X3 MIG Welder

Tough and reliable

Made in Finland

And you know.
X3 MIG Welder

Powerful tool for serious welders

X3 MIG Welder is a trustworthy partner for a serious welder. It is a hard-boiled inverter-based MIG/MAG welding machine by the Finnish manufacturer of quality welding equipment, Kemppi – the number one pioneer in energy-efficient welding inverter technology in the world.

X3 MIG Welder is a welding system consisting of a power source that is available in two power options: 400 and 500 A, a wire feeder for 300 mm wire spools, and Kemppi’s MMT welding gun with a Euro connection. Different cable lengths and wheel sets are available as an option.

The machine connects to any 380-440-volt 3-phase mains supply. It can be used for gas-cooled MIG/MAG welding, and it accepts a wide range of filler wire diameters from 0.8 to 1.6 mm, and with cored wires up to 2.0 mm. The power source also supports carbon arc gouging* in both 400 and 500 amperage models.

The MIG/MAG process has been carefully tuned at Kemppi welding lab to give the welding arc an outstanding stability. This makes the arc easy to manage and minimizes the amount of spatter.

The arc stability and weld quality are easily achieved also with inexpensive CO₂ shielding gas. With less spatter, the time needed for post-weld grinding is reduced, and the welders can focus entirely on productive welding.

* Not available in Australia and New Zealand

KEY BENEFITS

EXCELLENT PERFORMANCE
Delivers up to 500 amperes at 60 % duty cycle. Easy arc control, also with CO₂ shielding gas. Adds cost-efficiency to welding production.

SIMPLE TO USE
User interface is designed for quick and easy use. Welders can concentrate on creating quality welds.

EASY TO MOVE
Ergonomically positioned handles and light weight. Optional wheel sets available. No valuable production time wasted on hardware transfer.
KEY FEATURES

X3 POWER SOURCE

Excellent arc stability thanks to carefully tuned MIG/MAG welding process and the special functions that you can use to fine-tune the start and the end of the weld.

Large power reserves and high duty cycles enable efficient use of carbon arc gouging* with both 400 and 500 amperage models.

Arc dynamics are simply set at the press of a button for either Argon/CO₂ gas or pure CO₂, ensuring you get the best welding characteristics for the shielding gas used.

IGBT inverter technology adds reliability and reduces energy costs, improving profitability.

Two optional wheel sets available for further facilitate the transfer of the machine.

A 110-volt auxiliary voltage supply is available for CO₂ shielding gas heater.

PRODUCTIVITY FUNCTIONS

Crater fil operation reduces the voltage level at the end of the weld, ensuring the best arc control right to the finish. The end of the weld is nice and clean, making it easy to start the next weld without wasting welder’s time in grinding.

Burn back function prevents filler wire from sticking to the work piece at the end of weld, making it easier to continue welding.

Hot stop function makes tack welding easier and faster.

Soft start ignition stabilizes the arc quickly and minimizes the spatter. Soft start operation is available for experienced welders, who appreciate more vigorous start and want to get to action immediately.

Hard ignition option is available for experienced welders, who appreciate more vigorous start and want to get to action immediately.

Creep start function prevents disturbances at the start of the weld by slowing down the wire feed speed just before the arc ignites.

X3 WIRE FEEDER

X3 Wire Feeder is not afraid rough handling. The fully enclosed and impact resistant dual-skin cabinet offers protection for the wire spool and wire feed mechanism.

Easy movement to work location and adjustment of voltage and wire feed speed remotely from the work place.

Undisturbed wire feed is ensured by the strong, 4-roll DuraTorque wire feed mechanism.

EURO gun connection and a selection of different length Kemppi MMT gas-cooled welding guns available.

