

Machine list of BVS Blechtechnik

Equipment

Punching and lasering

Punching machine TruPunch 5000
2 punch-laser combination machines TruMatic 6000 Fiber
Amada EML-Z punch-laser combination machine
Fiber laser cutting machine Amada Ventis 3015 AJ
Fiber laser cutting machine Amada FOL
Straightening machine
Boschert EL 500 CNC Z Rota

High-bay warehouse for raw material

430 storage places: max. capacity 1290 t, approx. 150 different sheet metal formats in stock, approx. 2200 t annual demand
The machines are fully automatically connected to a storage system with handling components for loading/unloading of material with additional tool storage F40, format size up to 2500 x 1250 mm, cell control with integrated order and tool management,
running time: day shift with operator, night shift and weekend operation unmanned

Laser welding

Trumpf TruLaser Weld 5000

Grinding room / parts cleaning

Equipment for brushing and grinding of aluminum and stainless steel, vibratory grinding equipment for deburring, cleaning equipment with aqueous degreasing and phosphating, waste water free.

Press Brake

9 NC-controlled press brakes
3 automated bending robots
1 NC-controlled round bending machine
2 partially automated bending centers

Joining technology

20 machines for riveting and press-fitting of components, with stroke monitoring, 3 automatic welding cells with welding robot, 2x spot welding, 1x CNC stud welding, TIG/MIG/MAG welding processes.

Powder coating plant

With self-learning powder robots, max. part size 2000 x 1500 x 800 mm, incl. degreasing, pre-treatment and no-rinse coating, waste water free.

Screen printing

Printing of all kinds of housing parts by screen printing in one color / multicolor. Front panels and rear panels in raw, galvanically finished or coated condition.

Assembly

Assembly groups and end device production incl. electronic components with functional testing, ESD workstations.

Quality assurance

3D CNC coordinate measuring machine from Zeiss: measuring range 900 x 1600 x 800 mm, length measurement deviation: $E_0 = (1.8 + L/350) \mu\text{m}$, PFTU = 1.8 μm / scanning performance: MPE_THP = 2.8 μm in 50 s.

3D scanner from Virtek: optical measurement system for testing punch-laser blanks.

Certified according to DIN EN ISO 9001:2015

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