



Machine list

Milling Centre

Count	Description	Dimension	Measure
1	DMU 600 Gantry linear Heidenhain control iTNC 530 Magazine with 2 milling heads 5-Axis processing	X-axis Y-axis Z-axis Clamping surface length Clamping surface width Work piece max. load Feed rate	6,000 mm 4,500 mm 1,500 mm 5,000 mm 3,000 mm 30,000 kg Up to 45 m/min
1	Heyligenstaedt Heynumill 3200-P Heidenhain control iTNC 530 Magazine with 4 milling heads 5-Axis processing	X-axis Y-axis Z-axis Clamping surface length Clamping surface width Work piece max. load	6,000 mm 3,200 mm 2,050 mm 5,000 mm 3,000 mm 40,000 kg
1	Kekeisen PFW-T 4000/27/12 CNC-Heidenhain control iTNC 530 5-Axis orthogonal head 5-Axis processing	X-axis Y-axis Z-axis Clamping surface length Clamping surface width Work piece max. load	4,000 mm 2,700 mm 1,200 mm 4,000 mm 1,800 mm 10,000 kg
1	Droop & Rein FSM 1406 DA kc N Heidenhain control iTNC 530	X-axis Y-axis Z-axis Clamping surface length Clamping surface width Work piece max. load	2,400 mm 1,400 mm 1,250 mm 5,155 mm 1,400 mm 10,000 kg

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Count	Description	Dimension	Measure
1	DMU 210 P Heidenhain control iTNC 640 5-Axis processing	X-axis Y-axis Z-axis NC-Round table Feed rate Work piece max. load	2,100 mm 2,100 mm 1,250 mm 1,700 x 1,400 mm Up to 60 m/min 8,000 kg
1	DMU 160 P Heidenhain control iTNC 640	X-axis Y-axis Z-axis NC-Round table Feed rate Work piece max. load	1,600 mm 1,600 mm 1,100 mm 1,600 x 1,250 mm Up to 60 m/min 4,500 kg
1	DMF 180 Heidenhain control iTNC 530	X-axis Y-axis Z-axis Clamping surface length Clamping surface width Work piece max. load	1,800 mm 700 mm 700 mm 2,100 mm 700 mm 1,500 kg
1	Alzmetall GS 1000 Heidenhain control iTNC 530 5-Axis processing	X-axis Y-axis Z-axis Clamping surface length Clamping surface width Work piece max. load	800 mm 800 mm 600 mm 800 mm 630 mm 1,000 kg
1	PosMill H800 U Heidenhain control iTNC 530 5-Axis processing	X-axis Y-axis Z-axis NC-Round table Work piece max. load	670 mm 820 mm 600 mm 800 mm 1,200 kg

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Count	Description	Dimension	Measure
1	Mikron HSM800 Heidenhain control iTNC 530 4-Fold pallet station	X-axis Y-axis Z-axis Clamping surface length Clamping surface width Work piece max. load	800 mm 800 mm 500 mm 900 mm 600 mm 1,000 kg
1	Processing centre Hermle C 600 V Heidenhain control iTNC 530	X-axis Y-axis Z-axis Clamping surface length Clamping surface width Work piece max. load	600 mm 450 mm 450 mm 800 mm 465 mm 1,000 kg
1	PosMill Typ C1050 Heidenhain control iTNC 530	X-axis Y-axis Z-axis Clamping surface length Clamping surface width Work piece max. load	1,050 mm 530 mm 630 mm 1,150 mm 560 mm 700 kg
1	PosMill Typ 1100 Heidenhain control iTNC 530	X-axis Y-axis Z-axis Clamping surface length Clamping surface width Work piece max. load	1,100 mm 600 mm 510 mm 1,050 mm 600 mm 800 kg

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Lathes

Count	Description	Dimension	Measure
1	Weiler Condor B Lathe	Peak height Peak width	115 mm 800 mm
1	Haas TL-1 CNC Lathe	Peak height Peak width	203 mm 762 mm

Grinders

Count	Description	Dimension	Measure
1	ABA EcoLine 1006A Surface grinders	Grinding length Grinding width Grinding height Clamping area	1,000 mm 700 mm 600 mm 1,000 x 500 mm
1	Elb Perfekt SPS-NK Surface grinders	Grinding length Grinding width Grinding height	600 mm 400 mm 475 mm
1	Jung HF50 Diaform grinder	Grinding length Grinding width Grinding height Clamping area	600 mm 200 mm 330 mm 600 x 200 mm

