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### Flexible Micro Assembly System

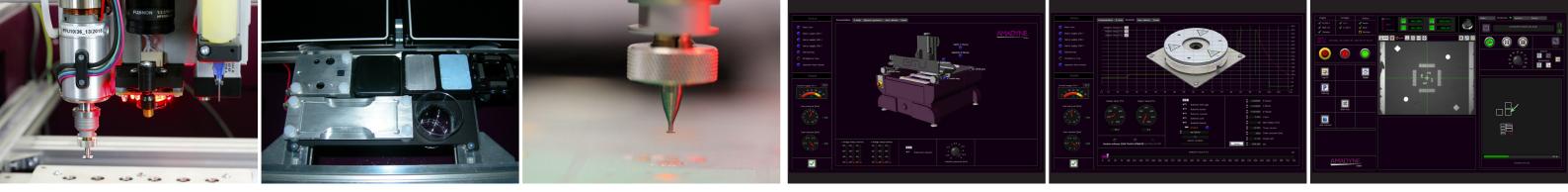
- Stand alone system designed for
  - short setup times
  - fast product changeovers
  - prototype & small volume production batches
  - standard & advanced packaging processes
- Manual or automatic mode
- Versatility with multiple options



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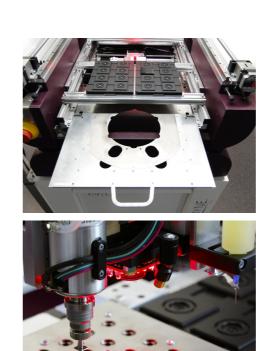
The EMU is an automatic Micro Assembly System for picking up and placing of components from various presentation formats, as well as applying adhesives. Typical applications include: manufacturing of prototypes, samples, small series production or process evaluations utilising micro system technology.

Easy to setup, programme and operate, the machine enables manufacturing of technologies like Chip on Board – COB, Multichip Modules – MCM, Chip-on-Chip – COC, Flip Chip and RF Devices etc., using eutectic soldering, sintering, plus other adhesive and die-attach process.

## Key features

- 300 x 350 mm assembly area in the xy axis
- Versatile hardware configuration for advanced packaging applications
- Options including: toolbox, dispenser, chip eject system, eutectic station and upward looking camera etc.
- Short product setup and change-over times
- Robust "Linux" based software architecture
- Proven user interface, easy to program and operate





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Single squeegee with selectable speed and adjustable epoxy film thickness



Toolbox for up to 5 tool holders



Fully programmable with time/pressure or rotary micro valve dispenser

### Eject System



Eject system for wafer up to 8"





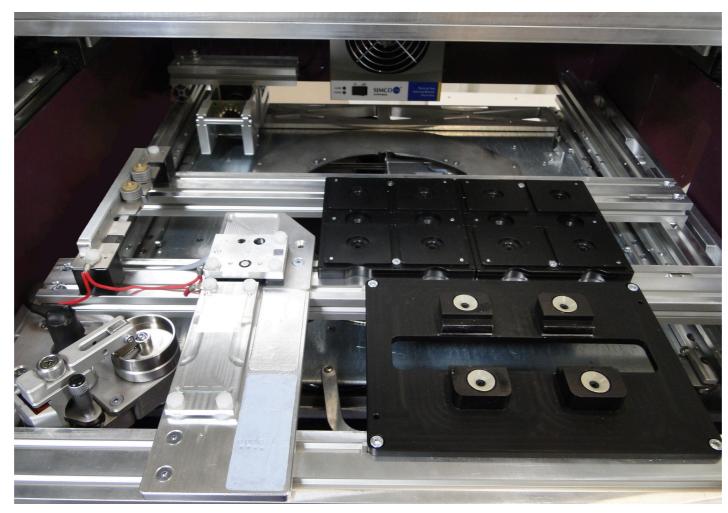
With coaxial and ring light for bottom side alignment & inspection

## Hardware Software Basics

- Compact, mineral molded casting provides machine stability
- PC system with quad core processor
- Precision hybrid stepper motors for all axes
- Full 360° tool rotation

# Basics

- Open software architecture with SQL backend
- GUI, graphical user interface supported with expert panels
- Linux 4.x operating system
- Image recognition, feature based with pattern matcher, circle, edge and ink dot matching
- Easy to operate and program



## Options

- Toolbox
- Dispenser system
- Upward looking camera
- Eutectic unit
- Stamping unit
- Chip eject system

## Options

- Wafermapping
- Post-place inspection
- Remote application support & maintenance system
- Manual pick & place mode
- Tracking of production data



