

Datacon 8800 CHAMEO *advanced*

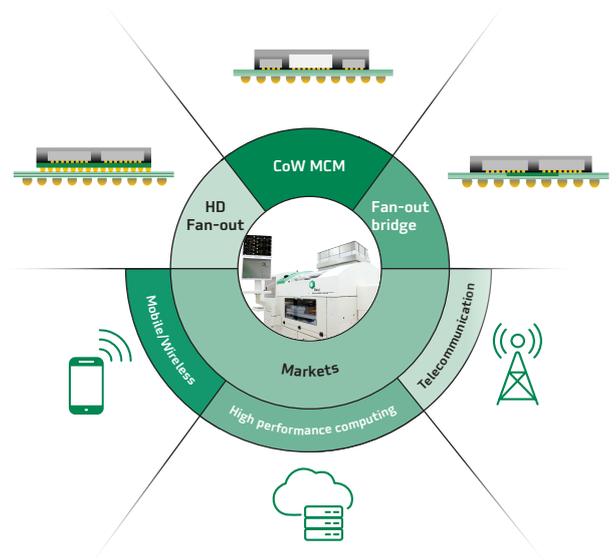


Highest Productivity for FO-WLP

As a new advanced packaging technology, Wafer-Level Fan-Out Packaging (WL-FOP) is a cost effective solution to address increasing demands for performance, form factor, and warpage control.

The Datacon 8800 CHAMEO *advanced* bonder raises a field proven platform concept to an advanced level. It is the perfect fit for chip attach of any FO-WLP packaging process, supporting both face-down (flip mode) and face-up (non flip mode) package designs.

Future Proof Equipment



Highlights

- Extra Speed +40%
- Placement Accuracy 5 μm / 3 μm @ 3s
- 300 mm / 340 mm FO-WLP Carrier
- Face-down & face-up
- Clean class ISO 5
- Tape & Reel option

DUAL PICK & PLACE



EXTRA SPEED



ADVANCED ACCURACY



FACE UP/DOWN



ADVANCED OPTIONS



FLEXIBILITY

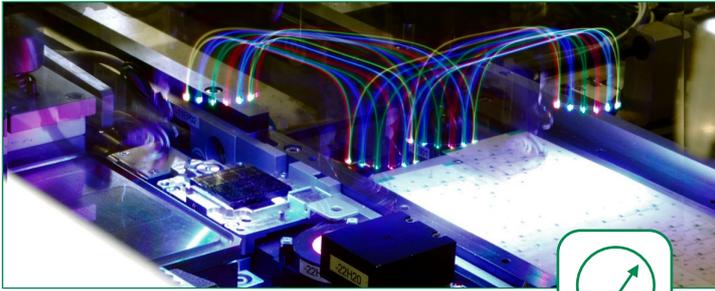


HIGHEST RELIABILITY



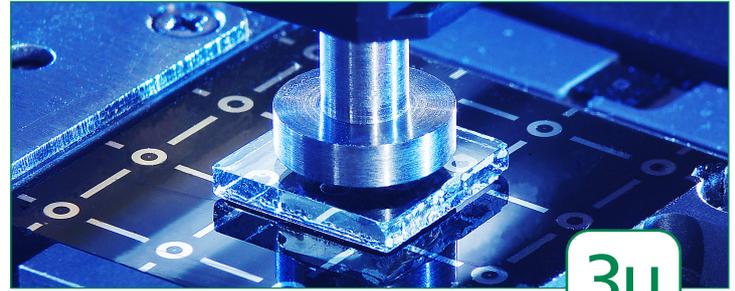


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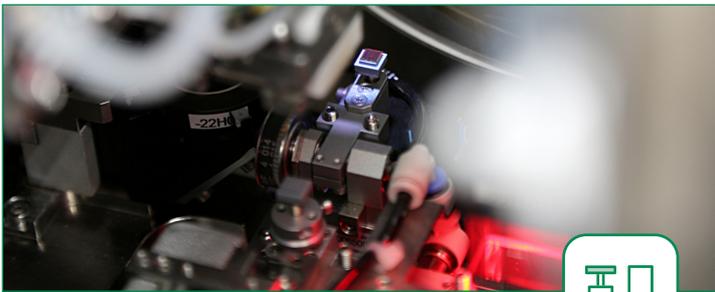
Extra Speed +40% - Improved CoO

- Based on 4 Mpix 6 x 6 mm FOV cameras
- Based on improved vision hardware & software
- Based on optimized movements



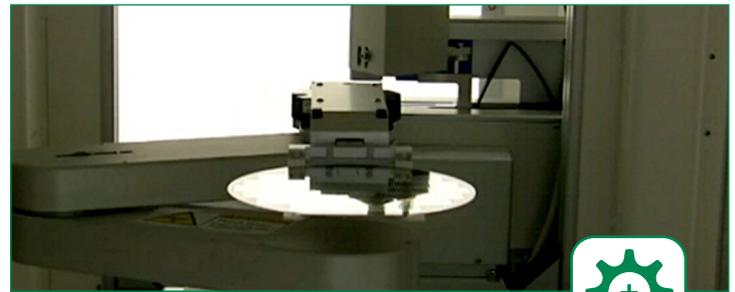
Advanced Accuracy

- 5 µm @ 3s global accuracy
- 3 µm @ 3s local accuracy
- APO Automatic Placement Optimization



Face-up/Face-down

- NEW Face-up option from wafer
- Recipe controlled, quick change-over
- Multi-chip capability



New Process Options

- Clean class ISO 5
- FOU load port
- Tape & Reel handling

New!

Feature	Datacon 8800 CHAMEO <i>advanced</i>	Datacon 8800 CHAMEO <i>advanced</i> TnR
Local Accuracy	3 µm @ 3s	3 µm @ 3s
Global Accuracy	5 µm @ 3s	5 µm @ 3s
Vision System	4 MP, 6 x 6 mm FOV	4 MP, 12 x 12 mm FOV
Substrate (Strips, Boats, Panels)	up to 340 mm	up to 340 mm
Substrate Wafer	12"	12"
Die Size	up to 30 mm (40 mm opt.)	up to 20 mm
Face-up Option from Wafer	up to 25 mm	-
Dipping	✓	✓ (Crystal type)
Multi-chip	✓	✓
Footprint	1.6 x 1.2 m	1.6 x 1.2 m
Clean Class	ISO 5 (opt.)	ISO 5 (opt.)
Source Wafer Handling	✓	-
Tape Feeding	-	✓
Wafflepack Feeding	opt.	opt.
Temperature	opt. (constant)	opt. (constant)
Tool Change	3 tool sets	3 tool sets