

Origo™ Mig 4004i MV, A44

Origo™ Feed 3004, MA24

Multiprocess inverter set for high performance welding

- **Lower welding cost: lower energy consumption, excellent MIG/MAG CO₂ welding, low spatter welding – less rework**
- **Hig power/size ratio: 45kg/400A power source**
- **As much as 75% lighter and 70% smaller than conventional equipment**
- **Ergonomics: Intelligent design, comfortable, shoulder level reel replacement, cable winder and conveyor**
- **MultiVoltage: Automatic voltage recognition**
- **Voltage fluctuation protection system, longer equipment service life**
- **Environmental awareness: Reduced weight and size - less ferrous materials, energy efficiency - optimized consumption, CO₂ welding - lower argon emission levels**



A new generation of machines

Designed to meet market needs, Origo™ Mig 4004i MV, takes up to 70% less space at the worksite and is 75% lighter. Cart format provides mobility and allows it to fit practically anywhere ensuring easier access. Systems built based on inversion technology and featuring an economic ventilation system (stand-by function) results in optimized energy consumption, thus reducing power cost.

MultiVoltage technology (MV) provides for equipment protection against the frequent input supply fluctuations that are so common in industrial environments. The CAN communication system enables equipment software updates and including or excluding the best synergic lines for each application, assuring higher set versatility in different work circumstances.

Long working cycle, excellent CO₂ weldability, parameter selection through easy access memory or synergic lines are also some of the features offered by this set. LiveTig™ function provides smooth arc opening for welding different thickness plates without activating torch trigger and with no risk of part contamination.

MultiVoltage

The MultiVoltage (MV) system allows automatic input voltage recognition, and ensures a consistent output to run even when subject to variations of $\pm 10\%$ the

input supply to which it is connected. Capable of operating on any supply between 220 and 460Vac. Equipment unit power factor prevents excessive power losses, and allows use of lower cost electrical systems.

Multiprocess

MIG/MAG: manual control, synergic and QSet™; Tubular wire: high performance; Lined electrodes: electrode type selection; TIG: excellent arc opening with LiveTig™ function.

Health, Safety and Environment

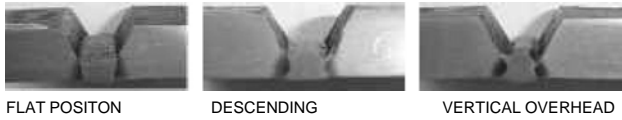
The design of the systems focuses on the safety and comfort of the operator during operation. Low energy consumption makes this machine ideal for companies that are looking to reduce energy consumption. The ergonomic trolley design makes movement of the system easy and the location of the wire feeder aids wire replacement. The trolley features wheel brakes, which allow the system to be locked into position for safety. Cable channels and securing hooks allow connection cables to be secured in position reduces the possibility of damage. The system is designed with no sharp corners to eliminate the risk of injury.

VRD

Reduces output voltage when the equipment is on stand-by mode. Assures higher welder safety levels, minimizing electric shock risks.

QSet™

The QSet™ technology monitors the short-circuit welding parameters, and optimization happens after just a few seconds, ensuring total arc stability in different positions. Therefore, the QSet™ is the prime choice for root pass welding of pipelines, assuring uniform penetration in all welding positions and defect free welds, passing 100% of non destructive tests, such as X-ray and ultrasound.



