

KEMPPI MINISYSTEM



**Superior power
to weight ratio**

KEMPPI MINISYSTEM A

The Kemppi Multisystem has for many years been the most advanced, flexible and efficient system for use in middle to heavy range production welding. Now Kemppi with its new high-tech product the Minisystem offers the same opportunities to light duty production welding.

Minisystem – flexibility

Several equipment suppliers have for years been developing small and light weight power sources for MMA welding.

Kemppi has traditionally set its targets higher and with the Minisystem have developed a quality system that welds in all methods.

Minisystem is a complete product family for MMA, TIG and MIG/MAG welding, inverter based giving high technical control of welding parameters.

The system consists of the following compact welding equipment.

Equipment For Single Phase Supply

- MMA Power Source
- MMA/TIG Welding equipment with PROSTART contact ignition
- MMA/MIG/MAG Welding equipment for 5kg spool
- MMA/TIG/MIG/MAG "Trio" Multi-purpose welding equipment

Equipment For Three Phase Supply

- MMA Power Source
- MMA/TIG Welding equipment with PROSTART contact or HF ignition
- MMA/MIG/MAG Welding equipment for 15/20kg spool
- MMA/TIG/MIG/MAG "Trio" Multi-purpose welding equipment

The Minisystem also includes a wide range of accessories such as remote control, pulse TIG unit and transport/gas bottle console.

Minisystem – light weight

Utilising the latest inverter technology the power to weight ratio has increased even more.

The basic MMA power source in the 150A range weighs only 14kg and the 240A range only 17kg, in fact when using TIG or MIG/MAG the size of the gas bottle determines the overall manouverability of the equipment not the power source.

Minisystem – first class welding results

Despite the small size of the Minisystem the welding characteristics are excellent giving high quality welds.

With the Minisystem you can always choose the optimal welding method to suit the application ensuring first class welding results.

After using the Minisystem you will consider your other welding equipment antique.

Minisystem – fatigue free

All components in Minisystem are built and designed for high work cycles over many years with minimum maintenance.

Minisystem can take short-circuits, voltage fluctuations and overloads.

The in-built protection circuits ensure the machine remains undamaged and safe under these extreme conditions.

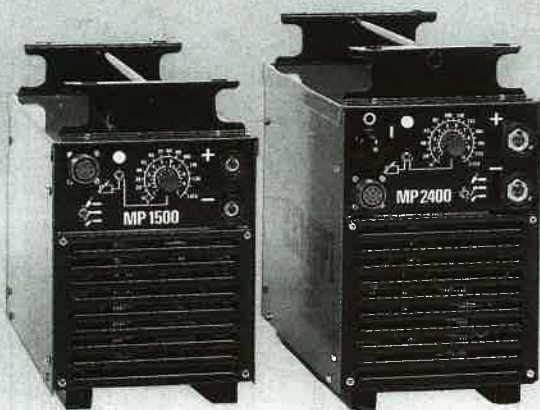
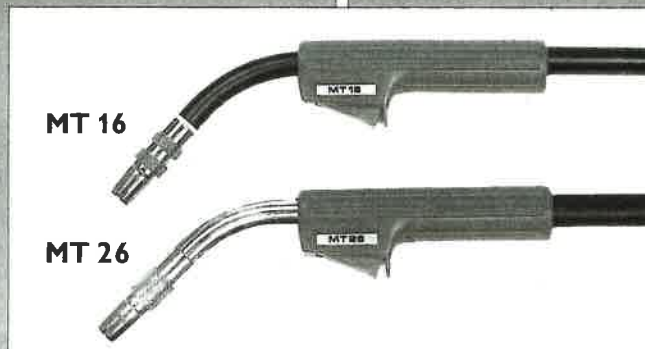
Minisystem – high standards

Kemppi quality is well known throughout the world. At Kemppi the most important of our quality criteria is customer satisfaction.

The ergonomics and excellent welding characteristics that are an essential part of Kemppis' quality assurance. Minisystem offers quality welding to set parameters in all standard environmental conditions.

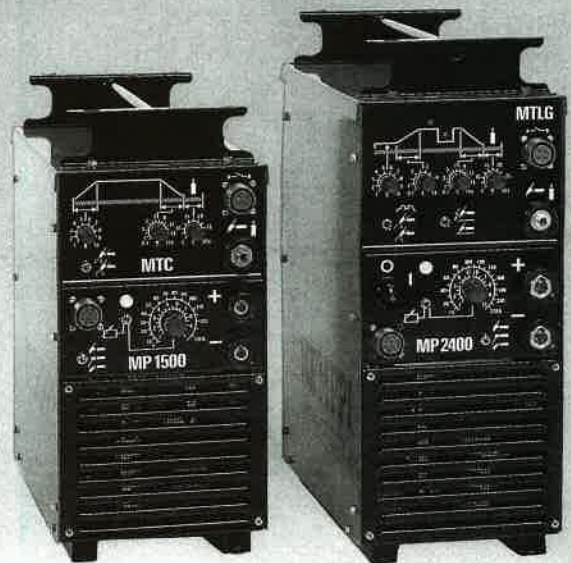
It is the superior equipment in its power and weight class.

