

Machine list: BVS Systemtechnik Equipment

Punching and lasering

2 punch-laser combination machines TruMatic 6000 Fiber

The extensive tool storage for tool change during machining enables an automated production run. Sheet metal formats with dimensions of up to 3000 x 1500 mm can be processed. The machine control is equipped with integrated order and tool management.

High-bay warehouse for raw material

256 storage places

750t storage capacity

The machines are fully automatically connected to a storage system with handling components for loading/unloading of material with additional tool storage

Up to 150 different sheet variants made of aluminium, stainless steel and steel alloys are in stock.

3000 x 1500mm large format sheets are stored.

The direct machine connection enables automatic parts transport from raw material storage to final blank processing.

Surface treatment

Grinding machine

2 systems for decorative brushing, grinding and deburring of aluminium, stainless steel and various other metals in dry and wet grinding processes for the highest demands on surface finish.

Parts cleaning

Automatic cleaning system with aqueous degreasing and phosphating of the component surface. The system operates without waste water.

Assembly of components

Joining technology

1 semi-automated machine for riveting and pressing in standard parts, with stroke monitoring

4 assembly workstations for the completion of complex assemblies from in-house production, purchased and standard parts.

Welding

There are 3 welding cabins available for processing aluminium, steel alloys and stainless steel.

Each welding cabin is assigned to a material-specific grinding cabin.

2 automatic welding cells with welding robot with cold metal technology.

TIG/MIG/MAG welding methods are used for processing.

1x CNC stud welding machine with automatic material feed.

Press Brake

3 NC--controlled press brakes with direct system connection and working ranges about 1000 – 3000 mm bending length, 36 – 130 t pressing force are available.

1 automated NC-controlled high-speed bending cell

Joining technology

1 semi-automated machine for riveting and pressing in standard parts, with stroke monitoring.

4 assembly workstations for the completion of complex assemblies from in-house production, purchased and standard parts.

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 = $1.8\mu\text{m/}$ scanning performance: $MPE_{THP} = 2.8 \mu\text{m}$ 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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