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ULTRA-PRECISION-MILLING MACHINE



SPECIFICATIONS:

| Control: | Delta Tau Power Pmac | |
|---------------|---|--|
| CNC-axis: | X und Z, Y (optional), A, C (optional) | |
| Bearing Type: | X-axis air bearing design , Z-axis roller-bearing | |
| Drive system: | DC servo motors | |
| Travel: | X = 600 mm, Z = 410 mm / X = 900 mm, Z = 410 mm | |
| Speed: | 1 mm / min up to 800 mm / min | |

MILLING SPINDLE:

| Bearing Type: | air bearing design | |
|------------------------|-------------------------|--|
| Drive system: | brushless DC motor | |
| Speed range: | 100 - 3000 RPM | |
| Milling head diameter: | Ø 200 mm up to Ø 500 mm | |

OPTIONS:

| Workpiece tilickliess medsurement (± 0,5 μm) | |
|---|--|
| Milling spindle for workpiece up to Ø 500 mm | |
| Manually operated tilting axis (B-axis), 360° | |
| Interferometer: measuring area max. 12" | |
| Indexing head (air bearing) for polygon manufacture | |
| Rotary table (air bearing) | |
| Y-axis (roller- air-bearing design) | |

ULTRA-PRECISION-MILLING MACHINE

MMC 900



OUR PROFESSION IS PRECISION

MMC 600/900

ULTRA-PRECISION-MILLING MACHINE

Aerostatic bearing technology

Granite base

Passive vibration isolation system

- Flatness: 0,1 μm within Ø 100 mm

Roughness: 2 nm (Ra)

The MMC (micro milling center) series machines were developed according to the needs of ultra precision milling. By using diamond tools, optical surface quality can be achieved on a wide range of materials like crystals, nonferrous metals and plastics. The MMC 600/900 is the basis for a series of machines that, via several accessories and options, can be fully customized to individual needs. In the basic version the machine consists of a main X-axis featuring a linear air bearing (feed axis), a linear roller bearing Z-axis (infeed axis) and the milling spindle (air bearing) mounted on top of Z. The main application is face milling of optical and mechanical precision components. Several accessories like a Y-Axis, an A-axis and/or C-axis are available, thus expanding the range of machinable parts to microstructures, lenticular structures, spheres, polygons and so on. Accessories, like vacuum chucks, different milling spindles, touch probes for part thickness measurement and even machine interferometers for insitu measurement of workpiece shape, make the MMC 600 and 900 machines an effective tool. Besides further accessories, there is the possibility to make customized solutions, to adapt the machine to your needs. Please do not hesitate to contact



