

# Datacon 8800 FC QUANTUM *advanced*



**Besi**

As Mass Reflow Flip Chip becomes dominant in IC packaging, we do set a new benchmark for speed and productivity with the **FC QUANTUM advanced**. With state of the art **motion control**, unique **CRYSTAL concept** (patent pending) and **enhanced computing power**, Besi is showcasing the fastest and most cost effective Flip Chip system available today.

Based on the industrial standard QUANTUM series, production speed was significantly increased compared to the successful FC QUANTUM sigma to offer a **unprecedented Cost of Ownership**. At the same time, no compromise on 5µm accuracy and process control was made to enable Tool to Tool repeatability at Highest Yield.

## Future Proof Equipment



### Next Level Flip Chip Production

- Highest UPH up to 10,000
- Full Process and Yield control
- Proven 5 µm accuracy

#### ACCURACY



#### HIGHEST OUTPUT



#### REPEATABILITY



#### FLEXIBILITY



#### EASE OF USE



#### FULL YIELD CONTROL





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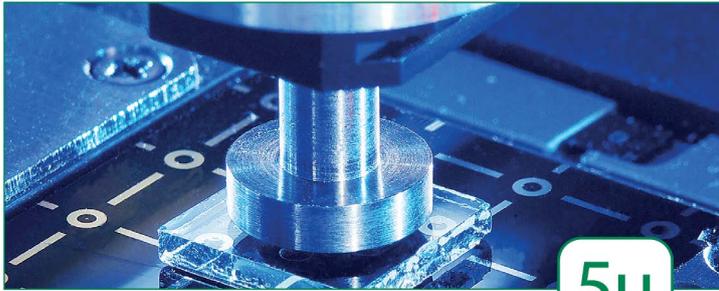
### Unprecedented Speed

- Unique CRYSTAL concept
- Enhanced trajectories and motion control
- Highest speed with full process control



### 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



### Proven Production Accuracy

- 5 µm at highest speed
- Lowest vibration with SMART path filtering
- Enhanced Matrix BMC test



### Shortest Leadtime

- Lean production process
- Aligned with proven Besi production process
- Uniform QA system installed at our contract manufacturers

Feature	Esec 2100 FC h5	Datacon 8800 FC QUANTUM <sup>advanced</sup>	Datacon 8800 CHAMEO <sup>advanced</sup>	Datacon 8800 FC QUANTUM <sup>h5</sup>
Local Accuracy	8 µm @ 3s(HAM)	5 µm @ 3s	3 µm @ 3s	4 µm @ 3s (3 µm roadmap)
Global Accuracy (FO-WLP)	-	-	5 µm @ 3s	-
Strips, Boats, Panels	4" (up to 6.3" opt.)	8"(200 mm)	13.4"(340 mm)	8"(200 mm)
C2W	-	8"	12"	8"
Fluxer	✓	✓	opt.	✓
Multi Chip	-	-	✓	-
UPH (Various Packages)	up to 16,000	up to 10,000	up to 7,000	up to 16,000
Temperature	-	-	opt.(constant)	-
Pre-Heat Station	-	-	opt.	-
Inline Dispensing	opt.	-	-	-