

**Manufacturer: ATB Schorch GMBH  
Breite Str. 131  
D-41238 Mönchengladbach**

- **Test equipment – general**
  - **Final inspection – electrical**
    - + test laboratories for electrical/thermal final tests and type tests of electrical machines with a load capacity up to 3600 kW; special tests are possible with higher loads.
    - + Test equipment for noise and vibration measurements
    - + Facilities for testing Ex machines
      - Δ Flameproof enclosure Ex d
      - Δ Pressurised apparatus Ex p
      - Δ Increased safety Ex e
      - Δ Non-sparking Ex n
    - + Facilities for the testing of converter-fed machines
    - + Facilities for the testing of high-speed motors
    - + Calibration of electrical test equipment
  - **Final inspection – mechanical**
    - + FARO-Lasertracker for measuring dimensions, form and position tolerances (Cylindrical form, coaxiality and planeness)
    - + System for measuring form and position tolerances (Cylindrical form and straightness) to DIN ISO 1101 for diameters up to 1200 mm
    - + Calibration of mechanical test equipment
- **Manufacture of large machines (Model Series 5 and larger, trans-standard machines larger than Frame Size 355)**

Machine/equipment	Manufacturer	Work piece	Technical data	
Oxy-acetylene cutting Machine Year of purchasing: 1986 Year of renovation: 2001	ESAB	Heavy plate	Plate size	6000 x 4000 mm
Submerged arc-welding Year of purchasing: 2000	SAF	Spiderweb shafts	max. length max. dia	theoretically no limit theoretically no limit
Punching press Year of purchasing: 1981	Schuler	Blanks	Rated power Max. width of strip	2500 kN 1250 mm
Autom. slot punching press Year of purchasing: 1992	Müller-Weingarten	Stator laminations	Rated power Max. blank diameter	80 kN 720 mm
Autom. slot punching press Year of purchasing: 1985	Müller-Weingarten	Rotor laminations	Rated power Max. blank diameter	80 kN 720 mm
Slot punching machine Year of purchasing: 2003	Müller-Weingarten	Stator and rotor laminations	Rated power Max. blank diameter	200 kN 1300 mm

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Machine/equipment	Manufacturer	Work piece	Technical data
Abrasive blasting Year of purchasing: 2014	Kiess	Welding parts	Dimensions: (L B H) 5000 x 5000 x 4000 mm
Annealing furnace Year of purchasing: 2014	Nabertherm	Welding parts	Max. dimensions: (L B H) 5200 x 1900 x 1900 mm
NC wire eroding machine Year of purchasing: 2013	Mitsubishi Electric Europe B.V.	Punching tools	Dimensions X Y Z 600 x 400 x 310 mm Dimensions U V 150 x 150 mm Max. part dimensions 1050 x 820 x 305 mm Max. part weight 1500 kg
Vertical boring mill Year of purchasing: 1985	Dörries	Frames Endshields	Largest swing diameter 2800 mm Boring depth in one go 1350 mm Faceplate diameter 2500 mm
Single-column turret lathe Year of purchasing: 1973 Year of renovation: 2002	Schiess	Endshields	Largest swing diameter 2000 mm Faceplate diameter 2500 mm Max. load on table 12 t
Column turret lathe Year of purchasing: 1998	TOS	Frames Endshields	Largest swing diameter 1640 mm Table size 1200 mm Max. load on table 12 t
Centre lathe Year of purchasing: 1973 Year of renovation: 2000	Ravensburg	Shafts Rotors	Max. dia over bed 1650 mm Max. dia over cross slide 1280 mm Distance between centres 5000 mm Max. mass of work piece 25 t
Centre lathe Year of purchasing: 2000	Boehring	Shafts Rotors	Max. swing dia above bed 1100 mm Max. machining length 5000 mm Faceplate dia 820 mm Max. load between centres 5.0 t Max. load with steady rest 6.3 t
Centre lathe Year of purchasing: 1982	Wohlenberg	Shafts	Machining length 3810 mm Clamping length 4025 mm Max. swing dia above bed 1070 mm Max. load 13 t
Cylindrical grinding machine Year of purchasing: 1970	Naxos	Shafts	Max. grinding dia 630 mm Max. grinding length 4000 mm Max. load 2.5 t
Boring and milling centre Year of purchasing: 1988	Norte	diverse	Travels: X axis 2000 mm Y axis 650 mm Z axis 600 mm Table dimensions 2870x710 mm
Fixed-bed boring and milling centre Year of purchasing: 1959 Year of renovation: 1974	Drop & Rein	Milling: - Frames - Spiderweb shafts	Max. boring depth 1200 mm Max. boring dia depending on tool Max. longitudinal travel 10000 mm Min. height to centre of spindle 200 mm Max. height to centre of spindle 3400 mm Spindle diameter 130 mm

