

EMAG Production Machine Overview

Manufacturing Capabilities

Location: Zerbst



Location: Heubach





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Portal milling machine

MultiTec Waldrich Coburg

Location: Zerst

TECHNICAL SPECIFICATIONS

Performance	kW hp	45 60
RPM range	1/min	4,000
Number of tables		2
Table size	mm in	3,000 x 4,000 118 x 157
Table size (coupled)	mm in	3,000 x 9,000 118 x 354
Load capacity	kg lbs	20,000 44,092

TECHNICAL SPECIFICATIONS

Rotary Table

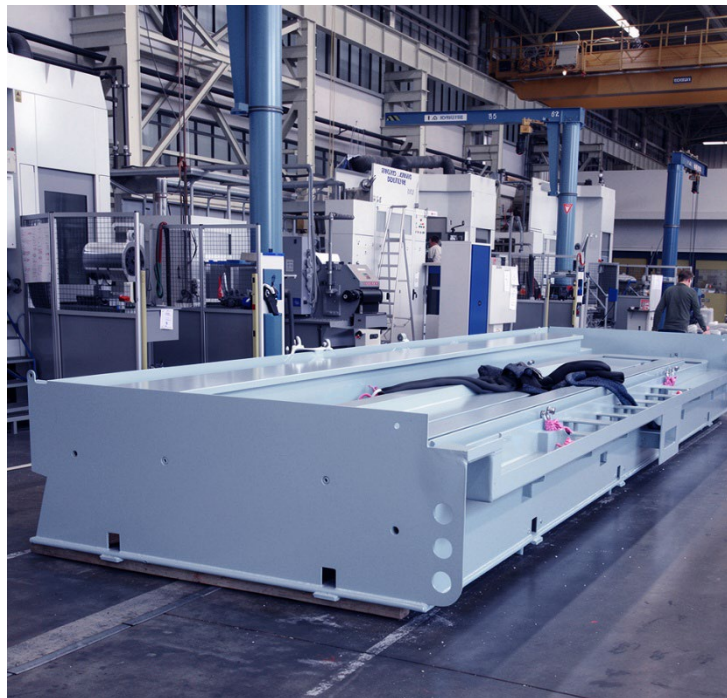
» diameter	mm in	3,000 118
» Power	kW in	63 84
» Max. motor speed	1/min	200
» Max. torque	Nm ft-lb	12,500 9,219
» Max. holding torque	Nm ft-lb	40,000 29,502
» Clearance height Z	mm in	4,000 157
» Clearance width Y	mm in	3,500 138
» x-axis travel (coupled)	mm in	4,500 (10,000) 177 (394)



Portal Milling Machine

MultiTec Waldrich Coburg, Machining Example

Location: Zerst



Machine base HG

» Dimensions:
2,770 x 1,044 x 11,750 mm



PRODUCTION

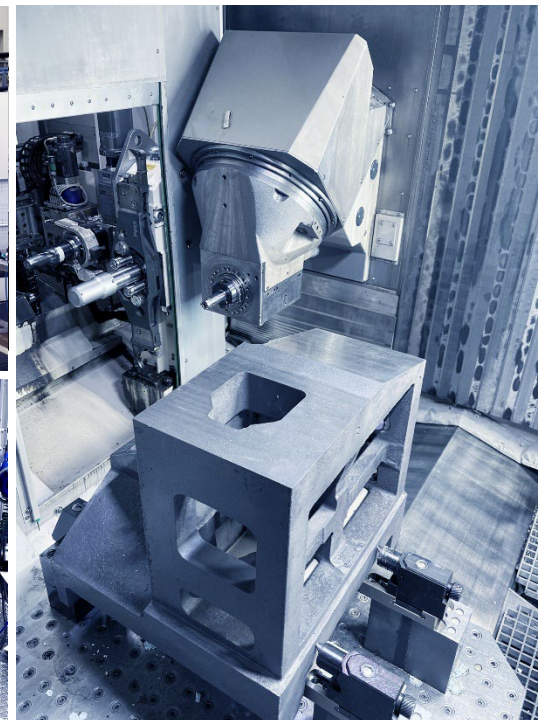
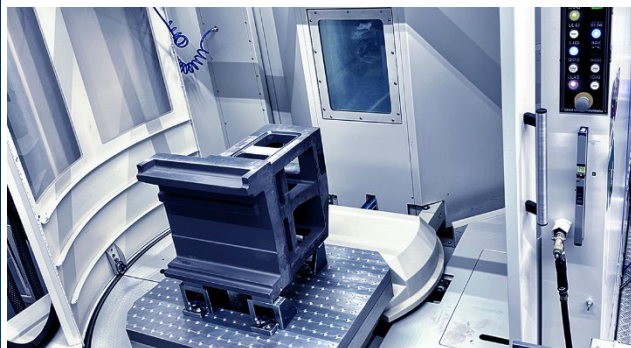
Machining Center

HELLER MCH 450-C

Location: Zerst

TECHNICAL SPECIFICATIONS

Performance	kW	43
	hp	58
RPM range	1/min	45 – 6,000
Max. torque	Nm	822
	ft-lb	606
Number of pallet spaces		2
Pallet size	mm	800 x 1000
	in	31 x 39
Clearance in the work area (D x H)	mm	1,890 x 1,450
	in	74 x 57
Max. workpiece weight	kg	2,500
	lbs	5,511
x-axis travel	mm	1,600
	in	63
y-axis travel	mm	1,200
	in	47
z-axis travel	mm	1,700
	in	67



