



# **SDB** high accuracy diebonder

**MORE THAN PRECISION** 

#### SDB PRECISION OF ASSEMBLY <1 µm

- 1µm placement accuracy
- Flip-chip option
- Assembly of chip and micro-optics • WDM, optoelectronic components, micro-lenses, micro- mechanics
- Die Sorting
- Wafer mapping
- Eutectic bonding via diode-laser
- Epoxy stamping and dispensing
- Active / Passive alignment
- Active bond-force -control
- Postbond inspection
- Modular machine concept

Amicra follows a policy of continuous product improvement. Specifications are subject to change without notice.

## **Technical** informations

### Gernera control operating system programming operator Interfac data transfer

function

Z axis

XY axis

function

XY axis

bond force

ejection height

ejection speed

Windows XP kevboard and graphic display menu driven, English ethernet TCP/IP , electronic connection: 10 Base T, 10 Mbit/s **BONDHEAD TRANSFER SYSTEM** moves bondhead from source side (chip side) to destination side (substrate side) coarse X axis positioning linear motor driven, high velocity and acceleration; noncontact linear encoder, resolution 1µm AC servo drive, noncontact linear encoder, resolution 1µm TABLE FOR WAFER AND SUBSTRATE AC or stepper motor driven, open-frame design range of XY axis 300 x 200 mm CAMERA AXIS Z axis (focussing) AC or stepper motor driven BOND HEAD construction for active adjustment; high accuracy positioning; bondforce controlling piezo driven; resolution 0.1µm; . range 400μm x 400μm rotation axis 360°, resolution 0.001° programmable, standard working area 3 -100 g; resolution 0.5 g (other working area available) touch sensor determines first mechanical contact between chip and substrate EIECTION SYSTEMS needle systems single or multi-needle system according to component size 0.7 mm shaft diameter, 17.0 mm long, radius ejection needle type

multi-axis-controller

25µm, other needles on request programmable height and delays programmable



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