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Fixed-bed boring and milling centre Year of purchasing: 1973	Köllmann	Milling: - Frames - Spiderweb shafts	Max. boring depth 900 mm Max. boring dia depending on tool Max. longitudinal travel 6000 mm Min. height to centre of spindle 20 mm Max. height to centre of spindle 3420 mm Spindle diameter 380 mm
Boring and milling centre Year of purchasing: 2014	BIMATEC FP 4000	Frames Endshields	Dimensions: X axis 1200 mm Y axis 1400 mm Z axis 800 mm Table dimensions 800x800 mm
Drill press Year of purchasing: 1999	MAS V080	Frames Endshields	Max. length 2565 mm Max. height 2200 mm Max. load on table 80 t
Hydraulic press Year of purchasing: 1977 Year of renovation: 2005	Siempelkamp	Rotors	Stroke: 1800 – 3800 mm Table dimensions 4000 x 4000 mm Max. pressure 350 t
Balancing machine (under-floor type)	Schenck	Rotors	Max. speed 4300 rpm Min. speed 600 rpm Max. distance between bearings 4700 mm Min. distance between bearings 800 mm Total length 5100 mm Max. rotor radius 1250 mm
Balancing machine (above floor-type) Year of purchasing: 1999	Schenck	Rotors	Max. speed 1250 rpm Min. speed 20 rpm Max. distance between driven rotor end and middle of opposing bearing 4640 mm Min. distance between bearings 200 mm max. radius of balancing body 1200 mm Max. weight of rotor 18 t
Vacuum pressure Impregnating plant (VPI) Year of purchasing: 1989	Meier Vakuum-technik	Stators	Tank dimensions Width 2100 mm Length 2630 mm Depth 2600 mm max. rotating load 15 t
Laser-based labelling system	Trumpf	Rating plates	Labelling field dimensions Without moving the table 100 x 100 mm With moving the table 540 x 380 mm Distance between lens and table 190 mm Laser power 60 W
Test laboratory equipment	Diverse	Complete electrical machines	Equipment for electrical/thermal final tests and type tests, with load facilities up to 3600 kW (above that, load simulation)
Coil shaping machine SPIRAFORM 4000	SELVA	Coils	---
Coil bandaging machine MI 171 Year of purchasing: 1999	MICA-MATION	Coils	---

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• **Manufacture of standard motors ≤ shaft centre height 315**

Machine/equipment	Manufacturer	Workpiece	Technical data
Endshield machining	Index	Endshields	For motors shaft centre height 160-315 mm
Flexible manufacturing system Year of purchasing: 1989	Ex-Cell-O	Frames	For motors shaft centre height 160-315 mm
Balancing machine Year of purchasing: 2000	Schenck H 40	Rotors	For motors shaft centre height 160-315 mm
Roll impregnating plant Year of purchasing: 1986	Eisenmann	Stators	For motors shaft centre height 160-315 mm
Diverse high-speed and universal lathes	diverse	diverse	---

• **Miscellaneous**

Machine/equipment	Manufacturer	Workpiece	Technical data
Calibration of inspection Measuring and test equipment (electrical)	Fluke	Inspection/ measuring and test equipment for electrical values	D.C. voltage 0 - ± 1,020 V D.C. current 0 - ± 11 A A.C. voltage 1 mV – 1,020 V (10 Hz-500 kHz) A.C. current 0,01 µA - 11 A (10 Hz-10 kHz) Electrical resistance 0 Ω - 330 MΩ Electrical capacitance 330pF - 1100 µF
Calibration of inspection measuring and test equipment (mechanical)	Trimos	Inspection/ meas.and test equ. for mech. values	Length measuring External 0 – 999.9 mm Internal 10 – 999.9 mm
Shape measuring system	FAG	Shape/ position	max. diameter measured 1200 mm
Cranes and lifting tackle	Diverse	---	max. load 80 t

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