



53XX

BDA Ball + Deep Access Wedge Bonder

This 53XX BDA bondhead is the ultimate universal bondhead version. It can be used as a Ballbonder and as well as DA Wedge-Wedge- or DA Ribbon Bonder. You just have to change the bondtools and start the desired application software. The motor driven Z-topclamp is fully programmable and enables the machine to cut the wire after 2nd bond and also to feed a reproduceable tail for the next 1st bond. The 60 mm motion of the Z-axis will help you to bond tricky applications and also you can easily bond samples mounted into deep packages without any mechanical changes.

Deep Access area: Ballbonding 12mm, Wedge/Wedge until 20mm (with 1" Tool). Settings can be saved as a bond-programm to the internal harddisk. This will help to get repeatable bondresults-also after a long time. The handling, supported by a colour display and the input with an shuttle-wheel make the programming of the machine very easy. You can create different kind of loops with the manipulator system. Only a minimum of training is required, making the 53xx manual ball bonder the ideal choice for prototype, rework and small-scale production.

The 53xx is perfect suited for complex bond- tasks. It delivers highest quality at the most favourable price. This machine is the right choice for your sophisticated applications.

Specifications

Concept	DC-motor driven Z-linear-axis, Single-board-PC, internal 40GB hard disk , menu-controlled Teach-In, Operating and menu access via shuttle-wheel with Enter function
<i>Bondprocess:</i>	Wedge-Wedge, Ball-Wedge or Bumping, Ribbon
<i>Wire-types</i>	Ballbonding: Au-wire: 17,5...50 µm on 2" spool (opt. ½ ") Wedgebonding: Alu / Au-wire 17,5 – 75 µm Ribbon size: 30 / 12,5 – 250 / 25 µm
<i>Bondhead</i>	Contactless electronic Touchdown-Sensor Negative Flame-Off (NEFO) US-Generator: 0...5 W programmable, US frequency: 60 kHz standard, other frequ. optional Bondforce: programmable from 5 until 150 cN Capillaries: 9 – 16mm length, Bondtools: ¾ or 1inch Step resolution of Z-axis : 1 µm
Display	6,5" TFT Color-Display, 640x480 Pixel (VGA)
<i>Working area</i>	Bondhead linear Z travel: 60 mm; Manipulator in X and Y: 18 x 18 mm , Respond reduction: 1:7
Substrate-holder	Digitally controlled heated stage, up to 360°C Standard: Ø 60 mm for bondsamples up to 2" x 2", (with mechanical clamping) Optional: 4" x 4", 80 mm and 95 mm Ø optional, (also available with vacuumfixture)
<i>Operation-modes:</i>	Manual-, Semi-automatic- and Productionmode Programmline-Step for parameter optimization
<i>Loop-types:</i>	Standardloop, Reverseloop, Stitcbond all with programmable Loopheights
<i>Dimensions</i>	H/W/D: 400mm/ 630mm/580mm, weight approx. 30kg

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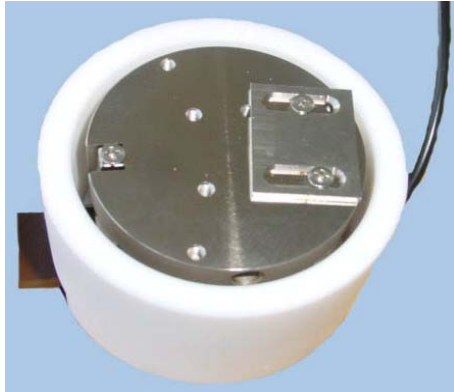
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BONDING THE STARS



Connections: 100...230 VAC, single-phase,
Air pressure / vacuum Ø 6 mm
USB – plug (for printer)



Option
TB0000.92.000
heated
Ø 60mm, mechanical clamping



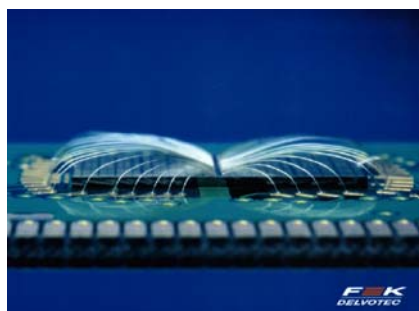
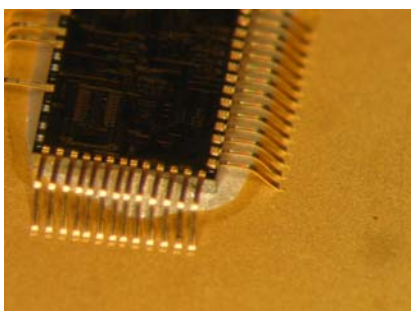
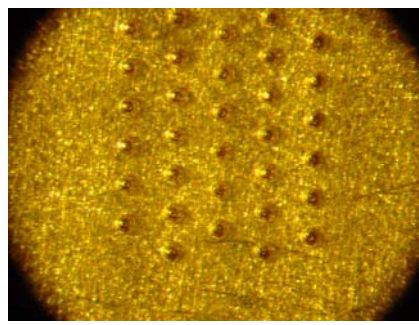
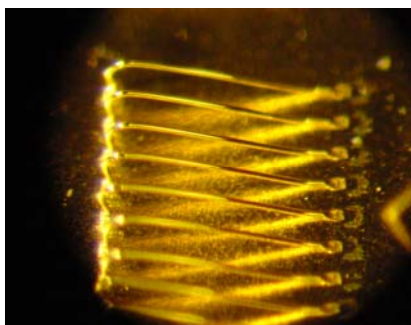
Option
TB0000.87.000
heated
Ø 80mm, mechanical clamping and
vacuum



Option
4-0402-210-0
heated
4x4", mechanical clamping and vacuum

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