LIGHT DUTY REVOLU



Minisystem - MMA welding

Due to the small physical size and weight (MP 1500 14kg, MP2400 17kg) the Minisystem MMA power source is easily transported and can be carried to any welding position for light production site work or maintenance with the added flexibility of the MP 1500 that can operate from a single phase supply.



Minisystem - MMA/TIG welding

For demanding TIG welding applications the Minisystem offers two excellent packages:

- **MINISYSTEM MP 1500 TIG** is equipped with the new PROSTART contact ignition which does not damage the electrode or generate HF interference. It is complete with up and down slope, post gas flow and latching function. Remote control and pulse unit can be connected as optional.

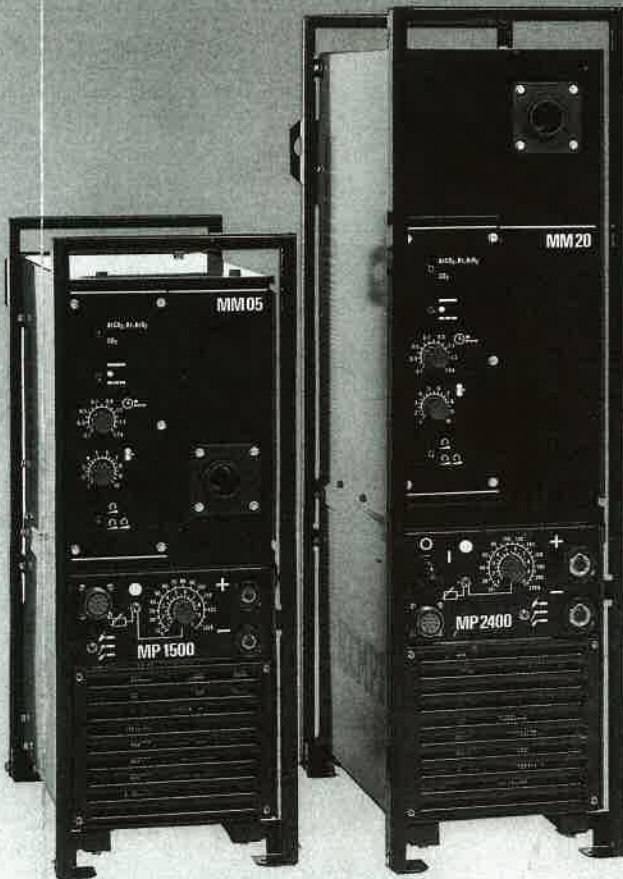
- **MINISYSTEM MP 2400 TIG** is equipped with the option of HF pulsed or PROSTART contact ignition.

✳ It is complete with the minilog control including up and down slope, post gas flow and latching function.

Remote control pre-set programmes and pulse units can be connected as optional.

