

# FLIP CHIP BONDER

## 8800 FC QUANTUM<sup>h5</sup>



Based on the industrial benchmark QUANTUM series, production speed was significantly increased compared to the successful FC QUANTUM<sup>advanced</sup> to offer an **unprecedented Cost of Ownership**. At the same time, no compromise on 4  $\mu$ m accuracy and process control was made to enable Tool to Tool repeatability at Highest Yield.

### Future Proof Equipment



### The NEXT Step for the 8800 platform:

- Proven **QUANTUM** capabilities with innovative **MULTI-DIE HANDLING** concept
- **New software features** and vision algorithms
- Up to **100% extra speed**, proven accuracy 4  $\mu$ m @ 3s
- Engineered for **lowest Cost-of-Ownership**



ACCURACY



ADVANCED OPTICS



HIGHEST OUTPUT



SMALLEST FOOTPRINT



QUATTRO PICK & PLACE



AUTO TOOL CHANGE



TOOL-TO-TOOL REPEATABILITY



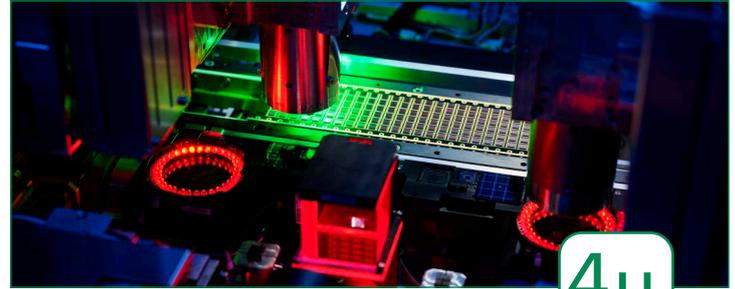
FULL YIELD CONTROL





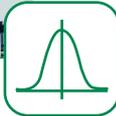
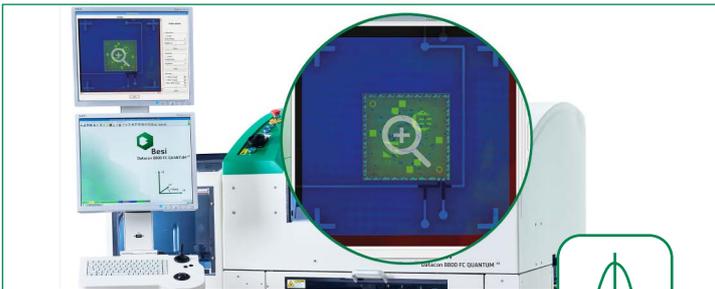
### Extra Speed +100% Improved CoO

- Innovative "Quattro" multi nozzle concept
- Synchronous process steps
- High resolution large FoV camera systems
- Cluster adjust capability for bonding position alignment



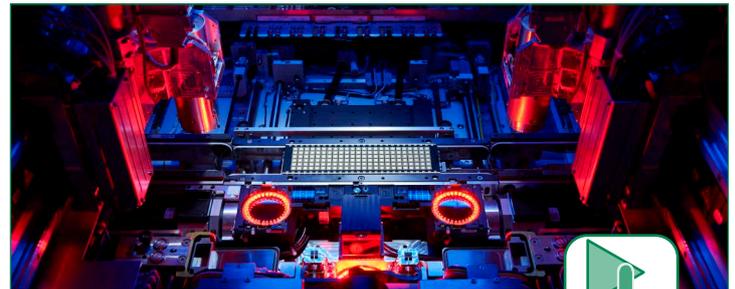
### Accuracy

- Proven accuracy 4 µm @ 3s
- Enhanced 26MP camera system
- Optimized movements with Real Cross Influence
- New Matrix BMC 2.0



### Full Yield Control

- Full Process & Production Control
- Superior usability with enhanced Pseudo X-Ray
- Fast Post Bond Inspection
- Individual Eject - Flip - and P&P - Toolinspection
- Chipping - / DieCrack detection



### Ease of Use

- Minimal tooling quantity - fast device change over
- No die transfer shuttle - no intermediate steps
- Simple recovery handling
- Auto nozzle offset correction

Feature	Esec 2100 FC hS	Datacon 8800 FC QUANTUM <i>sigma</i>	Datacon 8800 FC QUANTUM <i>advanced</i>	Datacon 8800 FC QUANTUM <i>hS</i>
Accuracy	8 µm @ 3s (HAM)	5 µm @ 3s	5 µm @ 3s	4 µm @ 3s
Strips, Boats, Panels	4" (up to 6.3" opt.)	8" (200 mm)	8" (200 mm)	8" (200 mm)
C2W	-	8"	8"	8"
Fluxer	✓	✓	✓	✓
UPH (Various Packages)	up to 16000	up to 6500	up to 10000	up to 16000
Inline Dispensing	opt.	-	-	-