

MMA welding made easy

Pico 160 / Pico 160 cel puls



3 Years  **5 Years**
transformer
and rectifier
ewm-warranty*
3 shifts / 24 hours / 7 days
*For details visit www.ewm-group.com

MMA welding made easy. Can be used anywhere.



Extremely light – one of the lightest machines on the market at just 4.7 kg

- Practical carrying strap for effortless transport on construction sites, stairs, ladders, steel structures and scaffolds
- Also handy for use in extremely difficult conditions in building construction, civil engineering, mining and similar projects



Robust and highly suitable for construction sites

- Large mains voltage tolerance range between –40% and +15% for problem-free operation with generators and mains leads up to 100 m in length
- Splash-water protected as per IP 23
- Robust aluminium casing
- Front, rear and machine base made of impact-resistant plastic



With unrivalled EWM quality warranty

- 3-year warranty for welding machines and 5-year warranty for transformers and rectifiers
- No restriction to the number of operating hours – even when used in 3-shift operation 24 hours a day, 7 days a week

Highly effective welding – wherever needed

Perfectly equipped for all MMA requirements

- Automatic ignite for safe, gentle ignition prevents the electrode from sticking to the workpiece
- Steady arc for all electrode types; no arc interruption

Extra functions for Pico 160 cel puls

- Completely safe vertical down welding of cellulose electrodes
- MMA pulse welding:
 - Less finishing work thanks to minimised spatter formation
 - Easy positional welding with excellent gap bridging

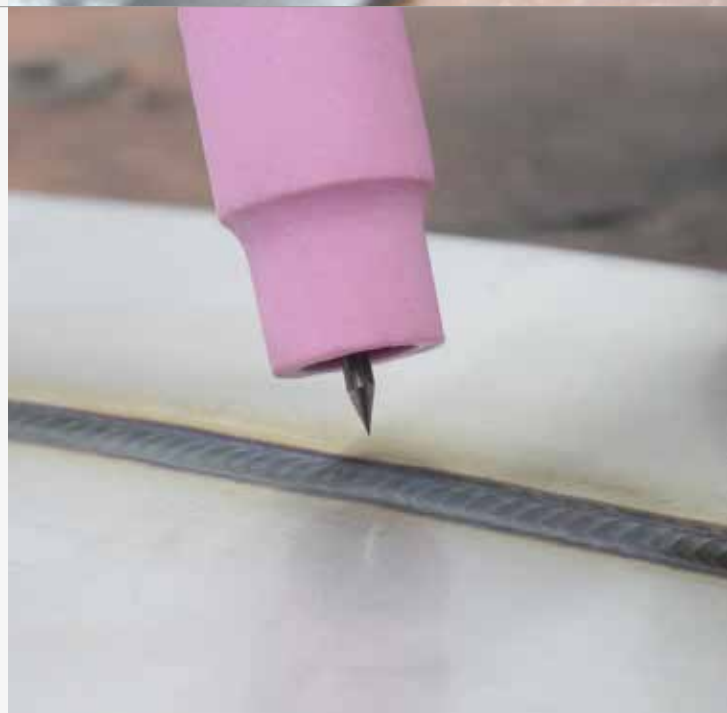


TIG welding just like the big players

- TIG lift arc without tungsten inclusions

Extra functions for Pico 160 cel puls

- Pulsed TIG welding up to 2 kHz:
 - Produce fillet welds with extremely fine flaking
 - Easy vertical-up and positional welding



Energy-cost-saving inverter technology

- Lower consumption thanks to high efficiency and automatic power-saving mode (switchable standby function)
- Electricity costs fall, so production costs do too

The major sustainability initiative from EWM

Blue Evolution[®]

Pico 160 cel puls – no-compromise welding. For all MMA requirements.

