

Orbimax

MX Series Industrial MIG/MAG Welders



SMART + SIMPLE

Introducing the Orbimax MX Series of industrial-grade MIG/MAG Welders.

Orbimax Industrial MIG Welders are Smart + Simple, designed with the future of welding in mind but with simplicity at the core.

German made and refined for the Australian welding industry.

MX Series At A Glance...

SMART + SIMPLE

GET ON WITH THE JOB AHEAD AND TAKE YOUR WELDING TO THE NEXT LEVEL. INTRODUCING THE ORBIMAX MX SERIES OF MIG PULSE WELDERS - DESIGNED FOR THE TRADITIONAL WELDER AND WORKSHOP WHERE YOU NEED A MACHINE THAT WORKS ALL DAY.

Built tough for the traditional welder, the MX Series are designed with simple step switch configuration, but also add in synergic lines and stepless adjustment.

Whether increasing weld performance, improving weld quality and consistency by reducing rework, or responsible health protection through fume reduction - the regulated Focus Arc welding processes on the Orbimax MX range of MIG welding machines ensure your competitive advantage.

FOCUS ARC WELDING PROCESS

Weld up to 30% faster with a short, powerful regulated arc improving weld quality, reducing spatter, fumes, and the need for rework. Increasing performance and providing better health protection. Focus Arc can be activated with the touch of a button, giving you superior visibility, control and less faults.

GERMAN MADE QUALITY

MAXIMUM CONTROL AND QUALITY TO ACHIEVE THE PERFECT WELD.

Built tough with industry-leading features backed by quality German made components. The Orbimax MX Series MIG Welders are Smart + Simple. Putting you in control while giving you the flexibility to perfect your weld.



SYNERGIC FUNCTIONS

Assist in setting up your weld program automatically by selecting material type and thickness. Reduces the time spent in achieving the perfect weld.

STEPLESS DYNAMIC INDUCTANCE (SDI)

Achieve a highly stable arc with adjustable throttling, allowing you to increase or reduce heat input, resulting in less spatter and a better weld finish.

SMART MACHINE CONTROL (SMC)

Smart Machine Control gives the user precise control of the arc length achieving safe and easy welder parameters. Constant arc length – the arc length is kept consistent due to the integrated microprocessor that compensates for changes quickly.

MAINS VOLTAGE COMPENSATION

The Orbimax MX Range automatically detects fluctuations in the mains voltage and adjusts the power parameters automatically according to the mains voltage.



Setting the standard in modern MIG welding

WELD FASTER WITH BETTER QUALITY

The MX Series Industrial MIG welders introduce exclusive Focus Arc* technology letting you weld up to 30% faster with a short, powerful regulated arc improving weld quality, reducing spatter, fumes, and the need for rework.

When combined with Stepless Dynamic Inductance you have precise control of the arc length which not only measures the arc voltage and welding current but also digitally monitoring the wire feed speed. All meaning you can weld faster with better quality.

*Excludes base model MX 251.

REDUCE REWORK

With controlled heat input, improved visibility and more control of the welding arc less faults occur which means less rework .

SAFER WORKING ENVIRONMENT

Create a safer working environment with up to 70% reduction in toxic welding fumes.



- 1 Digital voltage display with hold function.
- 2 Digital welding current display with hold function and material thickness control.
- 3 Operating modes including material thickness, 2 cycle, 4 cycle, spotweld and time interval.
- 4 Setting the spot-weld and time interval.
- 5 Rotary dial for wire speed rate and arc length correction.
- 6 Synergic program selection including material and wire diameter combination plus manual operation.
- 7 Stepless Dynamic Inductance arc strength regulation (SDI).
- 8 Coarse step switch.
- 9 Fine step switch.
- 10 Focus Arc switching (on/off)

Highlights

The Orbimax MX Series of MIG welding machines offer high-level welding results with safe, user-friendly operation. Focus Arc can be activated with the touch of a button*, giving you a short, powerful arc increasing weld speeds and reducing fumes.

*Excludes base model MX 251.

SMART + SIMPLE

Orbimax Industrial MIG welders are Smart + Simple, designed with the future of welding in mind, but with simplicity at the core.

Key Features

The Orbimax MIG welding range come with industry-leading specs to give you a competitive advantage. Built tough for the Australian market with high quality German made components, giving you the confidence to get on with the job ahead, knowing your equipment is up to the task.