Machining Center

Burkhardt and Weber MCX 750 HV

Location: Zerst

TECHNICAL SPECIFICATIONS

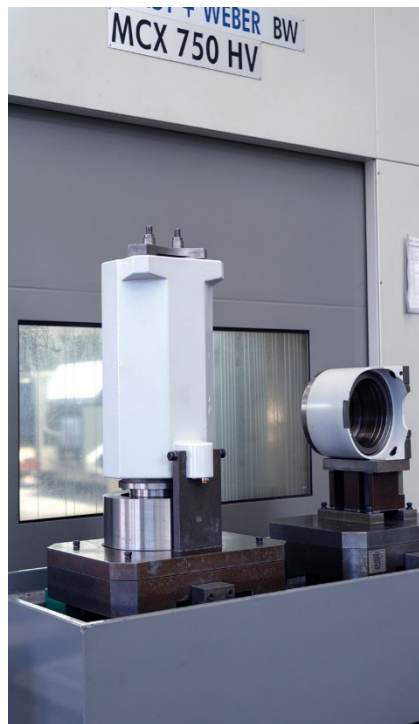
Performance	kW	37
	hp	50
RPM range	1/min	20 – 6,000
Max. torque	Nm	1,410 – 1,910
	ft-lb	1,040 – 1,409
Number of pallet spaces		3
Table size	mm	630 x 800
	in	25 x 31
Interference zone in the work area	mm	1,400
	in	55
x-axis travel	mm	1,100
	in	43
y-axis travel	mm	900
	in	35
z-axis travel	mm	1,250
	in	49



Machining Center

Burkhardt and Weber MCX 750 HV, Machining Examples

Location: Zerbst



Spindle head VSC 400

» Dimensions:
506 x 560 x 597 mm



Thrust Bearing – Base Body

» Dimensions:
284 x 195 x 409 mm

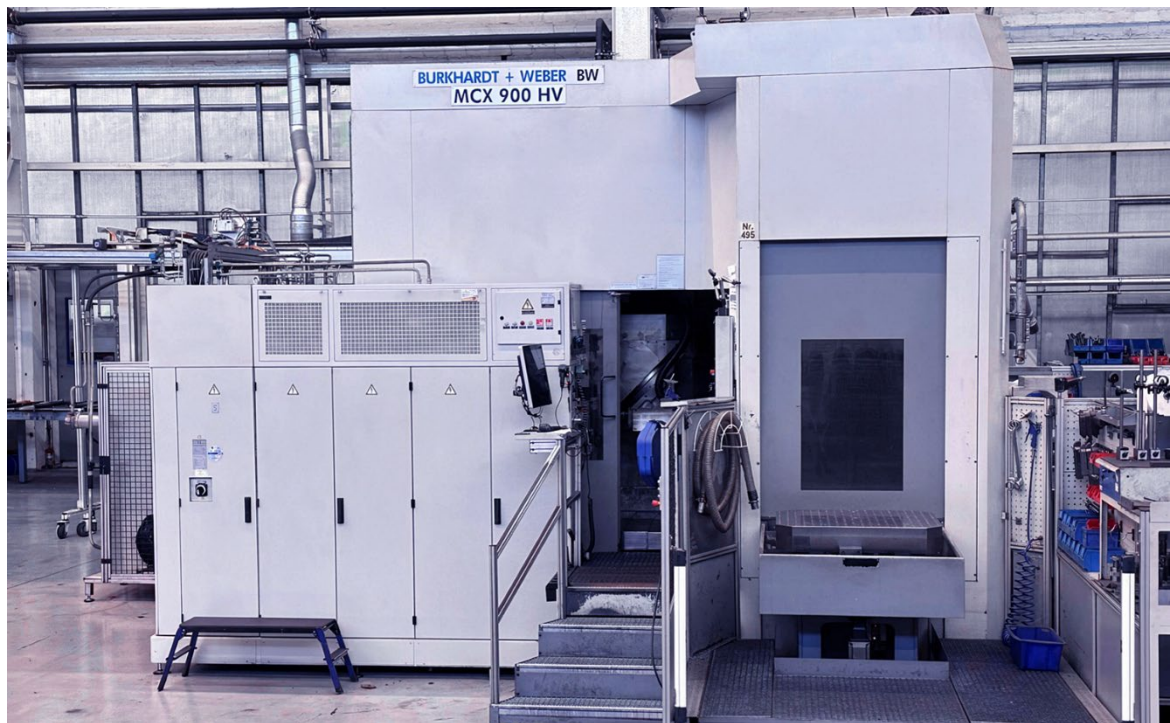
Machining Center

Burkhardt and Weber MCX 900 HV

Location: Zerst

TECHNICAL SPECIFICATIONS

Performance	kW	37
	hp	50
RPM range	1/min	20 – 6,000
Max. torque	Nm	1,410 – 1,910
	ft-lb	1,040 – 1,409
Number of pallet spaces		3
Table size	mm	800 x 1,000
	in	31 x 39
Interference zone in the work area	mm	1,700
	in	67
x-axis travel	mm	1,600
	in	63
y-axis travel	mm	1,400
	in	55
z-axis travel	mm	1,500
	in	59



Machining Center

Burkhardt and Weber MCX 900 HV, Machining Examples

Location: Zerst



VSC 400 DUO Bed Slide

- » Dimensions:
700 x 720 x 940 mm



USC 31 Cross Slide

- » Dimensions:
650 x 600 x 225 mm

Machining Center

Burkhardt and Weber MCX 1200 HV

Location: Zerst

TECHNICAL SPECIFICATIONS

Performance	kW	37
	hp	50
RPM range	1/min	20 – 6,000
Max. torque	Nm	1,410 – 1,910
	ft-lb	1,040 – 1,409
Number of pallet spaces		3
Table size	mm	1,400 x 1,600
	in	55 x 63
Interference zone in the work area	mm	2,800
	in	110
x-axis travel	mm	2,800
	in	110
y-axis travel	mm	1,800
	in	71
z-axis travel	mm	1,800
	in	71



Machining Center

Burkhardt and Weber MCX 1000 HVP

Location: Zerst

TECHNICAL SPECIFICATIONS

Performance	kW	41
	hp	55
RPM range	1/min	20 – 8,000
Max. torque	Nm	1,400 – 2,000
	ft-lb	1.032 – 1.475
Number of pallet spaces		2
Table size	mm	1,000 x 1,250
	in	39 x 49
Interference zone in the work area (D x H)	mm	2,300 x 1,900
	in	90 x 75
x-axis travel	mm	2,200
	in	87
y-axis travel	mm	1,400
	in	55
z-axis travel	mm	1,800
	in	71



