

Origo™ Feed 3004 MA23

with Mig 4002c/6502c Power Supply



- Quick connectors – reduces setup times
- Meets IEC 60974-5 safety standard with low voltage (42 VAC) operations and overload protection circuit to help eliminate breakdowns
- TrueArcVoltage™ System – measures the correct arc voltage value independent of the length of the connection cable or welding torch
- Can be equipped with a counterbalance device, lifting eye, or wheel kit for increased mobility
- Burnback
- Continuous adjustable inductor

Optimum welding solutions for easy setup and operation in GMAW/FCAW/SMAW.

With its galvanized metal casing, the ESAB Origo Feed 3004 is ideal for use in tough environments. Electronically controlled feeding gives accurate and stable arc. The four-wheel roller feeder mechanism with grooves in both feed roll and pressure roll gives stable feeding and low wear on the wire – to avoid operational disturbances.

The feeder has rolls with a diameter of 1.18 in. (30 mm) for wires up to .062 in. (1.6 mm) diameter. All adjustments are made on the man-machine communication panels (MMC) of the feeder, giving a good overview of the settings.

With the Origo Feed 3004, you have your choice of power sources. The MIG 4002c and 6502c switching converter (chopper) power sources are all intended for heavy-duty applications. The units are easily transported, and the digital (CANbus) communications and control system reduces the need for cables.

Ordering Information

Ready to Weld Packages

MIG 4002c Origo Feed 3004 MA23.....0558101332

MIG 6502c Origo Feed 3004 MA23.....0558101336

Basic Packages

MIG 4002c Origo Feed 3004 MA230558101333

MIG 6502c Origo Feed 3004 MA230558101337

Ready to Weld package includes: power source, feeder, 15 ft. (4.5 m) 400 A torch, 5.5 ft. (1.7 m) connection cable set, 16.4 ft. (5 m) work cable, reg. flowmeter Ar CO₂.

Basic package includes: power source, feeder, 15 ft. (4.5 m) 400 A torch.



Feeder Accessories

Wheel kit	0458707880
Strain relief for welding torch	0457341881
Feeder strain relief for connection cables	0459234880
Lifting eye.....	0458706880
Quick connector MarathonPac	0558002354
Adapter for 11 lb spool.....	0455410001
Steel spool cover	0459431880
Counter balance mini-boom.....	0458705880
Extension bracket for 60 lb coil.....	0459233880
Coil adapter	34323
Remote control MTA1 CAN.....	0459491880
Remote connection cable for CAN 10p.....	0459960880
Miggy Track remote adapter	0459681880
Push Pull adapter kit.....	0459681881

Connection Cable Sets

Air-Cooled Torch, 10 pole

5.5 ft. (1.7 m)	0349312450
16.4 ft. (5.0 m)	0349312451
32.8 ft. (10.0 m)	0349312452
49.2 ft. (15.0 m)	0349312453
82.0 ft. (25.0 m)	0349312454
114.8 ft. (35.0 m)	0349312455

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

Torches

GunMaster 400cc

25 ft. (7.6 m) Basic	0558001674
10 ft. (3 m) x .035-.045 in.....	0558001665
12 ft. (3.6 m) x .035-.045 in.....	0558001667
15 ft. (4.5 m) x .035-.045 in.	0558001669
15 ft. (4.5 m) x .052-1/16 in.	0558001670

See ARC-23095 for additional information.

Instruction Manual

Origo Feed 3004	0444 408 187
MA23/MA24	0460 454 187
MIG 4002/6502.....	0349 301 162
Product Data Page	ARC-23275

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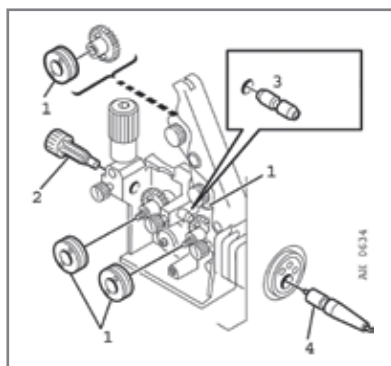
Feeder Data

