

GRINDING

Brand	Type
Jung	JF520
GER	S 10/50
Kellenberger	KEL 1000 U
Hembrug	

Machiningtype
Profile
Profile
Round
Tools

Technicalities

Binnenslijpinrichting

LASERENGRAVING

Brand	Type
Trotec	FP100

Max range in mm		
X	Y	Z
610	305	125

Technicalities

4th axis, maximum round 80

FINISHING

Brand	Type
Branson	BC-4530
Rösler	R110/280
Rösler	R180/530
Rösler	R 220 EC

Machiningtype
Ultrasonic cleaning
Drum deburring
Drum deburring
Roundvibrator

Technicalities

Inner dim. 450x300x350

CNC MEASURING MACHINES

Brand	Type	Max range in mm			Accuracy in mikron
		X	Y	Z	
Zeiss	Acura 12/18/8	1200	1800	800	E0=1,8+L/350
Zeiss	Duramax 5/5/5	500	500	500	E0=2,4+L/300
Zeiss	Contura 10/16/6	1000	1600	600	E0=1,8+L/350
Zeiss	O-inspect 543	500	400	300	E0=1,6+L/250
Faro	Prime				
Matech	S1 Turbo SD				

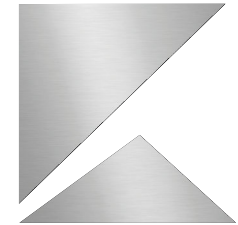
Technicalities

Workpieceweight max. 2000 kg
 Workpieceweight max. 100 kg
 Workpieceweight max. 1500 kg
 Inclusive optical camera sensor
 Mobile measuring arm, working range 1,8 m
 Mobile material analyser (röntgen)

CLEANROOM

ISO class 5 assembly space

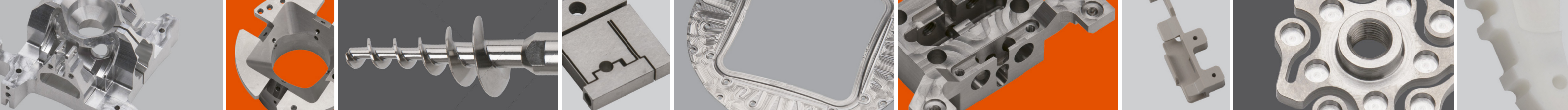
Machinelijst
Machinelist
 Maschinenliste



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CNC MACHINING CENTRE 5 AXIS

Brand	Type	Max range			Max spindle min-1	Pallet system	Technicalities
		X	Y	Z			
Hermle	C-20-U	600	450	450	40000		Magazine for 30 tools, rapid feed 45m/min
Hermle	C-22-U	450	600	330	18000		4th and 5th axis build in table, rapid feed 50 m/min
Hermle	C-22-UP	450	600	330	18000	24 pallets	4th and 5th axis build in table, rapid feed 50 m/min pallet changing, magazine for 143 tools
Hermle	C-22-UP	450	600	330	25000	18 pallets	4th and 5th axis build in table, rapid feed 50 m/min pallet changing, magazine for 247 tools
Hermle	C-22-UP	450	600	330	25000	39 pallets	4th and 5th axis build in table, rapid feed 50 m/min pallet changing, magazine for 247 tools
Hermle	C-22-UP	450	600	330	30000	18 pallets	4th and 5th axis build in table, rapid feed 50 m/min pallet changing, magazine for 143 tools
Hermle	C-30-U	650	600	500	18000		4th and 5th axis build in table
Hermle	C-30-UP	600	600	500	16000	7 pallets	Magazine for 120 tools, rapid feed 45m/min pallet changing
Hermle	C-30-UP	600	600	500	16000	55 pallets	Linked to robotcel, rapid feed 45 m/min
Hermle	C-30-UP	600	600	500	16000	55 pallets	Linked to robotcel, rapid feed 45 m/min
Hermle	C-42-UP	800	800	550	18000	5 pallets	Magazine for 129 tools, rapid feed 60 m/min pallet changing
Hermle	C-50-U	1000	1100	750	18000		Magazine for 101 tools, rapid feed 60 m/min
Hermle	C-50-U	1000	1100	750	18000	3 pallets	Magazine for 101 tools, rapid feed 60 m/min pallet changing
Hermle	C-62-UP	1200	1300	900	18000	5 pallets	Magazine for 205 tools, rapid feed 50 m/min pallet changing, maximum workpiece weight 2500 kg

CNC MACHINING CENTRE 3 AXIS

Brand	Type	Max range			Max spindle min-1	Technicalities
		X	Y	Z		
Hermle	C-20-V	600	450	450	18000	Rapid feed 45 m/min
Hermle	C-30-V	650	600	500	18000	Rapid feed 45 m/min
Hermle	C-40-V	850	700	500	18000	Rapid feed 45 m/min

CNC MILLING

Brand	Type	Max range			Max spindle min-1	Technicalities
		X	Y	Z		
Fehlmann	Picomax 54	500	250	160	8000	
Hermle	UWF-1001-H	700	550	550	4200	Rapid feed 10 m/min
Hermle	U-1000-S	1245	630	550	7000	Rapid feed 20 m/min, 4th axis

CNC TURNING

Brand	Type	Max machining diameter in mm	Spindle bore in mm	Technicalities
Mazak	Nexus 250	380	77	
Mazak	Nexus 100	380	51	
Mazak	Nexus 100	380	51	ø40 bar feeder, rotary tools ø40 bar feeder, rotary tools
Mazak	QT-8	42	30	
Weiler	E-40	435	66	
Weiler	E-55	570	83	Teach in, 1000 mm between centre
Weiler	E-70	700	105	Teach in, 1000 mm between centre Teach in, 2000 mm between centre

TURNING

Brand	Type	Max machining diameter in mm	Spindle bore in mm	Technicalities
Graziano	SAG-12	150	40	

EDM WIRE EROSION

Brand	Type	Max range in mm			Technicalities
		X	Y	Z	
Charmilles	Robofil 510	700	400	400	Cutting height max 400 mm Twinwire, Ra<0,1 Underwaterbath, taper expert, 45° erosion Max workpiece 1200x700x400 (1500 kg)
Charmilles	FL-6050-TW	630	400	160	
Charmilles	Robofil 440	550	350	400	
Charmilles	Cut 300 SP	550	350	400	4th axis
Charmilles	Cut 300 SP	550	350	400	4th axis

EDM DIE SPARK EROSION

Brand	Type	Max range in mm			Technicalities
		X	Y	Z	
Charmilles	Roboform 40	1200	800	400	64 Amp + changer 128 Amp + changer 30 pallets + 180 tools
Charmilles	Roboform 2400	320	220	320	

EDM HOLE EROSION

Brand	Type	Max range in mm			Technicalities
		X	Y	Z	
Charmilles	HD-8-EC	350	250	300	Holes ø0,2-6,0 mm - 250 mm deep