Machining center

DIXI 410 TPA (in climate-controlled room)

Location: Zerst

TECHNICAL SPECIFICATIONS

Performance	kW	48
	hp	64
RPM range	1/min	8 – 2,000
Table size	mm	1,250 x 1,000
	in	49 x 39
Table load capacity	kg	500
	lbs	1,764
Control		S 840D
Number of pallet spaces		2
x-axis travel	mm	1,400
	in	55
y-axis travel	mm	1,200
	in	47
z-axis travel	mm	1,000
	in	39



Machining Center

Union TC 110/1 CNC 840D sl

Location: Zerbst

TECHNICAL SPECIFICATIONS

Performance	kW	30
	hp	40
Max. motor speed	1/min	3,000
torque	Nm	1,490
	ft-lb	1,099
Table size	mm	1,250 x 1,600
	in	49 x 63
Table load capacity	kg	6,000
	lbs	13,228
Number of pallet spaces		1
x-axis travel	mm	2,000
	in	79
y-axis travel	mm	1,600
	in	63
z-axis travel	mm	1,500
	in	59



3-axis machining center

Hermle C800

Location: Zerst

TECHNICAL SPECIFICATIONS

Control System	Heidenhain TNC426	
Year of Manufacture	1997	
X-axis travel range	mm in	800 31
Y-axis travel range	mm in	600 24
Z-axis travel range	mm in	500 20
Spindle	1/min	SK40 with 8,000 / IKZ
workpiece weight	kg lbs	500 1.102
Table	mm in	1,000 x 560 39 x 22





PRODUCTION

Location: Zerst

5-axis machining center

HERMLE C30 U

TECHNICAL SPECIFICATIONS

Performance	kW	32
	hp	43
RPM range	1/min	10,000
torque	Nm	200
	ft-lb	147
Table size	mm	540 x 540
	in	21 x 21
Max. table load	kg	1,000
	lbs	2,204
Tabletop interference circle	mm	dm 630
	in	25
Control		S 840D
Magazine slots		157
x-axis travel	mm	650
	in	25
y-axis travel	mm	600
	in	24
z-axis travel	mm	500
	in	20



5-axis machining center

DMG CMX 70U

Location: Zerst

TECHNICAL SPECIFICATIONS

Performance	kW	20
	hp	27
RPM range	1/min	15,000
torque	Nm	121
	ft-lb	89
Magazine capacity		60
Max. component size	mm	300 x 300
	in	12 x 12
Max. component weight	kg	150
	lbs	330
Control		S 840Dsl
x-axis travel	mm	750
	in	30
y-axis travel	mm	600
	in	24
z-axis travel	mm	520
	in	21
Automation		10 pallets with NPS



5-axis machining center

Hermle C50

Location: Heubach

TECHNICAL SPECIFICATIONS

Control System	Heidenhain iTNC 530	
Year of Manufacture	2013	
X-axis travel range	mm in	1,100 43
Y-axis travel range	mm in	1,100 43
Z-axis travel range	mm in	750 30
A and C-axis spindle	1/min	12,000 rpm / IKZ
workpiece weight	kg lbs	2,000 4.409
Table	mm in	Ø 1,000 Zero-point system Ø 39



5-axis machining center

Maho DMU 80 P lids (3 machines)

Location: Heubach

TECHNICAL SPECIFICATIONS

Control System	Heidenhain iTNC 530	
Year of manufacture	2004	
X-axis travel range	mm in	800 31
Y-axis travel range	mm in	700 27
Z-axis travel range	mm in	600 24
B and C-axis spindle	1/min	12,000 rpm / IKZ
Max. table load	kg lbs	800 1,764
Clamping surface	mm in	Ø 900 x 630 Ø 35 x 25



5-Axis Machining Center

Maho DMU 80 T Lid

Location: Heubach

TECHNICAL SPECIFICATIONS

Control System	Heidenhain iTNC 530	
Year of Manufacture	2002	
X-axis travel range	mm in	800 31
Y-axis travel range	mm in	700 27
Z-axis travel range	mm in	600 24
B and C-axis spindle	1/min	12,000 rpm / IKZ
Max. table load	kg lbs	700 1.543
Clamping surface	mm in	Ø 700 Ø 27



5-Axis Machining Center

Hermle C22

Location: Heubach

TECHNICAL SPECIFICATIONS

Control System	Siemens 840D	
Year of manufacture	2015	
x-axis travel	mm in	450 18
Y-axis travel range	mm in	600 24
Z-axis travel range	mm in	330 13
A and C-axis spindle	1/min	18,000
Max. table load	kg lbs	150 330



5-Axis Machining Center

Röders RXP 601DS

Location: Heubach

TECHNICAL SPECIFICATIONS

Control System		Röders RMS6
Year of Manufacture		2018
x-axis travel	mm in	520 20
Y-axis travel range	mm in	635 25
Z-axis travel range	mm in	400 16
B and C-axis spindle	1/min	42,000
Max. table load	kg lbs	100 220
Internal temperature control		± 0.1 K
Simultaneous five-axis machining		



