

WARRIOR EDGE 500 DX

Powerful multi-process welding power source



Warrior Edge 500 DX,
RobustFeed Edge CX and EXEOR MIG gun

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

- High performance **THIN** WeldMode 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 for Carbon Steel welding that compensates for operator variation with an easy, user-friendly setup designed to achieve excellent weld results
- Fit for purpose **SPEED** WeldMode provide a focused arc that allows the welder to better and easier handle the weld pool at higher travel speeds increasing the productivity
- Aluminium Double Pulse MIG welding becomes a breeze with the **CRAFT** WeldMode, with the easiest to use Double Pulse settings on the market for the best looking stacked dimes look.
- 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

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.

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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

Ordering Information	
Warrior EDGE 500 DX Gas-Cooled Plant (SPAC VERSION)	W100DX500
Warrior EDGE 500 DX Liquid-Cooled Plant (SPAC VERSION)	W101DX500

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WARRIOR EDGE 500 DX Gas-Cooled Plant Contents

Description	Part Number	Notes
Warrior Edge 500 DX (CE Water)	0446300886	Integrated cooler, Multi P HMI, SYN, PULSE, SPEED, THIN, ROOT
RobustFeed Edge CX (CE)	0446600881	Precidrive, Spoolsafe IP54, Dual HMI, RFID Panel Lock, TrueFlow Digital Gas Control
Exeor MIG 4.0G2 DX	0700025734	Gas-Cooled, Graphic display, 4m, Tweco 4 (HD54, HD24 & 16 Series Tips) F.E.C.
Edge 10m Inter. Lead - AC	0446310892	70mm ² cable - 10m – Gas-Cooled
3-in-1 Trolley for Aristo/Warrior	0349313450	Compatible with Warrior EDGE, Warrior 500iX and Aristo power sources with Robust Feed
Comet Argon Reg/Flow Meter	201017	2 Gauges - 55 L/Min Flowmeter
5mm Hose Connection Kit	308689	To be installed with Interconnection Lead

WARRIOR EDGE 500 DX Liquid-Cooled Plant Contents

Description	Part Number	Notes
Warrior Edge 500 DX (CE Water)	0446300886	Integrated cooler, Multi P HMI, SYN, PULSE, SPEED, THIN, ROOT
RobustFeed Edge CX (CE)	0446600881	Precidrive, Spoolsafe IP54, Dual HMI, RFID Panel Lock, TrueFlow Digital Gas Control
Exeor MIG 4.0W2 DX	0700025734	Liquid-Cooled, Graphic display, 4m, PSF 405/410W Front End Consumables
Edge 10m Inter. Lead - WC	0446310892	70mm ² cable - 10m - Liquid-Cooled
3-in-1 Trolley for Aristo/Warrior	0349313450	Compatible with Warrior EDGE, Warrior 500iX and Aristo power sources with Robust Feed
Comet Argon Reg/Flow Meter	201017	2 Gauges - 55 L/Min Flowmeter
5mm Hose Connection Kit	308689	To be installed with Interconnection Lead

Options & Accessories

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



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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 , Liquid-Cooled *	0700026050	0700026051	0700026052
Exeor MIG 4.0W ² CX, Liquid-Cooled, Up/down **	0700025730	0700025731	0700025732
Exeor MIG 4.0W ² DX, Liquid-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	Liquid-Cooled	Gas-Cooled	Liquid-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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