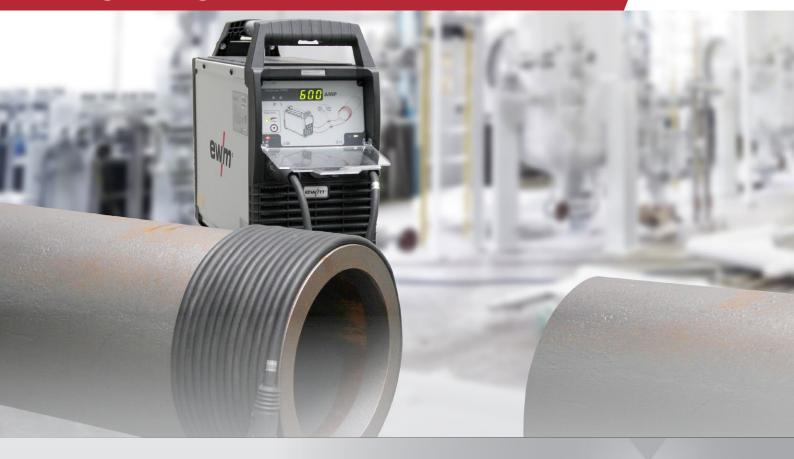


Degauss 600 / Pico 350 cel puls pws dgs

Degaussing of pipes and metal sheets



- / Degaussing of magnetic components before and during welding
- / Reliable welding process with no magnetic deflection of the arc



Degauss 600

Pico 350 cel puls pws dgs

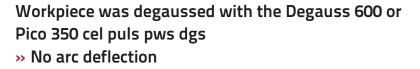
15 m

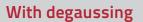
Arc deflection caused by magnetism is a thing of the past.

Magnetism is undesirable wherever steel is being welded. Residual magnetism in a component results in an unstable and deflected arc. The effect may be so great that welding is impossible.

Without degaussing

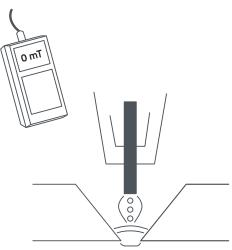
Workpiece is magnetised » Heavy arc deflection







Pico 350 cel puls pws dgs MMA Welding machine with degaussing function



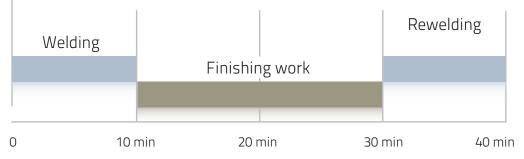






Inadequate welding results mean considerable finishing work, loss of time and high additional expenses

40 min of work – without degaussing



Example: 200-mm-diameter pipe with a wall thickness of 20 mm and a length of 10 m

Magnetism in the workpiece causes:

- / Instability of the arc
- / Uneven droplet detachment
- / Heavy spatter formation
- / Uneven sidewall fusion
- Reduce expenses, conserve resources and increase quality through high-quality welding results, minimising of finishing work and reducing material and gas consumption

20 min of work – with degaussing



Example: 200-mm-diameter pipe with a wall thickness of 20 mm and a length of 10 m

Outstanding welding results:

- / Stable arc
- / Even droplet detachment
- / Spatter-free
- / Good sidewall fusion



Arc deflection caused by magnetism is a thing of the past.

Magnetism caused by the mechanical separation of components, filing in preparation for welding or due to grinding processes occurs particularly frequently. For high-quality welding results, we recommend degaussing after mechanical processing and before the actual welding process (Application 1). Application is very easy thanks to automatic running of the degaussing program.

With very long, thick-walled and hard-to-reach components which are heavily magnetised, the magnetic field may return after degaussing. This will lead to arc deflection during welding. In this case, we recommend the "activgauss" function. Here, an opposing magnetic field is generated during the welding process (Application 2).

Application 1

Degaussing prior to welding

"Degaussing prior to welding" is especially suitable for pipes and metal sheets with a length of up to about 10 metres and a prevailing magnetic field strength of up to 20 mT.





Fields of application

- / Ferromagnetic materials and components
- / Up to 10 m component lengths
- / Up to 20 mT field strength

Very straightforward handling

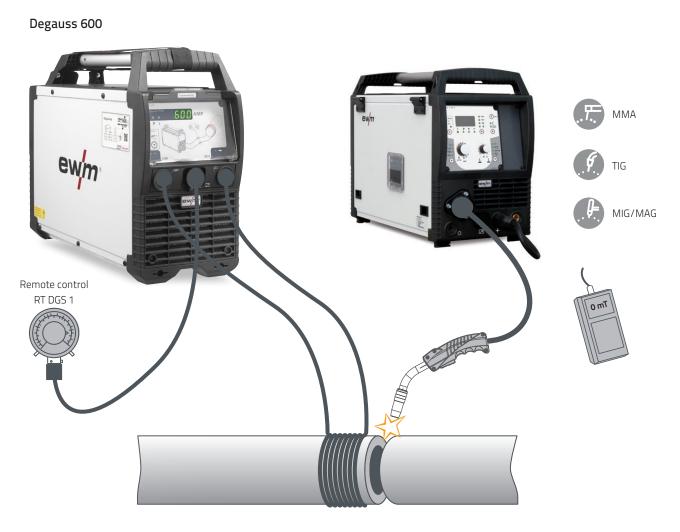
- / Single button operation automatic degaussing
- Quick connection to the component thanks to the practical load cable set



Application 2

activgauss – Generation of an opposing magnetic field during the welding process

With very long and thick-walled components, Application 2, "Magnetising during welding" is used (for example in crane construction and with kilometre-long pipe construction).



