

Machine list

MILLER

Deckel MAHO

Universal milling machine DMU 70 Evolution with CNC control 5- Axes

Heidenhain-control ITNC 530

Traverse path

X = 750 mm

Y = 600 mm

Z = 520 mm

20 up to 18000 U/min

Rotary speed area

3 D-continuous path control

Pick-up tool changing/60 magazine compartments

Die shoe SK 40 DIN 69871

NC-swivelling round table

d = 700 x 500 mm

Incl. table cooling, swivelling area

0...180 degrees

Deckel MAHO

Universal milling machine DMU 70 Evolution with CNC control 5- Axes

Heidenhain-control ITNC 530

Traverse path

X = 500 mm

Y = 380 mm

Z = 380 mm

20 up to 15000 U/min

Rotary speed area

3 D-continuous path control

Pick-up tool changing/60 magazine compartment

Die shoe SK 40 DIN 69871

NC-swivelling round table

d = 500 x 380 mm

Incl. table cooling, swivelling area

0...180 degrees

Universal milling machine Klopp UWC5

Feed X, Y, Z

1-2000 mm/min

4-Axes

1-2000 mm/min

Fast movement X, Y, Z

7000 mm/min

4-Axes

2000 mm/min

Shaft rotation speed

20-4000 U/min

Tooling magazine

20 in the plate magazine

Measureable adjustment

X = 1000 mm

Y = 600 mm

Z = 500 mm

Universal milling machine with CNC-control

Auerbach

TNC 407 Heidenhain

Working Area:

X = 525 mm

Y = 425 mm



Universal milling machine with CNC-control

Auerbach

TNC 355 Heidenhain

Working Area:

X = 500 mm

Y = 400 mm

Z = 330 mm

Free admission between table surface and

Milling spindle

441 mm

Clamping surface of table

710 x 400 mm

Weight of workpart maximum

180 kg

Free admission between table surface and

Milling spindle

415 mm

Clamping surface of table

800 x 400 mm

Weight of workpart maximum

400 kg

Universal milling machine with automatic cycles over cam control

Measurable adjustment

X = 1320 mm

Y = 345 mm

Z = 550 mm

Table clamping area

1800 x 450 mm

Load of table

1500 kg

Turning area of table saw

+/- 45 degrees

Milling tooling machine with digital path measurements

Working area

Length: 400 mm

Breadth: 350 mm

Height: 380 mm



TURNING LATHE

Spinner TS 66 MS

Stanchion admission	d = 66 mm
Chuck diameter	210 mm
Maximum distance	730 mm

CNC – lathe

Maximum height	205 mm
Rotate-diam over bed	410 mm
Rotate-diam over face slide	240 mm
Peak wide 660 mm	
Spindle-drillings	60 mm

Lathe

Maximum height	235 mm
Maximum wide	1000 mm
Rotate-diam over bed	475 mm
Rotate-diam over face slide	290 mm
3-Axes-digital display	

Universal Lathe

Rotate-diam over bed	350 mm
Rotate-diam over support	200 mm
Maximum wide	1000 mm

Guide screw and feed shaft lathe

Rotate-diam over bed	630 mm
Rotate-diam over support	380 mm
Maximum wide	3000 mm

GRINDING

Jig grinding machine with CNC - control 6- Axes

Working area:

Length: 710 mm
Breadth: 400 mm
Height: 510 mm
0,001 mm
12000 U/min

Adjusting accuracy
Grinding motor

Jig Grinding machine with CNC - control

Working area:

Length: 500 mm
Breadth: 300 mm
5000 mm/min
0,001 mm
60000 U/min

Cross position
Adjusting accuracy
Grinding motor

Jig Grinding machine with CNC- control

Working area:

Length: 450 mm
Breadth: 280 mm
Height: 350 mm
0,001 mm
45000 U/min

Adjusting accuracy
Grinding motor

Surface grinding machine (Jung)

Grinding area

Length: 450 mm
Breadth: 200 mm
0,002 mm

Adjusting accuracy

Surface grinding machine ABA FFU 1500/60

Grinding area

Length: 1500 mm
Breadth: 600 mm
Height: 700 mm
0,002 mm

Adjusting accuracy

Circular grinding machine with inside grinding equipment and diaform

Grinding area Maximum Breadth:

600 mm
Maximum Height: 175 mm
0.001 mm
28000 U/min

Precision up to diameter 349,5
Inside grinding

Circular grinding machine with inside grinding equipment and diaform

Grinding Area:

Maximum Breadth: 1000 mm
Maximum Height: 600 mm
0.001 mm
28000 U/min

Precision up to diameter 349,5
Inside grinding

Circular grinding machine with inside grinding equipment and diaform

Precision up to diameter
Inside grinding

720 mm
10000 U/min



PUNCHING

KASTO production saw

PSB 240AU

Maximum feed length

Punching area diameter

Punching area

750 mm

240 mm

240/230x180/230mm

Plate shear

Punching breadth

Punching thickness

2000 mm

4 mm

WELDING

Protective gas equipment Oerlikon

WIG-equipment for aluminium and stainless steel

Autogenous welding apparatus

Welding transformer and trafo

PRESSING

hand shaft press

40 tons

75 tons

QUALITYMANAGEMENT

Coordinate measuring machine Mitutoyo Typ FM 905 S

CNC controlled

First coat accuracy

4,5 + 0,5 L/100µm

Contracer Tester Hommel C 8000

Tactile drift

Measuring height

1000-times extension

Measure system µm for measuring of exact maximum outlines

120 mm

440 mm

C A D

Software

Construction area

3D

- Solid Works 2008 of Solid Works
- Unigraphics Version V15.0.3 of Solution GmbH
- Inventor 8 of Autodesk

2D

- Auto Cad 2004 of Autodesk
- Mechanical Desktop 2004 of Autodesk

Process engineering area

- Vector Cad (igs.In/Out) from Centriforce
- Coscom from Coscom
- PPS and merchandise management software of Sage KHK

Electronical area

- EPLAN V 5.50.3 P8
- WSCAD V 4.0
- Step 5 V 6.6/Graph 5/II von Siemens
- Step 7 Professional V5.4 + SP 1 von Siemens
- S7-Graph Professional V5.3 + SP 2 of Siemens
- Simatic Winn CC flexible of Siemens
- Standard 2005 SP1 of Siemens
- Sucusoft V5.02 of Moeller