

WARRIOR EDGE 500 CX

Powerful multi-process welding power source



PRECIDRIVE

SPOOLSAFE
PROTECTS YOUR WELD



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

- 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** that provides a focused arc that allows the welder to better and easier handle the weld puddle at higher travel speeds increasing the productivity
- Optional 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
- **PreciDrive** wire drive system maintains precision wire feeding performance to promote consistent weld quality
- 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



Warrior Edge 500 CX and
RobustFeed Edge CX

Industry

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

Visit [esab.com](https://www.esab.com) for more information.

WARRIOR EDGE 500 CX

| Specifications | |
|-------------------------------------|---|
| Mains Voltage | 380 - 460 V \pm 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 (Stick) | 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 (MMA) | 89% |
| Power Factor at Max Current (MMA) | 0.91 |
| 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, Optional Cool2 | |
| Cooling Power | 1.0 kW |
| Coolant Volume | 4.5 l |
| Max Flow | 1.8 l/min |
| Max Pressure | 4.6 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 | | | |
| Warrior Edge 500 CX II (CE) | 0448500881 | Optional | | 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 CX

Ordering Information

| | |
|---|------------|
| Warrior Edge 500 CX, 380-460 V, CE | 0448500880 |
| Warrior Edge 500 CX II (incl. SPEED), 380-460 V, CE | 0448500881 |

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 CX

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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