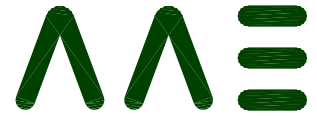


Production machines list AAE



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1. Turning (CNC and conventional)

1 Okuma LU 25M CNC (driven tool)	Ø 400 x 1100
1 Okuma LP 300 M CNC	Ø 310 x 500
1 Okuma LS 30 N CNC (driven tool)	Ø 310 x 520
1 Okuma LB15 M CNC (driven tool)	Ø 310 x 500
1 Hardinge HLV-H	Ø 180 x 375
1 Caseneuve HB 575	Ø 500 x 575
1 Okuma Multus B300W, in planning mid 2007 incl. 60 tool places, equipped with take-over spindle.	Ø 450 x 900

2. Milling (CNC and conventional)

1 Okuma horizontal machining centre MA-400HA incl. 100 tool changing places, equipped with 6-fold pallet loading unit.	560 x 610 x 625
1 Okuma 5 axis milling centre MU-400VA equipped with Erowa easy robot (6 pallet places)	762 x 460 x 460
1 Okuma 5 axis milling centre MU-500VA, in planning begin of 2008 incl. 240 tool changing places, equipped with Erowa ERS robot.	1250 x 660 x 540
1 Okuma MC-4 VAE CNC machining centre	775 x 420 x 450
1 Okuma MC-40 VAHS CNC machining centre equipped with 4th axis	775 x 420 x 450
1 Hermle C1200V machining centre	1200 x 900 x 500
1 Deckel DMC 65V machining centre	650 x 500 x 500
1 Deckel DMC 65V machining centre equipped with 4th axis	650 x 500 x 500
1 Deckel FP2NC D3	300 x 215 x 250
1 Deckel FP4NC D2	560 x 450 x 450
1 Deckel FP4NC D11	500 x 400 x 400
1 Abene VHF 340 TI	700 x 275 x 495
2 Deckel FP1	300 x 150 x 300
1 Aciera F3	300 x 150 x 150
1 Aciera F3V	350 x 150 x 150
1 Abene VHF 300	700 x 275 x 495
CAD / CAM	
- Hypermill (universell)	
- Admac (Okuma)	
Simulation software	
- NC-Simul	



3. Co-ordinate-drilling/milling (CNC and conventional)

1 Fehlmann P18 S CNC	300 x 150 x 400
1 Fehlmann Picomax 54 TNC 310	500 x 250 x 480
1 Fehlmann Picomax 51 TNC	450 x 260 x 450
1 Aciera 22VA	200 x 200

4. Grinding round / flat

1 Studer S40-2	Ø 350 x 650
1 Jung F40	300 x 150
1 Jung F50	400 x 175

5. Honing

1 Sunnen MBB-1660	Ø 1,52 x Ø 60
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6. Engraving

1 Deckel G1L	200 x 500
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7. Measuring room

1 3D Measuring Mitutoyo Euro-C-A7106	1005 x 705 x 605
1 3D Measuring Stiefelmayer	2000 x 1600 x 1800
1 Tesa Microhite height gauge	0 – 650
1 Mitutoyo Linear Height, height gauge	0 – 600
1 Measuring microscope with projection	
3 Heidenhain MT 100m height gauge	0 – 100
1 Trimos Vertical 3 height gauge	0 – 600
1 Trimos Altia	0 – 350
1 Olympus BX-FM-F, light microscope until 1000x enlargement	
1 Olympus SZX-12, stereo microscope until 144x enlargement	

8. Sheet metal

1 Amada CNC lasercutting type Quattro	1260 x 1260 x 100
max. cutting depth 6 mm. steel; max. 3 mm. Stainless; 2 mm Aluminium.	
Rvs < 1,5 mm thickness accuracy	± 0,05mm
Rvs 2 – 4 mm thickness accuracy	± 0,1mm
Staal < 6mm thickness accuracy	± 0,1mm
Aluminium < 2mm Stärke accuracy	± 0,1mm
1 Safan VS205 VAF guillotine shearing machine	2500mm
1 Amada CNC HFE 80 – 25 angle bender (7 shaft – 80 ton)	2500mm
1 Safan UCK 1600 angle bender	1600mm
1 Raskin R-52 M drilling machine	
1 Belt sander	
1 Corner cutting machine	
Welding equipment	MIG, TIG, autogeneous
spotwelding	Electrode welding
Various rolling machines and straightening equipment	



9. Sawing

Eisele sawing machine
Behringer band-saw machine
Bewo sawing machine
Kaltenbach circular blade-saw

10. Miscellaneous

Column drilling machine
Radial drilling machine
Bench drilling machine
CNC thread-cutting machine M2 – M6
Driller grinding machine