

PRESSINGS & STRIP COMPONENTS

Within the product area of Pressings and Strip Components, Lesjöfors design, develop and manufacture components made from strip or sheet material, always in partnership with our customer.

Complete development supplier

The most important decisions are made in the beginning of a development project. The design of the components, choice of material and surface treatment have a great impact on the production cost and quality of the product.

As your development partner we assist you with:

- **Prototype production**
- **Choice of material, heat and surface treatment etc.**
- **Technical calculation, i.e. FEM simulation, relaxation, fatigue etc.**
- **A design for optimal material use and the right product quality**

Complete production supplier

Our wide manufacturing portfolio allows us to define the best process for your needs whether its 10 or 10 million components.

We offer:

- Tooling solutions tailored to your requirements for product quality and quantity
- Automated processes, progression and multislid tools
- Manual production, wire erosion and Laser cutting
- Sub assemblies and bespoke packaging
- Production in low-cost countries such as Latvia and China

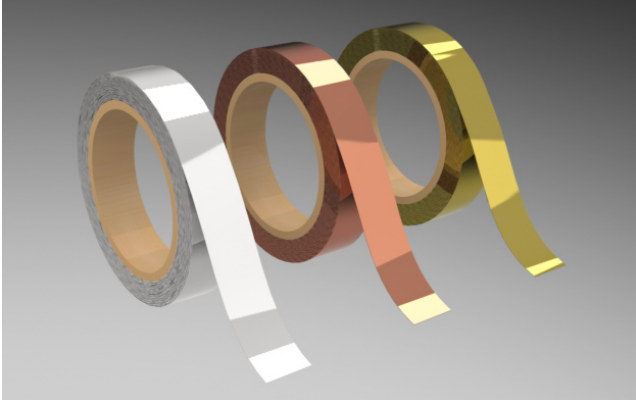
Facts

- Lesjöfors manufactures components in strip steel in thicknesses from 0.025 to 6 mm
- We offer a wide range of materials, many from stock which combined with standard tools, allows us to offer rapid prototyping.
- Lesjöfors specialises in products with complex geometries in high-strength and thin materials



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Developing a pressed product



General rules of thumb for designing a pressed product

- Inside corners are designed $R \geq$ material thickness (applies also for exterior corners with some exceptions)
- Piercing should be greater than $\geq 1.5x$ material thickness
- The roll direction of the material affects the minimum bending radius for hard-rolled materials. Most favorable is to bend across rolling direction.
- A stamping component will always have a rounded edge side and a sharp edge side. The sharp edge maximum is 10% of the strip thickness.

Facts

Materials

Characteristics that are affected by the choice of material

- Mechanical strength
- Corrosion resistance
- Conductivity

Heat treatment

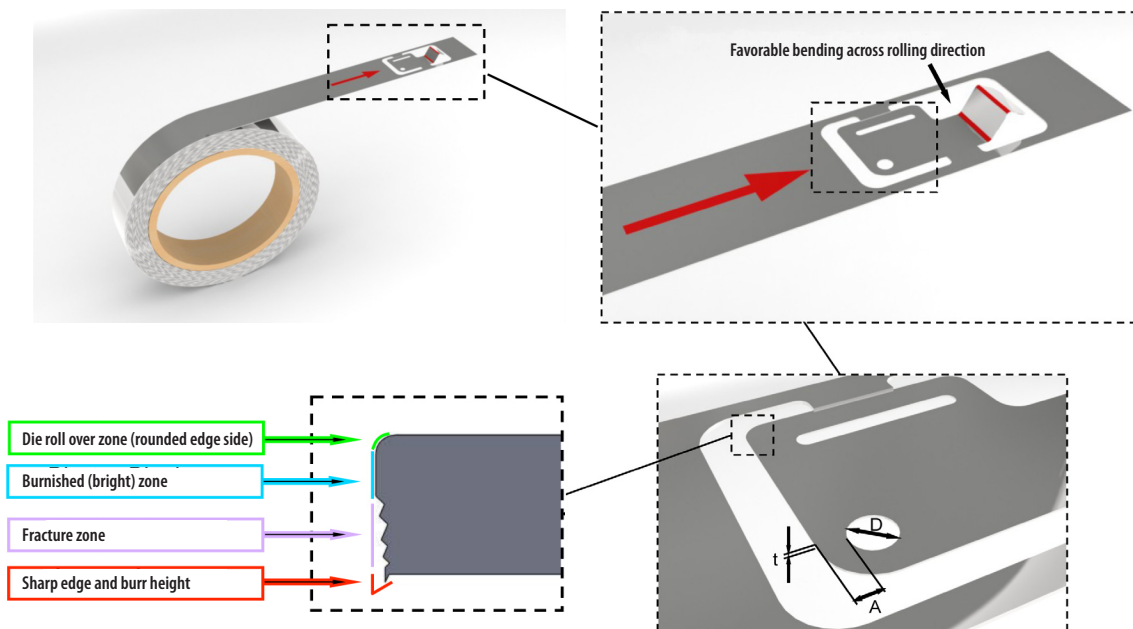
Depending on the material, heat treatment can improve the component's mechanical properties such as i.e.:

- Static strength
- Relaxation/creep
- Fatigue

Surface treatment

The purpose of surface treatment is to improve:

- Corrosion resistance
- Conductivity
- Contact resistance
- Insulation performance
- Cosmetic appearance



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