schweißkraft®
Schweißtechnik

MULTIFUNCTIONAL INVERTER



Multifunctional inverter *easymig* **181 Multi –** the portable multi-talent for MIG/MAG, TIG and electrode welding – perfect for any construction site with 230 V

- Easily adjustable setting of the work point through voltage and wire speed selection via one button each
- Best welding results due to reliable ignition and stable electric arc
- **Arc force control:** internal monitoring of the welding current and welding voltage reliably and safely resolves short-circuits. This stabilises the arc, and the electrode can be processed without any problems
- Filler wires can be easily welded by simply reversing the polarity
- User-friendly setting also for TIG and electrode

Info & Video







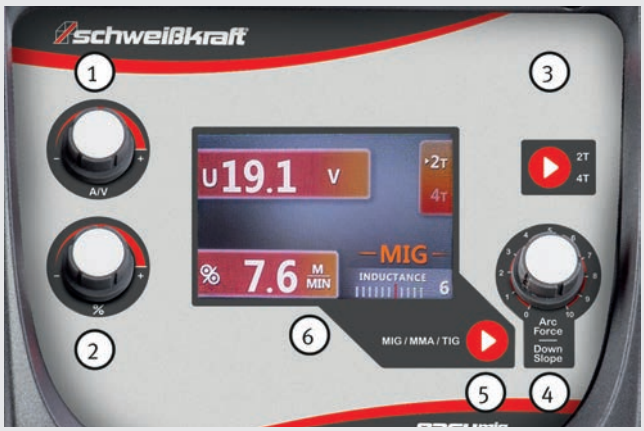
Scope of delivery

EASY-MIG 181 MULTI

- 3 m welding cable 16 mm² with 300 A electrode holder
- 3 m earth cable 16 mm² for 300 A with ground clamp
- Torch SMB 15 3 m
- Gas hose 4 m including quick connector
- Pressure regulator
- Feed roller V 0.8-1.0 mm

The control system:

1. *Rotary button for setting the welding voltage or current*
2. *Rotary button for wire feed speed parameters*
3. *Pushbutton for setting 2- or 4-cycle operation*



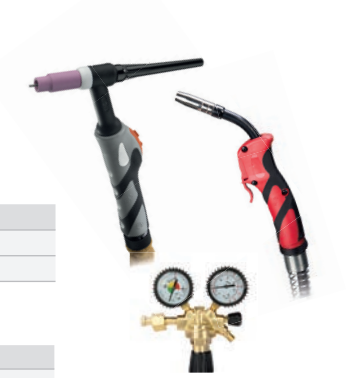
4. *Rotary button for ARC force and down slope*
5. *Pushbutton for setting MIG/MAG, TIG or manual electric welding operation*
6. *Display for welding voltage, current and other configured settings*

Model		Easy-MIG 181 Multi
Art. no.		1071181
Adjusting range		
MIG/MAG	A	40 – 180
Electrode	A	10 – 160
TIG DC	A	10 – 180
Duty cycle		
At max. Strom 40 °C MIG/MAG	%	20
At max. current 40 °C electrode	%	20
At max. current 40 °C TIG DC	%	20
Current at 100 % duty cycle 40 °C MIG/MAG	A	80
Current at 100 % DC 40 °C electrode	A	80
Current at 100 % duty cycle 40 °C TIG DC	A	70
Wire feed		
Wire feeder	Role	2
Power input		
MIG/MAG	kVA	8.41
Electrode	kVA	6.67
TIG DC	kVA	8.4
Electrical data		
Supply voltage	V	230
Phase(s)	Ph	1
Current type		AC
Mains frequency	Hz	50/60
Dimensions and weights		
Dimensions (L x W x H)	mm	525 x 220 x 410
Weight approx.	kg	14.5
Standards and certifications		
Degree of protection		IP 21 S
Standard		EN 60 974-1; -10
EMC level		A
Identifier		CE





Polarity reversible on inside for flux core wires



Torch

Designation	Art. no.
4 m TIG torch SR26 gas-cooled	1104004
Torch SMB 15/3 m with pushbutton	1091503

