

# EM 210 & EMP 210

## ESAB Dual Voltage 200 Amp Welders



**EM 210**  
MIG/Flux-Cored Welding System Package



**EMP 210**  
Multi-Process MIG/Stick/DC TIG  
Welding System Package

ESAB EM 210 and EMP 210 inverter-based welding systems are ready to tackle steel, stainless and aluminum projects. Featuring professional-grade arc characteristics and full-featured digital controls which enable fine-tuning of the arc performance to deliver superior welds. Both systems weigh just under 29 lbs each and offer dual-voltage 120/230V flexibility. Take these welders wherever work takes you – around the shop, in the field or at home in your garage.

### Featuring ESAB Genuine Tweco & Victor Accessories:

ESAB EM 210 welding package includes a Tweco® Fusion® 180 MIG gun with Velocity® consumables, Victor® Argon/CO<sub>2</sub> regulator, Tweco ground clamp with heavy duty 50 mm Dinse connection, 50A-15A (120/230V) power adapter, sample wire spool of ESAB OK AristoRod 12.50 mild steel wire (2#) and 0.024/0.030 and 0.030/0.035 drive rolls.

ESAB EMP 210 welding package offers all of the above, plus a Tweco 17V TIG torch and Tweco electrode holder.

Both systems are spool gun-ready for MIG aluminum with optional spool gun and optional remote foot control for Lift TIG welding. (Spool gun and remote foot control sold separately.)

- **ESAB EM 210** is a MIG/Flux Cored welding system with a 30 – 200A output; welds material from 22 gauge up to 3/8 in. in a single pass; accepts 4 and 8 in. diameter wire spools
- **ESAB EMP 210** is a Multi-Process MIG/Flux Cored/Stick/Lift TIG welding system with a 10 – 200A output. Stable Lift TIG arc at low amperage for total control; power to run stick electrodes up to 5/32 in. Digital controls with large easy-to-read LED display enable fast, easy and more accurate operation
- Improve welding results with advanced functions typically found on industrial machines: MIG wire run-in, burn-back, variable inductance, 2T/4T trigger control, Lift TIG arc starts, gas pre and post-flow, Stick hot start and arc force control
- Portability and flexibility to weld in a variety of locations. Both units weigh just under 29 lbs, connect to 120/230V primary power, and are compatible with 10 kVA generators

### Industry

- Automotive
- Agricultural Equipment
- Civil Construction
- Repair and Maintenance
- Light Fabrication
- Automotive Bodies
- HVAC

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

# EM 210 & EMP 210

Specifications			
Model	EM 210		EMP 210
Primary Voltage, 1 ph	115/230 VAC, ± 15%, 50/60 Hz		115/230 VAC, ± 15%, 50/60 Hz
Supply Voltage Range	97 – 132 VAC / 195 – 265 VAC		97 – 132 VAC / 195 – 265 VAC
MIG (GMAW) Welding Output	115V: 90A/18.5V @40%, 57A/16.9V @100% 230V: 200A/24V @15%, 77A/17.9V @100%		115V: 90A/18.5V @40%, 57A/16.9V @100% 230V: 200A/24V @15%, 77A/17.9V @100%
STICK (SMAW) Welding Output	-		115V: 70A/22.8V @40%, 44A/21.8V @100% 230V: 170A/26.8V @20%, 66A/22.6V @100%
Lift TIG (GTAW) Welding Output	-		115V: 90A/13.6V @40%, 57A/12.3V @100% 230V: 200A/18V @15%, 77A/13.1V @100%
Current Range	30 – 200 Amps		10 – 200 Amps
MIG (GMAW) Welding Voltage Range	115V: 12V-20V	230V: 12V-24V	115V: 12V-20V      230V: 12V-24V
Maximum Input Current	27.2 – 40 A		20 – 40 A
Nominal OCV Volt/DC	68 VDC		68 VDC
Maximum Plate Thickness	9.5 mm (3/8 in.) @ 230V		9.5 mm (3/8 in.) @ 230V
Wire Dimensions			
Mild Steel	0.6 – 0.8 mm (.024 – .030 in.)		0.6 – 0.8 mm (.024 – .030 in.)
Stainless Steel	0.6 – 0.8 mm (.024 – .030 in.)		0.6 – 0.8 mm (.024 – .030 in.)
Aluminum	0.8 – 0.9 mm (.030 – .035 in.)		0.8 – 0.9 mm (.030 – .035 in.)
Cored Wire	0.8 – 0.9 mm (.030 – .035 in.)		0.8 – 0.9 mm (.030 – .035 in.)
Wire Feed Speed	2 – 11 m/min (80 – 450 ipm)		2 – 11 m/min (80 – 450 ipm)
Wire Spool Capacity	100 & 200 mm (4 & 8 in.), 1–5 kg (2–11 lbs)		100 & 200 mm (4 & 8 in.), 1–5 kg (2–11 lbs)
Lead Cord	14 A WG NEMA 5-20P, 3 m (10 ft) rubber		14 A WG NEMA 5-20P, 3 m (10 ft) rubber
Protection Class	IP21S		IP21S
Certification Mark (Standards)	CSA		CSA
Warranty	3 year		3 year
Dimensions L x W x H	487 x 221 x 381 mm (19.2 x 8.7 x 15 in.)		487 x 221 x 381 mm (19.2 x 8.7 x 15 in.)
Weight	13 kg (28.7 lbs)		13 kg (28.7 lbs)

Ordering Information	
EM 210 MIG 200A Weld System <sup>1</sup>	0700501200
EMP 210 MP 200A Weld System w/TIG <sup>2</sup>	0700503200

<sup>1</sup> EM 210 package includes: Power Source, Tweco Fusion 180 Velocity MIG Gun with Tweco Connection & Velocity Consumables, Ground Clamp, Argon/CO<sub>2</sub> Regulator, Power Adaptor and Sample Wire Spool.

<sup>2</sup> EMP 210 package includes: Power Source, Tweco Fusion 180 Velocity MIG Gun with Tweco Connection & Velocity Consumables, Tweco 17V TIG Torch with 50 mm Dinse and Accessory Kit, Electrode Holder, Ground Clamp, Argon/CO<sub>2</sub> Regulator, Power Adaptor and Sample Wire Spool.

Options & Accessories	
Tweco Spool Gun 160 A, 3.6 m (12 ft) (required for AI MIG welding)	1027-1397
Tweco Fusion 180 MIG gun with Velocity consumables, 3 m (10 ft)	1017-1338
ESAB TIG Foot Control, 4.6 m (15 ft) cable and 8-pin connector	W4014450
TIG Torch 17 V and Accessories, 4 m (13 ft) 25/50 mm Dinse	W4013802
TIG Accessory Kit 1 mm (.040 in.) & 1.5 mm (1/16 in.) (20-115A)	1442-0065
TIG Accessory Kit 2.4 mm (3/32 in.) & 3.2 mm (1/8 in.) (100-225A)	1442-0066
Victor Argon Flow Gauge Regulator GF-250-50-580	0781-9411
Gas Hose, 3.8 m (12.5 ft), Male 5/8-18UNF	W4013900
Power Adapter, 230 V to 120 V, 15 A (2 ft, N6-50R to N5-15P)	W4014000
Basic Utility Cart	1444-0900



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