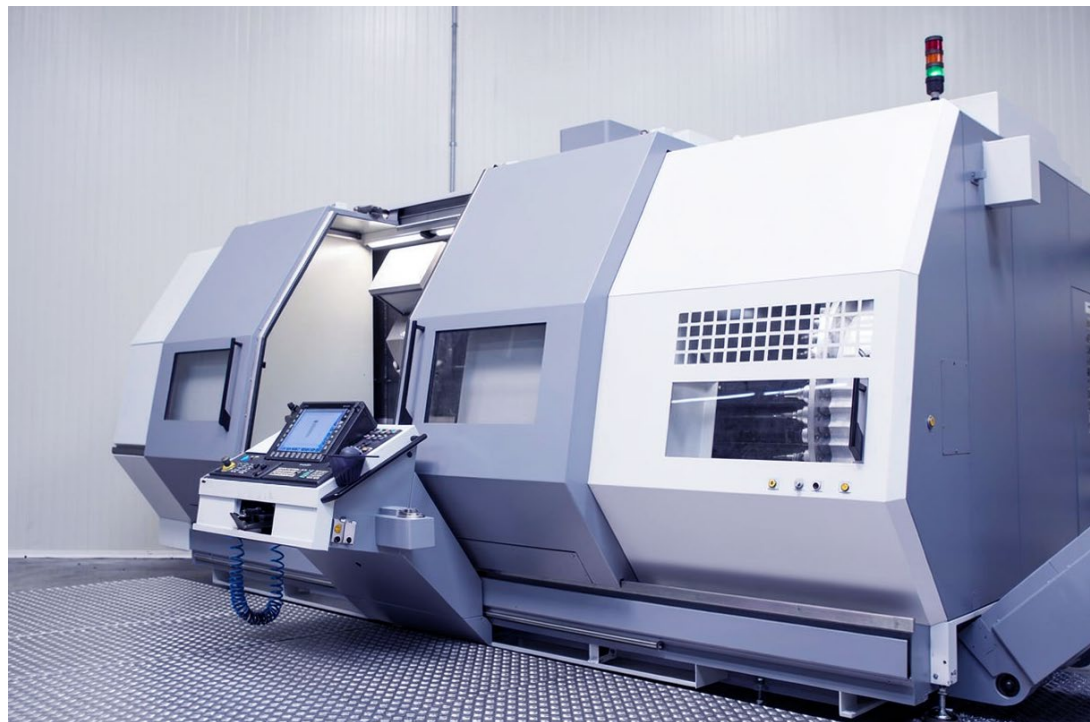
Turning and Milling Center

WFL M50 Mill-Turn

Location: Zerst

TECHNICAL SPECIFICATIONS

Workpiece Spindle Power	kW	37
	hp	50
Max. motor speed	1/min	3,300
torque	Nm	1,400
	ft-lb	1,032
Power of milling unit (HSK-A63)	kW	15
	hp	20
Max. motor speed	1/min	0 – 6,000
torque	Nm	165
	ft-lb	122
Center-to-center distance	mm	2,000
	in	79
chuck dia.	mm	325
	in	13
x-axis travel	mm	800
	in	31
y-axis travel	mm	400 [-175/+225]
	in	16 [-7/+9]
z-axis travel	mm	2,050
	in	81



Turning and Milling Center

WFL M80 Mill-Turn

Location: Zerst

TECHNICAL SPECIFICATIONS

Workpiece Spindle Power	kW	40
	hp	54
Max. motor speed	1/min	2,400
torque	Nm	2,440
	ft-lb	1,800
Power of milling unit (HSK-A100)	kW	45
	hp	60
Max. motor speed	1/min	4,000
torque	Nm	500
	ft-lb	369
Center-to-center distance	mm	3,000
	in	118
Chuck diameter	mm	400/630
	in	16/25
x-axis travel	mm	900
	in	35
y-axis travel	mm	650
	in	25
z-axis travel	mm	3,300
	in	130



Turning and Milling Center

WFL M50x3000 Mill-Turn

Location: Zerst

TECHNICAL SPECIFICATIONS

Workpiece Spindle Power	kW	60
	hp	80
Max. motor speed	1/min	2,600
torque	Nm	2,740
	ft-lb	2,021
Power of milling unit (HSK-A100)	kW	35
	hp	47
Max. motor speed	1/min	0 – 6,000
torque	Nm	420
	ft-lb	310
Center-to-center distance	mm	3,000
	in	118
Chuck diameter	mm	325
	in	13
x-axis travel	mm	800
	in	31
y-axis travel	mm	400 [-175/+225]
	in	16 [-7/+9]
z-axis travel	mm	3,070
	in	121



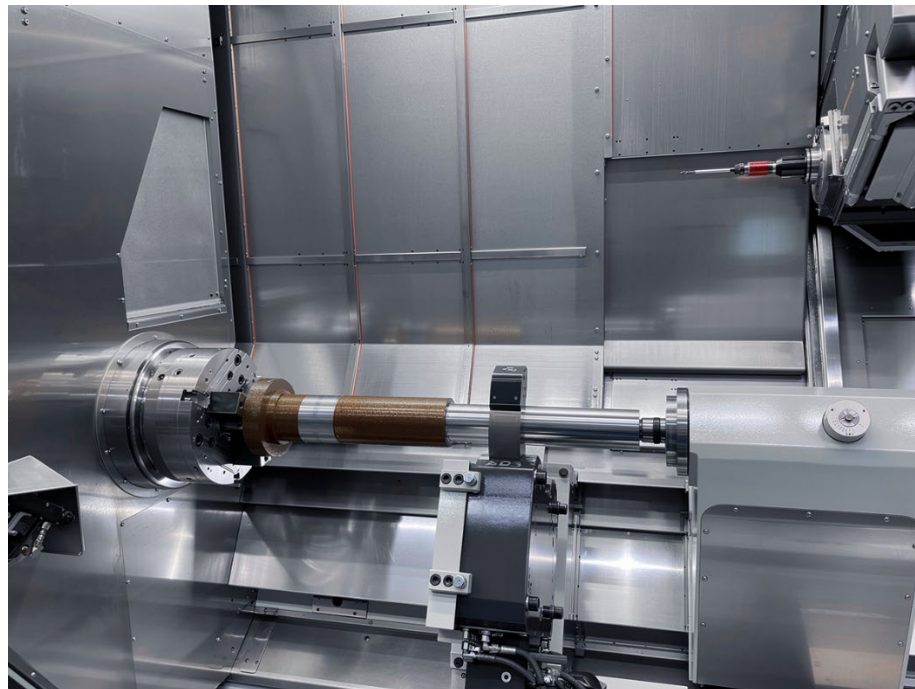


PRODUCTION

Turning and Milling Center

WFL M50x3000 Millturn

Location: Zerst



Main spindle size 8

» Dimensions:
215 mm x 1076 mm



PRODUCTION

Turning and Milling Center

EMAG VMC 300 MT

Location: Zerbst

TECHNICAL SPECIFICATIONS

Max. workpiece spindle power	kW	54
	hp	72
Max. motor speed	1/min	3,000
Max. torque	Nm	650
	ft-lb	479
Milling spindle power	kW	24
	hp	32
Max. motor speed	1/min	7,000
Max. torque	Nm	195
	ft-lb	144
tool receptors	HSK-A63	
chuck dia.	mm	400
	in	16
Spindle height without chuck	mm	970
	in	38
Max. workpiece weight	kg	300
	lb	661
x-axis travel	mm	330
	in	13
y-axis travel	mm	500
	in	20



