

# MACHINERY

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**PUTZIN**  
Maschinenbau GmbH





## INDEX

Overview	3
Machining and milling centers	4 - 6
Drills	7
Lathes	8 - 10
Measuring instruments	11 - 13
Keyseating	14
Saw	15
Grinders	16
Other machines	17
Notes	18 - 19
Contact	20



## OVERVIEW

### Machining and milling centers:

Maximum table load:	1.400 kg
Maximum clamping area X-direction:	2.700 x 500 mm
Maximum clamping area Y-direction:	700 x 850 mm
Maximum axle machining:	5-Axis

### Drills:

Maximum parts height:	1.580 mm
Maximum drilling range:	1.290 mm

### Lathes:

Maximum turning length:	1.500 mm
Maximum swing above bed:	800 mm
Maximum swing above cross slide:	760 mm

### Keyseating:

Maximum groove width:	22 mm
Maximum groove length:	300 mm

### Grinders:

Maximum surface grinding:	600 x 350 x 350 mm
Maximum internal grinding:	ø250 x 160 mm
Maximum external grinding:	ø300 x 1.000 mm
Maximum axle grinding:	5-Axis

# MACHINING AND MILLING CENTERS

## Overview:

Maximum table load:	1.400 kg
Maximum clamping area X-direction:	2.700 x 500 mm
Maximum clamping area Y-direction:	700 x 850 mm
Maximum axle machining:	5-Axis



### 5-axis machining center HERMLE C40,

Control Haidenhain iTNC530

Year 2008

Axes x/y/z: 850/700/500 mm

+ NC-swivel rotary table D=800 mm

Max. table load 1.400 kg

Rapid traverse\* X-Y-Z 60 m/min.



### 4-axis machining center BRIDGEPORT XR1000,

Year 2007

Control Haidenhain iTNC530

Axes x/y/z: 1.200/610/6610 mm

PPrecision rotary table DCN250DI

Max. table load: 900 kg

ATC with 30 tools SK40

Acceleration\* 6m/s

Oil mist extraction



### 5-axis machining center HERMLE C30U,

Control Heidenhain ITNC530,

Year 2004

Axes x/y/z: 650/600/500 mm

+ NC-swivel rotary table D=630 mm

Max. table load 800 kg

Tool magazine with 32 tools SK40

Rapid traverse\* X-Y-Z 45 m/min.

Acceleration\* 6 m/s



**Machining center STAMA CNC,  
model MC014** with Fanuc 16i-MA  
control,  
Year 1997  
Axes x/y/z: 500/380/300 mm  
Tool magazine with 14 tools SK 30  
Table clamping area 650 x 380 mm  
Drive power 5,5 KW



**Machining center STAMA,  
Type MC010** with Fanuc-Control,  
Year 1997  
Axes x/y/z: 500/380/300 mm  
Tool magazine with 10 tools SK 30  
Table clamping area 650 x 380 mm  
Drive power 5,5 KW



**Machining center STAMA,  
Model MC530** with Fanuc CNC-control,  
Year 1993  
Axes x/y/z: 1600/400/350 mm  
Tool magazine with 40 tools SK 40  
Table clamping area 2000 x 400 mm  
Drive power 27 KW



**Machining center AXA Model VSC-M,**  
Year 1988  
Axes x/y/z: 2300 mm bzw. 2 x 980/420/480 mm  
Tool magazine with 22 tools SK 40  
Table clamping area 2700 x 500 mm  
A-Axis  
Drive power 11,2 kW



