

# Profi TIG 180 200 250 320

Robust professional machines with top additional functions

**Economically  
Reliable  
Robust**

These *single-phase* and *three-phase* air or water cooled TIG welding systems meet light to heavy industrial requirements and are usually combined with water cooling in the higher power class. The devices contain the latest technology. All types can be remotely controlled by the handle on the burner or by a foot pedal with 5 m cable.

Among others, the systems weld high alloy and stainless steels, copper alloys and titanium. Fastened to a trolley, you get an easily movable and flexible welding system for operation.

High switch-on times guarantee solid work and a very good welding quality. In addition, this system require only low service costs.

The **Profi TIG 180** welds sheets up to 5 mm in the area of high-alloyed and non-rusting steels and is used for simple welding tasks.

The **Profi TIG 200 puls DC** offers additional settings for pulsing on very thin sheets. This makes very sharp welds possible even with sheet thicknesses of 0.6 mm.



Profi TIG 200 AC/DC



Profi TIG 250 DC



- 2 / 4 - stroke
- Anti Sticking
- Hot Start
- Arc Force
- Digital display
- Remote control
- 4 AC waveforms (AC/DC-types)
- 9 memory slots (250 / 320)



Profi TIG 320 AC/DC

## Standard equipment

Welding system  
WIG welding torch TG 26 / 4 m  
Earth cable  
Pressure regulator  
Gas hose

## Type overview

Type overview	Cooling	Phase	Processes
Profi TIG 180 DC	G	1 (230 V)	WIG, spot / tacking
Profi TIG 200 pulse DC	G	1 (230 V)	WIG, spot / tacking, DC pulse
Profi TIG 200 AC/DC	G	1 (230 V)	WIG, spot / tacking, AC pulse, AC frequency
Profi TIG 250 DC	G / W	3 (400 V)	WIG, spot / tacking, DC pulse
Profi TIG 250 AC/DC	G / W	3 (400V)	WIG, spot / tacking, DC pulse, AC pulse, AC frequency
Profi TIG 320 DC	G / W	3 (400 V)	WIG, spot / tacking, DC pulse
Profi TIG 320 AC/DC	G / W	3 (400 V)	WIG, spot / tacking, DC pulse, AC pulse, AC frequency

**Aluminum  
Welding**

## Technical data

	<b>180</b>	<b>200 puls</b>
Supply voltage	230 V 50 Hz	230 V 50 Hz
Fuse, slow-blow	16 A	16 A
Welding area WIG	10 - 180 A	10 - 200 A
Welding area MMA	10 - 160 A	10 - 160 A
Open circuit voltage	60 V	62 V
Duty cycle (40° C)	35% - 180 A	35% - 200 A
Pulse frequency	-	0,2 - 200 Hz
Protection	IP 21	IP 21
Isolation class	F	F
Cooling	AF	AF
Dimensions L x W x H	365 x 135 x 280 mm	365 x 135 x 280 mm
Weight	6 kg	6 kg

	<b>250 DC</b>	<b>320 DC</b>
Supply voltage	3 x 400 V	3 x 400 V
Fuse, slow-blow	16 A	25 A
Welding area WIG	5 - 250 A	5 - 320 A
Open circuit voltage	62 V	62 V
Duty cycle (40° C)	35% - 250 A	35% - 320 A
Protection	IP 21	IP 21
Isolation class	F	F
Cooling	AF	AF
Dimensions L x W x H	490 x 240 x 470 mm	490 x 240 x 470 mm
Weight (G)	25 kg	27 kg
Weight (W)	-	-

	<b>200 AC/DC G</b>	<b>250 AC/DC GW</b>	<b>320 AC/DC GW</b>
Supply voltage	230 V	3 x 400 V	3 x 400 V
Fuse, slow-blow	16 A	16 A	25 A
Welding area WIG	5 - 200 A	5 - 250 A	5 - 320 V
Welding area MMA	10 - 160 A	-	-
Open circuit voltage	56 V	72 V	72 V
Duty cycle (40° C)	25% - 200 A	35% - 250 A	35% - 320 A
DC pulse frequency	0,2 - 200 Hz	0,5 - 500 Hz	0,5 - 500 Hz
AC pulse frequency	-	0,5 - 10 Hz	0,5 - 10 Hz
AC frequency	20 - 250 Hz	35 - 250 Hz	35 - 250 Hz
Protection	IP 21	IP 21	IP 21
Isolation class	F	F	F
Cooling	AF	AF	AF
Dimensions L x W x H	425 x 160 x 280 mm	540 x 250 x 480 mm	540 x 250 x 480 mm
Weight (G)	9 kg	25 kg	30 kg
Weight (W)	-	-	-

### Optional accessories 200, 250, 320 i.a.:

WIG welding torch TG 26, 8 m  
 WIG welding torch TG 26 - R, 4 m (with remote control) (not for 200)  
 WIG welding torch TG 26 - R, 8 m (with remote control) (not for 200)  
 WIG welding torch TG 18, 4 m (water-cooled) (not for 200)  
 WIG welding torch TG 18, 8 m (water-cooled) (not for 200)  
 WIG welding torch TG 18 - R, 4 m (water-cooled with remote control) (not for 200)  
 WIG welding torch TG 18 - R, 8 m (water-cooled with remote control) (not for 200)

Foot pedal remote control with 5 m cable (not for 200)  
 Water cooling system HS-18 (not for 200)  
 Trolley TR-11  
 Trolley for water cooling TR-2 (not for 200)  
 Big trolley for water cooling TR-31 (not for 200)