

Machinery

CNC milling



Universal 5-axis High-performance machine centre Mikron UCP 600 Vario

- Control unit iTNC 530
- Travel x-axis 600 mm / y-axis 450 mm / Z-axis 450 mm
- Spindle speed 12000
- 7-piece palette changer
- Tilting-axis n x 360°
- 30-piece tool changer
- Swivelling axis -115°/+30°
- Internal coolant feed 70 bar
- IR pushbuttons
- Circular swivel table
- Three-dimensional setting

Universal milling machine Mikron VCP 600

- Control unit Heidenhain TNC 426
- Travel x-axis 600 mm / y-axis 450 mm / Z-axis 450 mm
- Spindle speed 20000
- 30-piece tool changer



Universal 5-axis High-performance machine centre Mikron HPM 1350 U

- Control unit iTNC 530
- Travel x-axis 1350 mm / y-axis 1150 mm / Z-axis 895 mm
- Spindle speed 15000
- a-axis + 16/ -120
- Tilting-axis n x 360°
- 46-piece tool changer
- Internal coolant feed 40 bar
- radio controlled touch-probe
- Circular swivel table Ø 1100
- Three-dimensional setting
- table load 1600 kg

Universal milling machine Deckel Maho DMU 80 E

- Control unit Heidenhain TNC 426
- Travel x-axis 800 mm / y-axis 650 mm / Z-axis 550 mm
- Spindle speed 12000

Universal milling machine Deckel Maho DMU 80 E

- Control unit Heidenhain TNC 426
- Travel x-axis 800 mm / y-axis 650 mm / Z-axis 550 mm

CNC milling

Performance machine centre DMC 103V Deckel Maho

- control unit Haidenhain TNC 426
- travel x-axis 1000mm / y-axis 600 mm / z-axis 600 mm
- 24-pieces tool changer
- internal coolant feed 15 bar

Universal milling machine Mikron WF3 SA

- Linear-path control unit Heidenhain TNC 114
- Travel x-axis 500 mm / y-axis 500 mm / Z-axis 380 mm

Bed milling machine Zayer ZF 2000

- Control unit Heidenhain TNC 415B
- Travel x-axis 1700 mm / y-axis 800 mm / Z-axis 850 mm

Tooling equipment

Tool presetting device Zoller Ventunion 400

- Tool holder SK 40 SK 50
- Control unit saturn set
- Label printer
- Interface to machine

Induction shrink unit

- Up to Ø 20 VHM
- 3.5 KW

Start-hole drilling machine

Start-hole drill type S-26

- Travel x-axis 300 mm / y-axis 250 mm / Z-axis 350 mm

Abrasive blasting device

Abrasive blasting device Gläsner

Wire erosion machines

Wire erosion machine Fanuc L

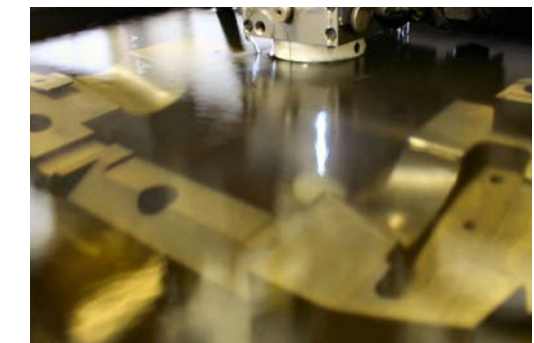
- Cutting range X-axis 250 mm / y-axis 350 mm / Z-axis 200 mm

Wire erosion machine Fanuc ALPHA OC

- Cutting range X-axis 250 mm / y-axis 350 mm / Z-axis 250 mm

Wire erosion machine Fanuc ALPHA OIA

- Cutting range X-axis 320 mm / y-axis 220 mm / Z-axis 180 mm
- 5-axis
- Automatic wire loading



Wire erosion machine Fanuc Alpha-1C

- Cutting range X-axis 520 mm / y-axis 370 mm / Z-axis 300 mm
- 5-axis
- Automatic wire loading

Wire erosion machine Fanuc W2

- Cutting range X-axis 500 mm / y-axis 350 mm / Z-axis 300 mm

Machinery

Sawing

Hacksawing machine Kasto BSM 323 Vertical bandsaw Kleinschmidt

- Wheel diameter D = 400 mm

AV milling

Vertical milling machine Bohle FS 100

- Travel x-axis 1000 mm / y-axis 300 mm / Z-axis 400 mm

Horizontal milling machine Bohle FW 18

- Travel x-axis 1300 mm / y-axis 430 mm / Z-axis 440 mm

Drilling machines

Column drilling machine Flott

Radial drilling machine Webo

- Working range 1250 mm

Radial drilling machine Webo

- Working range 1650 mm

Surface grinding machines

Surface grinding machine ELB OPTIMAL

- Grinding range x-axis 600 mm / y-axis 350 mm / Z-axis 400 mm

Surface grinding machine ELB SW 5 VH I

- Grinding range x-axis 500 mm / y-axis 350 mm / Z-axis 400 mm

Surface grinding machine ELB Perfekt BD 10 SPS

- Grinding range x-axis 1000 mm / y-axis 600 mm / Z-axis 500 mm



Coordinate measuring device

Three-dimensional coordinate measuring machines

Zeiss three-dimensional coordinate measuring machines VISTA CNC

- Measuring volume x-axis 400 mm / y-axis 500 mm / Z-axis 350 mm

Contura G2 1000 aktiv

- Measuring volume x-axis 2100 mm / y-axis 1000 mm / Z-axis 600 mm
- Calypso Software for coordinate measuring technology
- Holos NT Software for freeform measuring technology

Lathe (conventional)

Lathe Nardini MS 205

- Centre distance 800 mm
- Centre height 175 mm

Deep drawing press machines

Hydraulic deep-drawing press Make: SMG HZPU 250/1000S

- Greatest punch pressure 250 t
- Greatest punch stroke 1100 mm
- Table surface 1000 mm x 1000 mm
- Punch surface 1000 mm x 1000 mm
- Installation height 1800 mm
- Most rapid pressing speed 250 mm/s
- Most rapid drawing speed 25 mm/s
- Punch return speed 180 mm/s
- Greatest die cushion pressure 80 t
- Greatest die cushion stroke 400 mm

Hydraulic deep-drawing press Make: Weingarten

- Greatest punch pressure 630 t
- Greatest punch stroke 1100 mm
- Table surface 2000 mm x 1600 mm
- Punch surface 2000 mm x 1600 mm
- Installation height 1000 mm
- Most rapid lowering speed 500 mm/s
- Most rapid drawing speed 50 mm/s
- Punch return speed 500 mm/s
- Greatest die cushion pressure 200 t
- Greatest die cushion stroke 250 mm



Crane track equipment

Crane track Abus

- Lifting capacity 10 t

Crane track Abus

- Lifting capacity 25 t

Factory vehicles

Fork lift truck Linde

- Lifting capacity 4500 kg

Pallet truck BAKA

- Lifting capacity 1500 kg

