

## **Machine list of BVS Blechtechnik**

### **Equipment**

#### **Punching and lasering**

Punching machine TruPunch 5000  
2 punch-laser combination machines TruMatic 6000 Fiber  
EML-Z punch-laser combination machine  
Fiber laser cutting machine Ventis 3015 AJ  
Fiber laser cutting machine 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**

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