

FACT SHEET

Pico 200 cel Puls

all in

- / MMA welding
- / MMA and TIG puls
- / TIG lift arc welding
- / spotArc®
- / Cel characteristics
- / Rutile characteristics
- / Basic characteristics
- / Arcforce (adjustable)
- / Hot start (adjustable)
- / Antistick



Product description

- MMA welding machine with pulse function
- Safe welding of cellulose electrodes
- Multivolt/multivoltage capable Can be used worldwide thanks to automatic adjustment of mains voltage (110 V–120 V / 230 V)
- High-efficiency power consumption thanks to integrated PFC (Power Factor Correction) technology

Welding procedures and functions

- MMA welding
- **MMA and pulsed TIG welding:** Simple positional welding thanks to continuous welding current fluctuation
- **TIG lift arc welding:** Simple ignition of the arc without HF by pulling up the welding torch electrode after touching the workpiece
- **spotArc®** Minimises the time required for tacking and spot welding thanks to individual triggering of the tack points with the torch trigger
- **Cel characteristic:** 100% reliable vertical down welding with all cellulose electrodes.
- **Arcforce:** Active power control for constant penetration conditions and secure root fusion, even when positional welding and welding in hard-to-reach spots
- **Hot start:** Prevents lack of fusion at the start of the weld seam by briefly increasing the current when welding begins
- **Antistick:** Prevents the electrode from annealing by briefly switching off the welding current

▷ Please refer to the components for configuring the welding site equipment on page 3

Product benefits

- Cellulose electrodes (Cel characteristic): 100% safe for vertical-down welding
- Unlimited generator operation even with long mains leads thanks to high mains voltage tolerances
- Robust design which is ideal for construction sites thanks to its housing with impact-resistant plastic cover
- Connection capability for remote control
- Energy-saving thanks to high efficiency (84%) and the standby function
- Protective cap provided as standard protects the control against water, dirt and impact
- Splash-proof in line with IP23
- Temperature- and speed-controlled cooling fan – reduces contamination and noise emission, as the fan only runs when needed
- Storage compartment in the handle – smaller tools always stored safely and ready to hand
- Cable holder for holding mains cable as standard
- 3.5 m mains lead with a 16 A earthed plug

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Control



MMA Pro mini

- Settings visible at a glance thanks to illuminated symbols
- Easy changing of settings with one-knob operation via a click wheel with welding data display
- Selection of the MMA characteristic is possible by presetting via push-button (Rutile, Basic, Cel)
- Welding procedures MMA, TIG-Lift arc or spotArc adjustable via push-button
- Average value pulsing

Technical data

| | MMA | TIG |
|---|---|--------------|
| Welding current setting range at 230 V | 5 A – 200 A | 5 A – 220 A |
| Welding current setting range at 110 V – 120 V | 5 A – 120 A | 5 A – 170 A |
| Duty cycle 40 °C at 230 V | 200 A / 30% | 220 A / 40% |
| | 155 A / 60% | 190 A / 60% |
| | 125 A / 100% | 160 A / 100% |
| Duty cycle 40 °C at 110 V – 120 V | 120 A / 40% | 170 A / 40% |
| | 100 A / 60% | 150 A / 60% |
| | 85 A / 100% | 120 A / 100% |
| Open circuit voltage | 97 V | |
| Mains voltage (ex works) | 1 x 230 V | |
| Mains voltage | 1 x 110 V – 120 V | |
| Mains tolerances (ex-works) at 230 V | -40% to +15% | |
| Mains tolerances at 110 V – 120 V | -15% to +15% | |
| Mains frequency | 50 Hz / 60 Hz | |
| Rec. Generator rating at 230 V | 9 kVA | 6.6 kVA |
| Rec. Generator rating at 110 V – 120 V | 4.7 kVA | 4.6 kVA |
| Efficiency | 84% | |
| Power consumption Pi | 10 W | |
| Protection classification | IP23 | |
| Safety identification | | |
| EMC class | A | |
| Standards | IEC 60974-1 and -10 CL.A | |
| Dimensions (L x W x H) | 454 x 165 x 321 mm / 17.9 x 6.5 x 12.6 inch | |
| Weight | 10 kg / 22.0 lbs | |

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Welding site equipment



Completely mounted electrode holder with cable



Workpiece lead with clamp



Optional:
Workpiece lead with original
FIX clamp

Accessories



TIG 26 GDV

- Gas-cooled TIG welding torch with rotary gas valve
- Compatible with SR wear part
- For connection to welding machines without gas valve (Pico series apart from Pico 162)
- Excellent HF safety



ON Filter TG.12

- Dirt filter for air inlet
- Reliably protects the machine from impurities in difficult working conditions



ON TG

- Carrying strap for easy transport
- Ideal for use on the go and in case of frequently changing working sites



Trolley 35-1

- Transport cart (two wheels) for moving a power source and one shielding gas cylinder up to 33 l (300 bar)
- Solid, stable design

Remote control accessories



RTF-X TIG 19pol

- Foot-operated remote control with pre-fitted connection cable
- Infinitely adjustable welding current (0% to 100%) depending on the main current preselected on the welding machine
- Stainless-steel bracket with one-sided opening
- Safe operation due to large tread surface with anti-slip coating
- Rubber feet – stands securely on any surface
- Can be quickly replaced when worn down with no need to open the casing
- High-quality connection cables with robust anti-kink device
- Large, sturdy grommet for transport on EWM machines and trolley transport systems or standard transport carts.



