

## TECHNICAL DATA OF EQUIPMENT MACHINING EQUIPMENT

MANUFACTURER/TYP	CONTROL	TRANSFER PATHS (MM)
5-axis portal milling machine Heyligenstaedt HEYNUMILL 3200-P	FIDIA M20	6,000 x 4,000 x 1,400
5-axis portal milling machine Heyligenstaedt HEYNUMILL - GANTRY 4000	FIDIA C 20 X Power	6,500 x 4,000 x 1,400
5-axis milling machine DMG Mori Seiki DMU 270P	Heidenhain iTNC 530	2,700 x 2,700 x 1,600
5-axis milling machine DMG Mori Seiki DMU 210P	Heidenhain iTNC 530	1,800 x 2,100 x 1,250
5-axis milling center DMG DMU 200P (circular table, swivelling head)	Heidenhain iTNC 530	2,000 x 1,800 x 1,100
5-axis milling center DMG DMC 85 RS6 (circular table, swivelling head)	Heidenhain TNC 640	935 x 850 x 650
5-axis milling center DMG DMU 80 mono Block (circular table, swivelling head)	Heidenhain iTNC 530	980 x 630 x 630
5-axis milling center Soraluce TA-A 25	Heidenhain TNC 640	2,500 x 1,200 x 1,250
3-axis milling center SNK EXI 100 VK	FIDIA M20	1,500 x 1,000 x 900
3-axis milling center DMG DMC 104V Linear	Heidenhain iTNC 530	1,400 x 600 x 500
Boring machine Fermat WFT 13 CNC	Heidenhain iTNC 530	3,500 x 2,500 x 1,250
Universal milling machine Unitech FSS 400	Heidenhain	1,100 x 350 x 600

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**MACHINING EQUIPMENT**

MANUFACTURER/TYP	CONTROL	TRANSFER PATHS (MM)
Precision face grinding machine Okamoto PSG 84 UDX	Digital display	800 x 500 x 400
Cylindrical external/internal grinding machine Paragon GUP 32x5		Center distance 500 Center height 150
Precision lathe Harrison ALPHA 400 Plus	FANUC GE 21T	Center distance 1,250 Center height 195
Lapping Stähli ML 1500-3		Ø dressing ring 580

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### PRESSES

EQUIPMENT	MANUFACTURER	PRESS FORCE (KN)	TABLE DIMENSION (MM)
1 hydraulic tryout press (upper and lower die air)	Loire Safe	25,000	5,000 x 2,500
1 hydraulic tryout press (upper and lower die air)	SCMB Müller Weingarten-HACO	16,000	4,500 x 2,500
1 hydraulic press	Raster - SWZ	5,000	5,000 x 2,500
1 hydraulic press	EXNER	5,000	2,500 x 2,000

### MEASURING MACHINE

3D co-ordinate measuring machine SMM-C/RDS with CNC by Zeiss to be run in air-conditioned room Software: Zeiss Calypso Holos NT Measure Dimension Reverse Engineering	3,000 x 1,600 x 2,100
3D co-ordinate measuring machine by Stiefelmayer with dialogue unit for receiving CAD data	3,000 x 1,600 x 2,100
optical 3D-scanner GOM Atos Triple Scan Software: ATOS Professional File formats: .igs, .stl, .atos	-

### CAD-SYSTEM

CAD-workstations	Catia V5
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### FORMING SIMULATION

workstations	Autoform
workstations	Pam Stamp

### CAM-SYSTEM

2 1/2D/3D CAM-workstations	Tebis
CAM-workstations	Work-NC

### DATA TRANSFER

B2B, E-Mail, FTP, KVS, Swan, WebDAV, PRISMA