



## 5-shaft Machining center

- **Hermle C30U automated**
  - 5-shaft Machining center - 2009
  - 120 tools, Soflex tools management
  - Laser tool measurement, + 3D infrared measuring sensor
  - Spindle 18,000 rpm
  - X,Y,Z - 650, 600, 500
  - Swivel range A-shaft  $\pm 110^\circ$ , C-shaft  $360^\circ$  unlimited
  - Automation 26 pallets 320x320mm
  - E-messenger service
- **Hermle C40U**
  - 5-shaft Machining center - 2009
  - 120 tools, Soflex tools management
  - Laser tool measurement, + 3D infrared measuring sensor
  - Spindle 18,000 rpm
  - X,Y,Z - 650, 600, 500
  - Swivel range A-shaft  $110^\circ/25^\circ$ , C-shaft  $360^\circ$  unlimited
  - Automation 26 pallets 320x320mm
  - E-messenger service
- **Hermle C800U**
  - 5-shaft Machining center - 2001
  - 30 tools
  - 3D infrared measuring sensor
  - Spindle 16,000 rpm
  - X,Y,Z - 800, 600, 500
  - Swivel range A-shaft  $\pm 110^\circ$ , C-shaft  $360^\circ$  unlimited

## 3-shaft Machining center

- **Hermle C800V**
  - 30 tools
  - 3D infrared measuring sensor
  - Spindle 10,000 rpm
  - X,Y,Z - 800, 600, 500
  - 2001
- **Hermle C1200V**
  - 30 tools
  - Laser tool measuring
  - 3D infrared measuring sensor
  - Spindle 16,000 rpm
  - X,Y,Z - 1200, 900, 500
  - 2003
- **Hermle C1200V**
  - 30 tools
  - 3D infrared measuring sensor
  - Spindle 16,000 rpm
  - X,Y,Z - 1200, 900, 500
  - 2009



## Measuring room

- **Mitutoyo Crysta-Apex C9168 Measuring machine**
  - 5-shaft, completely cnc controlled
  - Sensor system PH10MQ with TP200 Sensor
  - Exchanging rack for 6 sensors
  - X,Y,Z 905x1605x805mm
  - GeopakCMM Mcosmos measuring software
  - Cad 1000P software for programming on 3D model
  - Measuring accuracy MPEE=(1.9+0.4L/100)pm

## Cad – Cam

- **Visicad van Vero software**
  - 3D Cad modeling
  - 1 Cad licence
  - 4 Cam licences
  - 2D Milling
  - 2D HS Milling (High Speed)
  - 3D Milling
  - 5Ax Simultaan Milling
  - Automatic feature recognition
  - Multi import

## Other

- **Miscellaneous peripheral equipment**
  - Weiler Condor 81 Conventional lathe
  - Rösler vibrating drum for deburring
  - Flat grinder
  - Various tool grinders

## 0-point clamping systems

- **Stark**
  - All CNC Machining center are fitted with STARK Hydraulic 0-point clamping systems

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