RTF-X TIG BT

- Foot-operated remote control for wireless connection, connection via BT dongle with 19-pin plug
- Offers all the features and benefits of the RTF-X TIG 19pol

Benefits of wireless connection:

- Foot-operated remote control can be placed anywhere
- No restriction of welding position
- Display of connection status and battery charge
- "Find" feature for coupled machines



RTA PRS2

- Remote control for MMA welding
- Infinitely adjustable welding current (0% to 100%) depending on the main current preselected at the welding machine
- **Pole reversing switch (PRS):** Saves time-consuming reconnecting of welding current connections
Note: The PRS function can only be used on machines with a built-in pole reversing switch
- **Arcforce** uses current increases to stop the electrode from sticking in the weld pool during the welding process.
- Robust metal housing with rubber feet, retainer and holding magnet
- Cable not supplied in delivery, please order connection cable separately



RT1 19POL

- Remote control, current
- Infinitely adjustable welding current (0% to 100%) depending on the main current preselected at the welding machine
- Robust metal housing with rubber feet, retainer and holding magnet
- Cable not supplied in delivery, please order connection cable separately



RTG1 19POL

- Remote control, current
- Infinitely adjustable welding current (0% to 100%) depending on the main current preselected on the welding machine
- With pre-fitted 5 or 10 m connection cable

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Item numbers

| Welding site equipment | | Version | PU | Item number | PG | Price |
|-------------------------------|---|---------------------------------|----|----------------------------------|-----|------------|
| Pico 200 cel Puls | MMA inverter welding machine | | 1 | 090-002130-00502 | M3 | 1.380,00 € |
| WK 16 mm ² Ø 13 mm | Workpiece lead with terminal, 4 m | 170 A / 60%, 16 mm ² | 1 | 094-005801-00000 | M12 | 45,60 € |
| WK 35 mm ² Ø 13 mm | | 290 A / 60%, 35 mm ² | 1 | 092-000008-00000 | M12 | 62,70 € |
| EH 16 mm ² Ø 13 mm | Completely mounted electrode holder with cable, 4 m | 170 A / 60%, 16 mm ² | 1 | 094-005800-00000 | M12 | 50,00 € |
| EH 35mm ² Ø 13 mm | | 290 A / 60%, 35 mm ² | 1 | 092-000052-00000 | M12 | 90,00 € |

Item numbers – accessories

| Name | Designation | Version | PU | Item number | PG | Price |
|-------------------------------|---|---------------------------------|----|----------------------------------|-----|----------|
| Remote control | | | | | | |
| RT1 19POL | Remote control | without cable | 1 | 090-008097-00000 | M1 | 211,00 € |
| RTA PRS2 | Remote controller with PRS and Arcforce | without cable | 1 | 090-008856-00000 | M1 | 525,00 € |
| RTG1 19POL | Remote control with pre-fitted connection cable. | 5 m | 1 | 090-008106-00000 | M1 | 288,00 € |
| | | 10 m | 1 | 090-008106-00010 | M1 | 351,00 € |
| RTF-X TIG 19pol | Foot-operated remote control with stainless-steel bracket and with pre-fitted robust connection cable | 5 m, 19-pin | 1 | 090-008855-00005 | M1 | 443,00 € |
| RTF-X TIG BT | Foot-operated remote control with stainless steel bracket, with wireless connection | Wireless | 1 | 090-008854-00000 | M1 | 495,00 € |
| BT dongle | Dongle for connecting the wireless remote control to 19-pin interface | Wireless, 19-pin | | 090-005702-00000 | M1 | 285,00 € |
| TIG welding torch | | | | | | |
| TIG 26 GDV | Gas-cooled TIG welding torch with rotary gas valve | 4 m | 1 | 094-511621-00100 | E4 | 203,80 € |
| | | 8 m | 1 | 094-511621-00108 | E4 | 242,40 € |
| Filter | | | | | | |
| ON Filter TG.12 | Dirt filter for air inlet | | 1 | 092-004630-00000 | A1 | 100,00 € |
| Transport options | | | | | | |
| Trolley 35-1 | Transport cart (two wheels) for moving a power source and one shielding gas cylinder up to 33 l (300 bar) | | 1 | 090-008629-00000 | M1 | 587,00 € |
| ON TG | Carrying strap for easy transport | | 1 | 092-004310-00000 | M1 | 19,35 € |
| Additional accessories | | | | | | |
| WK35 mm ² Ø 13 mm | Workpiece lead with original FIX clamp | 290 A / 60%, 35 mm ² | | 398-000594-00000 | M12 | 92,80 € |
| ON AL D13/27 | Cap for load sockets | | | 092-003282-00000 | M1 | 4,40 € |
| SKGS 16A 250V CEE7/7 | Shock-proof plug, solid rubber | | | 094-001756-00000 | S1 | 10,00 € |
| ADAP CEE16/SCHUKO | Adapter: Earth contact coupling/CEE16A plug | | | 092-000812-00000 | E1 | 60,80 € |