



MMA DC welding machines

Low investment costs and universal applications make MMA welding machines from EWM extremely economical. The innovative EWM inverter technology offers premium quality and high output with low energy consumption. This development sets new environmental standards! Easy handling for a wide range of tasks: from very small yet high-output power sources for quick and easy repair and assembly, right through to the robust professional MMA which performs reliably and powerfully even in pipeline construction and offshore.



ewm[®]

Light, robust and small

Pico 162 Pico 180 The PICO 162 and 180, EWM's miniature powerhouses, are barely the size of a shoe box, yet they really pack a punch. In doing so, with up to 160 and 180 amperes output, oustanding welding properties, large mains voltage ranges and the easiest of handling, these MMA specialists set new standards in assembly. The universal all-rounder: The Pico 162 MV (multi-volt variant) automatically detects the mains voltages of different countries between 115 and 230 volts.

Highlights







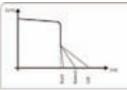












Antistick and Arcforce – weld like a professional

Extremely easy welding: The arc burns steadily without the electrode sticking or annealing.

Perfect weld seams even with thick electrodes

Even 4-millimetre electrodes are no problem for the Pico. State-of-the-art inverter technology with superb control dynamics provides a stable arc. This makes even jointing with rutile or rutile-cellulose electrodes that are hard to weld effortless.

Light, transportable and mobile

Easily transportable to any work location. Very small and lightweight in a robust plastic casing, this machine can easily be carried up ladders or over cramped scaffolding.

100% suitable for construction sites

Perfect for large construction sites and very tough assembly work with mains supply leads up to 50 metres or connected directly to a generator. High tolerance to mains fluctuations ensures a perfect welding result.

Reliable, safe, cost-effective

All electronic components are particularly well protected against dust. The temperature-controlled fan prevents unnecessary intake of dirt. An all-round low-maintenance, reliable and therefore cost-effective solution!

Arcforce: tuning for all electrodes

Arcforce offers exceptional welding properties with all types of electrodes. No short circuits, even with rutile-cellulose electrodes.







Pico 162: Insulating protective cover

for optimum protection of the machine in tough conditions. Light, robust and easy to retrofit by hand. Combined with an optional dirt filter, you can protect your machine as best as possible from dirt.

Made-to-measure open circuit voltage – for worldwide use

The VRD (voltage reduction device) function reduces the open circuit voltage to safe levels. This option meets regional requirements and standards all over the world.





Pico 162 / Pico 180

Overvoltage protection.

Accidental connection to 400 V mains voltage does not result in damage to the machine

MMA DC welding machines

Hotstart for exceptional quality

The variable Hotstart function (adjustable current and time) reliably ignites the electrode and melts perfectly to ensure the best quality even at the start of the seam. This solution makes lack of fusion and cold welds a thing of the past and significantly reduces excess weld metal.



Very comfortable to carry

Stable and comfortable carrying strap, slender and convenient design



Extremely resilient

Side panels made from powdercoated sheet aluminium



Operating elements

Particularly robust, clear and protected layout





Modern, ergonomic casing

The front and rear sections of the machine are made of shockresistant plastic, with rounded corners and edges



Intelligent casing design

Optimised air conduction for long duty cycle



Safe and reliable

Integrated temperature monitors protect against overload



Compact, indestructible and versatile

Pico 300 Stick 350

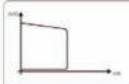
For tough, safe everyday operation on construction sites and in assembly work, the resilient MMA professional machines with metal casing offer the perfect solution. Even on long mains leads or connected to a generator, the welding electrode ignites reliably. EWM inverter technology with digital control ensures a stable arc, providing problem-free welding even for special electrodes. The CEL model versions are 100% safe for vertical-down welds with cellulose electrodes.

Highlights

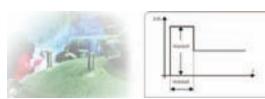
















Ideal for every construction site

Slimline design and effortless transport with stable carrying bar – the perfect partner for almost any construction site. Mains fluctuations are no problem for EWM power sources. Reliable welding even with weak mains supplies or extra-long cables. Wellthought-out ventilation ensures long duty cycles and protects against dirt.

Antistick and Arcforce - weld like a professional

Extremely easy welding: The arc burns steadily without the electrode sticking or annealing.

Reliable ignition and excellent welding properties

The digital inverter technology ensures superb arc characteristics for all electrode types, a reliable, stable arc and an easily controlled molten pool. The high open circuit voltage and hotstart function guarantee reliable ignition for the long term.

Hotstart for exceptional quality

The variable Hotstart function (adjustable current and time) reliably ignites the electrode and melts perfectly to ensure the best quality even at the start of the seam. This solution makes lack of fusion and cold welds a thing of the past and significantly reduces excess weld metal.