Turning and Milling Center

DMG CLX 450

Location: Heubach

TECHNICAL SPECIFICATIONS

Control System	Siemens 840D	
Year of Manufacture	2023	
Main Spindle	mm	250
	in	10
Counter spindle	mm	200
	in	8
Turning length	mm	800
	in	31
Y-axis travel range	mm	120
	in	5
Milling spindle	1/min	HSK 63 / 12,000



Precision lathe with automatic cycle control

WEILER E120x3000

Location: Zerst

TECHNICAL SPECIFICATIONS

Power (60%/100% duty cycle)	kW in	45/37 60/50
Speed range	1/min	1–900
Max. torque	Nm ft-lb	8,000 5,900
Diameter – Spindle Bore	mm in	165 6
Center distance	mm in	3,000 118
Tip height	mm in	600 24
Swing dia. over bed	mm in	1,200 47
Swing dia. over faceplate	mm in	830 33
Travel distance – cross slide	mm in	590 23
Travel distance – Upper support	mm in	250 10

TECHNICAL SPECIFICATIONS

Drilling and Milling Unit	BF55 – SK40	
Power (60% duty cycle)	kW in	10 13
Speed range	1/min	1 – 3,000
torque	Nm ft-lb	100 74
Angle head	°	90
Collet with stop block	mm in	2 – 20 0.08 – 0.8
Parat 4-position turret	Size 4	
Max. turning tool cross-section	mm in	40 x 40 1.6 x 1.6
Max. workpiece weight	kg lb	5,000 11,023



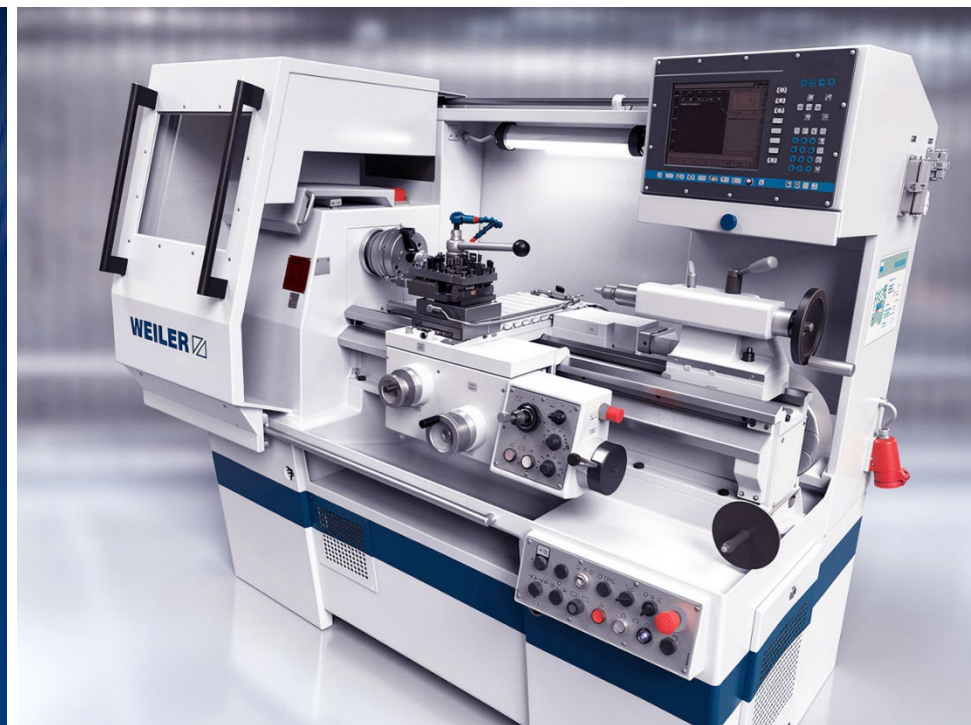
Lathe

Weiler E30

Location: Heubach

TECHNICAL SPECIFICATIONS

Control System	Weiler D2	
Year of Manufacture	2002	
Swing dia. over bed	mm	330
	in	13
Turning length	mm	770
	in	30
chuck dia.	mm	Ø 200 + collet
	in	Ø 8 + collet



Lathe

Boehringer DUS 560

Location: Heubach

TECHNICAL SPECIFICATIONS

Control System		Sinumerik 810
Year of Manufacture		1999
Swing dia. over bed	mm in	570 22
Turning length	mm in	2,000 79
chuck dia.	mm in	Ø 315 Ø 12



Lathe

Mori Seiki NL 2500 SY

Location: Heubach

TECHNICAL SPECIFICATIONS

Control System	Mitsubishi Mapps 4	
Year of Manufacture	2009	
Swing dia. over bed	mm	356
	in	14
Turning length	mm	750
	in	30
chuck dia.	mm	Ø 250 / Ø 200
	in	Ø 10 / Ø 8
Y-axis travel range	mm	+/- 50
	in	± 2



Surface Grinder

ELB-GRINDING SWP 320/150

Location: Zerst

TECHNICAL SPECIFICATIONS

Grinding Length	mm	3,200
	in	126
Grinding width	mm	1,500
	in	59
Passage width	mm	2,000
	in	79
Grinding height	mm	850
	in	33
Table load capacity	kg	4,000
	lbs	8,818
Grinding spindle drive	kW	22
	hp	29
Grinding spindle speed	1/min	1,000–3,000
Grinding wheel dimensions	mm	500 x 100 x 203.2
	in	20 x 4 x 8

