

NANO ACCURACY

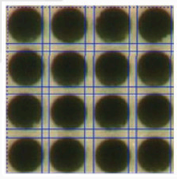
PRECISION ALIGNMENT

HIGH ASPECT RATIO

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FIXTURE

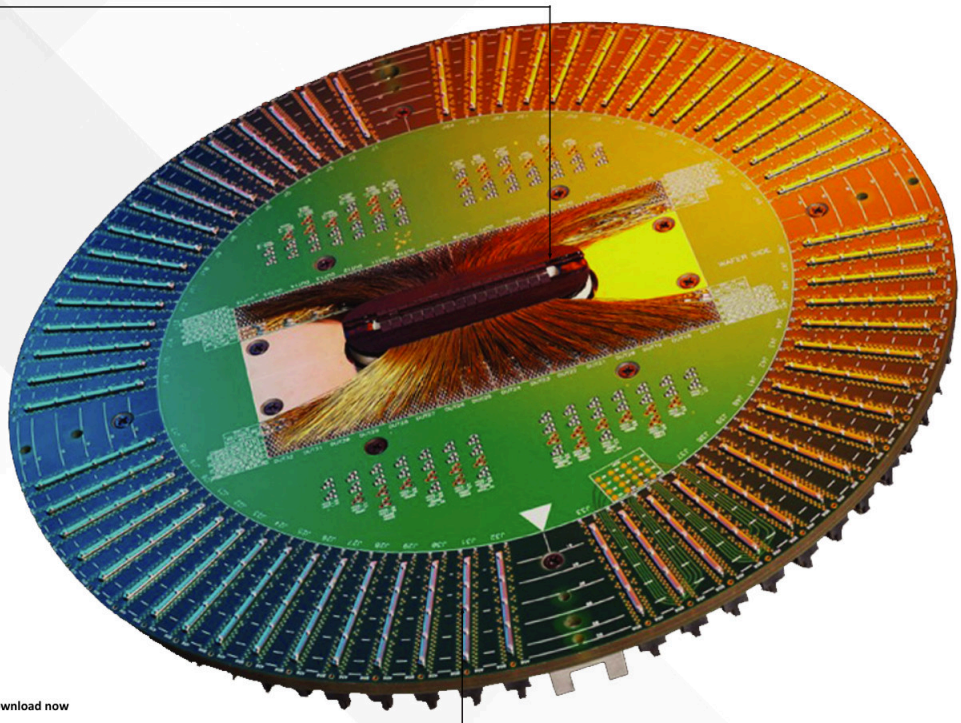
Hole Ø: from 20µm
Wall Thickness: 10µm
Hole Position: +/- 1.5µm
CCD Control
Depth-Routing
Spray Cooling







Fixture Nano





EXY-CCD-Drilling

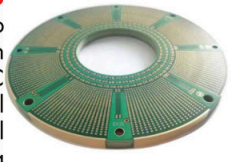


Full Panel X-Ray

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PCB

High Aspect Ratio
Layerspecific Compensation
CCD Registration /DIC
Flip Drill
Peckdrill
Pin-Lam Tooling





Post-Etch Punch

Fixture Nano, EXY-CCD, XRA3, Optiflex II

IC Probe Card Solutions

MADE IN GERMANY

SPECIFICATIONS

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Fixture Drilling/Routing Models			
Model	Fixture Nano	Fixture 1	MX 1
Table Size	11.8″ x 13.7″	11.8″ x 13.7″	29″ x28″
Drilling/Routing	Hybrid	Drilling	Drilling
Process Hole Accuracy (10 x 10 mm)	+/- 1.5 µm	+/- 3 µm	+/- 5 µm
Min. Hole Diameter / Pitch	0.02 mm / 0.03 mm	0.03 mm / 0.06 mm	0.1 mm / 0.15 mm
Table Flatness	+/- 3 µm	+/- 8 µm	+/- 35 µm
Scale Resolution	5 nm	100 nm	1,000 nm
Climate Control	Yes	No	No
Controller	S80	S50	S50
Smart Factory I4.0	MES (Manufacturing Execution System) to be Customized		

PCB Drilling EXY-CCD Models			
Model	EXY1	EXY2	EXY6
Drill Heads	1 Station	2 Station Individual Axis	6 Station Individual Axis
CCD Cameras	High Resolution CCD Camera per Station		
Special Features	Peckdrilling, Flipdrilling, Drill in Centre, Backdrilling		
Spindle Type	T160 (20-160k) / T200x (20-200k) Suitable for Heavy Copper		
Accuracy	+/-12µm Schmoll Standard Test (+/-15µm, Cpk >1.67)		

PCB X-Ray Models	
Model	XRA^3 Full Panel X-Ray Inspection, Registration and Drilling
Specifications	Please Refer to Our XRA^3 Brochure

PCB Fixed Tooling Innerlayer Punch	
Model	Optiflex II
Specifications	Please Refer to Our Optiflex II Brochure

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