

Origo™ Mig 320 & 410 with Origo Feed 304 M12



- Step-switched power sources for medium (320) to heavy-duty (410) GMAW applications
- Made with a strong galvanized metal casing to withstand harsh environments
- Large wheels, sturdy lifting eyelets, and an undercarriage designed for forklift transport make the Origo Mig easy to move
- The wide current and voltage range make it easy to optimize settings for a wide variety of consumables and shielding gases
- Optimized to operate together with the Origo Feed 304 M12 wire feeder available with 1.18 in. (30 mm) diameter feed rolls for wires up to 1/16 in. (1.6 mm) diameter
- Electronically controlled feeding gives an accurate and stable arc
- The wire feed unit sits on a swivel post mounted on the top of the power source, providing a 360° radius of operation
- The feeder mechanism is easy to access, and all wear parts can easily be exchanged
- A single pressure device makes it easy to adjust the appropriate feeding pressure
- All electronic components are protected in a separate compartment

Ordering Information

Origo Mig 320 Packages

230/460V, 3ph, Ready-to-Weld..... 0558101326
230/460V, 3ph, Basic..... 0558101327

Origo Mig 410 Packages

230/460V, 3ph, Ready-to-Weld..... 0558101328
230/460V, 3ph, Basic..... 0558101329

Ready-to-Weld: power source, 16 ft. (5 m) work cable/ground clamp, factory installed wheel kit, 6 ft. (1.7 m) cable connection kit, Origo Feed 304 wire feeder with M12 panel, .035/.045 in. (0.9/1.2 mm) V-groove drive rolls/guide tube, swivel mounting post for wire feeder, gas cylinder rack, 15 ft. (4.5 m) Tweco Spray Master 350 MIG gun with .035/.045 in. (0.9/1.2 mm) accessories and R-33-FM-580 gas regulator with adjustable flowmeter.

Basic: power source, wire feeder, and 15 ft. (4.5 m) Tweco Spray Master 350 MIG gun.

Available in USA only.



Options & Accessories

Origo Mig 320 air filter..... 0349302599
Origo Mig 410 air filter..... 0349302423
Cable holder kit..... 0349303362

Feeder Accessories

Wheel kit 0458707880
Strain relief for welding torch 0457341881
Feeder strain relief for connection cables 0459234880
Lifting eye 0458706880
Quick connector Marathon Pac F102440880
Adapter for 11-lb (5-kg) spool 0455410001
Steel spool cover, 12 in. (305 mm) 0459431880

Counterbalance MiniBoom

For 12 in. (305 mm) spools..... 0458705880
For 18 in. (457 mm) spools..... 0458705882
Origo MIG 320 stabilizer kit for MiniBoom²..... 0349303475
Origo MIG 410 counterbalance kit for MiniBoom¹.. 0349305812
Reinforcer kit for mounting MiniBoom²..... 0349309748

¹Includes counterbalance kit #0349309748 and stabilizer #0349303474.

²Stabilizer kit required.

Extension bracket for 60-lb coil (18 in. spools) 0459233880
Coil adaptor (requires 0459233880) 34323
Inching and gas purge kit 0459465880

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Options & Accessories continued

Connection Cable Sets

Air-Cooled Torch, 23 Pole

5.5 ft. (1.7 m)	0349312470
16.4 ft. (5 m)	0349312471
32.8 ft. (10 m)	0349312472

49 ft. (15 m)	0349312473
82 ft. (25 m)	0349312474
115 ft. (35 m)	0349312475

Includes: control cable, electrode cable, and gas hose.

Specifications

	Origo Mig 320	Origo Mig 410
Input voltage	230/460V, 3ph, 60Hz	230/460V, 3ph, 60Hz
Permitted load at:		
30% duty cycle	320A/30V	-
50% duty cycle	-	400A/34V
60% duty cycle	250A/27V	365A/32V
100% duty cycle	195A/24V	280A/28V
Primary current at:		
30% duty cycle	34/18A	-
50% duty cycle	-	45/22A
60% duty cycle	23/12A	41/21A
100% duty cycle	16/8A	28/14A
Setting range (DC)	40A/16V–320A/30V	50A/16.5V–400A/34V
Open circuit voltage	16–40V	17–45V
Open circuit power	200W	360W
Open circuit power with cooling unit	-	600W
Power factor at maximum current	0.94	0.98
Efficiency at maximum current	75%	71%
Control voltage	42V, 50/60Hz	-
Voltage steps	40	40
Inductance outlets	2	2
Dimensions, LxW xH, in. (mm)	33x16x32 (840x425x830)	32x21x36 (812x552x925)
Weight, lbs. (kg)	244 (111)	317 (144)
Weight with cooling unit, lbs. (kg)	-	348 (158)
Operating temperature, °F (°C)	14 to 104 (-10 to 40)	14 to 104 (-10 to 40)
Enclosure class	IP 23	IP 23

Origo Feed 304 M12 Wire Feeder Data

Power Supply	Wire Spool Capacity, lbs. (kg)	Max. Spool Diameter, in. (mm)	Wire Feed Speed, ipm (m/min)	Dimensions (LxWxH), in. (mm)	Weight Enclosed, lbs. (kg)	Wire Dimensions, in. (mm)	
42 VAC, 50/60 Hz	44 (19) or 60 (27) ¹	12 (300) ²	31-1000 (0.8-25)	27 x11x16 (690 x 275 x 420)	33 (15)	Steel	.023–1/16 (0.6–1.6)
						Stainless steel	.023–1/16 (0.6–1.6)
						Aluminum	.040–1/16 (1.0–1.6)
						Cored wire	.030–1/16 (0.8–1.6)

¹Requires optional accessories.

²Enclosed.