TECHNICAL SPECIFICATIONS

Additional grinding device	kW	9
	in	12
Grinding spindle speed	1/min	1,000–3,000
Swivel range (motor-driven)	°	± 60
Electric permanent magnet plate		
Clamping surface	mm	1,200 x 600
	in	47 x 24
Clamping force		adjustable
Adjustment range		30–100%



Surface Grinder

SWN 6-ND

Location: Heubach

TECHNICAL SPECIFICATIONS

Year of manufacture		1982
Max. grinding length	mm in	500 20
Grinding width	mm in	300 12
Working height	mm in	300 12
Magnetic plate	mm in	500 x 300 20 x 12





PRODUCTION

Cylindrical Grinding Machine

Schaudt Flex Grind M 2000

Location: Zerst

TECHNICAL SPECIFICATIONS

Workpiece Spindle Power	kW	30
	hp	40
B-axis	2x external grinding spindles	
Grinding length	mm	2,000
	in	79
Tip height	mm	260/310
	in	10/12
Grinding wheel diameter	mm	600/750
	in	24/30
Grinding Disc Width	mm	120/200
	in	5/8
Max. workpiece weight	kg	1,200
	lb	2,645



Cylindrical Grinding Machine

EMAG RB 320

Location: Zerst

TECHNICAL SPECIFICATIONS

Workpiece Passage	mm	410
	in	16
Grindable diameter	mm	700
	in	27
Center-to-center distance	mm	2,000
	in	79
workpiece weight (center-to-center)	kg	3,000
	lb	6.614
x-axis travel	mm	400
	in	16
z-axis travel	mm	2,700
	in	106
Swivel range of the B-axis	°	0 – 270
External grinding spindle	kW	50
	hp	67
Internal grinding spindle	kW	14
	hp	19



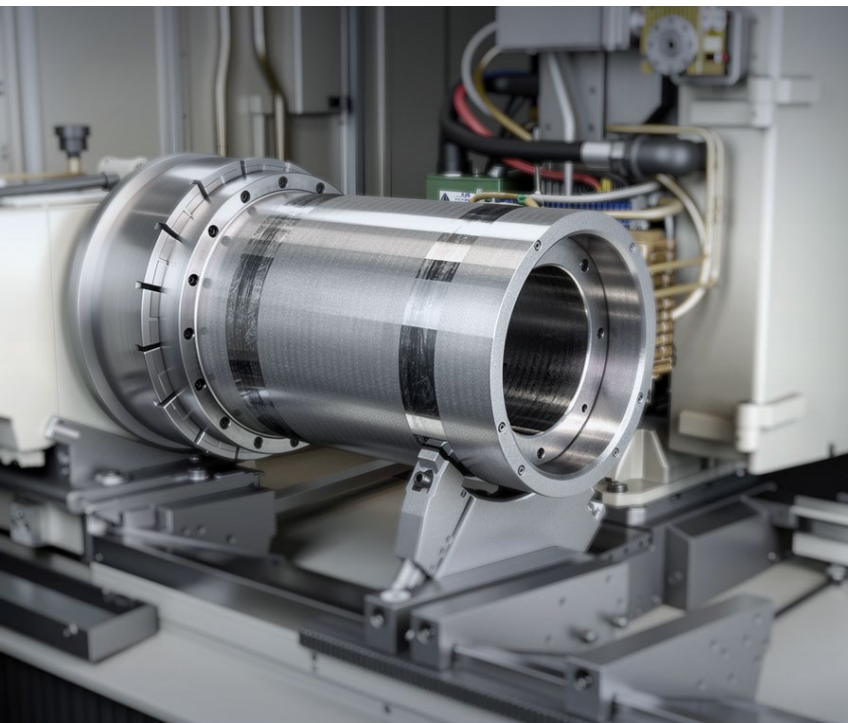


PRODUCTION

EMAG RB 320

Machining Examples

Location: Zerst



VSC 500 Flange Socket

- » Dimensions:
Dm 460 mm x 168 mm x 636 mm

Cylindrical Grinding Machine

Kellenberger Kel Varia

Location: Heubach

TECHNICAL SPECIFICATIONS

Control System	Heidenhain iTNC 530	
Year of manufacture	2016	
2 internal grinding spindles	1/min	up to 90,000
2 external grinding spindles		
Grinding diameter	mm in	500 20
Grinding length	mm in	max. 1,500 max. 59
Workpiece weight up to	kg lbs	approx. 250 approx. 551



Cylindrical Grinding Machine

Kellenberger Kel VIVA

Location: Zerst

TECHNICAL SPECIFICATIONS

Control System	Heidenhain iTNC 530	
Year of manufacture	2008	
Spindle speed	1/min	up to 42,000
Internal grinding spindles	units	1
External grinding spindles	pieces	2
Grinding diameter	mm in	approx. 250 approx. 10
Grinding length	mm in	max. 1,000 max. 39
Workpiece weight up to	kg lbs	approx. 100 approx. 220



Cylindrical Grinding Machine

RI8 Sweeper

Location: Heubach

TECHNICAL SPECIFICATIONS

Control System		Siemens 840 D
Year of manufacture		2012
Rotary table diameter	mm in	800 31
Grinding spindles		4x
Workpiece rotation diameter	mm in	1,250 49
Table load capacity max.	kg lbs	2,000 4,409
Z-axis travel range	mm in	850 33
X-axis travel range	mm in	1,700 67
C-axis for linear machining		



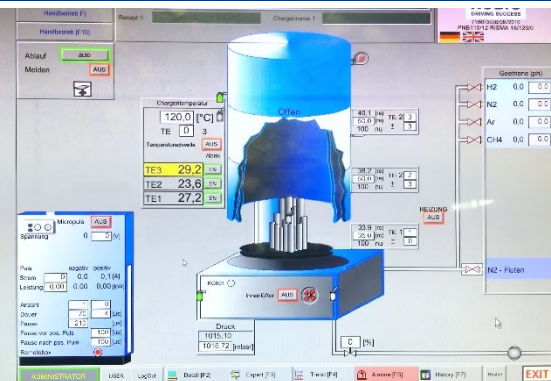
Plasma nitriding system

Rübig EV100/180

Location: Zerst

TECHNICAL SPECIFICATIONS

Batch size (D x H) max.	mm	1,000 x 1,800
	in	39 x 71
Max. batch weight	kg	500
	lb	1.102



