



14. Juni 2016 Brankovice







KombiTec in Allgäu / Southern Germany















2012

2009

2007

KombiTec

2000

Systems for automation and welding

Employee: 12

Company management: Kai Rienkens





Business Divisions KombiTec

- Micro resistance welding technology
- Special engineering
- Automation systems domino-modul AG
- SlidesBandi + Gerber
- Wage welding / outsourcing
- Seminars











What our customers can expect:



- Innovative and future-oriented action
- Expertise in all areas of micro-resistance welding
- Realization of individual requirements





What our customers can expect:

World-wide located service-offices for spot-welding machines, in cooperation with:



Harms & Wende GmbH & Co. KG

Powerful network with selected technology and support service companies





Welding head SK 2020 E - perfino®

perfect price – excellent precision



• Maximum 500N welding force

Welding head SK 2015 E



• Maximum 200N welding force







Welding head SK 2012

• Maximum 140N welding force

• Hub: 8mm

• Wide: 32mm

• Deep: 40mm

• Height: 140mm

• Weight: ca. 432g







Welding head DK 2004

• 0,2 - 10N welding force

• Stroke: 10mm

• Wide: 147mm

• Height: 220mm





Welding head DK 2015



• Maximum 200N welding force

Welding head SK 2110 Welding head SK 2350

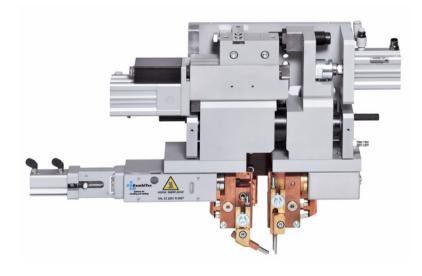


- Maximum 1100N welding force
 - Maximum 3.000N welding force



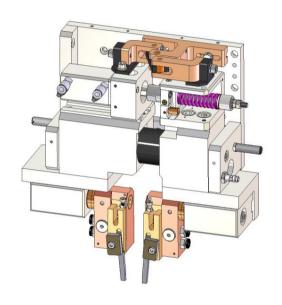


Welding tong SZ 2002



• Maximum 150N welding force

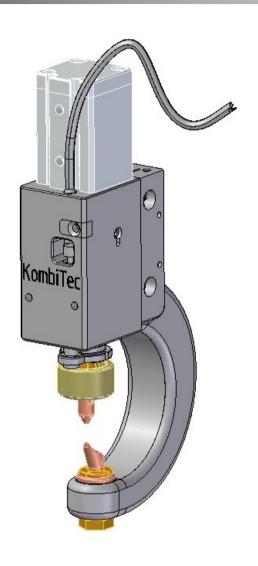
Welding tong SZ 2005



• Maximum 300N welding force







Welding tong SZ 2012 C

Maximum 140N welding force

· Wide: 32mm

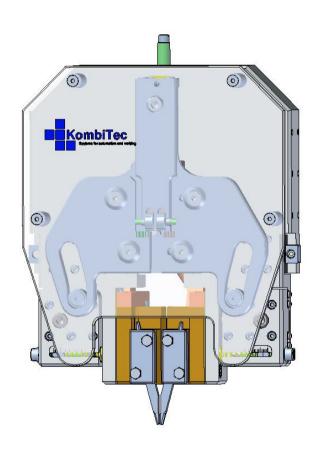
• Deep: 81mm

• Height:183mm

• Weight: ca. 784g







Welding tong SZ 2030

Maximum 300N welding force

Wide: 185mmDeep: 66mmHeight: 262mm

• Weight: ca. 4,9kg

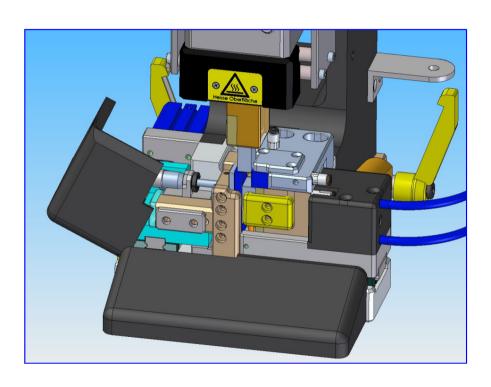






Compacting – easy and safe

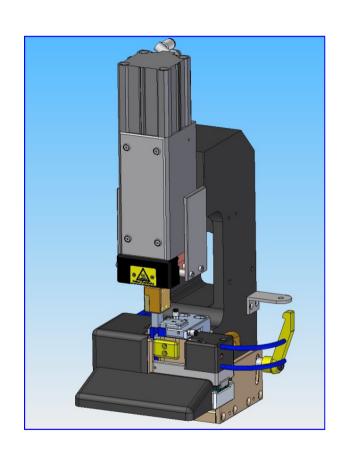
0,5mm² - 12,0mm²







1,5mm²









KompaTec² compacting – easy and safe

0,5mm² - 5,0mm²

Gefördert durch:



