

# Technical data sheet for Double-welding-head DK-2015

Manufacture:

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### Benefits:

- Double-welding-head for up to max. 200 N welding force each
- Due to modular principle highest compatibility to other KombiTec products
- Compact, but highly flexible construction with lowest possible weight
- Precise positioning-accuracy, stability and robustness due to pre-stressed ball-bearings
- Highest reproducibility through shape-connection
- Outstanding repositioning behaviour due to unstressed anti-torsion units
- Simple adjusting of sensors and stroke
- Welding heads individually adjustable
- Infinitely variable damping force
- Direct force monitoring at electrodes with electronical force measuring
- Simple upgrading opportunities of distance-control and force measuring devices

### Application areas:

Suitable for parallel gap-welding. Typical applications for this double welding head are:

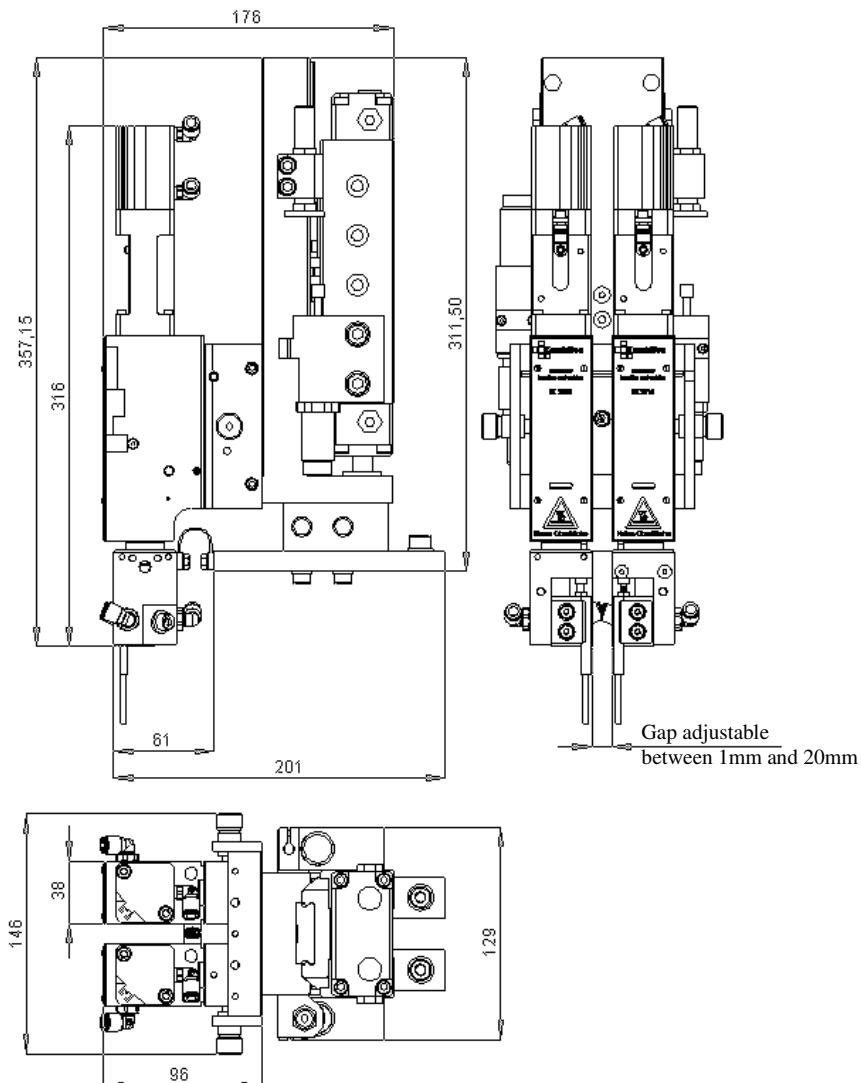
- Light industry: Tungsten-filaments welded to molybdenum pins
- Automotive: moulded stamped parts welded with sensors
- Electric / Electronical: elements and wires to circuit boards or substrates
- Energy technique: contacts for solar power generators and equipment
- Production of sensors: micro-, small- and medium-size applications
- Consumer goods production: small size spot welding applications
- Demanding battery- and accu-components welding

### Technical changes:

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

## Technical data:

Infeed unit:	pneumatically driven linear module with cylinder-Ø 32mm
Theoretical force (at 5 bar):	out driving 245 N
Medium pressed air:	filtered 5µm, free of water / dried, oiled or un-oiled
Pneumatic fittings:	M5, G 1/8"
Pneumatic hose:	Ø 6 mm
Working pressure:	3 – 7 bar
Working temperature:	0°C – 60°C
Repeatability:	± 0,01 mm
Max. weight of electrode holders:	< 1,0 kg
Max. throat:	45 mm
Max. stroke:	55 mm
Air consumption per cycle:	0,15 L (at 5 bar and max. stroke)
Total weight:	15,6 kg (incl. linear modul)



**Picture: Dimension double-welding head DK-2015 with linear module, without fixing/ mountings**

## Double-welding-head DK-2015

Option of configuration:

Welding-force Repositioning springs combination (mechanical)  
SK-2015-RR-000

Welding-force adjustment cylinder  
SK-2015-RA-xxx

Welding-force adjustment cylinder with piezo-measuring device incl. charge amplifier  
SK-2015-RD-xxx

Gap-adjustment unit  
DK-2015-PO-xxx

Displacement-Sensors  
SK-2015-WS-xxx

Repositioning springs  
SK-2015-RR-xxx

Basic electrode-holder, with / without cooling  
SK-2015-RO-xxx

Quick hitch for electrodes  
SK-2015-EO-xxx

Electrode types on request  
SK-2015-xxx