Reliable, safe, cost-effective

All electronic components are particularly well protected against dust. The temperature-controlled fan prevents unnecessary intake of dirt. An all-round low-maintenance, reliable and therefore cost-effective solution!

Arcforce: tuning for all electrodes

Arcforce offers exceptional welding properties with all types of electrodes. No short circuits, even with rutile-cellulose electrodes.







Made-to-measure open circuit voltage – for worldwide use

The VRD (voltage reduction device) function reduces the open circuit voltage to safe levels. This option meets regional requirements and standards all over the world.

Antistick and Arcforce - a strong team

During the welding process, Arcforce prevents the electrode from sticking in the weld pool. However, if the electrode does stick, the Antistick automatically switches to minimum current, therefore preventing annealing and keeping the electrode in serviceable condition.





MMA DC welding machines Pico 300 / Stick 350

No pipeline without Pico/Stick CEL

100% reliability for vertical-down welds with cellulose electrodes.

Polarity can be freely selected

Basic or cellulose electrodes "run" better with the minus pole on the workpiece. The welder can solve the question of the right polarity directly on site with the remote control of the Pico/Stick pws.



Convenient transport

Handy carrying handles, stable carrying bar and carrying strap, slender and convenient design



Well-thought-out casing design

Dust remains outside: closed casing trough, increased cooling air inlets with blade/grill combination



Easy welding machine control

Everything at a glance: selfexplanatory with one-knob operation, display, large range of functions





Metal casing: robust and durable

Ideal for construction sites: powder-coated sheet steel, phosphatised to prevent corrosion, impact- and scratchresistant yet extremely light



Safe and reliable

Integrated temperature monitors protect against overload and extend the duty cycle



Best protection

Operating and connection elements recessed to protect against damage







	Pico	162	Pico 162 MV		
Controls					
Pico 162 (MV)			•		
Stick 350 cel (pws)	-	-	-	•	
Pico 300 cel (pws)		-	_		
Pico 180	-	-	-	•	
Taurus Basic	-	-	-		
Functions					
мма	•		•		
TIG	•		•		
Gouging	-	-	-		
Technical data					
Setting range for welding current	10 A -	150 A	10 A - 150 A		
Duty cycle at ambient temperature	25 ℃	40 °C	25 °C	40 °C	
25 %	-	-	-	-	
30 %	-	-	-	-	
35 %	-	150 A	_	150 A	
50 %	150 A	-	150 A	-	
60 %	-	120 A	-	120 A	
100 %	120 A	100 A	120 A	100 A	
Open circuit voltage	10:	5 V	105	5 V	
Mains frequency	50 Hz /	⁷ 60 Hz	50 Hz / 60 Hz		
Mains fuses (slow-blow)	1 x 1	16 A	1 x 16 A, 1 x 25 A		
Mains voltage (tolerances)	1 x 230 V (-4	0 % - +15 %)	1 x 230 V (-40 % - +15 %), 1 x 115 V (-15 % - +15 %)		
Max. connected load	5.5	kVA	5.5 kVA		
Recommended generator power	7.5 kVA		7.5 kVA		
Dimensions, machine, LxWxH in mm	430 x 11	430 x 115 x 225		430 x 115 x 225	
Weight, machine	4.8 kg		5.1 kg		
Protection classification	IP	23	IP 2	23	
Insulation class	H	1	H		
Standards		IEC 60 974-1; -10 / CE / S-	-Safety sign / EMC class A		
	EN7	NED.	ED.	VE	

QR Code











Pico 180	Pico 300 cel	Pico 300 cel pws
-	-	-
-	-	-
_	•	•
•	-	-
-	-	-
•	•	•
•	•	•

5 A - 180 A		10 A - 300 A		10 A - 300 A		
25 ℃	40 °C	25 ℃	40 °C	25 °C	40 °C	
-	180 A	-	300 A	-	300 A	
180 A	-	300 A	-	300 A	-	
-	-	-	-	-	-	
-	-	-	-	-	-	
140 A	130 A	250 A	220 A	250 A	220 A	
130 A	120 A	190 A	170 A	190 A	170 A	
100 V		100 V		100 V		
50 Hz / 60 Hz		50 Hz / 60 Hz		50 Hz / 60 Hz		
1 x 20 A		3 x 16 A		3 x 1	6 A	
1 x 230 V (-40 % - +15 %)		3 x 400 V (-25 % - +20 %)		3 x 400 V (-25 % - +20 %)		
7.2 kVA		12.1 kVA		12.1 kVA		
9.7 kVA		16.4 kVA		16.4 kVA		
470 x 135 x 250		515 x 185 x 350		515 x 185 x 445		
8.9 kg		16.5 kg		23.5 kg		
IP 23		IP 23		IP 23		
H	1	Н		Н		

IEC 60 974-1; -10 / CE / S-Safety sign / EMC class A















	Stick 3	50 cel	Stick 350) cel pws	
		<u>\</u>			
Controls					
Pico 162 (MV)	_		-	-	
Stick 350 cel (pws)	•				
Pico 300 cel (pws)	_		-	-	
Pico 180	_		-	-	
Taurus Basic	_		-	-	
Functions					
MMA	•				
TIG	_		-	-	
Gouging	_		-	-	
Technical data					
Setting range for welding current	20 A - 3	350 A	20 A - 350 A		
Duty cycle at ambient temperature	25 ℃	40 °C	25 °C	40 °C	
30 %	_	350 A	-	350 A	
40 %	-	-	-	-	
60 %	-	250 A	-	250 A	
100 %	-	190 A	-	190 A	
Open circuit voltage	95			5 V	
Mains frequency	50 Hz /		50 Hz / 60 Hz		
Mains fuses (slow-blow)	3 x 2		3 x 25 A		
Mains voltage (tolerances)	3 x 400 V (-25		3 x 400 V (-25 % - +20 %)		
Max. connected load	17.8	kVA	17.8 kVA		
Recommended generator power	23.7	kVA	23.7	kVA	
Dimensions, machine, LxWxH in mm	700 x 23	0 x 455	700 x 23	30 x 455	
Weight, machine	35.5	kg	37.5	5 kg	
Protection classification	IP 2		IP		
Insulation class	Н			1	
Standards		IEC 60 974-1; -10 / CE / S-	-Safety sign / EMC class A		

QR Code









Taurus 405 TDM	Taurus 505 TDM
-	-
-	-
-	-
-	-
•	•
•	•
-	-
•	•
5 A 400 A	5 A 500 A

5 A -	400 A	5 A - 500 A		
25 °C	40 °C	25 ℃	40 °C	
_	_	_	_	
-	-	500 A	500 A	
400 A	400 A	450 A	420 A	
390 A	360 A	390 A	360 A	
80 V		80 V		
50 Hz / 60 Hz		50 Hz / 60 Hz		
3 x 35 A		3 x 35 A		
3 x 400 V (-2	5 % - +20 %)	3 x 400 V (-25 % - +20 %)		
17.5	kVA	24.6 kVA		
25 kVA		35 kVA		
624 x 298 x 535		624 x 298 x 535		
41 kg		45 kg		
	23	IP 23		

IEC 60 974-1; -10 / CE / S-Safety sign / EMC class A







Options/accessories

■TIG torch, rotary gas valve



TIG 17 GDV 4M

TIG welding torch, rotary gas valve, gas-cooled, decentral



TIG 26 GDV 4M

TIG welding torch, rotary gas valve, gas-cooled, decentral

Gouging



GT 600 SKK95 3

Gouging torch

Air arc gouging torch for separating metals

► Suitable carbon electrodes can be found in the Accessories section of the price list!

Remote controls, 14-pole



FR30 14POL

Remote control, current

Operating point setting directly at the site of welding

Robust metal casing with rubber feet, retaining clip and holding magnet

For Stick 350 cel and Stick 350 cel PWS



FR30PWS 14POL

Remote control, current pole reversal

Operating point setting directly at the site of welding

Robust metal casing with rubber feet, retaining clip and holding magnet

For Stick 350 cel PWS



FRF30 14POL

Remote control, vertical-down weld, current Operating point setting directly at the site of welding

Robust metal casing with rubber feet, retaining clip and holding magnet

For Stick 350 cel and Stick 350 cel PWS



FRF30 PWS 14POL

Remote control, vertical-down weld, current pole reversal

Operating point setting directly at the site of welding

Robust metal casing with rubber feet, retaining clip and holding magnet

For Stick 350 cel PWS

Remote controls, 14-pole



FR35 14POL

Remote control, hot start

Potentiometer for hot start current infinitely adjustable in % of maximum main current.

Potentiometer for hot start time infinitely adjustable from 0 to 2 sec.

Operating point setting directly at the site of welding

Robust metal casing with rubber feet, retaining clip and holding magnet

For Stick 350 cel and Stick 350 cel PWS

Remote controls, 19-pole



RT1 19POL

Remote control, current

Operating point setting directly at the site of welding

Robust metal casing with rubber feet, retaining clip and holding magnet

For Tetrix, Picotig 190 AC/DC, Pico 180 and Pico 300 cel / cel pws machine series



RT PWS1 19POL

Remote control, vertical-down weld, current pole reversal

Operating point setting directly at the site of welding

For all Textrix AC/DC machines (except Tetrix 230 AC/DC) and Pico 300 cel PWS



RTF1 19POL

Foot-operated remote control, current, with connection cable

Start/stop welding operation

Operating point setting directly at the site of welding

For Tetrix, Picotig 190 AC/DC, Pico 180 and Pico 300 cel / cel pws machine series

Transport carts



Trolly 39-1

Transport carts

For transporting a power source

For Phoenix 404, 405 / 505 and Taurus 404, 405 / 505