Accessories

Designation	Art. no.
Pressure regulator Argon/CO2, large	1700050
Wear part set VTS SR 17/SR18/SR26 1x torch cap short, 1x torch cap medium, 1x torch cap long, 1x gas tip size 5 / 8 mm, 1x gas tip size 6 / 9.8 mm, 1x gas tip size 7 / 11.2 mm, 1x gas tip size 8 / 12.7 mm, 1x gas tip size 10 / 15.7 mm, 1x clamping sleeve 1.6 mm, 1x clamping sleeve 3.2 mm, 1x clamping sleeve 4.0 mm, 1x clamping sleeve 2.4 mm, 1x clamping sleeve 1.6 mm, 1x Clamping sleeve housing 2.4 mm, 1x clamping sleeve housing 3.2 mm, 1x clamping sleeve housing 4.0 mm, 1x Teflon seal for tip	1100152
Wear part set SMB 15 1 sorting box, 1x gas tip holder, 2x retaining spring, 10x contact tip M6 Ø 0.8/25 mm, 10x contact tip M6 Ø 1.0/25 mm, 2x gas tip conical Standard NW dm 1.2, 1x gas tip cyl.	1091501
Trolley for all portable SK devices and gas cylinder up to max. 20 L	1090015



Wear part set



VST SMB 15



Carriage

Earth cable complete with clamp

Designation	Art. no.
MK4/25 KS13 200 A	1250225



Welding cable complete with electrode holder

Designation	Art. no.
SK4/25 KS13 EH260	1250361
SK4/35 KS13 EH400	1250362



Feed roll

Designation	Art. no.
0.8/0.9 mm K slot	1171001
0.6/0.8 mm V slot	1171002
0.8/1.0 mm V slot	1171003
0.8/1.0 U slot	1171004

KOMBI Multifunctional inverter – for MIG/MAG, TIG and electrode welding.
Light and robust multifunctional inverters, ideal for use on the construction site

Hot-start function
- Ignition aid for igniting the arc on a stick electrode for electrod welding. Thanks to an automatic, short-term increase of the welding current, the arc lights immediately and is stable.

Arc force control
- The welding output in electrode welding is kept as constant as possible at the preset value. The arc is stable, even with difficult electrodes or positions; the welding results are more uniform.

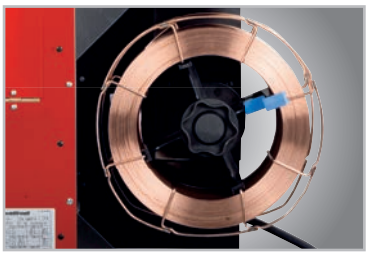
Anti-stick function
- If the electrode inadvertently sticks on the workpiece, the welding current is switched off. The electrode does not anneal and can be easily removed from the workpiece.

Flux core wire
- Extended range of applications due to the possibility of using flux core wires, e.g., also possible without a gas cylinder on construction sites, massive mobility benefits

Configurable electronic choke
- For optimum adaptation of the arc, from hard to soft, to suit the application

Lift-arc ignition
- Scratch start ignition in TIG welding with minimal current. The preset welding current is not released until the arc has ignited.

For models with 4 reel wire feeder
- Precise wire feeding, also perfect for aluminium wires.



KOMBI 171 ED / 270 / 350
The open design means that 15 kg wire spools can be used









KOMBI 171 ED



KOMBI 270



KOMBI 350

The control system:



1. Wire feed adjustment button
2. Welding method selection switch (electrode - TIG - MIG/MAG)
3. Voltage adjustment button
4. Electronic inductivity adjustment button
5. Welding current socket (+)
6. Welding current socket (-)
7. Selection switch 2-/4-cycle
8. Overheating indicator
9. Welding current adjustment button
10. Remote control connection
11. Torch connection



1. Electronic inductivity adjustment button
2. Voltage adjustment button
3. Welding method selection switch (electrode - TIG - MIG/MAG)
4. Wire feed adjustment button
5. Overheating indicator
6. Welding current adjustment button
7. Selection switch 2-/4-cycle
8. On/Off display
9. Welding current socket (+)
10. Welding current socket (-)
11. Torch connection

