



Multifunctional inverter
Inverter TIG welding devices

Multifunctional inverter



KOMBI model range 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 electrode welding. An automatic, short-term increase in the welding current ensures immediate stable ignition of the arc

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). Benefits: 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.

Pulse welding in TIG mode with pulse box

- ▶ Weld faults at the start and end of the weld, e.g., in pipe welding, are avoided by pulsing.

MIG welding without a cylinder (KOMBI 171 ED)

- ▶ The KOMBI 171 ED extends the field of application through the ability to use flux core

wires. This makes MIG welding possible, e.g., on construction sites without a gas cylinder, a major mobility benefit.

Lift-arc ignition

(KOMBI 171 ED, KOMBI 270, KOMBI 350)

- ▶ Scratch start ignition in TIG welding with minimal current. The preset welding current is not released until the arc has ignited. The benefit is easy ignition without the tungsten tip sticking on the workpiece, and thus a stable arc.

Configurable electronic choke

(KOMBI 171, KOMBI 270, KOMBI 350)

- ▶ For optimum adaptation of the arc, from hard to soft, to meet requirements

4-roll feed

(KOMBI 270, KOMBI 350)

- ▶ For precise wire feeding, also perfect for aluminium wires

Process

- ▶ MIG/MAG
- ▶ TIG DC with LIFT-ARC (KOMBI 171/270 /350)
- ▶ Electrode welding
- ▶ Flux core wire welding without gas (KOMBI 171 ED)

Sheet thicknesses

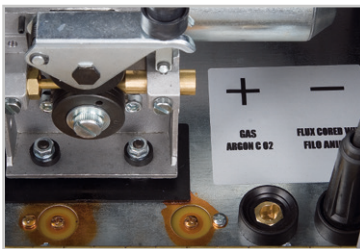
- ▶ TIG from approx. 0.5 mm
- ▶ MIG/MAG from approx. 1 mm
- ▶ Electrode from approx. 2 mm

Base materials

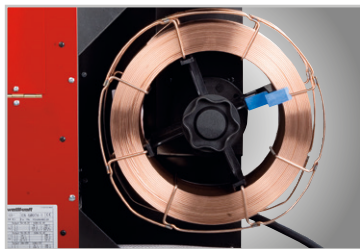
- ▶ Low alloy materials
- ▶ High alloy materials
- ▶ Construction steels
- ▶ Coated construction steels
- ▶ CrNi steels ferritic/austenitic
- ▶ Duplex steels
- ▶ Nickel-based materials
- ▶ Copper
- ▶ Aluminium
- ▶ Special materials

Typical applications

- ▶ Plant, container, machine, steel construction
- ▶ Maintenance/repairs
- ▶ Vehicle manufacturing/construction machinery
- ▶ Plant and pipeline construction
- ▶ Construction site and mobile use



Polarity inversion for the use of flux core wires with the KOMBI 171 ED



The open design of the KOMBI 171 ED means that 15 kg wire spools can be used.

The controls



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
MIG AC duty cycle 40 °C	%	50 (170 A)	50 (250 A)	30 (320 A)
MIG AC welding current at DC 100%	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
TIG DC duty cycle	%	60 (170 A)	70 (250 A)	60 (320 A)
TIG DC welding current DC 100%	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
Electrode electrode	%	50 (170 A)	60 (250 A)	40 (320 A)
Electrode welding current DC 100%	A	125	195	230
Mains voltage	V	230 ±10%	3 x 400 ±10%	
Open circuit voltage	V		75	
Maximum current consumption	A	27	16	24
Frequency	Hz		50/60	
Fuse	A		16	
Degree of protection			IP 23S	
Insulation class			F	
Operating temperature	C		-10 +40 °C	
Weight	kg	17.5	24.5	24.5
Dimensions (L x W x H)	mm	520 x 200 x 370	760 x 475 x 228	760 x 475 x 228
Standards		EN 60 974-1;-3;-10 / S mark / EMC - class A		



KOMBI 171 ED
With Lift arc ignition



KOMBI 270



KOMBI 350

Torches for the KOMBI model range

Designation	Art. no.
Torch MIG/MAG SMB 15/3 m with pushbutton	1091503
Torch MIG/MAG SMB 25/3 m with pushbutton	1092503
Torch MIG/MAG SMB 36/3 m with pushbutton	1093603
Brenner WIG WP 17 V/4 m mit Gasregler für KOMBI 171 ED	1461745
Torch TIG WP 26 V/4 m for KOMBI 270 and KOMBI 350	1462614

