

## PICO

MMA WELDING MADE EASY,  
WHEREVER YOU NEED



In places where MMA welding machines are used, it's usually quite dirty. At EWM, we take that into consideration. Our MMA welding machines stand out with their excellent robustness and longer-than-average service life. High mains voltage tolerances and power reserves make our MMA welding machines the perfect companion on the construction or assembly site. They deliver their high performance even when connected to a generator or long mains leads.



## 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 200 CEL PULS

The Pico 200 cel puls is a state-of-the-art MMA welding machine with an innovative pulsing function. It enables you to weld safely and precisely and has extra characteristics for welding cellulose electrodes.

Thanks to its multi-volt/multi-voltage capability, the machine automatically adapts to different mains voltages (110–120 V / 230 V) and can therefore be used worldwide without any problems. The highly efficient power consumption is guaranteed by the integrated PFC (Power Factor Correction) technology, which ensures optimum performance and energy efficiency.

If you opt for the Pico 200 cel puls, you benefit from a powerful, flexible and user-friendly welding machine. It is your reliable partner for MMA welding.

### Mains cable bracket

Allows you to easily wind up the cable.

### Convenient QR code

All important information is available quickly, directly above the controls and in digital format – i.e. operating instructions, accessories, other retrofitting options and much more.

### Insertable protective dust filter

Optionally available and is mounted to the back of the welding machine (second illustration below).

### Protective cap

Effectively protects the controls against splash water, dirt and impact.

### IP23 protection

Effective all-round protection against splash water and other external influences.



### Multivolt/multivoltage capable

Automatic mains voltage adaptation (110–120 V / 230 V)

### Robust base

Suitable for tough jobs, as it can be set down even in dirty and wet environments.



**Carrying handle with storage compartment**



**Dirt filter**



**Remote control**  
(also wireless in combination with a dongle.)



**Mains cable bracket**

# PICO

## PICO 160 CEL PULS

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 the 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 sites, 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

### Protective cap

It effectively keeps splash water, dirt and impact away from the controls.

### Large load sockets

For better power transmission and for the safe connection of industrial-grade components.

### Wide mains voltage tolerance range

From -40 to +15% for trouble-free operation with generators. A safety plug for the 230 V mains connection is provided.

### Remote control connection

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



Remote control



Dirt filter



Handle (160 as ON)  
Pico 350/400 series



L-BOXX

## PICO 350/400

**Available in the following versions: cel puls / cel puls prs / cel puls prs dgs.**

Resistant to extreme weather conditions. Extremely robust for the toughest conditions and ideal for changing deployment locations due to its low 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: Demagnetising pipes and sheets before welding is also extremely easy with these two welding machines.

**You can conveniently wind up the mains cable on the cable holder of the handle.**

### **Polarity-reversing device**

It is integrated as standard (pole reversing switch version) and saves the time-consuming conversion when a change in polarity is necessary.

### **IP34 protection**

Effective all-round protection against penetration of splash water and solid debris.

### **Protective cap**

Splash water, dirt and impact cannot harm the controls thanks to the cap.



### **Robust base**

Stands up to the toughest jobs and can be set down in dirty and wet conditions.

### **Insertable protective dust filter**

Mounted on the back of the welding machine (second illustration below), available as an option.



**Trolley 53**



**Pico drive 4L**



**Remote control for  
MMA welding**



**Trolley 54 with ON TA  
TR.21**

# THE WELDING FUNCTIONS.

## FOR OPTIMAL WELDING RESULTS.

Maximum ease of use, long service life and all welding functions included in the machine at no extra charge. This guarantees perfect weld seams.

<b>PICO 160</b>	<b>PICO 160</b> CEL PULS	<b>PICO 162</b> MV
<b>MMA welding</b>	<b>MMA welding</b>	<b>MMA welding</b>
<b>TIG lift arc welding</b>	<b>MMA and TIG puls</b>	<b>TIG lift arc welding</b>
<b>Arcforce</b>	<b>TIG lift arc welding</b>	<b>Arcforce</b>
<b>Hot start</b>	<b>Cel characteristic</b>	<b>Hot start</b>
<b>Antistick</b>	<b>Arcforce</b>	<b>Antistick</b>
	<b>activgauss</b>	
	<b>Hot start</b>	
	<b>Antistick</b>	
<b>PICO 300</b> CEL PRS	<b>PICO 350</b> CEL PULS	<b>PICO 350</b> CEL PULS PRS
<b>MMA welding</b>	<b>MMA welding</b>	<b>MMA welding</b>
<b>TIG lift arc welding</b>	<b>MMA and TIG puls</b>	<b>MMA and TIG puls</b>
<b>Cel characteristic</b>	<b>CC/CV characteristic</b>	<b>CC/CV characteristic</b>
<b>Arcforce</b>	<b>TIG lift arc welding</b>	<b>TIG lift arc welding</b>
<b>Hot start</b>	<b>PF pulse function</b>	<b>PF pulse function</b>
<b>Antistick</b>	<b>Cel characteristic</b>	<b>Cel characteristic</b>
<b>Welding polarity (PRS)</b>	<b>Arcforce</b>	<b>Arcforce</b>
	<b>Hot start</b>	<b>Hot start</b>
	<b>Antistick</b>	<b>Antistick</b>
		<b>Welding polarity (PRS)</b>