aufgrund eines Beschlusses des Deutschen Bundestages



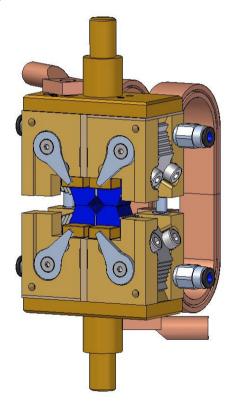






KompaTec² compacting – easy and safe

From 0,5mm² to 5,0mm²

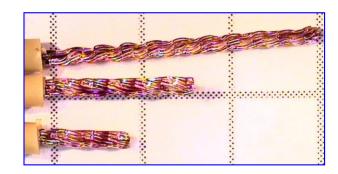




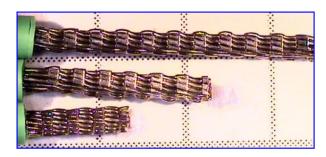


KompaTec² compacting – easy and safe

0,5mm² - 5,0mm²



0,5mm²



AWG14 0,75mm²

KombiTec News

Gefördert durch:

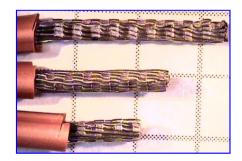




aufgrund eines Beschlusses des Deutschen Bundestages



1,5mm² Hochflexibel



AWG16 1,0mm²

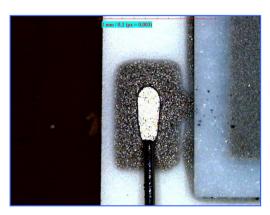


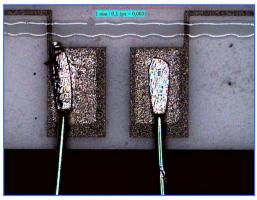


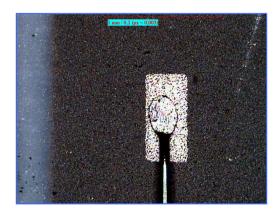


Coated ceramic substrates

Welding of 0,1 mm platinum wires on coated ceramic substrates









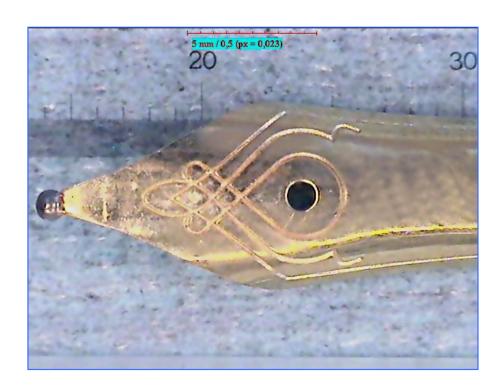


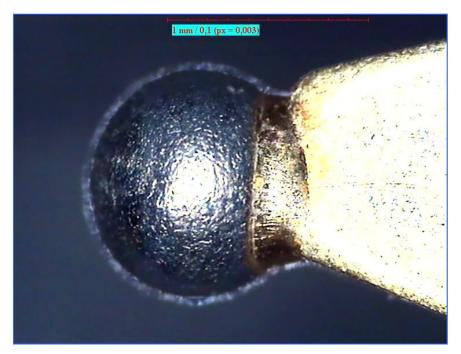




Iridium ball on a stamped-bent part

Golden stamped-bent part, 14 carat









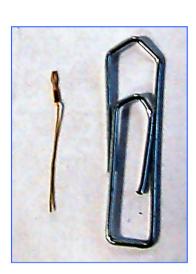


Subminiature contact spring

Welding of a contact pin for subminiature plug







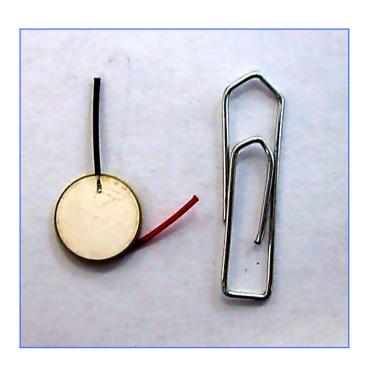






Gap welding on piezoceramic