Drilling machine for machining mounting plates and compact or large control cabinets

Rittal Perforex BC 2014 HS

Location: Zerst

TECHNICAL SPECIFICATIONS

Clampable Flat Parts (W x H)	mm	3,600 x 2,300
	in	142 x 90
Max. machinable area for flat parts (W x H)	mm	3,400 x 2,300
	in	134 x 90
Clampable cubes (W x H x D)	mm	1,400 x 2,300 x 2,200
	in	55 x 90 x 87
Max. machinable area for cubes (W x H)	mm	1,400 x 2,300
	in	55 x 90
Max. drilling depth	mm	6
	in	0.24
Max. clearance height	mm	78
	in	3
Interfaces	Eplan	



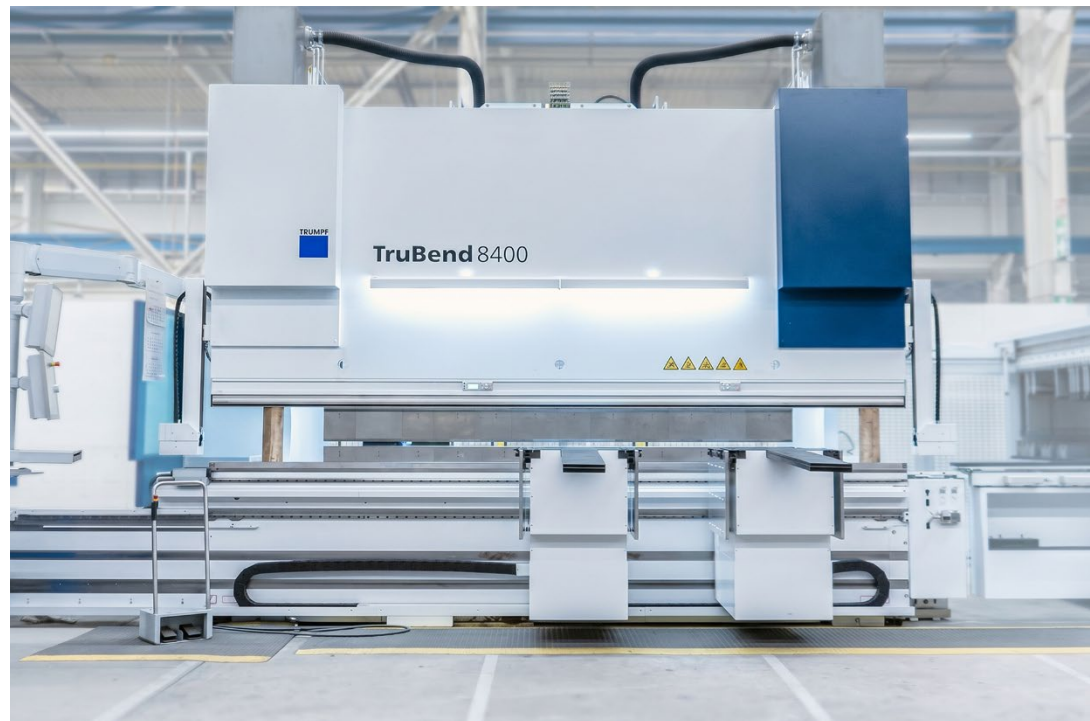
Press brake

Trumpf TruBend 8400

Location: Zerst

TECHNICAL SPECIFICATIONS

Compressive force	kN	4,000
Bending length	mm in	4,420 174
Sheet thicknesses	mm in	1-14 0.04 - 0.55
Clear stand opening	mm in	3,680 145
Usable installation height	mm in	880 35
Projection	mm in	620 24
Y-axis stroke	mm in	700 27
X-axis travel range	mm in	1,010 40
Optical angle measurement system	°	+/-0.3 Accuracy



Press Brake (3x)

Trumpf TruBend 5170

Location: Zerst

TECHNICAL SPECIFICATIONS

Compressive force	kN	1,700
Bending length	mm in	3,230 127
Sheet thicknesses	mm in	1-8 0.04 - 0.31
Clear stand opening	mm in	2,690 106
Usable installation height	mm in	615 24
Projection	mm in	420 16
Y-axis stroke	mm in	445 17
X-axis travel range	mm in	600 24



Laser cutting

Trumpf TruLaser 3030 & 3040

Location: Zerbst

TECHNICAL SPECIFICATIONS

X/Y-Axis Capacity (3030)	mm	3,000 x 1,500
	in	118 x 59

X/Y-axis capacity (3040)	mm	4,000 x 2,000
	in	157 x 79

Sheet thicknesses	mm	1-25
	in	0.04 - 0.98

Materials	Brass, copper,	
	steel, V2A,	
	galvanized	
	sheet metal	



Welding stations up to 5 metric tons

Location: Zerst





PRODUCTION

Quality Assurance

Coordinate Measurement Technology

Shorter product cycles, increasingly complex manufacturing methods, and ever-rising quality standards. All of this demands greater flexibility, specialized metrology expertise, continuously updated metrology equipment, and qualified technical staff. Our qualified metrology team draws on many years of experience in the field of tactile coordinate measurement technology.

About Us:

- » **EMAG Production** offers its customers sophisticated metrology services.
We are [certified to DIN EN ISO 9001:2015](#).
- » In our [climate-controlled measurement room](#), we measure everything from the smallest prototypes (e.g., wheel hubs and shafts) to large and heavy steel and cast iron components (e.g., gear components, slides for machine tools).
- » [Workpiece dimensions of up to 3 m x 1.2 m x 1 m](#) and a maximum total weight of up to 5 metric tons are permitted.
- » Of course, measurement tasks involving comparisons to 2D drawings or CAD data models are part of our measurement technicians' core expertise.
- » We use [CALYPSO](#) and [UMESS](#) for our measurements and offer contract measurement services at competitive prices.