### Arcforce

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

### 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 200

CEL PULS

- MMA welding**

---

- MMA and TIG puls**

---

- TIG lift arc welding**

---

- Cel characteristic**

---

- Rutile characteristics**

---

- Basic characteristics**

---

- Arcforce**

---

- Hot start**

---

- Antistick**

---

- spotArc<sup>®</sup>**

### 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 PRS 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 (PRS)**

### 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 PRS

- MMA welding**

---

- MMA and TIG puls**

---

- CC/CV characteristic**

---

- TIG lift arc welding**

---

- PF pulse function**

---

- Cel characteristic**

---

- Arcforce**

---

- Hot start**

---

- Antistick**

---

- Welding polarity (PRS)**

#### CC/CV characteristic

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

#### Antistick

Prevents the electrode from 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

#### spotArc<sup>®</sup>

Minimises the time required for tacking and spot welding thanks to individual triggering of the tack points with the torch trigger.

#### Welding polarity (PRS)

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 on frequently changing work sites.

- for Pico 160/162/200/220/300/350/400



## + REMOTE CONTROL AND BT DONGLE (WIRELESS)

Infinitely adjustable welding current (0% to 100%) depending on the main current preselected at the welding machine. Thanks to the separately available BT dongle, it is also compatible with many welding machines with a 19-pin interface.



## TRANSPORT CART

For transporting a power source and a cooling unit or a toolbox



## + TRANSPORT CART

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

- for Pico 200/220



## + TRANSPORT CART

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

- for Pico 350/400





**REMOTE CONTROL +**  
**RG13 RS-453**

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

- for Pico 160 cel puls



**REMOTE CONTROL +**  
**RT1 19POL**

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

- for Pico 200/220/300/350/400



**FOOT-OPERATED +**  
**REMOTE CONTROL**  
**RTF-X TIG 19POL 5 M**

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



**SAFEGUARD**

Lightweight and robust cover for harsh environments. Easy to clean.

- For Pico 180/220



**+ PICO DRIVE 4L +**

MIG/MAG wire feeder.

- for Pico 350 cel puls / 350 cel puls prs / 350 cel puls prs dgs / 400 cel puls / 400 cel puls prs



# PICO TECHNICAL DATA.

## PICO



**160**



**160 cel puls**



**162 MW**

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	50/60 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, -10 CL.A		
Remote control connection	3.5 mm jack plug		

## PICO



**350 cel puls**



**350 cel puls prs**



**350 cel puls prs dgs**

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	50/60 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, -10 CL.A		
Remote control connection	19-pole		

**Pico 200  
cel puls**

- Multivolt

**230V**  
**110 - 120V**



**200 cel puls**




**220 cel puls**



**300 cel**



**300 cel prs**


5 – 200 A	5 - 120 A	10 – 220 A	10 – 300 A
200 A / 30 %	120 A / 40 %	220 A / 30 %	300 A / 25 %
155 A / 60 %	100 A / 60 %	160 A / 60 %	220 A / 60 %
125 A / 100 %	85 A / 100 %	140 A / 100 %	170 A / 100 %
97 V		107 V	
1 x 230 V (-40% to +15%)	1 x 110 - 120V (-15% bis +15%)	3 x 400 (-25% to +20%)	
50/60 Hz			
H / IP23			
			
A			
454 x 165 x 321 17.9 x 6.5 x 12.6	428 x 136 x 252 16.9 x 5.4 x 9.9	490 x 186 x 350 19.3 x 7.3 x 13.8	490 x 186 x 446 19.3 x 7.3 x 17.6
10 22.0	10,5 23.1	16,5 36.4	23,5 51.8
IEC 60974-1, -10 CL.A			
19-pole			



**400 cel puls**



**400 cel puls  
prs**

10 – 400 A
400 A / 25 %
280 A / 60 %
230 A / 100 %
95 V
3 x 400 V (-25% to +20%)
50/60 Hz
H / IP34

A
539 x 210 x 415 21.2 x 8.3 x 16.3
23,5 51.8
25,0 55.1
IEC 60974-1, -10 CL.A
19-pole



**WE ARE WELDING**

We're happy to help: [sales@ewm-group.com](mailto: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, support you in achieving perfect results in 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](mailto:info@ewm-group.com)



[www.ewm-group.com](http://www.ewm-group.com)