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

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

Basket spool adapter

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

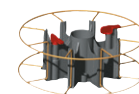
Accessories KOMBI

Manual remote control with 5 m control cable, accessories for multifunctional inverter SCHWEIßKRAFT KOMBI 171 ED, for remotely controlling the welding current in electrode and TIG welding	1090001
PULSE BOX with 5 m control cable	1090000
Supports, e.g., welding of thin sheets and out-of-position welding	
Remote control foot pedal , with 8 m control cable	1090002
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.	
G-BOX - Adapter for operation with generator (for KOMBI 171 ED). 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
Trolley for all portable SK devices and gas cylinder up to max. 20 L	1090015
Pressure regulator Argon/CO ₂ , large	1700050
Gasless filler wire MT-FD 4.5kg, D200, 0.9 mm*	1132000
Gasless filler 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



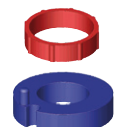
Welding workplace equipment



Basket spool adapter KA 2



Basket spool adapter KA 3



Centring adapter



Manual remote control



PULSE-BOX



G-Box



Remote control foot pedal



Drive trolley

Inverter TIG welding devices

New

EASY-Tig 201 DC PULSE – portable TIG DC inverter for workshops and mobile use

EASY-TIG 201 AC/DC PULSE – portable TIG DC inverter for workshops and mobile use

- ▶ All devices implemented with state-of-the-art inverter technology
- ▶ Perfectly suited for mobile work (on ladders, on scaffolding, etc.) and also generally suitable for outdoor work thanks to IP 23 degree of protection
- ▶ TIG DC function = supports easy TIG welding
- ▶ Precise setting of the correct welding parameters via digital display
- ▶ Universally deployable for welding with all popular electrode types
- ▶ Suitable for use with generator, e.g., in company workshops, schools, metalworking, on building sites, or for agricultural applications
- ▶ TIG pulse supports welding with lower heat input
- ▶ **HF high-frequency ignition** ignites the arc in TIG welding without touching the workpiece
- ▶ The low-noise fans capably dissipate heat from the devices thus ensuring a high duty cycle



EASY-TIG 201 AC/DC PULSE



The control system:

- 1 MMA/LIFT/HF TIG selection switch
- 2 AC/DC selection switch
- 3 TIG 2T/4T mode selection switch
- 4 Parameter selection and setting button
- 5 TIG parameter setting
- 6 Mode Display / Data Display
- Hot start
- Welding current
- Arc power





Model	EASY-TIG 201 DC PULSE	EASY-TIG 201 AC/DC PULSE
Art. no.	1074020	1074021
Technical specifications		
Weldable electrode Ø	1.6~4.0 mm	1.6~4.0 mm
Sheet thicknesses	1.0~8.0 mm	1.0~8.0 mm
TIG DC setting range	5~200 A	10~200 A
Electrode setting range	5~200 A	10~170 A
Supply voltage 50/60 Hz	1 Ph / 230 V±10%	1 Ph / 230 V±10%
Duty cycle at I _{max} . 40 °C TIG DC	30 %	35 %
Duty cycle at I _{max} . 40 °C electrode	30 %	40 %
Current at 100 % duty cycle 40 °C TIG DC	120 A	120 A
Current at 100 % DC 40 °C electrode	120 A	110 A
Pulse frequency	0.5~200 Hz	0.5~200 Hz
Power draw	4.9/6.2 kVA	7.0/9.5 kVA
Dimensions (L x W x H)	430 x 150 x 280 mm	460 x 150 x 280 mm
Net weight	7.8 kg	7 kg



EN 60974-1:2006-07/EN 60974-10:2008-10; all devices degree of protection IP23

Scope of supply EASY-TIG 201DC PULSE

- Gas hose 4 m incl. quick connector
- Torch TIG 26 4m
- 3 m earth cable 16 mm² with ground clamp
- 3 m welding cable 16 mm² with electrode holder

Scope of supply EASY-TIG 201 AC/DC PULSE

- Gas hose 4 m incl. quick connector
- Torch TIG 26 4m
- 3 m earth cable 16 mm² with ground clamp

Mapping table for material type and material thickness

Material	Large ceramic gas tip	Material thickness mm	Tungsten electrode Ø mm	Welding current, Ampere
Steel/ Stainless steel	4	1.0	1.0	10-60
	5	1.5	1.0-1.6	40-80
	5	2.0	1.6	70-120
	6	3.0	1.6-2.4	90-150
	7	4.0-6.0	2.4-3.2	140-180
	Aluminium (only with AC/DC)	4	1.0	1.0
5		1.5	1.6	40-80
5		2.0	1.6	70-120
6		3.0	2.4	90-150
7		4.0	3.2	140-180
7		5.0	3.2	170-180
Copper/ Copper alloys	4	1.0	1.0	60-80
	5	1.5	1.6	100-150
	6	3.0	2.4	150-180