Wire: OKTubrod 70MC 1.0 mm/Gas: 75%Ar + 25%CO

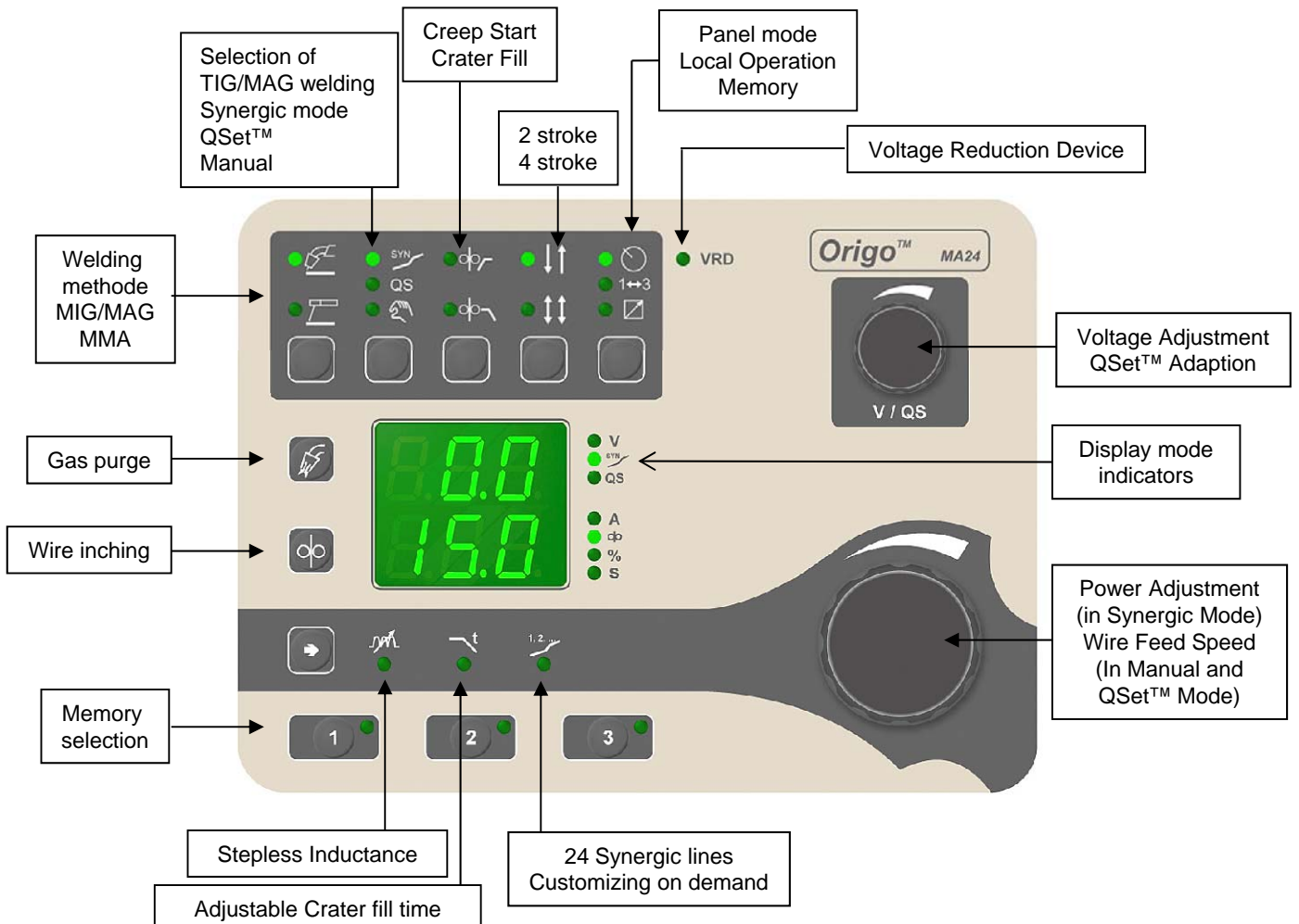
QSet™ may also be used by welders with limited experience in the MAG/MAG process once arc stability is ensured even with constant stick-out variation.

Panel MA24

Complete for MIG/MAG welding in high performance applications, including the manual, synergic and QSet™ welding modes. This panel is assembled on the four-pulley wire feeder Origo™ Feed 3004. Featuring a remote auxiliary socket, this feeder allows interfacing with mechanized welding systems.

Panel A44

Especially designed for lined electrode welding, this panel is power source-mounted. It features an electrode selection button (basic, rutile and cellulosic), Hot-Start and Arc Force adjustment, besides the TIG and MIG/MAG modes for use of MobileFeed 300AVS suitcase - type feeder.



Technical data Origo™ Mig 4004i MV

Mains Supply

Supply voltage	3Ø, 220 to 460 Vac
Supply frequency	50/60 Hz
Fuse, slow A,	40

Permissible load at

220 Vac	350A @ 60%
	300A @ 100%
380 to 460 Vac	400A @ 60%
	300A @ 100%

Setting range, A

MIG/MAG	20-400
MMA	16-400
TIG	4-400

Mains cable	4x10 mm ²
Voltage at no load	60 VDC
Rated power	16 kVA
Power factor at max current	0.95
Efficiency at max. current %	88
Control voltage	42 Vac

Dimensions LxWxH mm	610 x 250 x 445
with cooling unit lxwxh, mm	610 x 250 x 675

Weight, kg

Operating Temperature, °C	-10 - +40
Enclosure class	IP23
Application class	S



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Technical data Origo™ Feed 3004, MA24

Mains Supply

Supply voltage	42 Vac
Wire reel capacity	18 kg/30 kg*
Max. wire spool capacity	300 mm
Pull mechanism	4
Wire feed speed	0.8-25.0 m/min
Dimensions (WxLxH)	275x690x420 mm
Weight, kg	15**

Wire diameters, mm

Solid wire	0.6-1.6
Aluminium	1.0-1.6
Tubular	0.8-1.6

* Requires use of wire support for 30 kg

** without wire reel

Technical data MobileFeed 300AVS

Mains Supply

Supply voltage	17-100 Vdc
Wire reel capacity	18 kg
Max. wire spool capacity	300 mm
Pull mechanism	4
Wire feed speed	2.0-20 m/min
Dimensions (WxLxH)	217x526x437 mm
Weight, kg	15*

Wire diameters, mm

Solid wire	0.6-1.6
Aluminium	1.2-1.6
Tubular	0.8-2.0

* Requires use of wire support for 30 kg



MobileFeed 300AVS

Technical data MIG/MAG Torches

Model	Wire, mm	Current at work cycle	
		CO ₂	Air+CO ₂
MXL™ 200	0.6 -1.0	180A at 60%	150A at 60%
MXL™ 270	0.8-1.2	230A at 60%	200A at 60%
MXL™ 340	0.8 -1.2	300A at 60%	270A at 60%
MXL™ 400	1.0 -1.6	360A at 60%	320A at 60%
MXL™ 500	1.0 -2.0	360A at 60%	330A at 60%

Ordering information, MIG/MAG Torches

MIG/MAG Torches 2 m (for aluminium welding)

MIG/MAG Torch MXL™ 270AL	0910001
MIG/MAG Torch MXL™ 400AL	0906271

MIG/MAG Torches

	3 m	4 m
MXL™ 200	0905980	0909323
MXL™ 270	0905981	0908794
MXL™ 340	0905982	0908795
MXL™ 400	0906272	0908796
MXL™ 500	0908798	0908797

MIG/MAG Torch

	5 m
MXL™ 500	0910342

Ordering information, TIG Torches

Torch 26V (3.5 m)	0726181
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Origo™ Mig 4004i MV trolley

Ordering information, power source and wire feeder

Power Sources

Origo™ Mig 4004i MV, A44	0404110
Mig 4004i MV	0404185

Wire Feeders

Origo™ Feed 3004, MA24	0404157
MobileFeed 300 AVS	0403858

Ordering information, Interconnection cables

MIG/MAG welding cables for Origo™ Feed 3004

2m	0404128
5m	0404129
10m	0404130
15m	0404131
25m	0404132
35m	0404133

MIG/MAG welding cables for MobileFeed

2m	0404168
5m	0404169
10m	0404180
15m	0404181
25m	0404182
35m	0404183

Cables for Lined Electrode Welding

400A (5m) ER	0400719
400A (10m) ER	0402021
400A (15m) ER	0402860
400A (25m) ER	0402144

Remote Controls and Cables

Remote Control MTA1 CAN	0910648
Remote Control Cable (5m)	0910649
Remote Control Cable (10m)	0910670
Remote Control Cable (25m)	0910672

Trolley

Origo™ Mig 4004i MV Trolley	0404127
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Pulley Kit

Pulley Kit and guides for aluminium wire	
0.8-1.0 mm	0401240
1.2-1.6 mm	0401241



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