Pigtail welded on piezoceramic without any other materials





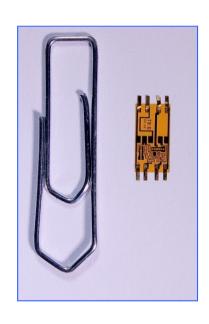






Golden band welding machine

Micro dimensions golden bands with 20μm thickness are welded on 5μm chrome-nickel coating. Carrier material: Kapton; Electrode area: 0.2x0.2mm; Electrode gap 0.05mm







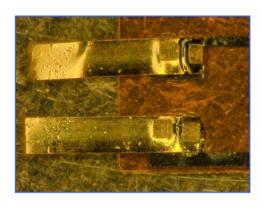


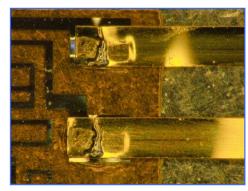


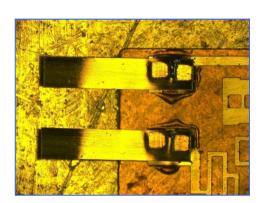


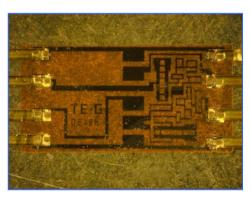
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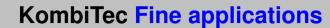










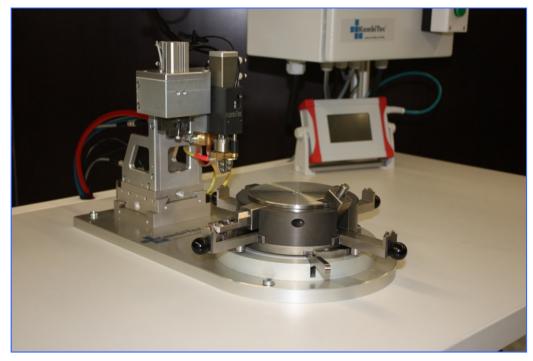




Thermode welding machine

40µm enamelled copper wire; hot bar welded on a RFID chip





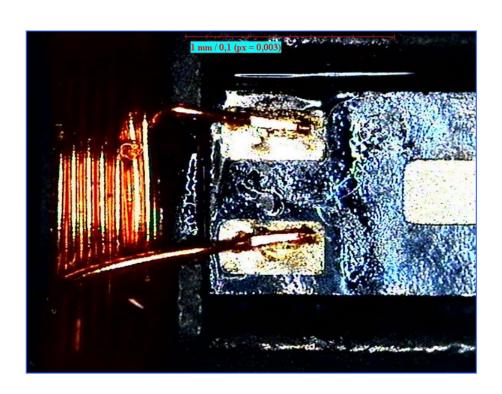


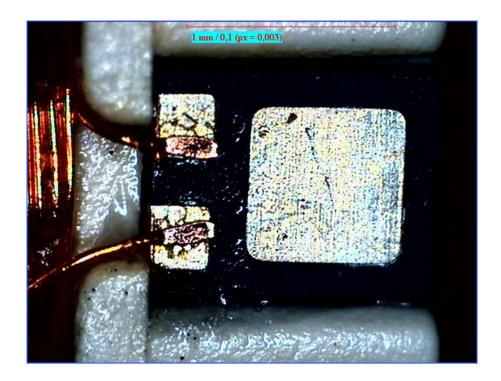




Thermode welding machine

40µm enamelled copper wire; hot bar welded on a RFID chip









Why special engineering & resistance welding technology?

Smaller and more detailed assembly components require highest precision in terms of hard-facing.

Our individual one-stop solutions give our customers a perfect project handling and hence reliability.