MMA

- Welding of stick electrodes up to 4 mm in Ø
- Completely safe for vertical-down welding of cellulose electrodes
- Optimum welding characteristics (Arcforce) for the different electrode types: rutile (R), rutile-basic (RB), basic (B), rutile-cellulose (RC), cellulose (C)
- Adjustable hot start current and time for reliable ignition and re-ignition
- Antistick – no electrode sticking or annealing
- MMA pulse welding (0.2 Hz–500 Hz)
 - Positional welding for extremely flat and wide weld seams with reduced heat input
 - Less spatter formation, less finishing work, fine-flaked seam, effective gap bridging
 - Complete vertical-up welds without using the "Christmas tree" technique with safe weld root fusion.
 - Welding of components with changing air gaps for reliable sidewall fusion

Innovative, indestructible casing
for a long service life

Splash-water protected as per IP 23

Safe and reliable in operation:
temperature overload protection,
dust-protected electronics

Adjustable mains current limit
10 A, 13 A, 16 A and 20 A

Overvoltage protection: No
damage to machine if inadvertently
connected to 400 V mains voltage

Robust, impact-resistant plastic base



TIG

- TIG lift arc without tungsten inclusions
- Pulsed TIG welding (0.2 Hz–2 kHz)
 - Produce fillet welds with extremely fine flaking
 - Easy to complete vertical-up welds and positional welding



Intuitive operation with click wheel function

Digital display for reproducible setting of welding parameters

Welding procedure selection: MMA, MMA-cel and TIG

Selection: pulsing for MMA and TIG

Anti-theft system



Remote control connection

Large rotary knob with click wheel function – for simple setting, even with gloves on



Manual remote control RG 13 RS-453 5 m – extremely simple to set welding current, even at wide distance

Pico 160 – MMA welding made easy. Handy, light, robust.

MMA

- Welding of stick electrodes up to 4 mm in Ø
- Hot start and Arcforce – for safe ignition and welding
- Antistick – no electrode sticking or annealing

Innovative, indestructible casing for
a long service life

Splash-water protected as per IP 23

Safe and reliable in operation:
temperature overload protection,
dust-protected electronics

Overvoltage protection: No damage to
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Robust, impact-resistant plastic base

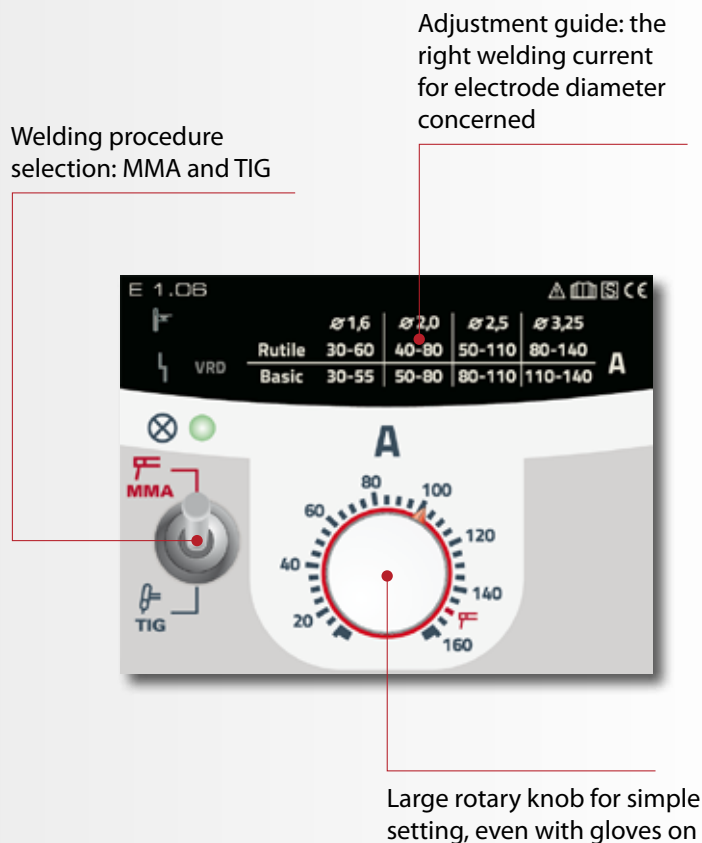


TIG

- TIG lift arc without tungsten inclusions



Maximum ease-of-operation



Everything from a single source.
Welding accessories and welding consumables.