Degaussing **during** the welding process

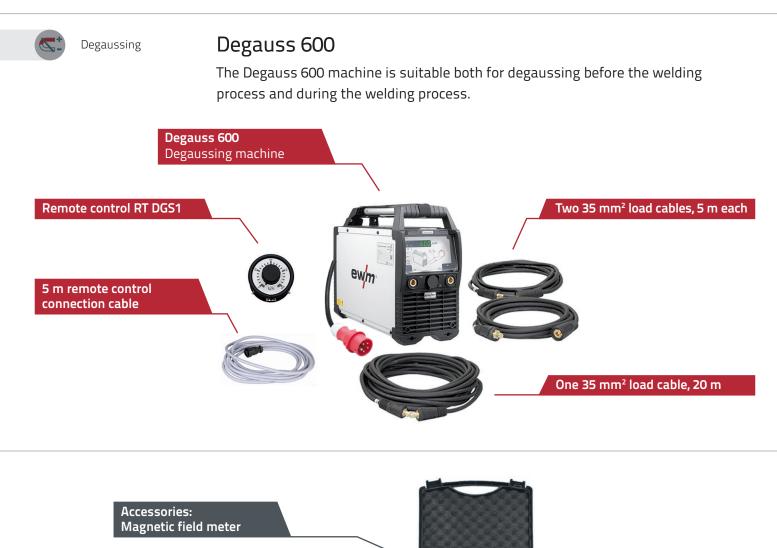
Fields of application

- / For very heavily magnetised, **long** and thick-walled ferromagnetic components
- / > 10 m component length
- / > 20 mT field strength

Very straightforward handling

- / Practical remote control for
 - / Setting the current for generating an adequately large opposing field
 - / Controlling degaussing (current on/off and polarity changes)
- / Quick connection to the workpiece thanks to the practical load cable set

Degaussing of pipes and metal sheets



How this benefits you – Degausser

- / Compact and suitable for construction sites
- / Portable and robust
- / High mains voltage tolerances +/- 20%
- / 100% generator-compatible

Technical data

Mains voltage: Temperature range: Dimensions (L x W x H): Weight: 3 x 400 V/16 A -25 °C to +40 °C 600 x 205 x 415 mm 25 kg









Degaussing

MMA welding

MAG CC-CV

TIG (lift arc)

Degaussing and welding with a single machine



Resistant to cold, heat, rain and dirt, extremely rugged for the toughest usage and, thanks to its light weight, ideal for changing deployment locations!

100% safe for vertical-down welding of CEL electrodes

MAG welding with Pico drive 4L or Pico drive 200C wire feeder

Degaussing of pipes and metal sheets prior to welding



- of foreign objects
- Insertable protective dust filter (optional)

placement in dirty and wet environments

Pico 350 cel puls pws dgs

Mains voltage:	3 x 400 V (-25% to +20%)
Mains fuse:	3 x 16 A
Open circuit voltage:	95 V
Welding current:	10–350 A
Duty cycle:	350 A, 35%
	280 A, 60%
	230 A, 100%
COS φ:	0.99
Efficiency:	88%



Pico 350 cel puls pws dgs with E-1.03 control (MMA Pro PWS) Selectable polarity





Pico drive 4L or Pico drive 200C Versatile in use thanks to MAG CC-CV for MAG welding and for self-shielded flux cored wires



Pico 350 cel puls pws dgs with cable set For degaussing prior to welding







Degauss 600



E1.02	 Dependable degaussing for better welding tic deflection, minimisation of finishing wo Portable and robust Quick connection at the pipe by means of Use at -25 °C to +40 °C with mains voltage Advantages of degaussing: No deflection of the arc by residual mage Prevention of lack of fusion due to insuff Minimisation of finishing work Cost-efficient and high-quality results 	three load cables tolerances of +/- 20% netism in the workpiece	process without magne-
	Mains voltage (tolerances) 3 x 400 V (-25 % - +20 %)		
doguesen	Mains fuses (slow-blow) 3 x 16 A		
	Degaussing current	600 A	
	cosφ	0,99	
	Efficiency	90 % 600 x 205 x 415	
	External dimensions, compl.		
	Weight	23,5 kg	
Type Designatio	n		ltem no.
•	Set: Degauss 600 degaussing machine, two 5-metre, 35 mm ² load cables, one 20-metre, 35 mm ² load cable, RT DGS1 remote control and 5-m connection cable		091-002065-00502
OW CEE 16A Factory-fit of	Factory-fit option, mains plug including fitting		092-008214-00000

