



1 Phase 3 Phase DC CVCC

ESAB MTS-3500i MULTI-PROCESS POWER SOURCE



DC - CV & CVCC
Power Sources

ESAB MTS-3500i

- Multi-process, fourth generation inverter power source puts reliability and ease of use into a powerful, versatile package
- Microprocessor controlled - makes it easy to tune in an excellent welding condition
- Delivers the very best welding performance available
- Digital preset of voltage/amperage on all process at the front panel
- Supports a wide selection of ferrous and non-ferrous alloys in MIG mode utilizing fixed slope and inductance controls
- Starts and re-starts are easy in Stick mode and arc force is adjustable
- Touch Lift Tig™ Start capability
- Select primary voltage with a convenient switch on the back panel
- Operates on single-phase or three-phase power
- Auto Fan™ feature standard in the unit for energy savings. Automatically turns the fan motor on and off when needed.
- Three-year warranty



Ordering Information

Can be used as a direct replacement for the 350mpi

MTS-3500i Power Source

230 (208)/460 vac, 1-3 ph, 50/60 Hz	0558007140
575 vac, 3 ph, 60 Hz	0558007141
400/440 vac, 3 ph, 50/60 Hz CE	0558007142

Supplied with 8 ft. primary cable and two male Twist Lock Cable Connectors.
For Options and Accessories, see next page.

MTS-3500i Migmaster Packages

The following packages include an ESAB MTS-3500i 230/460 vac power source, wire feeder, control cable, gas hose, .035/.045 in. (0.9/1.2mm) feed rolls, GunMaster gas-cooled gun, 15ft. work cable with clamp, 15 ft. wire feeder weld cable and R-33 regulator with adjustable flowmeter unless otherwise noted.

Packages for Argon & Argon Mixed Shield Gases (R-33-FM-580)

MTS-3500i, Mig 4HD, GM-250cc-10ft.	0558008345
MTS-3500i, Mig 4HD, GM-400cc-15ft. (4.5m)	0558001472
MTS-3500i, Mig 4HD Dual, GM-400cc-15ft. (4.5m)	0558007805
(supplied with 2 each, Gunmaster 400, R-33FM580, and feeder weld cable)	
MTS-3500i, Mig 35, GM-400cc-15ft. (4.5m)	0558001473

Instruction Manual	0558008058
Sales Literature	(12-01-2008) ARC-23238

MTS-3500i Migmaster Packages Continued . . .

Packages for CO₂ Shield Gas (R-33-FM-320)

MTS-3500i, Mig 4HD, GM-400cc	0558001474
MTS-3500i, Mig 35, GM-400cc	0558001475

Notes:

MIG-4HD kits have 8 ft. (2.4m) control cable & 9.5 ft. (3.7m) gas hose.
MIG-35 kits have 6 ft. (1.8m) control cable & 12.5 ft. (4.9m) gas hose.

MTS-3500i Migmaster DuraDrive Pulse Package

MTS-3500i, DuraDrive 4-30 Pulse, 60ft. control cable, . 0558005373
(gun, flowmeter-regulator, gas hose, feeder welding cable and work cable must be ordered separately)

Specifications

Rated DC Output @ 60% duty cycle (10 min base continuous fan)	
50 or 60 Hz, 3 ph Input, cv or cc.....	350 amps @ 32 vdc
50 or 60 Hz, 1 ph Input, cv or cc.....	225 amps @ 29 vdc
Rated DC Output @ 100% duty cycle (10 min base continuous fan)	
50 or 60 Hz, 3 ph Input, cv or cc.....	300 amps @ 29 vdc
50 or 60 Hz, 1 ph Input, cv or cc.....	200 amps @ 29 vdc
Open-Circuit Voltage (50 or 60 Hz)	72 vdc
Primary Input Voltage & Current @ rated 60% duty cycle load	
230(208-220)/460 vac,50/60 Hz, 3 ph	50/25 amps
230(208-220)/460 vac,50/60 Hz, 1 ph	50/38 amps
Net Weight.....	101 lb. (46 kg)
Shipping Weight.....	114 lb. (52 kg)
W x L x H.....	11.5 in. (29 cm) x 24.5 in. (62 cm) x 16.4 in. (42 cm)

Options & Accessories

HC-5 Hand Pendant Control - 30 ft. (9.1 m) cable. Provides remote control of Weld Process Selection (cv-Mig/cc-Tig/cc-Stick), Output Control (cc-amps/cv-volts), and Arc Control (arc force-Stick/Inductance-Mig)..... 34838

Ultra-Pulse 350 Mig Pulse Pendant Control - Easy-to-use synergic pulse Mig control. Simply select the desired wire type and diameter, set the wire feed speed and begin welding. Twenty preset combinations include steel, stainless steel, aluminum and silicon bronze. 36988
Note: MIG 4HD is required.