UTION

Weights
only 14 kg

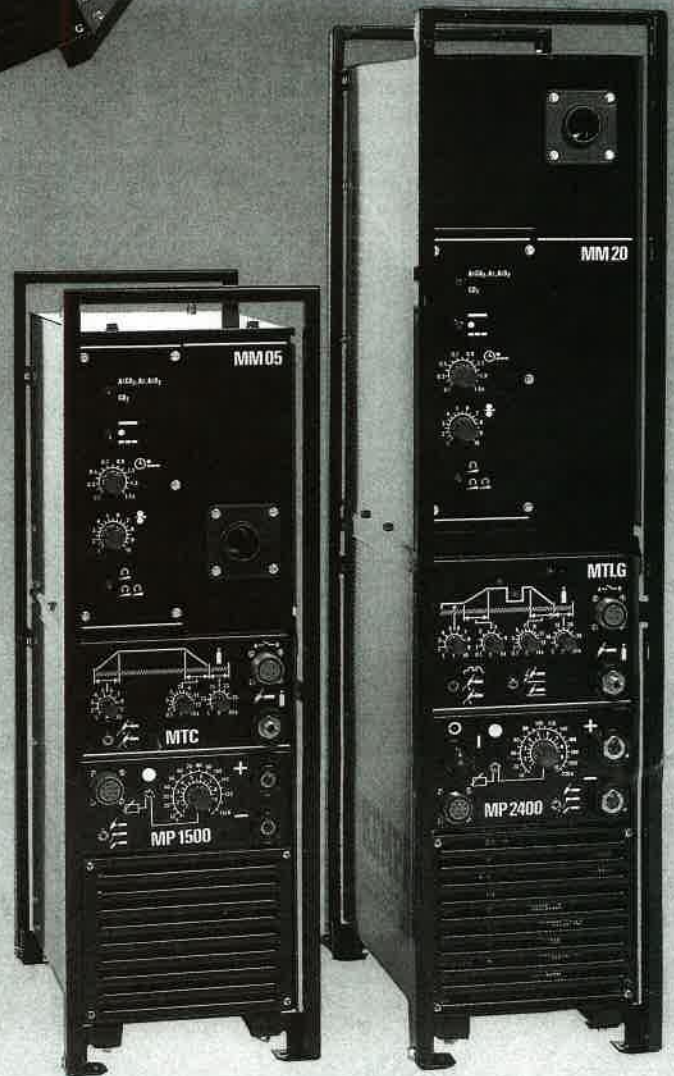


Minisystem – MMA/MIG/MAG welding

Productivity is important when choosing welding method and parameters, especially when welding thin gauge materials.

This is where the MINISYSTEM really scores – the welding characteristics are excellent and with real one knob control (developed by Kemppi) of the wire feed speed and voltage, easy adjustment can be made to the welding parameters – even during welding. Two light weight high powered Minisystem packages are available:

- MINISYSTEM MP 1500 MIG fitted complete for the 5kg/200mm spools.
- MINISYSTEM MP 2400 MIG fitted complete for 15/20kg/300mm spools.



Minisystem – MMA/ TIG/MIG/MAG welding

The complete Minisystem welding package, offering all three welding methods is ideal for technical training colleges, site work, small workshops, maintenance, and is offered in two packages:

- MINISYSTEM MP 1500 TRIO complete welding unit up to 150A with 240 Volt single phase.
- MINISYSTEM MP 2400 TRIO complete welding unit up to 240A.

Minisystem – undercarriage

For the complete welding package where the Minisystem, gas bottles, torches, cables etc., have to be mobile, we have designed three efficient transport units:



M40 Undercarriage with four wheels and provision for 2 gas bottles



T12 Undercarriage with two wheels



M20 Undercarriage with four wheels

MINISYSTEM UNDERCARRIAGE

| Undercarriage | MP 1500 TIG | MP 2400 TIG | MP 1500 MIG | MP 2400 MIG | MP 1500 TRIO | MP 2400 TRIO |
|---------------|-------------|-------------|-------------|-------------|--------------|--------------|
| T 12 | X | X | X | X | (X) | — |
| M 20 | X | X | X | X | X | X |
| M 40 | (X) | (X) | (X) | (X) | X | X |

| MINISYSTEM TECHNICAL DATA | | Minisystem 1500 | Minisystem 2400 | |
|---------------------------|-------------|------------------|------------------|-----------|
| Connection voltage | V | 208-240, 1-phase | 380-415, 3-phase | |
| | 50-60Hz | | | |
| Fuses, delayed | A | 16 | 10 | |
| Open circuit voltage | V | 72 (36)* | 72 (36)* | |
| Current range, MMA | A/V | 15/20....130/26 | 15/20....220/29 | |
| | TIG A/V | 5/10....150/16 | 5/10....240/20 | |
| | MIG/MAG A/V | 15/14....150/22 | 15/14....230/26 | |
| Duty cycle ED | A/% | 130/20 | 240/20 | |
| | A/% | 75/60 | 140/60 | |
| | A/% | 58/100 | 110/100 | |
| MIG-filler wires, Fe | mm | 0.6-0.8 | 0.6-1.0 | |
| | Ss | mm | 0.8-1.0 | |
| | Al | mm | 1.0-1.2 | |
| Dimensions with frames | | | | |
| | Length/mm | Width/mm | Height/mm | Weight/kg |
| MP 1500 | 405 | 212 | 327 | 14 |
| MP 1500 TIG | 405 | 212 | 440 | 18 |
| MP 1500 MIG | 434 | 236 | 618 | 19 |
| MP 1500 TRIO | 434 | 236 | 728 | 27 |
| MP 2400 | 395 | 212 | 362 | 17 |
| MP 2400 TIG | 395 | 212 | 510 | 23 |
| MP 2400 MIG | 434 | 236 | 831 | 26 |
| MP 2400 TRIO | 434 | 236 | 978 | 36 |

*) If necessary connection to 36 V open circuit voltage