## DIE BONDER & COMPONENT PLACER

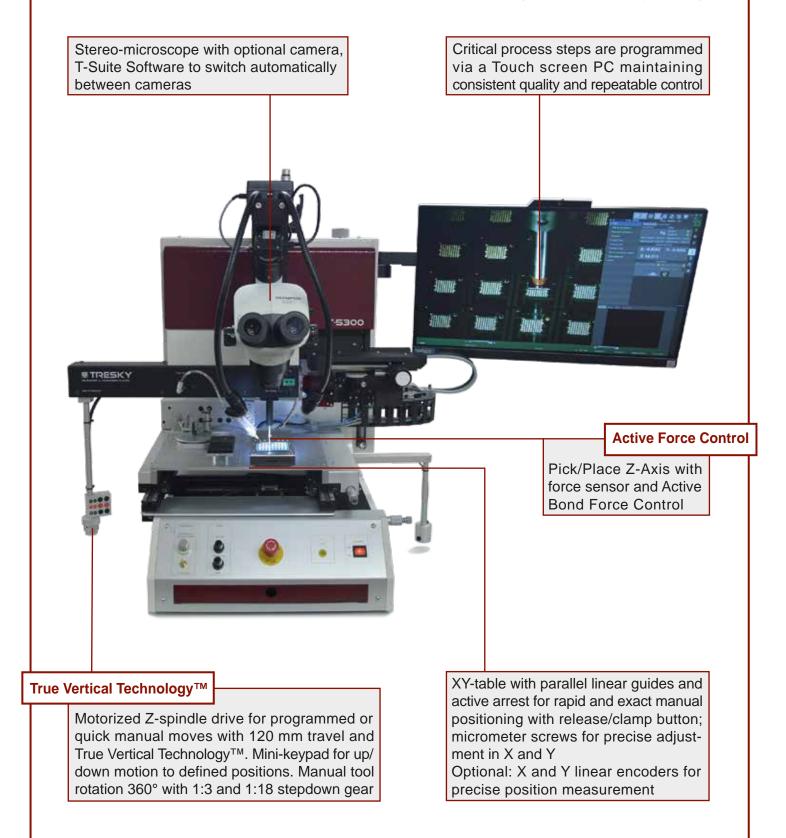


RESKY

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Operating a Tresky die bonder/placer is intuitive. A few minutes' training is sufficient to start working with the machine. The accuracy and repeatability of placing parts is superb thanks to a number of well-thought out features like a true, linear Z-Axis, Active Force Control, XY Fine Control and high-resolution optics that allow flip-chip placing down to sub-micron accuracy.

The extremely rigid machine base is compact and fits on a lab desk. It can be expanded with many different modules to cover an enormous range of applications. The **T-5300-W** version features up to a 200mm wafer table which sits below the main table with Tresky's electronic die ejection system.





## FLIP-CHIP MPA 5000

High-resolution placement unit with beam splitter and high-resolution camera, LED lighting for upward / downward and Coax looking or superimposed inspection, for ultra-precise Multi Point Alignment (range 45x50mm) at sub-micron resolution. Additional alignment features such as edge detection for top Chip alignment.



Many different holders for various substrate and package types, waffle/gel packs (2", 4") and trays

## T-5300-W

Wafer XY table drawer with proprietary, electronic, Tresky die-ejection system for extremely gentle die ejection from wafer ring or frame

Substrate holders, heatable up to 450°C with internal, high-speed temperature controllers, optional versions with tool heating and flooding with cold or heated forming gas





Optional: Scrubbing motion or Ultrasonic bonding action



Optional: Stamping unit for adhesive application by specialized stamping tools



Optional: 2nd spindle for preform pickup can be added

TYPICAL AND CUSTOMIZED APPLICATIONS

- Die sorting from wafer into waffle packs or gel packs
- Die attach with adhesive (stamped or dispensed)
- 3D packaging of MEMS, MOEMS, VCSEL, Photonics, ...
- High-precision placement with visual adjustment by beam-splitter unit for look-up inspection of edges, corners or patterns, e.g. for laser bars
- Flip-Chip with ultrasonic die attach
- Flip-Chip with adhesives or anisotropic foils
- Sensor assembly
- UV curing of die attach
- Eutectic bonding of AuSi, Copper Pillar and others
- Ultrasonic bonding on a curved surface

|  | TECHNICAL DATA                                  | XY- Movement (placement stage): | 220mm x 220mm  | (manual)                       |
|--|---|---------------------------------|--|--------------------------------|
|  | Z- Movement:                                    |                                 | 120mm (automatic with Z-Measurement resolution ±0.001mm) |                                |
|  |   | Spindle Rotation:               | 360°   | (unlimited)                    |
|  | Bond Force:<br>Max. PC Board-/ Substrate Size:  |                                 | 20g - 4000g<br>400mm x 280mm                             |                                |
|  |   |                                 |  |                                |
|  |   | Placement accuracy:             | ±10µm; <±1µm optional                                    | (process and option depending) |
|  | Optical Resolution (Flip-Chip Optic 1x option): |                                 | 1.25µm   |                                |
|  | Optical Resolution (Flip-Chip Optic 2x option): |                                 | 0.625µm  |                                |
|  | Dimensions (with All in one PC):                |                                 | 1155mm x790mm x728mm                                     |                                |
|  | Weight:   |                                 | 95kg   | (+30kg option depending)       |
|  |   | Voltage:                        | 110V / 220V  |                                |

## TRESKY - SOLUTIONS FOR MICROELECTRONICS ASSEMBLY

Dr. Tresky AG offers manual and semi-manual Die Bonding solutions for small and medium sized electronics assembly facilities, laboratories and R&D.

As a solutions provider, we support specific applications with our highly accurate and innovative systems. Starting from manual to semi automatic, from adhesives to tools, exactly as per our customer's need. This is made possible by our extensive experience and modular setup which allows adapting various basic systems with an huge selction of options for new processes.

With almost 2000 devices installed across the world, often with special & customized equipment, we diligently work to fulfill complex process requirements. Supported by a fast, flexible and professional team ready to be tested, we look forward to your challenge!

Note: All specifications are subject to change without notice



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