- Remote control with a polarity reversing switch and start/stop function for Degauss 600
 - Remote control activates additional function generation of an opposing magnetic field during the welding process
 - Infinitely adjustable current (0% to 100%) to produce the required opposing magnetic field directly at the welding site

Туре	Designation	ltem no.
RT DGS1	Degauss remote control	090-008806-00000
RA5 19POL 5m	Connection cable e.g for remote control	092-001470-00005

FIM1-4 Set

 ±1% of measured value ±1 digit using calib Resolution: 0.01 mT Output: ±199.9 mV analogue output corresplay, X-Y plotter and A-D converter 	00 mT and 2000 mT attery or power-pack ue ±1 digit using internal calibration voltage, better than
External dimensions, compl. in mm	145 x 80 x 38
Weight	0.8 kg

Туре	Designation	ltem no.
FIM1-4 Set	Set: magnetic field meter, including Hall effect sensor	092-002937-00000



Pico 350 cel puls pws dgs



3~

Pico







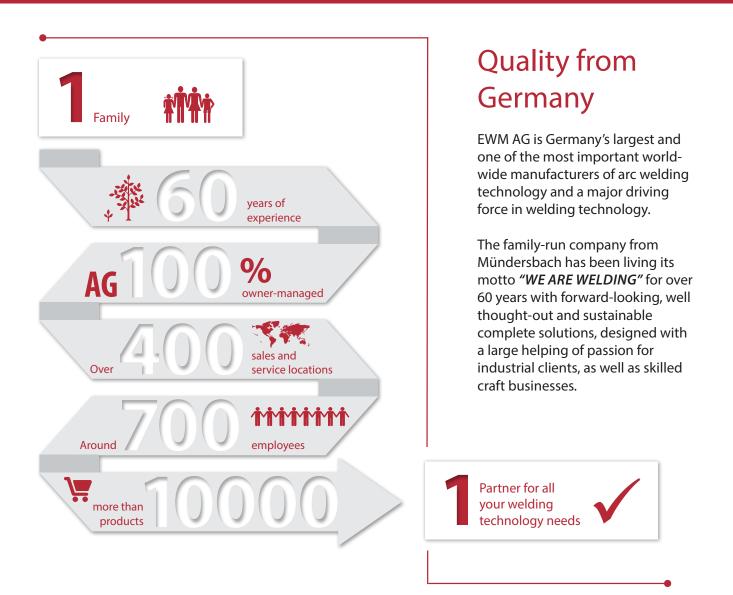
- MMA inverter welding machine, polarity reversing switch, degaussing
- GMAW welding with Pico drive 4L or Pico drive 200C wire feeder
- Suitable for flux cored wire welding
- CC/CV characteristic
- Degaussing function: Automatic degaussing of pipes and metal sheets prior to welding
- Stick electrode/MMA for all electrode types
- Stick electrode/MMA cellulose electrodes: 100% safe for vertical-down welding
- MMA/MMA pulse welding:
 - Particularly suitable for root welding
 - Very suitable for difficult electrodes
 - Outstanding gap bridging with no sagging of the root side
 - Less distortion due to controlled heat input
 - Less finishing work due to less spatter
 - Fine-flaked weld surface similar to a TIG look for final passes
- Welding polarity can be reversed by pressing a button (polarity reversing switch)
- Perfect vertical-up welding through PF pulse function
- Portable, shoulder strap
- Adjustable hot start current and hot start time
- Adjustable Arcforce
- Antistick function
- TIG lift arc welding
- Robust design suitable for construction site use
- Impact-resistant casing
- Inspected protection against splash water (IP-34s)
- Energy-saving thanks to high efficiency and standby function
- 5 m mains supply lead
- Mains connection 3 x 400 V/16 A

Mains voltage (tolerances)	3 x 400 V (-25 % - +20 %)
Mains fuses (slow-blow)	3 x 16 A
Open circuit voltage	95 V
Setting range for welding current	10 A - 350 A
Duty cycle 40 °C	350 A / 35 %
	280 A / 60 %
	230 A / 100 %
cosφ	0,99
Efficiency	88 %
Dimensions LxWxH in mm	600 x 205 x 415
Weight	25 kg

Туре	Designation	ltem no.
Pico 350 cel puls pws dgs	MMA inverter welding machine, polarity reversing switch, degaussing	090-002127-00502
Set LC 35 mm ²	Set: Two 5-metre load cables (35 mm ²) and one 20-metre load cable (35 mm ²) for degaussing	092-002921-00000
WK50 mm ² 4m/K	Welding lead	092-000003-00000
EH 50qmm 4m	Electrode holder with cable	092-000004-00000
OW CEE 16A	Factory-fit option, mains plug including fitting	092-008214-00000



Would you like to find out more? Call us or send us an email! We're always happy to hear from you. Tel.: +49 2680 181-0 | www.ewm-group.com/contact



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