The controls on the KOMBI 270 and KOMBI 350 are identical

Model		KOMBI 171 ED	KOMBI 270	KOMBI 350
Art. no.		1087057	1087055	1087056
Technical specifications				
Weldable electrode Ø	mm	4.0	1.6 - 6.0	
Setting range MIG/MAG	A	15 – 170	15 – 270	15 – 350
Power consumption MIG	VA	4.4	6.4	8.6
DC at max. current 40 °C MIG/MAG	%	50	50	30
Current at 100 % duty cycle 40 °C MIG/MAG	A	125	180	230
TIG DC setting range	A	5 – 170	5 – 250 A	5 – 320
Power consumption TIG DC	kVA	3.3	5.6	7.8
DC at max. current 40 °C TIG DC	%	60	70	60
Current at 100 % duty cycle 40 °C TIG DC	A	130	210	260
Electrode setting range	A	5 – 170	5 – 250	5 – 320
Electrode power consumption at 100%	kVA	4.6	8.0	9.8
DC at max. current 40 °C electrode	%	50	60	40
Current at 100 % DC 40 °C electrode	A	125	195	230
Mains voltage	V	230 ±10	3 x 400 ±10	
Open circuit voltage	V	75		
Wire feeder	Rollers	2	4	
Frequency	Hz	50/60		
Fuse	A	16		
Degree of protection		IP 23S		
Insulation class		F		
Operating temperature	°C	-10 – +40		
Weight approx.	kg	17.5	24.5	
Dimensions (L x W x H)	mm	520 x 200 x 370	760 x 228 x 475	
Standards		EN 60 974-1;-3;-10 / S mark / EMC - class A		
The process				
MIG/MAG		Yes		
TIG LIFT-ARC		Yes		
Electrode welding		Yes		
Flux core wire welding without gas		Yes		



KOMBI 171 ED



KOMBI 270



KOMBI 350

Scope of delivery **KOMBI**

- **Without basket spool adapter**
- **Without torch**
- **Without earth cable**
- **KOMBI 171 ED:**
- Feed roller V 0.8-1.0 mm
- **KOMBI 270/350:**
- Feed roller V 1.0-1.2 mm

Torch		Art. no.
Torch kit 15/25	SMB 15/4 m gas-cooled, earth cable 25 mm² 4 m, pressure reg.	1091510
Torch kit 25/35	SMB 25/4 m gas-cooled, earth cable 35 mm² 4 m, pressure reg.	1092510
Torch kit 36/50	SMB 36/4 m gas-cooled, earth cable 50 mm² 4 m, pressure reg.	1093611
Torch TIG WP 26 V/4 m		1462614



Torch kit

Welding workplace equipment

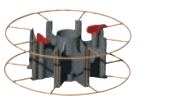
Consisting of: welding cable PVC 5 m with electrode holder and welding cable plug, earth cable PVC 3 m with ground clamp, and welding cable plug, chipping hammer, wire brush 2-row, manual protection shield polypropylene (CE) welding visor DIN 9, lens 90x110 mm, 5-finger gloves



Welding workplace equipment

SPA 16 mm²/KS 10-25 mm²/ Pratica 1/ground clamp 200 A	1240400
SPA 25 mm²/KS 35-50 mm²/ Pratica 1/ground clamp 200 A	1240445
SPA 35 mm²/KS 35-50 mm²/ Pratica 2/ground clamp 600 A	1240450

Adapter	Art. no.
Basket spool adapter KA 2, with quick release coupling	1110005
Basket spool adapter KA 3, two-part	1110006
Centring adapter for D 200 coils two-part	1110007



Basket spool adapter KA 2



Basket spool adapter KA 3



Centring adapter

Accessories KOMBI 171 ED

Manual remote control with 5 m control cable, accessories for multifunctional inverter for remotely controlling the welding current in electrode and TIG welding	1090001
G-BOX - Adapter for operation with generator. The G-Box is an adapter for operations with generators. It sits between the generator and the welding equipment and protects the inverter against power peaks, max. 400 V, rated current 27 A 60 %, max. output current 20 A	1090006



Manual remote control



PULS-BOX



G-Box



Remote control foot pedal

Accessories all models

PULSE BOX with 5 m control cable: Supports, e.g., welding of thin sheets and out-of-position welding.	1090000
Remote control foot pedal, with 8 m control cable With the remote control foot pedal, you can switch the arc on and off independently of the torch button. This also gives the welder the ability to adapt the arc to various requirements while welding.	1090002
Trolley for all portable SK devices and gas cylinder up to max. 20 L	1090015
Pressure regulator Argon/CO_2 large	1700050
Gasless flux core wire MT-FD 4.5kg, D200, 0.9 mm*.	1132000
Gasless flux core wire MT-CS 15 kg, K 300, 1, 2 mm*.	1132001

*For more details see MIG/MAG wire/filler wire in the Filler wire section





Carriage