



product code:

MASTERMIG250PFCSYNERGY

Standard equipped: • MasterMIG 250PFC • 3m work clamp • Gas hose • User's manual

Product variants

| Index | Price |
|-------------------------------|---|
| MasterMIG 250PFC | €858.09 / pc |
| MASTERMIG250PFCSYNERGY | VAT 23% €1,055.45 / pc |

Product description

SYNERGY MIG 3 in 1

SPARTUS® MasterMIG 250PFC is a professional, portable, multi-process welding semi-automatic machine. It enables MIG/MAG, TIG and MMA welding with maximum welding current of 250A. The unit is powered from a single-phase network 230V.

The machine was produced with using of modern solutions such as inverter technology, IGBT power transistors, MCU controller, PWM technology, PFC filter. All of our technology solutions provide stable output performance under a variety of conditions, which has a direct effect on outstanding arc characteristics and welded joint quality.

The machine has a number of functions that support MIG / MAG welding processes:

- **Synergistic MIG/MAG welding mode: 20 dedicated programmes.**
- **Wave Control** – precise arc dynamics adjustment Wave control ensures full control over the welding arc: it allows to reduce the amount of welding splashes and controls the width and depth of fusion.
- **Burn Back** – precise adjustment of welding wire burning speed allows limit a risk of sticking the welding wire to the contact tip.
- **Slow Feed** – so called gentle start-up of the wire feeder, recommended especially during welding with high amperage and high speed of wire feed. Smooth start of wire feed eliminates the risk of welding defects at the beginning of the weld.
- **2T / 4T** – Choice of one of two operating modes.
- **Spool Gun** – possibility of welding with type Spool Gun welding holder.

The SPARTUS® MasterMIG 250PFC also has a number of features that support TIG welding processes (2T/4T mode, current falling speed adjustment, post-gas) and MMA (Hot Start for easier electrode ignition, Arc Force for easier welding in forced positions, VRD lower no-load voltage). Functional panel is equipped with a 480x320px colour LCD with an intuitive user interface. It is possible to choose one of several language versions of the control software (English, German, Czech, Slovak, Lithuanian, Spanish, Portuguese, Russian, French, Serbian, Polish). By default, the Polish language version of the interface is set.

SPARTUS® MasterMIG 250PFC is equipped with a professional four-roll wire feeder, which allows you to work with a long welding handle regardless of the type of wire used. Despite the small compact size and weight, the machine is compatible with standard spools with welding wire D200 and D300 weighing up to 15kg.

Examples of applications: workshop work, renovation works in the field, automotive – welding of galvanized car bodies (brazing), muffler welding, production sector, light industry.

Technical details

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|--------------------------|--|
| Input | ~1× 230V ± 10% 50 / 60 Hz |
| MIG welding current | 25 - 250A |
| MIG duty cycle | 60% |
| Output working voltage | 15.3 - 26.5V |
| Wire feeder | built-in, 4-roll gear |
| Wire feeding speed | 2.5 - 16.5m/min |
| Welding wire spool | ≤ 15kg / Ø200/300mm |
| Wire diameter | 0.6, 0.8, 1.0, 1.2mm |
| Synergy | yes |
| 2T/4T Control | yes |
| Additional MIG functions | Burn Back, brazing (CuSi3), Pre-gas, Post-gas, synergistic program, inductance control, spool gun, Slow Feed, Wave Control |
| TIG Lift | yes |
| TIG welding current | 10 - 250A |
| Down slope | 0 - 10s |
| MMA welding current | 10 - 250A |
| Arc Force | yes |
| Hot Start | yes |
| VRD | yes |
| Current consumpition | MIG 35A / MMA 40A / TIG 28A |
| Power factor (cosφ) | 0.99 |
| Efficiency η | 85% |
| Insulation class | H |
| Protection class | IP23 |
| Weight | 25kg |
| Dimensions | 620 x 240 x 450mm |