**High -precision double-sided Machining center  
MAZAK**

**Modell VQC-15/40** with Prod-computer-system  
MAZATROL CAM M-2 and pallet changer,  
Year 1987

Axes x/y/z: 560/410/380 mm

Tool magazine with 30 tools Ansi-Cat40

Table clamping area 410 x 900 3 T-slots

Drive power 5,5 KW



**Universal tool milling and drilling machine**

with screen-path control CNC,

**Hermle UWF**

Axes x/y/z: 700/550/500 mm

Haidenhain TNC 355

Table clamping area 1000 x 00 mm



**Universal Milling Maschine**

**Model FNGJ 40** with Haidenhain digital display

Year 2002

Axes x/y/z: 600/400/400 mm

Table clamping area 400 x 800 mm

Drive power 4,0 KW



**Universal-gear-wheel-milling-center KOEPFER,**

Model 150

max. milling diameter 145 mm

max. module: 2

max. milling width front wheel 110 mm

Drive power 1,75 KW

# DRILLS

## Overview:

Maximum parts height:	1.580 mm
Maximum drilling range:	1.290 mm



### **DONAU CNC rapid radial drilling machine, Danumeric 440, Year 2000**

Tool holder SK40

Sleeve range (Z-Achse) 200 mm

Pillar range (Y-Achse) 410 mm

Distance spindel top - at least 970 mm

Ground up. 1580 mm

Bohr radius max. 1290 mm

Worktable height 900 mm

Drilling into solid material - steel St 60  $\varnothing$ 40 mm

- GG 20  $\varnothing$ 50 mm

Drive power 5,5 KW



### **Various other drills and tapping machines**

# LATHES

## Overview:

Maximum turning length:	1.500 mm
Maximum swing above bed:	800 mm
Maximum swing above cross slide:	760 mm



### Cycle control lathe Böhringer DUS800ti, Year 2008

Max. turning length: 1.000 mm  
Max. swing over bed: 820 mm  
Max. swing over cross slide: 500 mm  
Speed / power performance  
Drive power 60%ED: 46 kW  
Max. torque 60%ED: 5.070 nM



### CNC Lathe

#### Hwacheon Cutex160, Year 2008

Number of spindles: 1  
Number of turrets: 1  
Turning diameter max: 300 mm  
Main spindle chuck diameter: 152 mm  
Max. turning length: 300 mm  
Main spindle speed: 6000 U/min  
Main spindle power: 7,5 kW  
Control: Siemens 810 S



### Conventional lathe Weiler Commodor 230, Year 2009

Max. turning length: 1.000 mm  
Swing over bed: 475 mm  
Swing over cross slide: 270 mm  
Spindle bore: 56 mm  
Drive power: 7,5 kW  
Speeds: 24  
Speed range: 13-2000





**Universal Lathe VDF Model DUE 500/1500,**

Year 1999

Centre height 240 mm

Swing over bed 500 mm

Swing over cross slide 285 mm

Chuck diameter 400 mm

Drive power 11 KW



**Cycle controlled lathe Gildemeister N.E.F. 520,**

Year 2004

controlled with Manual Plus

Swing over bed 500 mm

Swing over cross slide 290 mm

Chuck diameter 250 mm

Drive power 11 KW



**Cycle controlled lathe Gildemeister N.E.F. 520,**

Year 1999

controlled with Manual Plus

Swing over bed 500 mm

max. turning length 1500 mm

Chuck diameter 250 mm

Spindle bore 70 mm

Drive power 11 KW



**Lathe TRAUB**

**CNC-controlled, modell TND 400,**

with driven tools, Year 1993

Swing over bed 480 mm

Swing over cross slide 240 mm

12-fold turret

Chuck diameter 225 mm

Spindle bore 65 mm

Drive power 31 KW



**Lathe MAZAK  
CNC-controlled, model Quik Turn 15,**

Year 1990  
Swing over bed 260 mm  
Swing over cross slide 260 mm  
max. turning length 450 mm  
8-fold turret  
Chuck diameter 210 mm  
Spindle bore 56 mm  
Drive power 15 KW



**Lathe GILDEMEISTER  
CNC-controlled, modell NEF CT 40,**

Year 1987  
Swing over bed 400 mm  
Swing over cross slide 225 mm  
8-fold turret  
Chuck diameter 160 mm  
Spindle bore 72 mm  
Drive power 22 KW