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Metrologic machines

Tactile

Count	Description	Dimension	Measure
1	CNC metrologic machine Zeiss Compact control C98 Fully graphical measurement and evaluation software with CAD core for Holos NT	Table area X-axis Y-axis Z-axis	3,500 x 2,000 mm 2,500 mm 1,500 mm 1,500 mm
1	Horizontal metrologic machine Zeiss Carmet 20/12/15 CNC controlled Fully graphical measurement and evaluation software with CAD core for Holos NT	X-axis Y-axis Z-axis	2,000 mm 1,200 mm 1,500 mm

Optical

Count	Description	Dimension	Measure
1	Optical 3D metrologic Steinbichler Comet L3D 8M Measuring accuracy of 0.03 mm	X-axis Y-axis Z-axis	565 mm 425 mm 350 mm

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Presses

Count	Description	Dimension	Measure
1	Hydraulic press LOIRE SAFE 2500t	Press force in ram Die pressure stroke Die pin arrangement on the table Tappet stroke Table and tappet area Width between the stands Max. distance Between table – tappet Min. distance Between table – tappet	25,000 kN 0 – 200 mm 150 x 150 mm 1,700 mm 5,000 x 2,500 mm 5,100 mm 2,200 mm 500 mm
1	Hydraulic double-column press Müller Weingarten	Pressure performance Table and tappet area Max. distance Between table – tappet Tappet stroke	2,000 kN 1,400 mm 1,300 mm 600 mm
1	Hydraulic press SMG	Pressure performance Low-pressure Table and tappet area Max. distance Between table – tappet Tappet stroke Die depth	2,000 kN 600 kN 1,000 mm 850 mm 500 mm 250 mm

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Count	Description	Dimension	Measure
1	Hydraulic Press Müller Type ZE 400-16.1.10	Press force in ram Holding force in the die cushion Die cushion hub Tappet stroke Table and tappet area Width between the stands Max. distance Between table – tappet Die pin arrangement Dimension of coil material Inner ø max. Outer ø max. Strip width max. Coil weight	4,000 kN 1,600 kN 350 mm 800 mm 1,600 x 1,300 mm 1,720 mm 1,100 mm 150 x 150 mm 460 – 630 mm 1,400 mm 600 mm 3500 – 4000 kg
1	Hydraulic Press Eitel GZ 630 F4	Press force in ram Holding force in the die cushion Ejection force Die cushion hub Max. distance Between table – tappet Adjustable stroke Ejection stroke Table and tappet area Bolt ø Die pin arrangement	6,300 kN 2,300 kN 80 kN 400 mm 1,550 mm 0 – 900 mm 200 mm 2,500 x 1,730 mm 52 mm 150 x 150 mm

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Count	Description	Dimension	Maß
1	Mechanical Press Schuler P4E2Sq 1200/4,5/0,6	Press force in ram Die pressure stroke Die pin arrangement on the table Tappet stroke Table and tappet area Width between the stands Max. distance Between table – tappet Ejection classification Ejection stroke	12,000 kN 0 – 200 mm 150 x 150 mm 600 mm 4,500 x 2,700 mm 4,550 mm 2,200 mm 150 x 150 mm 150 mm
1	Mechanische Presse Schuler P4E2Sq 1200/3,5/0,6	Press force in ram Die pressure stroke Die pin arrangement on the table Tappet stroke Table and tappet area Width between the stands Max. distance Between table – tappet Ejection classification Ejection stroke	12,000 kN 0 – 200 mm 150 x 150 mm 600 mm 3,500 x 2,700 mm 3,550 mm 2,200 mm 150 x 150 mm 150 mm

Machine list Version 05 | 2022. No responsibility is taken for the correctness of this informations.

CAD / CAM

Count	Description	Count	Description
8	Catia V5	10	Featurecam / DELCAM
2	Autoform V4.5 for die simulation (Incremental, AF-Trim)	1	PowerInspect
4	Siemens NX	2	Holos
3	WorkNC		Interfaces: VDAFS, STEP, IGES, DXF
			Data transfer: FTP

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