

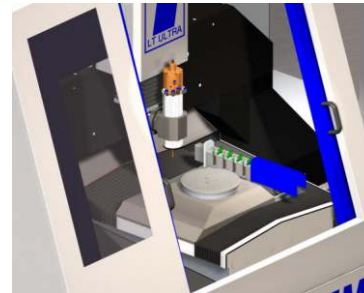
MMC 900H

UP Micro-Machining-Center



non ferrous metals
plastics and crystals

- micro milling
- hydrostatic (oil) bearing technology
- granite machine base
- process camera
- active vibration isolation system
- Tool changer
- Tool setting system



UP-MACHINES



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The MMC H (micro milling center hydrostatic) series machines were developed according to the needs of micro and ultra precision multi-axis-machining. H stands for hydrostatic oil bearing, and describes the fact that the machine is equipped with hydrostatic oil bearing technology in all linear and rotary axes. By using diamond tools, optical surface quality can be achieved on a wide range of materials like crystals, nonferrous metals and plastics.

Similar to the MMC 600/900 air bearing machines, the basic setup can be equipped with various accessories. The basic setup consists of 3 linear axes and can be upgraded by additional rotary, tilt or spindle axes to 4, 5 or 6 axes.

Attachments, like different spindles, vacuum chucks, palleting systems, 3D touch probes for workpiece measurement, tool changer and automated tool setting, allow an effective use of the machine. Besides further accessories, there is the possibility to develop customized solutions, to adapt the machine to your needs. Please do not hesitate to contact us.

SPECIFICATIONS:

Control:	Delta Tau Power Pmac
CNC-axis:	X-, Y-, and Z-axis, optional B, C and CC
Bearing Type:	hydrostatic (oil), CC air bearing
Drive system:	linear motor X-, Y- and Z- axis, B and C with torque motors
Travel:	X = 900 mm, Y = 350 mm, Z = 250 mm
Speed:	up to 2000 mm / min

MICROSTRUCTURE SPINDLE:

Bearing Type:	air bearing design
Drive system:	torque motor
Rotation:	60.000, 80.000 oder 100.000 RPM
Tool Interface:	pneumatic collet or HSK 25

OPTIONS:

3D- touch probe
C- axis, rotary / tilting table, CC- axis (6 axis)
Minimum quantity lubrication
Vacuum device for chip removal
Tool Changer
Additional Z- axis for Flycutting Spindle

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