**Various other lathes reputable manufacturer**

# MEASURING INSTRUMENTS

## Overview:

Various instruments



### **3D-CNC-Coordinate measuring machine**

**Mitutoyo Crysta-Apex C9108**, Year 2009

Travels 905 / 1.005 / 805 mm (x/y/z)

Max. table load: 1.200 kg



### **3D-CNC-Coordinate measuring machine**

**Mitutoyo EURO-C574 APEX**, Year 2001

Travels 505 / 705 / 405 mm (x/y/z)



### **GARANT measuring microscope**, Year 2007



**2 pieces height gauges Mauser SPC-V5**  
for measuring height 600 mm, Year 1995/98



**Bench centers manufactured by FAG**  
Type FMS 2100



**Hardness tester manufactured by SMTMF DHT**  
Type HRSS-150



**Calibration Jähnert ULM 01-600 D,**  
Year 1987 with software for  
Data acquisition



**Tool presetting device manufactured by Kelch,  
Kalimat-C36, Year 2008**



**Tool presetting device manufactured by Zoller,  
Year 1991**

**2 Pieces roughness gauges  
with printout**

# KEYSEATING

## Overview:

Maximum groove width:	22 mm
Maximum groove length:	300 mm



## Hydraulic Keyseating

**Make LEISTRITZ, type: Polymat 25/300**

Year 2004

Groove width 2-22 mm

Groove length 300 mm

Bore diameter 10-350 mm

# SAW

## Übersicht:

Maximum cutting width: 380 mm



**Fully automatic double column controlled  
high-performance band-saw,  
Kaltenbach VMB 380 DS, Year 1996**  
Maximum cutting width 380 mm  
Drive power 5,5 KW



**Circular saw manufactured by Eisele,  
Year 1998**

# GRINDERS

## Overview:

Maximum surface grinding:	600 x 350 x 350 mm
Maximum internal grinding:	ø250 x 160 mm
Maximum external grinding:	ø300 x 1.000 mm
Maximum axle grinding:	5-Axis



### CNC-cylindrical grinders

**STUDER S33**, Year 2005

Centre height: 175 mm

Maximum workpiece weight: 120 kg

Maximum grinding length: 1.000 mm

Swivel range wheelhead -15 ... +195°

Grinding wheel dimension: 500 x 63 (80) mm

Drive power: 7,5 kW



### Precision surface grinding machine

**Jung Jutec 635**,

Year 1998

Operating capacity:

Maximum grinding length 600 mm

Maximum grinding width 350 mm

Maximum working height 350 mm

Magnetic plate 350 x 650 mm

Drive power 3,7 KW



### Universal cylindrical grinder

**Jones & Shipman 1300 x-700**,

Year 1996

Maximum grinding length 700 mm

Maximum height 125 mm

Maximum workpiece weight 100 kg

Drive power 4 KW



## OTHER MACHINES

### Overview:

Various other machinery and equipment

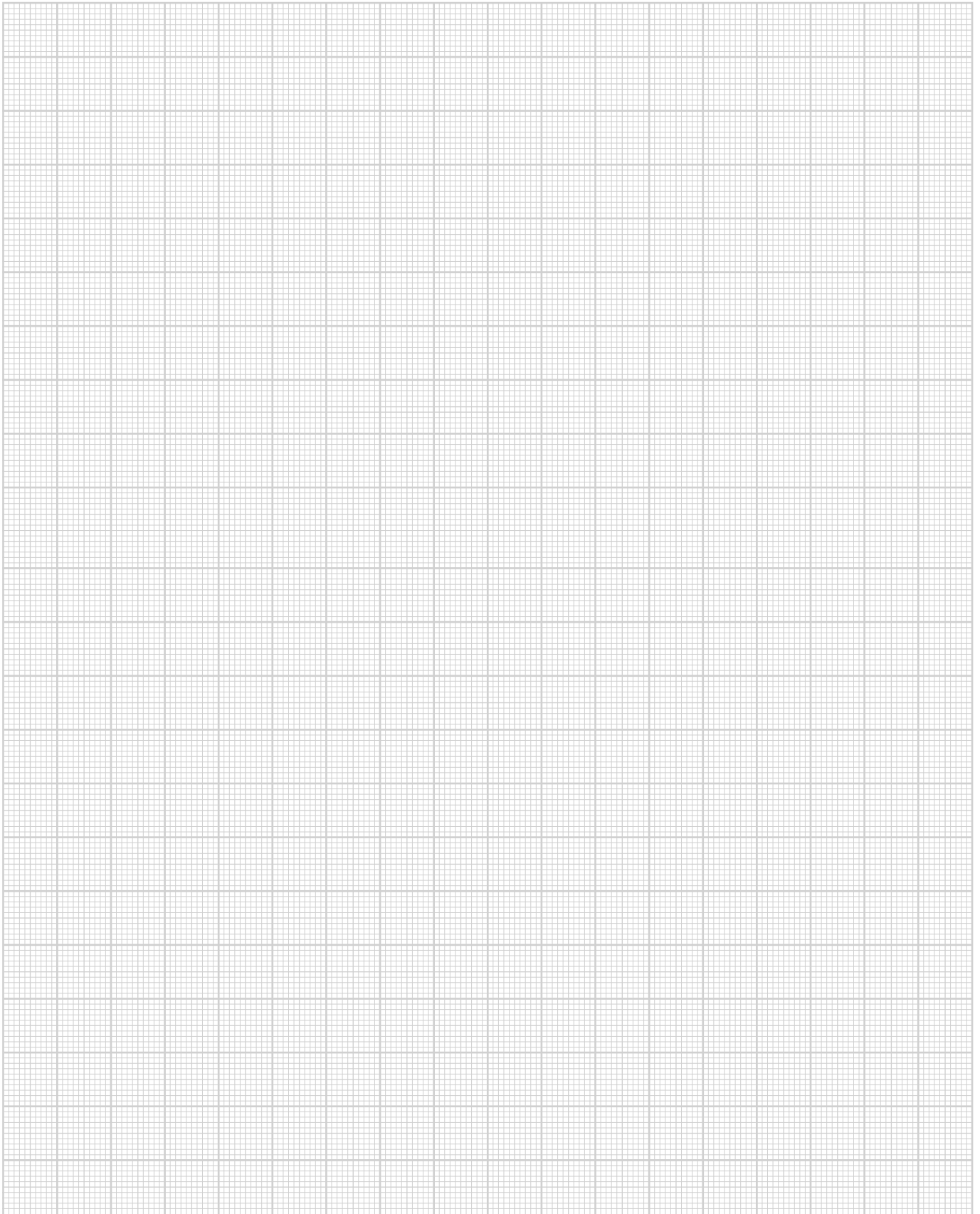


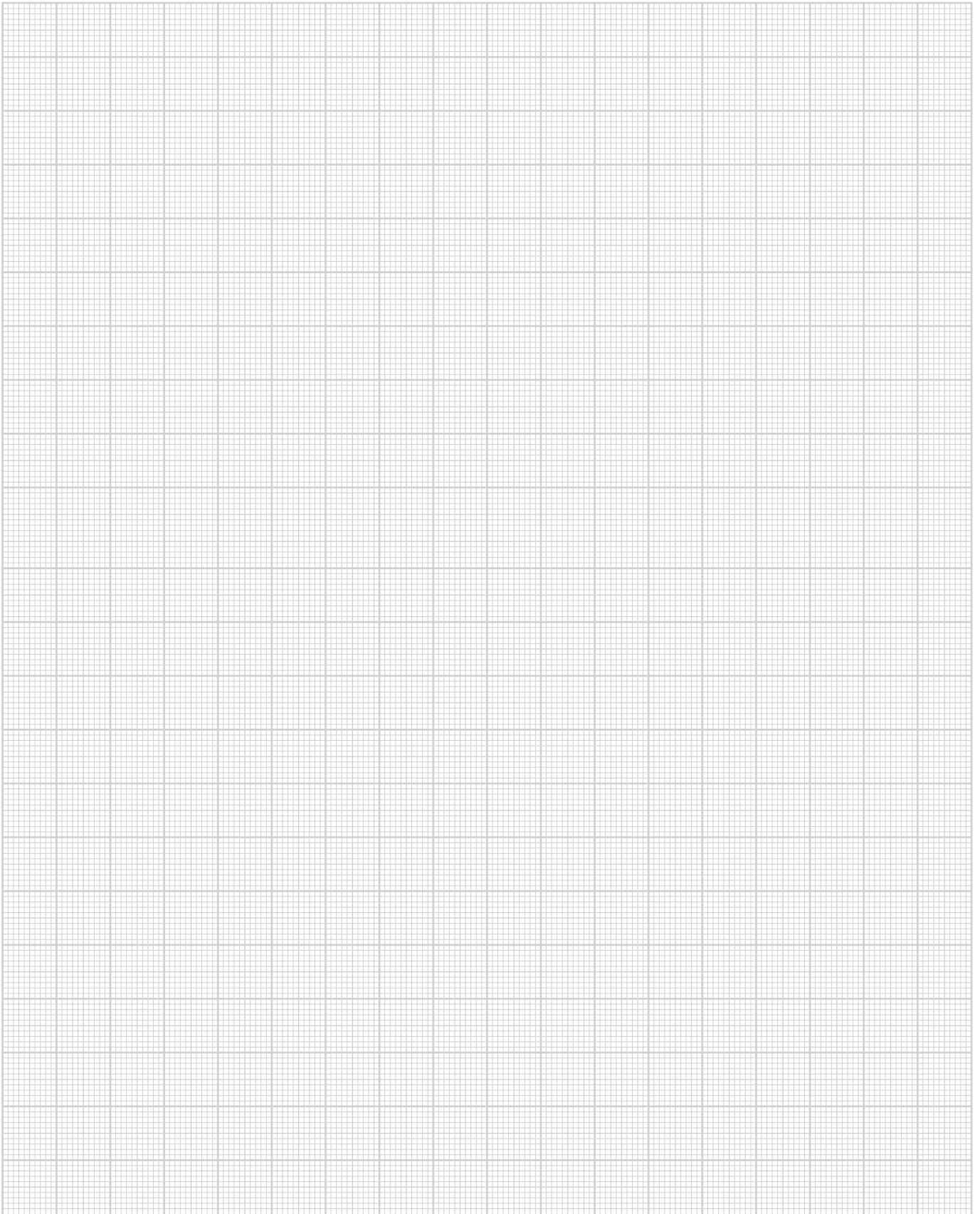
**Micro Blasting Machine**  
**Manufacturer PEENMATIC, type 750S**  
for Blasting, Year 1998  
Working area 590 x 300 x 250 mm



**Scoring and dot peen, manufacturer BORRIES**  
**Series 322**, Year 1999  
for individual labeling and  
marking of workpieces

**Paint spraying system KSP 8-DT/above ground level with drying, manufacturer LUTRO,**  
Year 1998  
Painting area: length 8 m, width 4 m,  
height 4 m







**PUTZIN**



Maschinenbau GmbH  
Wilhelm-Busch-Strasse 3 - 5  
91257 Pegnitz  
GERMANY

Tel.: +49 9241 4994 - 0  
Fax: +49 9241 4994 - 99  
Email: [info@putzin.de](mailto:info@putzin.de)  
Web: [www.putzin.de](http://www.putzin.de)