Accessories

Carrying handle

Practical carrying handle – easy to retrofit to ensure safe, even steadier transport



Dirt filter

Additional protection also for use in dusty environments. Easily attached from outside



Welding accessories

Achieving optimum welding results requires more than just a welding machine and torch. At EWM, we see ourselves as a system supplier and therefore offer you the right accessories for every welding task.

Workpiece lead

Completely assembled with cable, terminal and large load plug (Ø 13 mm)



Electrode holder

Completely assembled with cable and large load plug (Ø 13 mm)



Welding torch

Gas cooled TIG welding torch with rotary gas valve



Manual remote control

RG 13 RS-453 5 m (Pico 160 cel puls)

Electric current set directly at work station, for tasks such as vertical down welding, for example



Welding consumables

TIG: The broad selection of widely different alloys and their ready availability warranty maximum flexibility for you. Our welding rods warranty optimum processability and top-quality results.

MMA: EWM stick electrodes are eminently suitable for all areas of use such as piping and container construction, building site and workshop welding tasks, and application of wear-resistant layers. We have the ideal product for you in our range, whether you require cellulose electrodes for vertical-down welding or rutile or basic electrodes for high impact work-values.





Pico 160 cel puls



Pico 160

Welding procedure

MMA	•	•
MMA pulse welding	•	-
TIG	•	•
Lift arc	•	•
Pulsed TIG welding	•	-

Functions

Hot start	•	•
Antistick	•	•
Pulsing	•	-
Mains current limit 10 A, 13 A, 16 A, 20 A (M)	•	-

Adjustable welding parameters

MMA

Welding current	•	•
Hot start current and time	•	-
Arcforce	•	-
Arcforce correction (M)	•	-
Pulse frequency, current and balance	•	-

TIG

Welding current	•	•
Pulse frequency, current and balance	•	-
Ignition current (M)	•	-
Up-slope time (M)	•	-


Displays, indicators

Display: welding parameters before, during and after welding	•	-
LEDs: interferences, welding parameters	•	•

Accessories/options

Electrode holder	•	•
Workpiece lead	•	•
TIG welding torch with rotary valve	•	•
Manual remote control RG 13 RS-453 5 m	•	-
Grip	•	•
Dirt filter	•	•

(M) Adjustable on menu

Technical data	MMA	TIG
Current setting range	5 A–150 A	5 A–160 A
Voltage setting range	20.2 V–26.0 V	10.2 V–16.4 V
Duty cycle at 40 °C Pico 160 cel puls		
30%	150 A	160 A
60%		120 A
100%		110 A
Duty cycle at 40 °C Pico 160		
30%	-	160 A
35%	150 A	-
60%	120 A	130 A
100%		100 A
Open circuit voltage (Pico 160 cel puls)		94 V
Open circuit voltage (Pico 160)		105 V
Mains voltage (tolerance)		1 x 230 V (+15% to -40%)
Frequency		50/60 Hz
Mains fuse (safety fuse, slow-blow)		16 A
Max. connected load	7.3 kVA	4.9 kVA
Recommended generator rating		9.9 kVA
Noise level		< 70 dB(A)
cosφ/efficiency		0.99/83.0%
Insulation class/protection classification		H/IP 23
EMC class		A
Ambient temperature		-25 °C to +40 °C
Machine cooling/torch cooling		Fan (AF)/gas
Safety identification		
Harmonised standards used		IEC 60974-1, -10
Dimensions L/W/H		370 x 129 x 236 mm 14.6 x 5.1 x 9.3 inch
Weight		4.7 kg 10.4 lb

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Handbook
Welding consumables



Handbook
EWM welding dictionary

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