
RobustFeed Edge BX, Water-cooled, Euro	0446600880
RobustFeed Edge CX, Water-cooled, Digital Gas Control, Heater, Euro	0446600881
RobustFeed Edge DX, Water-cooled, Digital Gas Control, Heater, Rear OKC, Euro, Push Pull Compatible	0446600882

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	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 and 7.5 m 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
4-wheel Feeder Trolley for >300 mm Spools	0349313700
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	0448850880
Control Cable, 2m	0349314654
Control Cable, 5m	0349314652
Control Cable, 10m	0349314650

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

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Torches

Description	3 m	4 m	5 m
Exeor MIG 4.0G ² , Gas-Cooled *	0700025752	0700025753	0700025754
Exeor MIG 4.0G ² CX, Gas-Cooled, Up/down **	0700025755	0700025756	0700025757
Exeor MIG 4.0G ² DX, Gas-Cooled, Graphic Display***	0700025758	0700025759	0700025760
Exeor MIG 4.0W ² , Water-Cooled *	0700026050	0700026051	0700026052
Exeor MIG 4.0W ² CX, Water-Cooled, Up/down **	0700025730	0700025731	0700025732
Exeor MIG 4.0W ² DX, Water-Cooled, Graphic display ***	0700025733	0700025734	0700025735

* Torch with enhanced cooling performance.

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

*** Torch with enhanced cooling performance. Includes Torch LED light and DX graphical display remote 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	8 m	12 m
PP 350w, Inline push-pull, EURO	0700026191	0700026192

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

Interconnection Cables, incl. strain relief

Length	70mm ²		95 mm ²	
	Gas-Cooled	Water-Cooled	Gas-Cooled	Water-Cooled
2.0 m	0446310880	0446310890	0446310980	0446310990
5.0 m	0446310881	0446310891	0446310981	0446310991
10.0 m	0446310882	0446310892	0446310982	0446310992
15.0 m	0446310883	0446310893	0446310983	0446310993
20.0 m	0446310884	0446310894	0446310984	0446310994
25.0 m	0446310885	0446310895	0446310985	0446310995
35.0 m	0446310886	0446310896	0446310986	0446310996



Remote User Interface

PP 350w Inline Push-pull



ESAB / esab.com



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