

PICO

MMA WELDING MADE EASY,
ANYWHERE YOU NEED IT



In places where MMA welding machines are used, it's usually quite dirty. At EWM, we take that into consideration. Each of our MMA welding machines is characterised by its excellent robustness and a longer than average service life. Last but not least, high mains voltage tolerances and power reserves make our MMA welding machines the perfect assistant at the construction or assembly site which can easily be connected to a generator or long mains leads for operation.



THE BENEFITS TO YOU +

- Unlimited generator operation even with long mains leads thanks to high mains voltage tolerances
- Easy one-knob operation
- Increased comfort while welding
- Rugged design suitable for construction site use
- Shock-resistant casing
- Portable with handle or carrying strap
- Saves power thanks to excellent efficiency



PICO 160

The Pico 160 cel puls is an extremely lightweight welding machine weighing in at only 4.7 kg, making it one of the lightest on the market. Thanks to this and its included carrying strap, it's especially practical and easy to transport – at the construction site, over stairs and ladders, in steel construction and on scaffolding. Under tough conditions in building construction, civil engineering, mining and other areas of use, the Pico 160 cel puls also impresses with its easy handling and welding of cellulose electrodes, which is 100% safe for vertical-down welding.

Robust casing

Thanks to a combination of aluminium and impact-resistant plastic

Control cover

Large load sockets



Wide mains voltage tolerance range

of -40 to +15% for trouble-free operation with generators

Safety plug for 230 V mains connection

Remote control connection

Connection for the RG13 remote control with 3.5 mm jack plug*



Carrying strap



Dirt filter



Handle (160 as ON)
Pico 350/400 series



L-BOXX

PICO 350/400

Available in the cel puls, cel puls pws and cel puls pws dgs versions.

Resistant to extreme weather conditions. Can be used in the toughest conditions thanks to its extremely rugged design and ideal for changing deployment locations on account of its light weight.

The Pico 350 and Pico 400 welding machines are 100% safe for vertical-down welding of cellulose electrodes. The Pico drive 4L wire feeder makes MIG/MAG welding easy as well. But that's not all: degaussing pipes and sheet metal prior to welding is child's play too.

Highly practical

Production-standard mains cable bracket

Polarity-reversing device

Integrated as standard equipment (PWS version). Eliminates the need for time-consuming conversion when a change in polarity is required

IP34s protection

All-round protection against splash water

Control cover



For tough jobs

Ruggedly designed base enables placement in dirty and wet environments

Insertable protective dust filter (optional)



Trolley 53



Pico drive 4L



Remote control



Trolley 54 with
ON TA TR.21

THE WELDING FUNCTIONS.

FOR OPTIMAL WELDING RESULTS.

For optimal welding results, maximum operating comfort, a long service life and all the welding functions within the machine at no additional charge. This guarantees perfect weld seams.

PICO 160

MMA welding

TIG lift arc welding

Arcforce

Hot start

Antistick

PICO 160

CEL PULS

MMA welding

MMA and TIG puls

TIG lift arc welding

Cel characteristic

Arcforce

activgauss

Hot start

Antistick

PICO 162

MV

MMA welding

TIG lift arc welding

Arcforce

Hot start

Antistick

PICO 300

CEL PWS

MMA welding

TIG lift arc welding

Cel characteristic

Arcforce

Hot start

Antistick

Welding polarity (PWS)

PICO 350

CEL PULS

MMA welding

MMA and TIG puls

CC/CV characteristic

TIG lift arc welding

PF pulse function

Cel characteristic

Arcforce

Hot start

Antistick

PICO 350

CEL PULS PWS

MMA welding

MMA and TIG puls

CC/CV characteristic

TIG lift arc welding

PF pulse function

Cel characteristic

Arcforce

Hot start

Antistick

Welding polarity (PWS)

Arcforce

Active power control for constant penetration conditions and secure root fusion, even when positional welding and welding in hard-to-reach spots

Cellulose welding

100% safe vertical-down welding with cellulose electrodes

MMA pulse welding

Simple positional welding thanks to continuous welding current fluctuation

activgauss

Automatic degaussing function for the removal of residual magnetism in pipes and sheet metal



PICO 180

PULS

- MMA welding**
- MMA and TIG puls**
- TIG lift arc welding**
- Arcforce**
- Hot start**
- Antistick**

PICO 220

CEL PULS

- MMA welding**
- MMA and TIG puls**
- TIG lift arc welding**
- Cel characteristic**
- Arcforce**
- Hot start**
- Antistick**

PICO 300

CEL

- MMA welding**
- TIG lift arc welding**
- Cel characteristic**
- Arcforce**
- Hot start**
- Antistick**

PICO 350

CEL PULS PWS DGS

- MMA welding**
- MMA and TIG puls**
- CC/CV characteristic**
- TIG lift arc welding**
- PF pulse function**
- Cel characteristic**
- Arcforce**
- activgauss**
- Hot start**
- Antistick**
- Welding polarity (PWS)**

PICO 400

CEL PULS

- MMA welding**
- MMA and TIG puls**
- CC/CV characteristic**
- TIG lift arc welding**
- PF pulse function**
- Cel characteristic**
- Arcforce**
- Hot start**
- Antistick**

PICO 400

CEL PULS PWS

- MMA welding**
- MMA and TIG puls**
- CC/CV characteristic**
- TIG lift arc welding**
- PF pulse function**
- Cel characteristic**
- Arcforce**
- Hot start**
- Antistick**
- Welding polarity (PWS)**

CC/CV characteristic

MIG/MAG welding with optional Pico drive 4L wire feeder

Antistick

Prevents the electrode annealing

Hot start

Safe ignition of the arc with increased amperage and sufficient heating on the still-cold parent metal at the start of welding

Welding polarity (PWS)

Pole reversal on the machine or via remote control saves time-consuming reconnecting of welding current connections

PICO ACCESSORIES.