Set articles

Designation	Art. no.
EASY-TIG 201 DC PULSE SET	1074020SET
Consisting of: Gas hose 4 m incl. quick connector, torch TIG 26 4 m, VarioProtect XXL W welding helmet, 3 m ground cable 16 mm ² with ground clamp, 3 m welding cable 16 mm ² with electrode holder	
EASY-TIG 201 AC/DC PULSE SET	1074021SET
Consisting of: Gas hose 4 m incl. quick connector, torch TIG 26 4 m, VarioProtect XXL W welding helmet, 3 m ground cable 16 mm ² with ground clamp	

Torch for TIG DC and AC/DC

Designation	Art. no.
TIG 26 with 4 m	On request

Accessories for EASY-TIG 201 DC PULSE

Designation	Art. no.
① Wireless manual remote control	1174004
② Up/down torch	On request
③ Remote control torch	On request
④ Foot pedal, 5 m	1174009

Accessories for EASY-TIG 201 AC/DC PULSE

Designation	Art. no.
② Up/down torch	On request
③ Remote control torch	On request
④ Foot pedal, 5 m	1174009



Inverter TIG welding devices New

CRAFT-TIG 201 DC P PULSE – portable TIG DC inverter for workshops and mobile use

CRAFT-TIG 201 AC/DC P PULSE – portable TIG AC/DC inverter for workshops and mobile use

- ▶ All devices implemented with state-of-the-art inverter technology
- ▶ Perfectly suited for mobile work (on ladders, on scaffolding, etc.) and also generally suitable for outdoor work thanks to IP 23 degree of protection
- ▶ Universally deployable for welding with all popular electrode types
- ▶ TIG pulse supports welding with lower heat input
- ▶ **HF high-frequency ignition** ignites the arc in TIG welding without touching the workpiece

- ▶ The low-noise fans capably dissipate heat from the devices thus ensuring a high duty cycle
- ▶ **Sealed PC ensures** protection against moisture, salt spray mist and corrosion Thus also suitable for offshore use
- ▶ Precise setting of the correct welding parameters via digital display with job memory
- ▶ Device equipped with **PFC** (power factor correction) for best possible use also when connected to cable drums

Always the right wave for your task:

- ① **Alternating current triangle wave welding output**
 - ▶ Lower heat input with the same current setting. Particularly useful for welding thin metals
- ② **Alternating current sinus wave welding output**
 - ▶ Traditional AC TIG welding wave form. Quieter "soft" arc characteristic
- ③ **Alternating current square wave**
 - ▶ Focused arc for maximum penetration fast move speed and best possible directional control



Generator Friendly



Multivoltage Einsatz weltweit

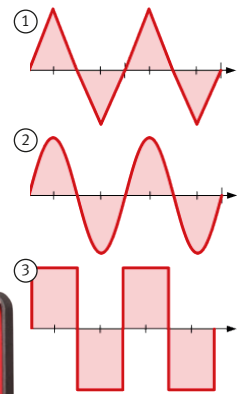


PROTEC 440V
440V Tested in production 220V



Power Factor Correction

With pulse function



CRAFT-TIG 201 DC P PULSE

CRAFT-TIG 201 AC/DC P PULSE

The control system:

- ① Parameter selection and setting button
- ② Digital display multifunction display
- ③ Selection switch TIG HF, Lift Arc and MMA
- ④ Selection switch AC / DC



- ⑤ Selection switch gas or water-cooled
- ⑥ TIG 2T/4T mode selection switch
- ⑦ MMA Display
- ⑧ TIG parameter setting



Model	CRAFT-TIG 201 DC P PULSE	CRAFT-TIG 201 AC/DC P PULSE
Art. no.	1074201	1074202
Technical specifications		
Weldable electrode Ø	1.6~4.0 mm	1.6~4.0 mm
Sheet thicknesses	1.0~8.0 mm	1.0~8.0 mm
TIG DC setting range	5~200 A	5~200 A
Electrode setting range	5~200 A	5~200 A
Supply voltage	1 Ph / 230 V±10%	1 Ph / 90~275 V
Duty cycle at I _{max.} 40 °C TIG DC	50 %	60 %
Duty cycle at I _{max.} 40 °C electrode	30 %	35 %
Current at 100 % duty cycle 40 °C TIG DC	145 A	155 A
Current at 100 % DC 40 °C electrode	135 A	110 A
Pulse frequency	0.5~200 Hz	0.5~200 Hz
Power draw	10.0/8.0 kVA	7.0/4.8 kVA
Dimensions (L x W x H)	430 x 150 x 280 mm	580 x 190 x 350 mm
Net weight	9 kg	15 kg

