

Precision material cutting – laser beam cutting, water-jet cutting and electrical discharge cutting

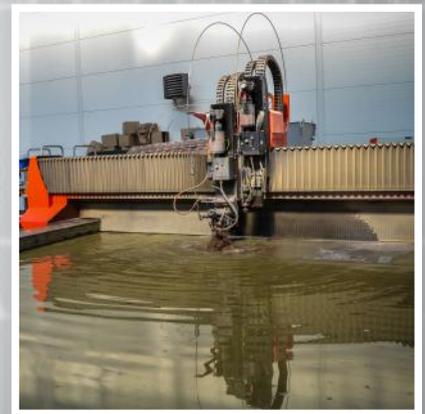
Laser beam metal sheet cutting

- **Laser beam cutter – BY SPRINT 3015 Bystronic** – for the components of the following dimensions: 1500x3000 mm and weight up to 750 kg.

Types of steel materials designated for cutting:

- steel up to 15 mm thick,
- stainless steel and acid-resistant steel up to 8 mm thick,
- aluminum and its alloys up to 6 mm thick,
- brass up to 3 mm thick.

The machine performs engraving on each component, so they are properly labeled



Water-jet cutting

- **The brand of water-jet cutter currently in use: Waterjet Bystronic Byjet Flex 6030** – the maximum dimensions of components: 6000x3000 mm, the maximum weight pressuring the table up to 1600 kg per square meter (1600 kg/m²), the maximum component height: 205 mm, placement accuracy: ± 0.05 mm/m, water-jet cutter cuts different types of materials (steel, aluminum, artificial and recycled plastic, granite, marble, glass, ceramic ware, composite material, foams, sponges etc.), the rendered details do not require after-treatment, the replicability average ratio: ± 0.025 mm, 2D and 3D cutting, the maximum head turning angle 3D 45°, the machine is adjusted to engraving of components



Electrical discharge cutting

- **The brand of wire electric discharge cutter currently in use – MV2400S Tubular Mitsubishi Electric** – power cross traverse: X: 600 mm, Y: 400 mm, Z: 310 mm, U and V axis traverse: 150x150 mm, the maximum component dimensions: 1050x820x305 mm, the maximum component weight 1500 kg, table dimensions: 840x560 mm, the maximum cutting angle/height of the component: $\pm 15^\circ/260$ mm, $\pm 45^\circ/75$ mm, the applied wires have the following parameters: 0.10÷0.30 mm



