



AVAILABLE MANUFACTURING TECHNOLOGIES

QUALITY MANAGEMENT

All the technologies are managed in compliance with the requirements of ČSN EN ISO 9001:2016. The quality of products is guaranteed by strict adherence to manufacturing standards.

AVAILABLE TECHNOLOGIES

1. Pressworking

2. Wire Forming

3. Pressure Casting of Zinc Alloys

4. Injection Molding of Plastics

5. Hardening and Heat Treatment of Steel

6. Tool Making

7. Surface Finishing

8. Small-size Component Assembly

9. Printing Services

1. Pressworking

- 1.1. Metal sheet stamping for bulk production
- 1.2. Stamping of iron, brass, stainless steel and aluminum bands
- 1.3. Max. metal sheet width 150 mm
- 1.4. Metal sheet thickness 0.25 – 1.5 mm
- 1.5. 50 presses divided according to tonnage 5 – 60 tons
- 1.6. Tools follow-on, operating tools
- 1.7. Product examples:
 - Drawn rivets, snap fasteners, haberdashery
 - Automotive industry products

2. Wire Forming

- 2.1. Volume forming of wires with diameters ranging from 1 - 5 mm
- 2.2. 3D forming of wires with diameters ranging from 0.4 – 1.5 mm, infeed length 10 – 200 mm
- 2.3. Forming of narrow metal strips, thickness 0.4 – 1 mm, width 6 – 15 mm, infeed length 10 – 200 mm
- 2.4. Product examples:
 - Hair grips, wreath grips
 - Forged, solid and semi-hollow rivets

3. Pressure Casting of Zinc Alloys

- 3.1. Manufacturing of zinc alloys (95% Zn, Al, Cu) products
- 3.2. 8 casting machines
- 3.3. Max. casting volume 5.5 cm³
- 3.4. Forms: 1 - 4-fold molds
- 3.5. Product examples:
 - Sliders of zip fasteners, pendants, swim suits fastening
 - Small components for the automotive industry

4. Injection Molding of Plastics

- 4.1. Manufacturing of products of thermoplastic materials using the injection technology
- 4.2. Material used: PE, PP, PA, PVC, PS, ABS, POM, PBT, PC
- 4.3. Max. casting volume 180 cm³
- 4.4. Max. mold dimensions 500 x 500 x 720 mm
- 4.5. Product examples:
 - Plastic zip fasteners, plastic buttons and covers
 - Products for the automotive industry, small plastic boxes

5. Hardening and Heat Treatment of Steel

- 5.1. Steel heat treatment (hardening) performed:
 - in a continuous furnace with protective atmosphere heating and in a polymer bath;
 - in a continuous furnace or in a batch mode
- 5.2. Examples of hardening applications:
 - Pins, IXA nails (for fastening things to masonry)
 - Upholster fasteners, various types of spring

6. Tool Making

- 6.1. Processing of complete drawing documentation for manufactured tools and molds
- 6.2. Manufacturing of follow-on tools, injection molds for plastic and zinc materials
- 6.3. Maintenance and major overhauls of tools and molds
- 6.4. Manufacturing of machines, components and riveting fixtures

7. Surface Finishing

- 7.1. Galvanic surface finishing for bulk plating
 - Nickel plating: nickel, black nickel
 - Cyanide brass and copper plating
 - Zinc plating: blue chromate treatment, passivation
 - Patinated, antique surfaces: antique copper, antique brass, antique-finish nickel
- 7.2. Varnishing
 - Asphalt varnish and stoving
 - Bulk varnishing with epoxy varnishes
- 7.3. Gloss brass dipping for bright metallic surface
- 7.4. Degreasing
- 7.5. Polishing
 - With TURBOFIN devices
 - Polishing with stainless steel beads and other additives
- 7.6. Tumbling and deburring in vibration and rotation devices

8. Small-size Component Assembly

- 8.1. Assembly of small-size components using automated and semi-automated devices
- 8.2. Final control operations and sorting of small-size products

9. Printing Services

- 9.1. Print and cardboard center
- 9.2. Printing machines for offset and digital printing, thermoprinters for label printing 200-600 DPI, cardboard and cut-out machines
- 9.3. Example of services:
 - Print of leaflets, catalogues, garment bags, stickers
 - Tags, varnishing, laminating, die cutting (EURO etc.)
 - Small size boxes (sewn, folded, coated)