

Technical data-sheet Welding-head SK-2015

Name and address of manufacturer:

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Benefits:

- Welding-head for up to max. 200 N welding force
- Displacement- and infeed-movement separate
- Due to modular principle highest compatibility to other KombiTec products
- Compact, but highly flexible constructed with lowest possible weight
- Precise positioning-accuracy, stability and robustness due to pre-stressed ball-bearings
- Highest reproducibility through shape-connection
- Outstanding displacement behaviour due to unstressed anti-torsion units
- Simple adjusting of sensors and stroke
- Infinitely variable damping force
- Various opportunities to monitor displacement-force with piezo-force measuring
- Various opportunities to monitor displacement-distance with high-speed distance-sensors

Application areas:

Suitable for all standard weldings, like:

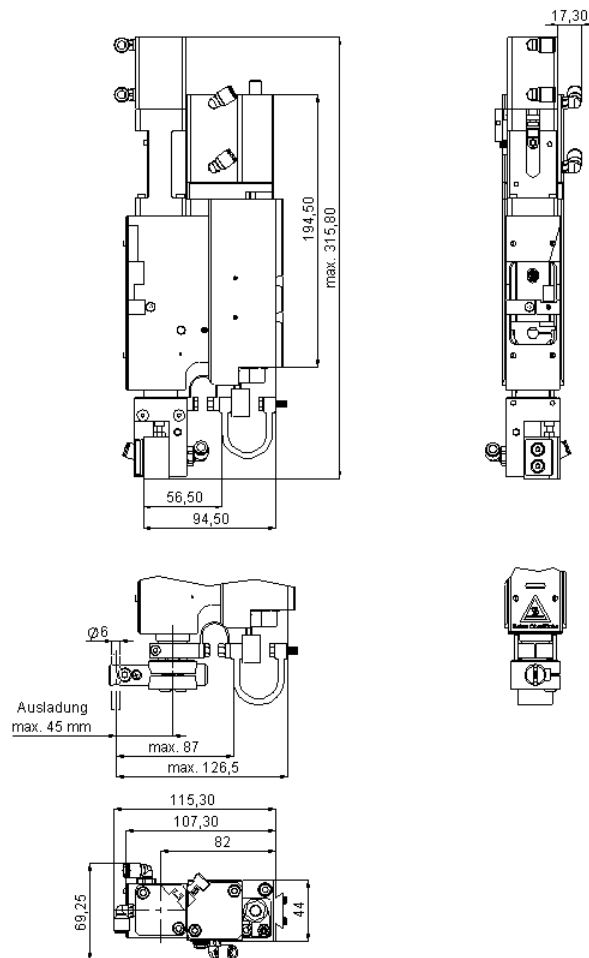
- Lightning industry: tungsten-filaments welding to molybdenum-pins in light-bulbs
- Automotive industry: welding of contacts in moulded plastic-parts with other parts
- Electrical industry: resistors to contacts, capacitors to solenoids, stranded wires to contacts
- Electronic industry: very small, small and medium sized products
- Consumer industry: small sized parts

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 cylinder, with cylinder- Ø 25 mm
Displacement cylinder:	Available cylinder / corresponding forces are: → Ø 12 mm → 65,0 N → Ø 16 mm → 120,0 N → Ø 20 mm → 185,0 N
Medium pressed air:	filtered 5µm, free of water / dried, oiled or un-oiled
Pneumatic fittings:	G1/4"
Pneumatic hose:	Ø 6 mm
Working pressure:	3 – 5 bar
Working temperature:	0° C – 60° C
Repeatability:	± 0,01 mm
Max. weight of electrode holders:	< 1,0 kg
Max. stroke:	15 mm
Air consumption per cycle:	0,15 L (at 5 bar and max. stroke)
Total weight:	2,8 kg
Max. current:	10,0 kA at 20%ED



Picture: Dimension welding head SK-2015 without fixing/ mountings

Welding-head SK-2015

Options for configuration:

Spring-load unit, mech.
SK-2015-RR-000

Spring-load cylinder with piezo-
force-measuring unit incl amplifier
SK-2015-RD-xxx

Displacement-sensor SK-2015-WS-

Displacement-spring
SK-2015-RR-xxx

Thermode-holder
SK-2015-TH-000

Electrode-base-holder, with/without
cooling SK-2015-RO-xxx

Electrodes and Thermodes on
request SK-2015-xxx

Electrode quick-hitch
SK-2015-EH-xxx

Electrode-basie holder, with/without
cooling SK-2015-Rx-xxx