FOCUS ARC

Increase productivity with higher deposition rates. Welding with a short powerful arc, improving quality, visibility, less faults and improved arc control.

*Excludes base model MX 251.



MORE USER FRIENDLY

Simplified operation of processes, with easy-to-use navigation.



REAL TIME SPEED CONTROL

Real-time electronic monitoring and precise control of wire feed speed.



STEPLESS DYNAMIC INDUCTANCE (SDI)

SDI allows for fine-tuning of the arc ideal for welding thin materials.



CHARACTERISTIC CURVE MEMORY (CCM)

Integrated welding parameter database with stored characteristic curves provides the appropriate welding parameters for all welding tasks.



PENETRATION STABILISER

Detects changes and automatically corrects arc power, resulting in a uniform penetration when welding out of position.



SMART MACHINE CONTROL (SMC)

Provides intelligent control of the welding machine leading to excellent welding results and improved efficiency.



DUTY CYCLE

Best in class industry-leading duty cycle of 100% @ 260A (MX 404) and 100% @ 320A (MX 504)



WATER COOLED OPTION

Choose from a water cooled or gas cooled options across the range.

MX 251 | 351 | 402

Smart and simple - The Orbimax MX Series is designed for the traditional welder or workshop where you need a heavy duty industrial machine that welds all day.

With Smart Machine Control (SMC) the Orbimax MX Series MIG welders provide excellent welding results and simple, safe operation. Stepless Dynamic Inductance (SDI) gives you excellent ignition and a stable arc even when welding thin materials. With a welding range of up to 500A, with mains voltage compensation, meaning the arc automatically adapts to the input voltage.



	MX-251 CORE	MX-351 CORE	MX-402 CORE
PROCESS	MIG + MAG	MIG + MAG	MIG + MAG
WELDING CURRENT	DC	DC	DC
WELDING RANGE	15-250A	35-350A	40-400A
POWER			
DUTY CYCLE	100% @ 140A 35% @ 250A	100% @ 210A 35% @ 350A	100% @ 260A 35% @ 400A
WIRE FEED	4 ROLLERS		4 ROLLERS
PROTECTION TYPE	IP 21	IP 21	IP 21
SWITCHING STEP CHANGES	10	12	20
DIGITAL CONTROL PANEL	⊖	⊖	⊖
WELDING CABLE SOCKET	13MM	13MM	13MM
SPOT WELD & INTERVAL WELD FUNCTION	✓	✓	✓
SMART MACHINE CONTROL (SMC)	✓	✓	✓
REAL TIME SPEED CONTROL	✓	✓	✓
FOCUS ARC	⊖	⊖	⊖
PENETRATION STABILISER	✓	✓	✓
COOLING	GAS	GAS	GAS / WATER
FUSE	16A	32A	32A
WEIGHT	64KG	69KG	78KG
DIMENSIONS (L X W X H) COMPACT (GAS COOLED) COMPACT (WATER COOLED)	800 X 330 X 620MM		877 X 357 X 660MM 877 X 357 X 660MM

MX 404 | 504

Step up to serious power with Focus Arc welding technology and the durability that is expected of a heavy-duty workshop welding machine.



	MX-404 EDGE	MX-504 EDGE
PROCESS	MIG + MAG	MIG + MAG
WELDING CURRENT	DC	DC
WELDING RANGE	40-400A	40-500A
POWER	50HZ	50HZ
DUTY CYCLE	100% @260A 40% @ 400A	100% @ 320 A 40% @ 500 A
WIRE FEED	4 ROLLERS	
PROTECTION TYPE	IP 23	IP 23
SWITCHING STEP CHANGES	20	30
DIGITAL CONTROL PANEL	☹	☹
WELDING CABLE SOCKET	13MM	13MM
SPOT WELD & INTERVAL WELD FUNCTION	✔	✔
SMART MACHINE CONTROL (SMC)	✔	✔
REAL TIME SPEED CONTROL	✔	✔
FOCUS ARC	✔	✔
PENETRATION STABILISER	✔	✔
COOLING	GAS / WATER	GAS / WATER
FUSE	32A	32A
WEIGHT	MAX 157KG	MAX 162KG
DIMENSIONS (L X W X H) COMPACT (GAS COOLED) COMPACT (WATER COOLED) WITH WIRE FEED UNIT	1040 X 560 X 850MM 1040 X 560 X 850MM 1040 X 560 X 1400MM	

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