EAS-IV Electronic Tig Arc Starter and Plumbing Box - This high voltage arc starter is designed for DCSP (electrode negative) Tig applications where arc starting without the tungsten electrode touching the work is required. The EAS-IV is also effective at eliminating problems associated with RF generating arc starters or high frequency arc starters. The EAS-IV is rated 400 amps at 40% duty cycle and includes selection switch (Arc Start/Touch Tig), gas solenoid, gas preflow timer and gas postflow timer, direct Tig torch connections, water inlet/outlet fittings, quick connector output connections, 4 ft. welding power input cables with male quick connectors, 8 ft. control cable, carrying handle and remote control plug (14 pin). 34839
Note: Remote contactor control (such as TC-2B, HC-3B or FC-5B/C) is required.

Tig Torches - 2-piece cable and hose assembly with Twist Lock Cable Connector for direct connection to the power source.
HW-17V-2-TL, 12.5 ft..... 35857
HW-17V-2-TL, 25 ft..... 35856
HW-26V-2-TL, 12.5 ft 35858

Tig Accessory Kit - for HW-17, 18 or 26.....999126

FC-5B EHD Foot Control - 30 ft. (9.1 m) cable *33841

FC-5C Foot Control - 30 ft. (9.1 m) cable*0558004234

TC-2B Torch Control - 25 ft. (7.5 m) cable *33839

TC-3A Torch Control - 30 ft. (9.1 m) cable,
use with HW-9, 17, 20, 20A & 24..... *35783

TC-3A Torch Control - 30 ft. (9.1 m) cable,
use with HW-18 & HW-26R..... *36680

***Note: FC-5 & TC-2 provide contactor and current control.
TC-3 provides contactor control only.**

Power Source to Feeder Cable, Lug w/ QC 15 ft. (4.5m)... 36254

Work Cable Assembly, Clamp w/ QD 15 ft. (4.5m)..... 36253

Stick Electrode Holder Assembly - 300A., 15 ft. (4.5m)21226

Inverter Cart (2 cylinder) for use with SVI 450i & 350 mpi31700

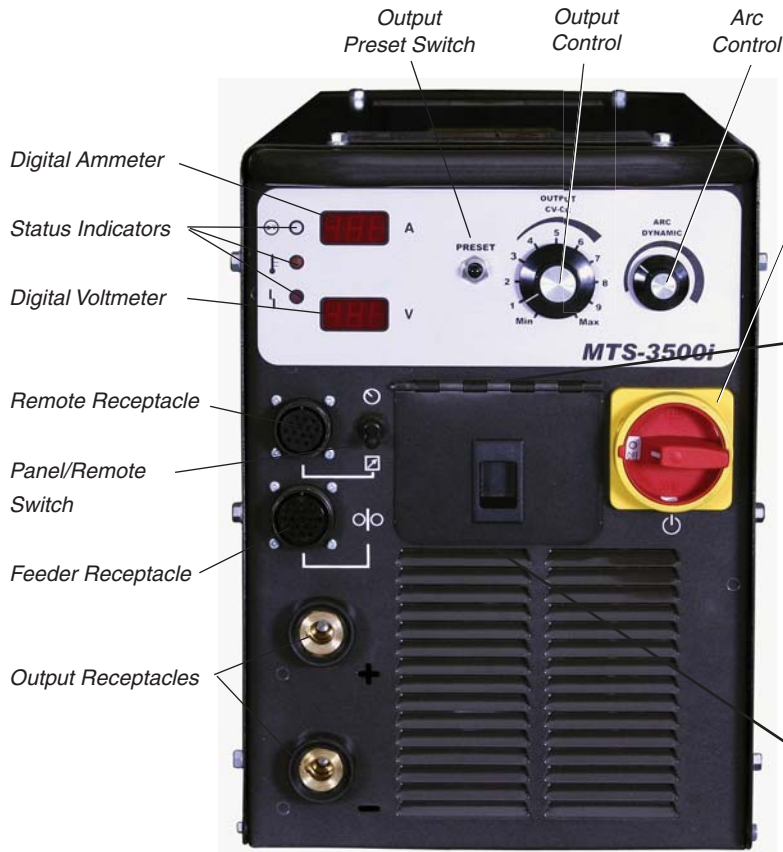
Twist Lock Cable Connectors & Adaptors

...see under General Accessories

Power Source to Wire Feeder Control Cables

...see under Wire Feeder - Accessories - Control Cables

Control Panel and Connections



Super Easy to Use - Simple to Setup

Output and Arc control are right on the front panel for quick adjustment

Contactor, Process, and Mode switched are protected behind a latching cover