Quality Assurance

Coordinate Measurement Technology

Location: Zerst

TECHNICAL SPECIFICATIONS		ACCURA 12/30/10	ACCURA II 12/24/10	ACCURA II 12/30/10
Measurement range:				
» X	mm	1,200	1,200	900
	in	47	47	35
» Y	mm	3,000	2,400	1,600
	in	118	94	63
» Z	mm	1,000	1,000	800
	in	39	39	31
Max. workpiece weight	kg	5,000	2,500	1,500
	lb	11,023	5,511	3,307
Length deviation according to ISO 10360- 2	μm	MPEE = ±(2 + L/300)	MPEE = ±(2.2 + L/300)	MPEE = ± (2 + L/300)

- » Active scanning with VAST technology from Zeiss
- » Automatic probe changer
- » Very high measurement accuracy on the workpiece



Quality Assurance

Coordinate Measurement Technology

Location: Zerbst

TECHNICAL SPECIFICATIONS:

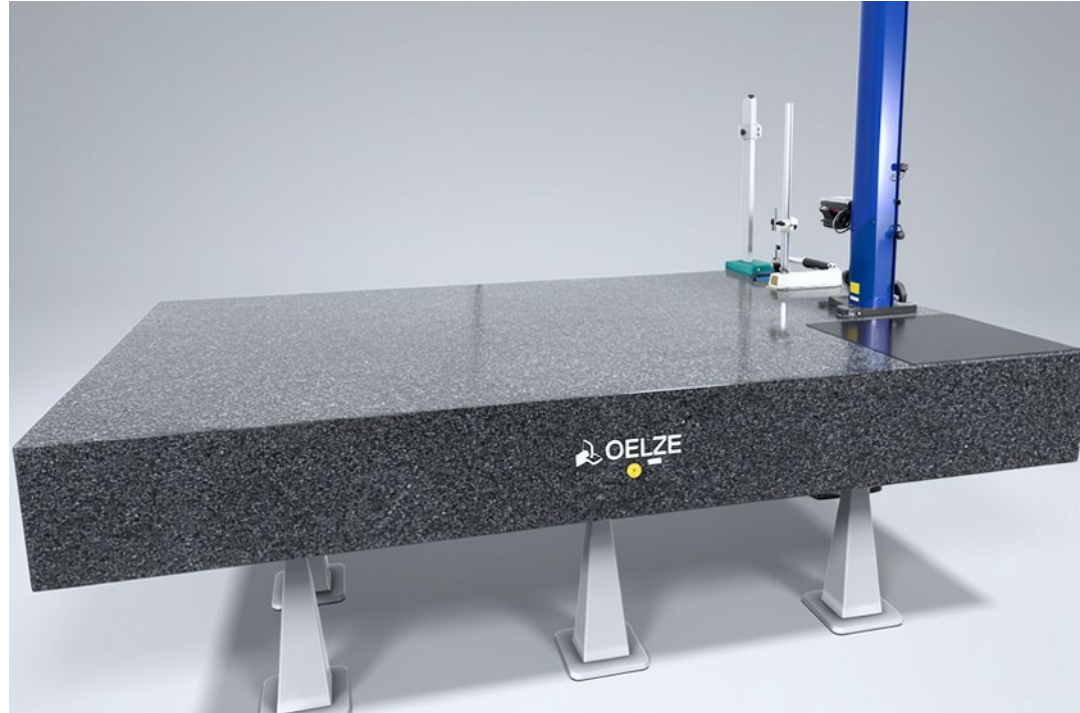
Measuring Range:

X=3,000 mm, Y=2,000 mm, 350 mm thick

- » High-precision hard stone plate from OELZE with grinding of side edges for a wide range of measurement tasks (top surface and angles: 5 μm)
- » Use of a digital height gauge from TRIMOS (measuring range up to 1,500 mm)
- » Flexible, workshop-friendly measurements

ELKOMAT Vario accessory:

Autocollimator for measuring guideways up to 5 m in length.





PRODUCTION

Quality Assurance

Coordinate Measurement Technology

Location: Zerbst

TECHNICAL SPECIFICATIONS		HOMMEL-ETAMIC roundscan 590
Max. measuring height	mm	900
	in	35
Max. test diameter	mm	450
	in	18
Max. workpiece weight	kg	100
	lb	220
Table diameter	mm	330
	in	13
Travel	°	360
Positioning	Automatic	
Roundness deviation (radial)	μm	0.02 μm at table height +
		0.0005 μm/mm measuring height
Roundness deviation (axial)	μm	0.03 μm at the center +
		0.0005 μm/mm radius



Quality Assurance

Zeiss Prismo Coordinate Measuring Machine

Location: Heubach

TECHNICAL SPECIFICATIONS

Control System / Software		Calypso 7.0
Year of Manufacture		2011
X-Axis Measurement Range	mm	900
	in	35
Y-axis measurement range	mm	1,200
	in	47
Z-axis measurement range	mm	700
	in	27
MPEE	μm	±(1.4 + L/333)



Quality Assurance

Zeiss ACCURA Coordinate Measuring Machine

Location: Heubach

TECHNICAL SPECIFICATIONS

Control System / Software		Calypso 7.0
Year of Manufacture		2016
X-Axis Measurement Range	mm	900
	in	35
Y-axis measurement range	mm	1,200
	in	47
Z-axis measurement range	mm	800
	in	31
MPEE	μm	$\pm(1.4 + L/333)$



Quality Assurance

Atos Trible Scan 16M Optical 3D Scanner

Location: Heubach

TECHNICAL SPECIFICATIONS

Control System / Software		ATOS Professional + GOM
Year of Manufacture		2014
Measuring Volume 1	mm	170 x 130 x 100
	in	7 x 5 x 4
Measuring volume 2	mm	320 x 240 x 200
	in	12 x 9 x 8
Accuracy per measurement field	mm	From 0.003





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