

# MACHINING

MILLING				
<b>MACHINING CENTERS (3 TO 5 AXES)</b>				
	X	Y	Z	
Hermle C20 UP	600	450	450	
Hermle C30 UP	650	600	500	
Hermle C800 UP	650	600	500	
DMG Mori DMC 65 H duoBlock	700	700	700	
DMG Mori DMC 80 H duoBlock	800	800	800	
DMG Mori DMC 80 U duoBlock	800	1,050	800	
DMG Mori DMC 100 U duoBlock	1,000	1,250	1,000	
DMG Mori DMC 160 U duoBlock	1,600	1,250	1,000	
DMG Mori DMC 635 V	635	510	460	
GrobG352	600	855	750	
				Paths of travel
<b>LONG-BED MILLING MACHINES (3 OR 4 AXES)</b>				
	X	Y	Z	
DMG Mori DMF 180	1,800	700	700	
DMG Mori DMF 220 Linear	2,200	560	720	
DMG Mori DMC 250 Linear	2,500	920	820	
				Paths of travel
<b>BORING MACHINES</b>				
	X	Y	Z	W
Grob BZ 1600	2,500	1,600	1,800	
Wotan Rapid 1	3,500	1,600	1,250	600
Waldrich Coburg MultiTec	4,500	3,500	1,500	
				Paths of travel
All machines are equipped with measuring sensor systems with optical signal transmission.				

Dimensions in mm

TURNING		
<b>TURNING/MILLING CENTERS</b>		
	L	Ø
Index G200.2	710	65
Index G160	600	120
Index G300	700	240
Index G250	1,400	300
		Maximum values
<b>VERTICAL TURNING MACHINE</b>		
	L	Ø
Hüller Hille VDM 90	630	1,000
		Maximum values

GRINDING				
<b>EXTERNAL CYLINDRICAL GRINDING WITH IN-PROCESS MEASUREMENT</b>				
	L	Ø		
Schardt FlexGrind S 1000	1,000	440		
				Maximum values
<b>CURVE GRINDING MACHINE</b>				
	X	Y	Z	
Kopp SK25	800	400	400	
				Maximum values
<b>FLAT-GRINDING MACHINES WITH MAGNETIC TABLE</b>				
	X	Y	Z	Ø
Elb-Schliff BD10	1,000	400	600	
aba easyGrinder 5	500	250	420	
G & N MPS 2 - R300			100	300
				Maximum values
<b>GLOBOID MILLING AND GRINDING MACHINE</b>				
	A	Z		
Kopp FS621	440	640		
				Maximum values

WIRE ERODING			
	X	Y	Z
Mitsubishi FA 20S	500	350	300
			Paths of travel

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# DESIGN

## WE DEVELOP YOUR PRODUCT WITH OUR ENGINEERS AND DESIGN DRAFTSMEN

- 3D/CAD design using Solid Edge
- Development of special machines as well as design to order
- Complex free-form modeling
- Consultancy regarding development
- Electrical design
- 3D prototyping
- Equipment design
- Calculations
- Simulationen
- 2D- / 3D-Drawings
- Technical documentation and presentation

# SURFACE TREATMENT

## SLIDE GRINDING

Walther Trowal circular and trough vibrators

## GLASS BEAD BLASTING

M.H.G blast machine, air flow rate: 1,600 m³/h

## WET PAINTING

- On 600 m²
- 6 paint preparation booths
- Washing machine for up to 1,500 kg
- Painting room (24 m²) with adjacent drying room (20 m²), including heat recovery

## FURTHER SURFACE TREATMENTS THROUGH ASSOCIATED COMPANIES

- Tempering
- Nitriding
- Anodizing
- Electroless nickel-plating
- Black finishing
- Tuftram® coating

# ASSEMBLY

## OF SUBASSEMBLIES, MACHINES & COMPLETE COMPLEXES

- On approx. 2,500 m²
- Precision Measurement Technology
- Gantry cranes (for up to 16t)
- Kanban screw storage system

# QUALITY MANAGEMENT

## QUALITY ASSURANCE

- 3 CNC coordinate measuring machines (by Leitz and Zeiss, respectively) in a fully air-conditioned measuring room, max. work piece size: 4 m x 2 m x 1.6 m
- QA department of 300 m² with various measuring machines, fully IT-assisted
- Certified according to DIN EN ISO 9001:2015

# FURTHER FACILITIES

## SAWING

	Square: W x H	Ø max.
Kasto Twin A2 band-saw	260x260	260
Behringer HBE 411A band-saw	510x410	410

Dimensions in mm

## LASER MARKING

Trumpf Laser VMC5 diode-pumped solid-state laser

Trumpf Laser TruMark 5050 ytterbium fiber laser

## METALWORKING DEPARTMENT

- On 600 m²
- Grinding and polishing workplaces, also for aluminum
- Joining technologies
- Gluing
- CNC box column drilling machine
- Marking plate (4,000 mm x 2,500 mm)
- Shaft straightening machine
- Rausch keyseating machine