GRIP

Easier transport.

- For Pico 160 / 160 cel puls



+ CARRYING STRAP

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

- For Pico 160/162/180/220/300/350/400



+ DIRT FILTER

Reliably protects the machine from impurities in difficult working conditions.

- For Pico 160 / 160 cel puls



DIRT FILTER

Reliably protects the machine from impurities in difficult working conditions.

- For Pico 180/220



+ TRANSPORT CART

For transporting a power source and a shielding gas cylinder up to 33 l (300 bar).

- For Pico 180/220



+ TRANSPORT CART

For transporting a power source, cooling unit or tool box and a shielding gas cylinder up to 33 l (200 bar).

- For Pico 350/400



REMOTE CONTROL +

Infinitely adjustable welding current (0% to 100%) depending on the main current preselected at the welding machine.

- For Pico 160 cel puls



REMOTE CONTROL +

Infinitely adjustable welding current (0% to 100%) depending on the main current preselected at the welding machine.

- For Pico 180/220/300/350/400



**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 (PWS): Saves time-consuming reconnecting of welding current connections.

- For Pico 350/400



SAFEGUARD +

Lightweight, rugged enclosure for rough environments. Easy to wash.

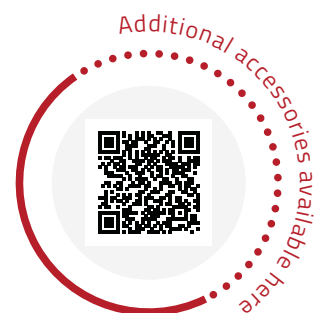
- For Pico 180/220



PICO DRIVE +

MIG/MAG wire feeder.

- For Pico 350 cel puls / 300 cel puls pws / 350 cel puls pws dgs / 400 cel puls / 400 cel puls pws / 400 cel puls pws dgs



PICO TECHNICAL DATA.

PICO



Setting range for welding current	10–150 A	5–150 A	10–150 A
Duty cycle (DC) at 40 °C	150 A / 35% 120 A / 60% 100 A / 100%	150 A / 30% 120 A / 60% 110 A / 100%	150 A / 35% 120 A / 60% 100 A / 100%
Open circuit voltage	105 V	94 V	105 V
Mains voltage / tolerance	1 x 230 V (-40% to +15%)		
Mains frequency	50 Hz / 60 Hz		
Insulation class / protection classification	H / IP23		
Product certification			
EMC class	A		
Dimensions (L x W x H) mm	370 x 129 x 236		361 x 136 x 224
Dimensions (L x W x H) inches	14.6 x 5.1 x 9.3		14.2 x 5.4 x 8.8
Weight in kg	4.9		5.4
Weight in lbs	10.8		11.9
Standards	IEC 60974-1 and -10 CL.A		
Remote control connection	3.5 mm jack plug		

PICO



Setting range for welding current	10–350 A		
Duty cycle (DC) at 40 °C	350 A / 35% 280 A / 60% 230 A / 100%		
Open circuit voltage	95 V		
Mains voltage / tolerance	3 x 400 V (-25% to +20%)		
Mains frequency	50 Hz / 60 Hz		
Insulation class / protection classification	H / IP34		
Product certification			
EMC class	A		
Dimensions (L x W x H) mm	539 x 210 x 415		
Dimensions (L x W x H) inches	21.2 x 8.3 x 16.3		
Weight in kg	23.5		25.0
Weight in lbs	51.8		55.1
Standards	IEC 60974-1 and -10 CL.A		
Remote control connection	19-pole		



180 puls




220 cel puls



300 cel



300 cel pws


5–180 A		10–220 A		10–300 A	
180 A / 25%		220 A / 30%		300 A / 25%	
130 A / 60%		160 A / 60%		220 A / 60%	
120 A / 100%		140 A / 100%		170 A / 100%	
98 V		97 V		107 V	
1 x 230 V (–40% to +15%)		3 x 400 V (–25% to +20%)			
50 Hz / 60 Hz					
H / IP23					
					
A					
428 x 136 x 252		490 x 186 x 350		490 x 186 x 446	
16.9 x 5.4 x 9.9		19.3 x 7.3 x 13.8		19.3 x 7.3 x 17.6	
8.3		10.5		23.5	
18.3		23.1		51.8	
IEC 60974-1 and -10 CL.A					
19-pole					



400 cel puls



400 cel pws

10–400 A	
400 A / 25%	
280 A / 60%	
230 A / 100%	
95 V	
3 x 400 V (–25% to +20%)	
50 Hz / 60 Hz	
H / IP34	
	
A	
539 x 210 x 415	
21.2 x 8.3 x 16.3	
23.5	25.0
51.8	55.1
IEC 60974-1 and -10 CL.A	
19-pole	



WE ARE WELDING

We're happy to help: sales@ewm-group.com

EWM is your partner for the best welding technology. With EWM, you'll weld more efficiently, more reliably and produce higher-quality results. EWM's innovative systems, high-performance welding procedures, digital technologies and services as well as expert consultation, all support you in achieving perfect results from your welding tasks.



EWM GmbH

Dr. Günter-Henle-Straße 8
56271 Mündersbach
Germany

Tel.: +49 2680 181-0
Fax: +49 2680 181-244
E-mail: info@ewm-group.com



www.ewm-group.com

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