

# Technical data-sheet for Double-welding-head DK-2110

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### Benefits:

- Double-welding-head for welding-forces up to 1.500 N per each head
- Modular design for highest compatibility to other KombiTec products
- Compact and flexible design with minimal own and moved mass
- Precise positioning, stability and resilience through pre-loaded ball bearings
- Excellent displacement behaviour due to pre-load-free anti-torque design for electrode-holders
- Welding-heads separate moveable
- Electrodes pressing-force per welding-heads separate adjustable
- Easy-to-upgrade possibilities displacement- and force-measuring sensors

### Options:

- Various, simple to install displacement-sensors
- Force-measuring-sensors of electrodes with electrical measuring of air-pressure

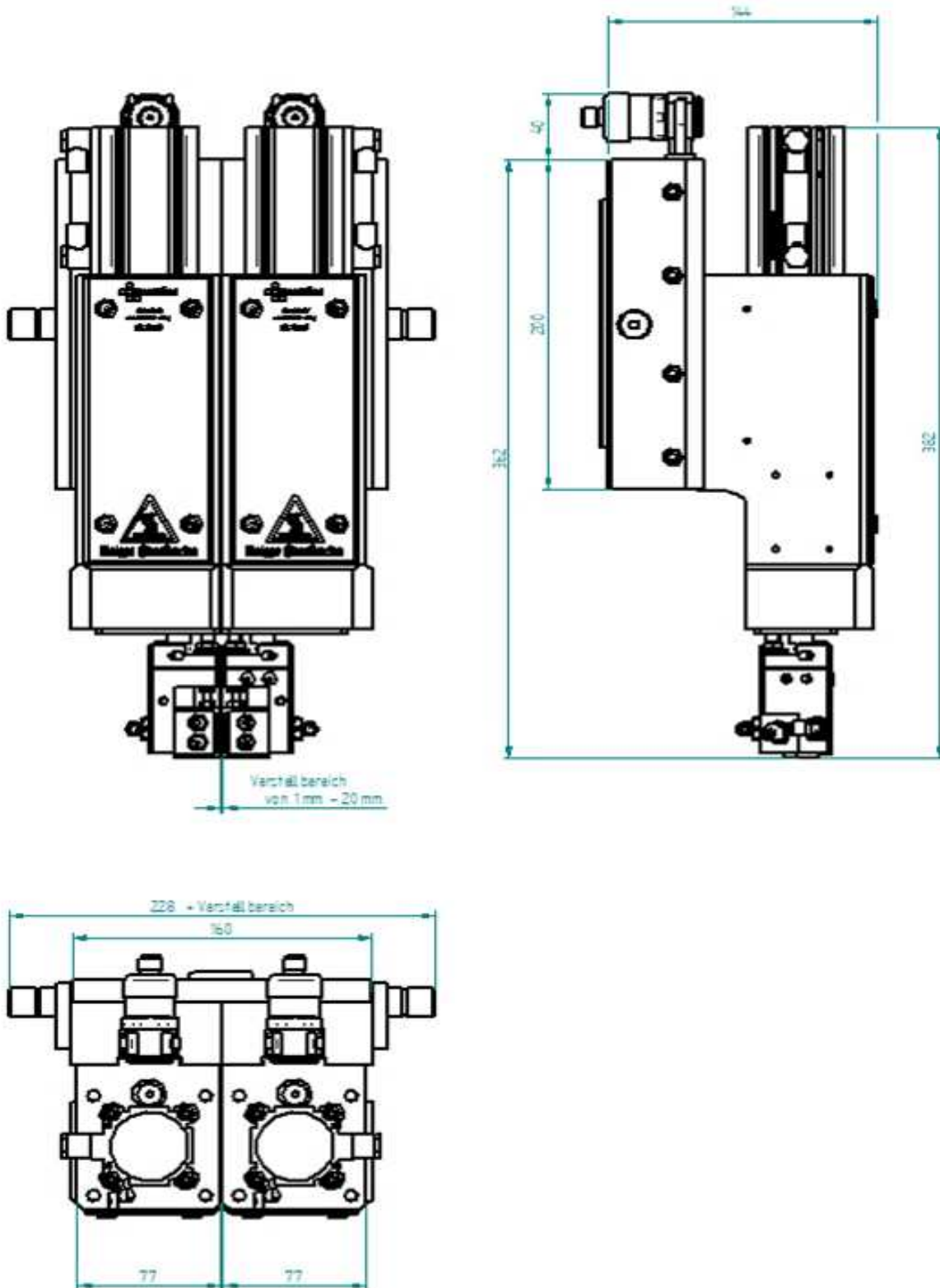
### Applications:

These double-welding-head are designed for application, which needs medium up to higher electrode-forces. Typically products are:

- Lightning-industry: tungsten-made glowing-filaments, molybdenum-made fixator-pins, and –reflectors,
- Automotive-industry: sensors, welded into plastic-moulded stamped-/bended components
- Electrical/Electrical: active / passive components, wires, filaments, hard-soldering
- Energy technology: contacting wires with connectors in solar-current productions
- Consumer goods: cooking and deep-frying equipment, pots, pans, “white goods”, “brown goods”

**Dimensions:**

Double welding-head DK-2110, without further attachments



**Technical changes:**

Technical modifications and price-changes without notices. All dimensions are in „mm“. No liability can be accepted for printing errors.

### Technical data:

#### Welding-heads:

=> Cylinder-diameter:	Ø40mm / Ø63mm
=> Working-stroke:	approx. 30,0mm
=> Displacement-stroke:	approx. 3,0mm
=> Theoretical force (at 5,0bar):	1.500N (each electrode)
=> Max. weight of electrodes:	< 10N (recommended)
Pressed air:	filtered, 5 µm, oiled or dry
Pneumatic connections:	inside-tread G1/4"
Pneumatic diameter:	Tube-Ø 8mm
Working pressure:	3,0 – 7,0bar
Working temperature:	0°C – 60°C
Repeatability:	± 0,01mm
Air consumption per cycle:	0,80dm <sup>3</sup> (at 5,0bar and maximum stroke)
Maximum welding current:	approx. 25,0 kA @ 20%ED
Total weight:	approx. 21,0 kg

## Welding-head DK-2110

Option of configuration:

