## μ6 Ultra Precision Machine

LOXHÂM

6 Axis CNC Diamond Turn / Micro-Mill



mass design

Air bearing based motions

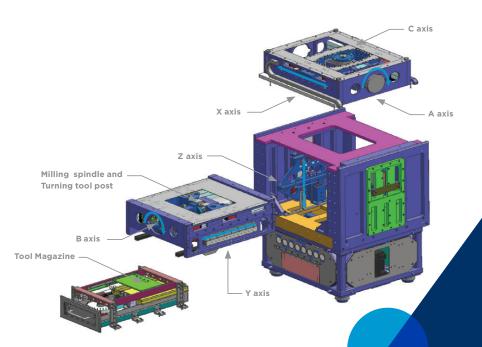
Active thermal management

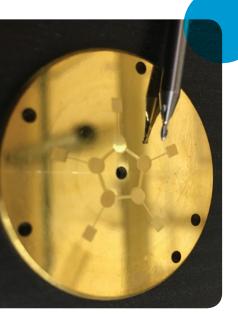
Single phase electrical supply

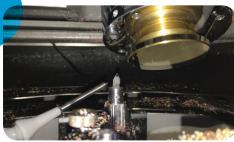
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μ6 machine uniquely offers multi axes diamond machining modes for diamond turning, micro-milling, micro-drilling and micro-abrasive grinding.

It is available with post process measurement functions and with automation options for workpiece loading and handling.











## μ6 general specifications

General	Ultra precision 6 axes CNC machine with Box 'closed frame structure and air bearing based motions'
Machine detail	<b>Size:</b> 0.7m x 0.7 m x 1.2m   <b>Weight:</b> 500kg
Workpiece capacity	Diameter: 100mm diameter   Length: 100mm
Structure	Aluminium monolithic base with integral temperature control
Control system	6 axes open architecture CNC with motion control at 1 nanometre and 1 micro degree resolution
Functional performance	Diamond turning: Form accuracy: < 30 nanometres RMS   Surface roughness: < 5 nm Ra (30 mm diameter, 100 mm ROC spherical part)  Micro milling: Surface roughness: < 10 nm Ra   Size control of features < 0.001 mm

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