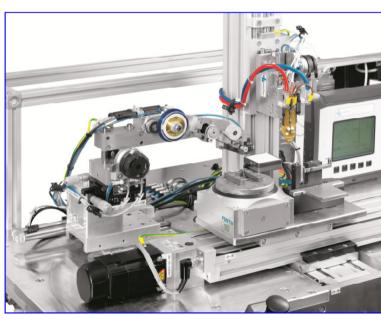






Special solutions in resistance welding technology







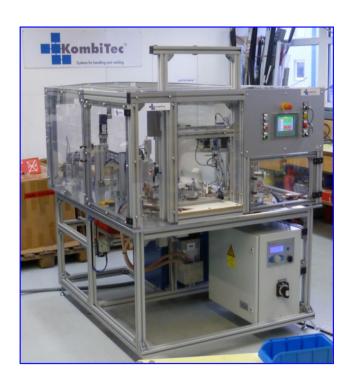


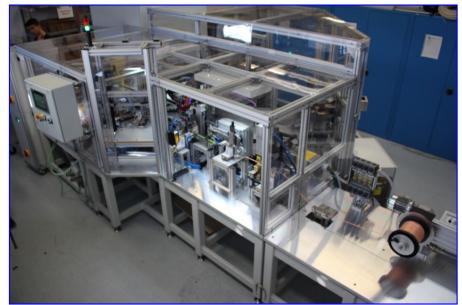




Special solutions for manual-, halfautomatic and automatic work stations











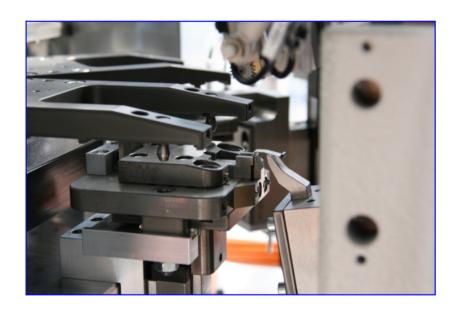


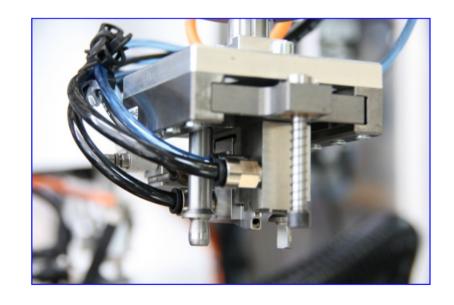


Solutions in special engineering

Automatic cutting-bending-mounting machines for IC-processing

Bending pliers for lead-frames on electronic assembly (Rotary table – 8 stations)





Miniature fitting gripper with float balancer Fitting force is equivalent to mass of gripper



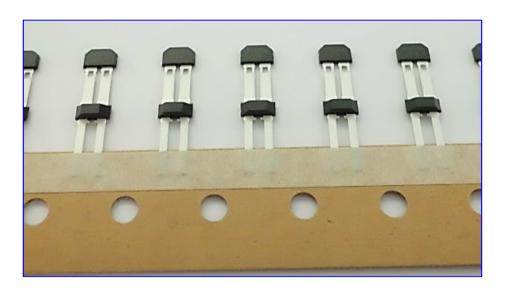


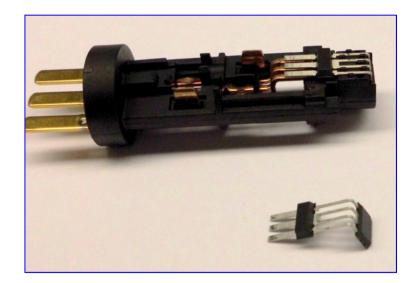


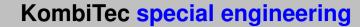
Solutions in special engineering

Automatic cutting-bending-mounting machines for IC-processing

IC-cutting and bending in one tool, transferred into a hot-moulded plug, with hot-bar fixed and welded at 3 points

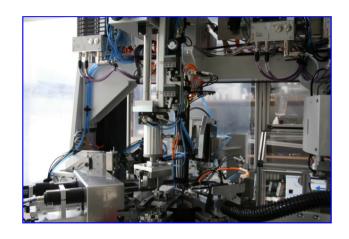




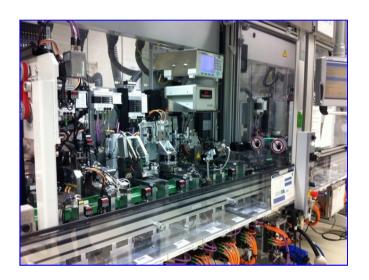




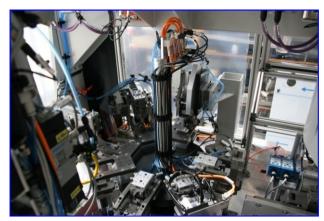
Special solutions in engineering



Camera monitoring



Longitudinal table (DTF)



Rotary table





Thank you for your attention!









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