

WARRIOR EDGE 500 DX

Powerful multi-process welding power source



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

- High performance WeldMode **THIN** reduces spatter levels and helps reduce distortion when welding thin plates
- With a gap bridging ability, the easy to control **ROOT** WeldMode is optimized for root passes
- Adaptive optimized **Pulse** MIG process that compensates for operator variation with an easy, user-friendly setup designed to achieve excellent weld results
- Fit for purpose WeldMode **SPEED** provide a focused arc that allows the welder to better and easier handle the weld pool at higher travel speeds increasing the productivity
- Integrated 1.4 kW high performance cooling unit
- Integrated WeldCloud connectivity

RobustFeed Edge features

- **TrueFlow**, the digital gas flow control system from ESAB, effectively manages shielding gas both in starts and while welding thus improving quality and decreasing consumption
- Effective and quick to set-up operator management system with key card that allows locking down quick-jobs with setting limits improves repeatability and adherence to welding procedure specifications
- The 2021 Red Dot design award winning design provides well-designed ergonomics and intuitive user interface that reduces training needs for operators
- **SpoolSafe** - unique in the market **IP54** protection against dirt/dust, keeping your wire dry and clean, protecting the integrity of your weld
- A hybrid HMI solution with 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 easy to operate
- Integrates with the Exeor DX torch models graphic display remote without the need for additional connectors



reddot design award
winner 2021

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

Industry

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

Visit **esab.com** for more information.

WARRIOR EDGE 500 DX

Specifications	
Mains Voltage	380 - 460 V ±10%, 3ph, 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)	16 A / 14.8 V - 500 A / 39 V
Setting Range SMAW (MMA)	16 A / 20.6 V - 500 A / 40 V
Setting Range GTAW (TIG)	5 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	Multi-P HMI	SYN	PULSE	SPEED	THIN	ROOT
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

Selection Guide Wire Feeder							
Description	Part Number	Precidrive	Spoolsafe IP54	Dual HMI	RFID Panel Lock	TrueFlow Digital Gas Control	Heater
RobustFeed Edge BX (CE)	0446600880	X	X	X	X		
RobustFeed Edge CX (CE)	0446600881	X	X	X	X	X	X

WARRIOR EDGE 500 DX

Ordering Information

Warrior Edge 500 DX (incl. SPEED, THIN, ROOT), 380-460 V, CE	0446300886
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Wire Feeder & Control Panel

RobustFeed Edge BX, Water-cooled, Euro	0446600880
RobustFeed Edge CX, Water-cooled, Digital Gas Control, Heater, Euro	0446600881

For complete list of wire feeder accessories and interconnection cables please see separate fact sheets or instruction manuals.

Options & Accessories

Cool 2	0465427880
Coolant 10 l.	0465720002
4-wheel Trolley, Power Source	0349313450
Counterbalance Arm RobustFeed **	0448181880
Counterbalance Arm Extension Kit for use with 6m and 7.5m torches	0448116880
Stabilizer Kit for Counterbalance Arm **	0460946880
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

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

** Stabilizer Kit 0460946880 required when Counterbalance is used in combination with Trolley 0349313450



WARRIOR EDGE 500 DX

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 please 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



Exeor MIG 4.0G², 4.0G² CX and 4.0G² DX Torches



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