EN 60974-1:2006-07/EN 60974-10:2008-10; all devices degree of protection IP23

Scope of supply CRAFT-TIG 201 DC P PULSE

- Gas hose 4 m incl. quick connector
- Torch TIG 26 4m
- Pressure regulator
- 3 m earth cable 16 mm² with ground clamp
- 3 m welding cable 16 mm² with electrode holder

Scope of supply CRAFT-TIG 201 AC/DC P PULSE

- Gas hose 4 m incl. quick connector
- Torch TIG 26 4m
- Pressure regulator
- 3 m earth cable 16 mm² with ground clamp

Set articles

Designation	Art. no.
CRAFT-TIG 201 DC P PULSE SET	1074201SET
Consisting of: Gas hose 4 m incl. quick connector, torch TIG 26 4 m, pressure regulator, VarioProtect XXL W welding helmet, 3 m ground cable 16 mm ² with electrode holder	
CRAFT-TIG 201 AC/DC P PULSE SET	1074202SET
Consisting of: Gas hose 4 m incl. quick connector, torch TIG 26 4 m, pressure regulator VarioProtect XXL W welding helmet, 3 m ground cable 16 mm ² with ground clamp	

Torch for TIG DC and AC/DC

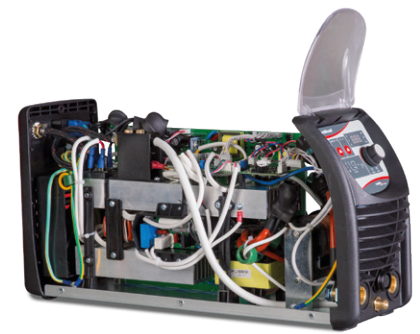
Designation	Art. no.
TIG 26 with 4 m	1101126
Water-cooled torches	On request
⑤ Up/down torch	On request
⑥ Remote control torch	On request

Accessories for CRAFT-TIG 201 AC/DC P Pulse

Designation	Art. no.
① Carriage	1174001
② Water cooler 230 V 4 l	1174002
③ Wireless foot pedal remote control	1174007
④ Wireless manual remote control	1174003
⑦ Foot pedal, 5 m	1174009

Accessories for CRAFT-TIG 201 DC P Pulse

Designation	Art. no.
④ Wireless manual remote control	1174004
⑤ Up/down torch	On request
⑥ Remote control torch	On request
⑦ Foot pedal, 5 m	1174009



CRAFT-TIG 201 DC P PULSE



CRAFT-TIG 201 AC/DC P PULSE



Carriage with water cooler 230 V 4 l



FINANCING THROUGH LEASING

Leasing offers companies a number of advantages over purchase or credit financing. The most important aspects are:

Tax benefits

Leasing instalments are fully tax deductible as operating expenses if the leased object is assigned to the lessor for tax purposes.

Balance sheet neutral

Leasing objects do not appear in the lessee's balance sheet. Only the leasing instalments are recorded as operating expenses in the profit and loss account. The equity ratio and the debt ratio do not change. The lessor capitalises the leased asset as fixed assets or leased assets. (Off-balance-sheet financing)

Calculation basis

The leasing rate is not influenced by changes in interest rates or ratings, even in the long term, and thus serves as a reliable basis for calculation.

Liquidity

Since the leasing company is responsible for financing the object, the lessee has more financial leeway for future decisions. Additionally, dependency on banks is reduced.

"Pay as you earn" considerations

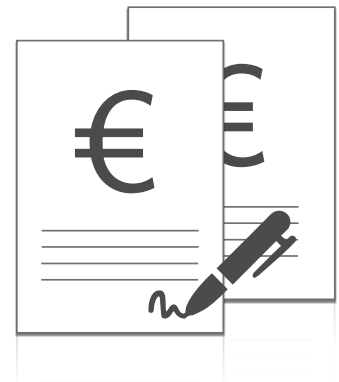
As the leasing instalments are due parallel to the use of the object, the leasing object more or less finances itself (effect/cost congruity). Financing costs are spread over the duration of use and thus also over the period in which income is generated from the object. Advance financing is thus avoided.

Planning reliability

The amount of the leasing instalments and contract term are fixed from the start.

Individual contract design

The individual contract design with regard to term, amortisation and payment flow, and method of payment makes it possible to adapt to different needs.



Please ask us for your personal quotation!

Talk to your retailer or request information by email **free of charge and without obligation** at leasing@stma.de.