Power Supply	Wire Spool Capacity	Max. Spool Diameter	Wire Feed Speed	Dimension (L x W x H)	Weight Enclosed	Wire Dimensions
42 VAC, 50/60 Hz	44 lb (19 kg) or 60 lb (27 kg)*	12 in. (300 mm) (enclosed)	32-1000 in./min. (0.8-25.0 m/min.)	27.1 x 10.8 x 16.1 in. (690 x 275 x 420 mm)	33 lb (15 kg)	Steel .023-.062 in. (0.6-1.6 mm) Stainless steel .023-.062 in. (0.6-1.6 mm) Aluminum .040-.062 in. (1.0-1.6 mm) Cored wire .030-.062 in. (0.8-1.6 mm)

* Requires optional accessories

Panel (MMC) functions

- Process select
- 2/4 stroke – simplifies handling of the welding torch
- Gas pre/post flow
- Digital V/A meters
- Gas purge/wire inching
- Memory for 3-parameter set



Wear Parts

Wire Diameter (in.)	Wire Type	1 Feeder Roller	2 Inlet Nozzle	3 Intermediate Nozzle	4 Outlet Nozzle	Groove Type	Marking
.023 / .030	Fe, Ss, C	0459052001	0455049001	0455072002	0469837880	V	0.6 S2 / 0.8 S2
.030 / .035-.040	Fe, Ss, C	0459052002	0455049001	0455072002	0469837880	V	0.8 S2 / 1.0 S2
.035-.040 / .045*	Fe, Ss, C	0459 052003	0455049001	0455072002	0469837880	V	1.0 S2 / 1.2 S2
.052 / .063	Fe, Ss, C	0459052013	0455049001	0455072002	0469837880	V	1.4 S2 / 1.6 S2
.035-.040 / .045	C	0458825001	0455049001	0455072002	0469837880	V-K	1.0 R2 / 1.2 R2
.045 / .052	C	0458825002	0455049001	0455072002	0469837880	V-K	1.2 R2 / 1.4 R2
.063	C	0458825003	0455049001	0455072002	0469837880	V-K	1.6 R2
.030 / .035-.040	Al	0458824001	0455049001	0456615001	0469837881	U	0.8 A2 / 1.0 A2
3/64 / .062	Al	0458824003	0455049001	0456615001	0469837881	U	1.2 A2 / 1.6 A2

C = cored wire

* as delivered

K = knurled groove

ESAB Welding and Cutting Products

esabna.com / 1.800.ESAB.123

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Power Source Features

- Multi-voltage – ready to work anywhere
- Energy saving mode saves power
- Outstanding arc across total power range
- Robust power technology
- Dust filter to prevent grinding-dust and metal particles from entering the chassis (optional)
- Undercarriage standard



Power Source Accessories

Air filter.....0349302252
Electrode holder assembly QC – 15 ft.21226
Power source strain relief for connection cables ..0349311700
Cable and torch holder.....0349303362
Dual cylinder tray kit.....0349312780

Dual feeder switch over control for
Origo feed U60588001819
Work cable Assembly
15 ft. w/clamp 50 mm OK.....36253
22 ft. w/clamp 50 mm OK.....0558008683
MMC cable to power supply.....0458357885

Specifications

	4002c	6502c
Input voltage	230/460 V 3 ph 60 Hz	230/460 V 3 ph 60 Hz
Permitted load		
60% duty cycle	400 A / 34 V	650 A / 44 V
100% duty cycle	310 A / 30 V	500 A / 39 V
Primary current		
60% duty cycle	56/26 A	103/47 A
100% duty cycle	43/20 A	80/37A
Setting range (DC) GMAW/FCAW (MIG/MAG)	16–400 A / 8–60 V	16–650 A / 8–60 V
Setting range (STICK)	16-400A	16-650A
Open circuit voltage GMAW/FCAW (MIG/MAG)	62 V	62 V
Open circuit voltage SMAW (STICK)	68 V	68 V
Open circuit power	500 W	670 W
In energy saving mode, 15 min. after welding	60 W	60 W
Power factor at maximum current	0.88	0.90
Efficiency at maximum current	70%	76%
Control voltage	42 V, 50/60 Hz	42 V, 50/60 Hz
Dimensions L x W x H	32.6 x 25.1 x 32.8 in. (830 x 640 x 835 mm)	32.6 x 25.1 x 32.8 in. (830 x 640 x 835 mm)
Weight	328 lb (149 kg)	489 lb (222 kg)
Weight with cooling unit	359 lb (163 kg)	520 lb (236 kg)
Operating temperature	14 to 104°F (-10 to 40°C)	14 to 104°F (-10 to 40°C)
Enclosure class	IP 23	IP 23