

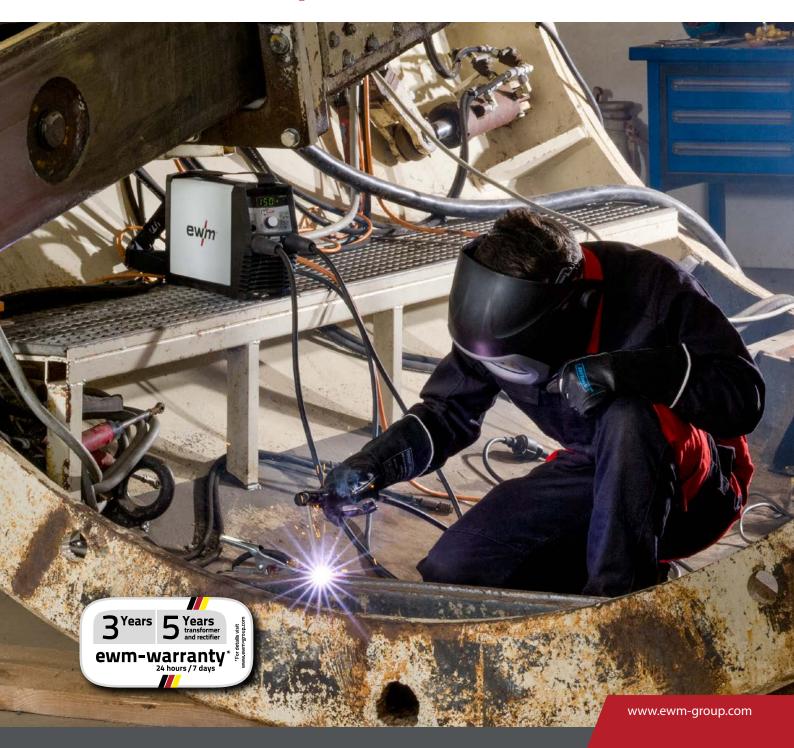






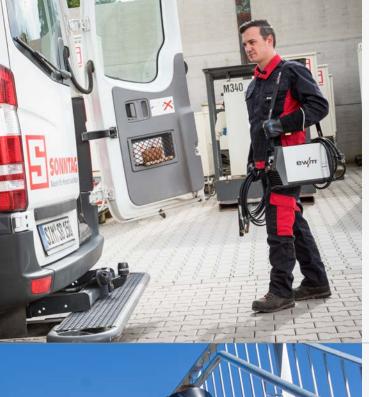
MMA welding made easy

Pico 160 cel puls



MMA welding made easy

Can be used anywhere



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

- / Practical carrying strap for effortless transport on construction sites, along stairs and ladders, on steel structures and on 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 IP23
- / Robust aluminium casing
- / Front, rear and machine base made of impact-resistant composite



With unrivalled ewm quality guarantee

- / 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



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
- / 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

Highly effective welding wherever needed



TIG welding just like the big players

- / TIG lift arc ignition without tungsten inclusions
- / Pulsed TIG welding up to 2 kHz:
 - Produce fillet welds with extremely fine flaking
 - Easy to complete vertical-up welds and positional welding



Energy cost-saving inverter technology

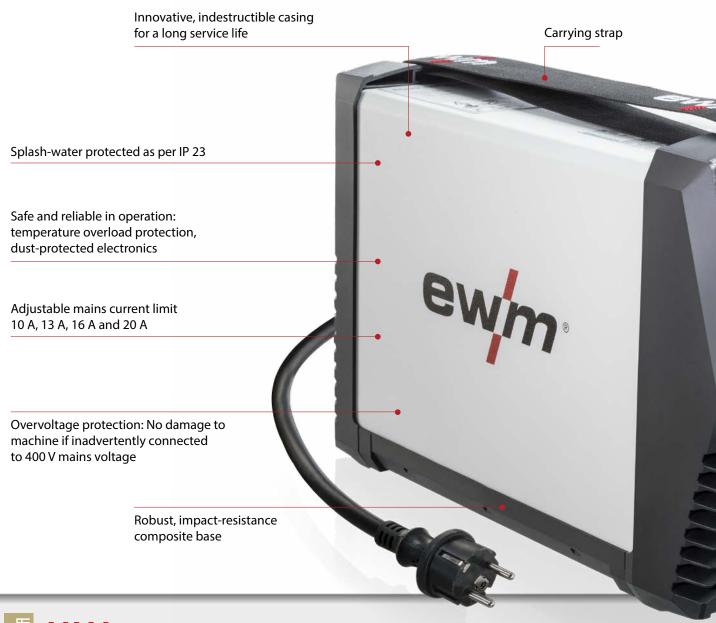
- / Lower consumption thanks to high efficiency and automatic energy saving mode (switchable standby function)
- / Electricity costs fall, so production costs do too

The major sustainability initiative from ewm



Extremely robust in modern, ergonomic casing

Intuitive in its operation



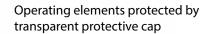


MMA

- / Stick electrode welding up to 4 mm in \emptyset
- / Completely safe for vertical-down cellulose electrode welding
- / 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 up to 500 Hz)
 - Positional welding for extremely flat and wide weld seams with reduced heat input
 - Less spatter formation, less finishing work, fine-flaked weld, effective gap bridging
 - Complete vertical-up welds without using the "Christmas tree" technique with safe weld root base fusion
 - Welding of components with changing air gaps for reliable sidewall fusion







Large load sockets (Ø 13 mm) for maximum compatibility

Easy, intuitive operation

Digital display for reproducible setting of welding parameters

Welding procedure selection: MMA, MMA Cel and TIG

Selection: Pulsing for MMA and TIG

Electronic key switch



Remote control connection

Single-hand operation: Large rotary knob with click wheel function for simple adjustment, even with gloves on



₹ TIG

- / TIG lift arc ignition 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



Manual remote control RG 13 RS-453 -Extremely simple to set welding current, even with gloves on



Pico 160 cel puls

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)	
A P. A. LL. L.P.	
Adjustable welding parameters	
MMA	
Welding current	•
Hot start current and time	•
Arcforce	Rutile, rutile-basic, basic, rutile-cellulose, cellulose
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: Displays for welding parameters	•
before, during and after welding LEDs: interferences, welding parameters	•
LEDS. Interierences, welding parameters	<u> </u>
Associations	
Accessories/options	
Electrode holder	•
Workpiece lead	
TIG welding torch with rotary valve	
RG 13 RS-453 manual remote control	
Grip	•
Dirt filter	•
(A 4) A -1:	
(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 ambient temperature	40 °C	40 °C
30%	150 A	160 A
60%	120 A	
100%	110 A	
Open circuit voltage	94 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	S/C€/EN[
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 EWM welding dictionary

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