KEY APPLICATIONS

STEEL STRUCTURES  MECHANICAL ENGINEERING  SHIPBUILDING
## TECHNICAL DATA

<table>
<thead>
<tr>
<th>Power Sources</th>
<th>400</th>
<th>500</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mains connection voltage 3~ 50/60 Hz</td>
<td>380 – 440 V (–10…+10 %)</td>
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</tr>
<tr>
<td>Open circuit voltage</td>
<td>52 – 57 V</td>
<td>57 – 62 V</td>
</tr>
<tr>
<td>Fuse</td>
<td>25 A</td>
<td>32 A</td>
</tr>
<tr>
<td>Output</td>
<td>400 A / 34 V</td>
<td>500 A / 39.0 V</td>
</tr>
<tr>
<td>Welding current and voltage range</td>
<td>25 A/15 V - 400 A/38V</td>
<td>25 A/15 V - 500 A/43 V</td>
</tr>
<tr>
<td>Operating temperature range</td>
<td>-20…+40 °C</td>
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</tr>
<tr>
<td>EMC class</td>
<td>A</td>
<td>A</td>
</tr>
<tr>
<td>Degree of protection</td>
<td>IP 23S</td>
<td>IP 23S</td>
</tr>
<tr>
<td>External dimensions L x W x H</td>
<td>629 x 230 x 414 mm</td>
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</tr>
<tr>
<td>Standards</td>
<td>IEC 60974-1</td>
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</tr>
</tbody>
</table>

## X3 Wire Feeder 300

| Gun connection | Euro |
| Wire feed mechanism | 4-roll |
| Filler wires | Fe 0.6…1.6 mm |
| | MC/FC 0.8…2.0 mm |
| Wire feed speed | 0…25 m/min |
| Wire spool weight (max) | 20 kg |
| Wire spool diameter (max) | 300 mm |
| Operating temperature range | -20…+40 °C |
| Degree of protection | IP 23S |
| External dimensions L x W x H | 590 x 240 x 445 mm |
| Standards | IEC 60974-5 |

## ORDERING INFORMATION

### Power sources
- X3 Power Source 400: X31004000
- X3 Power Source 400 AU: X31004000AU
- X3 Power Source 500: X31005000

### Wire feeder
- X3 Wire Feeder 300: X31003000

### Transport units
- P 20 transport unit: 6185261

### Accessories
- X3 Wire Feeder mounting plate: X37000003
- X3 Wheel Set: X37000001
- X3 Four Wheel Set: X37000002

### MIG guns
- MMT 42; 3 m: 6254213MMT
- MMT 42; 4.5 m: 6254214MMT

### Cables
- Interconnection cable 50-1,8-G: 6260508
- Interconnection cable 70-1,8-G: 6260518
- Interconnection cable 50-5-G: 6260500
- Interconnection cable 70-5-G: 6260501
- Interconnection cable 50-10-G: 6260513
- Interconnection cable 70-10-G: 6260514
- Interconnection cable 50-15-G: 6260515
- Interconnection cable 70-15-G: 6260516
- Interconnection cable 70-20-G: 6260523
- Interconnection cable 70-30-G: 6260633
- Extension cable 70-10-G: 6310710
- Extension cable 70-15-G: 6310715
- Extension cable 50-10-G: 6310510
- Extension cable 50-15-G: 6310515
- Earth return cable 50mm2 5m: 6184511
- Earth return cable 70mm2 5m: 6184711

Using the P 20 transport unit and the X3 Wire Feeder mounting kit you can move the welding set and the gas cylinder conveniently as a whole.
When working in tough conditions at a construction site, shipyard or a metal fabrication workshop, or doing maintenance welding on a pipeline site in extreme temperatures, you need a companion that you can fully trust on.

X3 Wire Feeder offers precise adjustment for voltage and wire feed speed. Wire inch function is included as standard.

X3 Power Source has a large back lit LCD display that clearly presents the preset wire feed speed and welding voltage parameters.
Kemppi Industrial MIG Series

Kemppi is the pioneering company within the welding industry. It is our role to develop solutions that make you win business. Headquartered in Lahti, Finland, Kemppi employs over 600 welding experts in 13 countries and has a revenue of more than 110 MEUR. Our offering includes welding solutions - intelligent equipment, welding management software and expert services - for both demanding industrial applications and ready-to-weld needs. Local expertise is available via our global partner network covering over 60 countries.

www.kemppi.com