Multifunctional 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 avoiding 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

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**The controls**

- **Adjustment Wire feed**
- **Welding method selection switch** (electrode - TIG - MIG/MAG)
- **Voltage setting**
- **Setting button - Electronic inductivity**
- **Welding current setting**
- **Welding current socket (+)**
- **Welding current socket (-)**
- **Selector switch 2-/4-cycle**
- **Setting button - Electronic inductivity**
- **Welding current setting**
- **Welding current socket (+)**
- **Welding current socket (-)**
- **Selector switch 2-/4-cycle**
- **Welding method selection switch (electrode - TIG - MIG/MAG)**
- **Voltagy setting**
- **LED overheating indicator**
- **Remote control connection**
- **Torch connection**
- **LED display: “On” - “Off”**

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

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

<table>
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<tr>
<th>Model</th>
<th>KOMBI 171 ED</th>
<th>KOMBI 270</th>
<th>KOMBI 350</th>
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<td>Art. no.</td>
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### Torches for the KOMBI model range

**Designation**
- Torch MIG/MAG SMB 15/3 m with pushbutton
- Torch MIG/MAG SMB 25/3 m with pushbutton
- Torch MIG/MAG SMB 36/3 m with pushbutton
- Brenner WIG WP 17 V/4 m mit Gasregler für KOMBI 171 ED
- Torch TIG WP 26 V/4 m for KOMBI 270 and KOMBI 350

**Basket spool adapter**
- Basket spool adapter KA 2, with quick release coupling
- Basket spool adapter KA 3, two-part
- Centring adapter for D 200 coils two-part

**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
- PULSE BOX with 5 m control cable
- Remote control foot pedal, with 8 m control cable
- 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
- Trolley for all portable SK devices and gas cylinder up to max. 20 L
- Pressure regulator Argon/CO₂, large
- Gasless filler wire MT-FD 4.5 kg, D200, 0.9 mm*
- Gasless filler wire MT-CS 15 kg, K 300, 1, 2 mm*

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

### Drive trolley

- Manual remote control
- PULS-BOX
- G-Box
- Remote control foot pedal
- Basket spool adapter KA 2
- Basket spool adapter KA 3
- Centring adapter