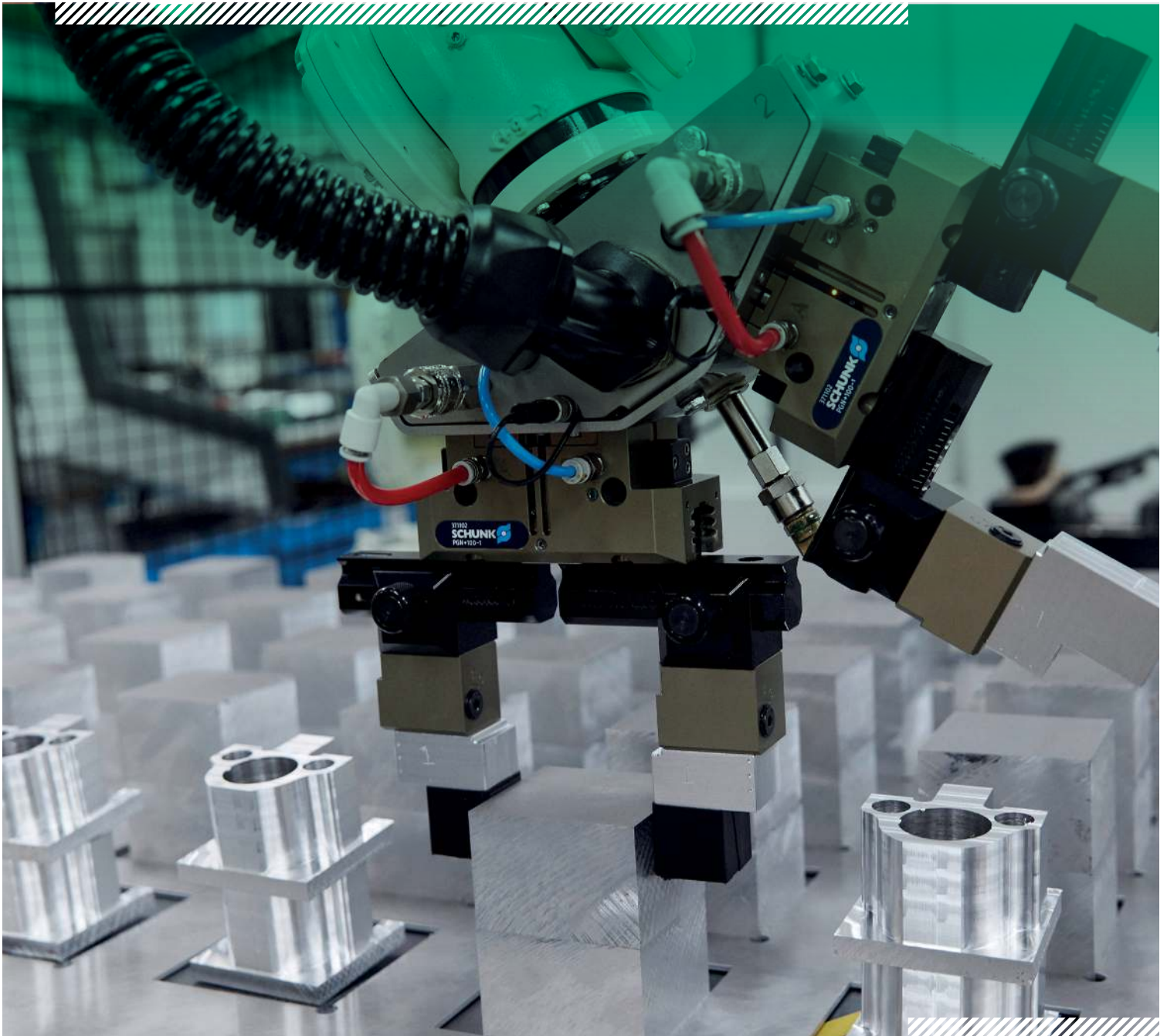


Service offering

Mechanics

High-precision mechanical solutions on demand



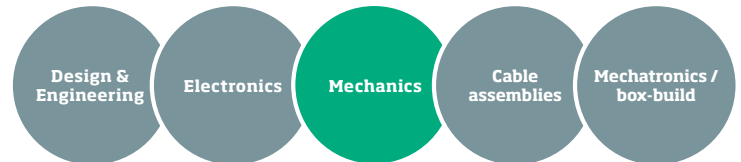
Our range of capabilities is what makes us a preferred partner

Your One-Stop-Shop

GPV's facilities in Europe and Asia provide our customers with various services to cover their demands in Mechanics for all possible industries and applications.

From shaping into form (e.g. via laser cutting, punching and bending), high-precision machining (5-axis milling, 7-axis turning) and certified welding to surface treatment (wet- & powder painting, silkscreen printing) and complete box-build for our OEM partners: we are your One-Stop-Shop.

Competencies



Comprehensive services in mechanics:

- > Manufacturing of complex mechanics including project management, prototyping, pre-production, larger series, quality management and logistics setup
- > Welding processes according to ISO EN 3834-2 and EN 15085-2 CL1 with broad experience in the railway industry
- > Highly experienced with aluminium and various high-grade steel alloys

Our facilities provide the following setup and machinery:

- > Mechanical engineering
- > High-precision 5-/3-axis milling machines
- > 7-axis turning machines
- > Advanced welding
- > Powder painting
- > Silk-screen printing
- > Mechanical assemblies and box-build

A glimpse at our applications

From sheet-metal treatment for the housings required by our Electronics customers to Mechanics for robotics and the heavy machine industry, GPV manufactures and assembles mechanical solutions according to your requirements.

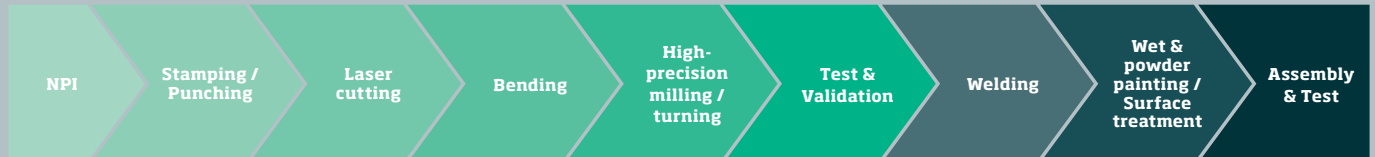
Fields of application:

- > **Cleantech**
- > **Instruments & measurement**
- > **Machine industry**
- > **Medtech**
- > **Robotics**
- > **Transportation**



Competencies over the complete process

Typical processes flow



NPI

- > Construction with CAD software (Mastercam 2020)
- > Preparation of documents such as drawings and production plans
- > Preparation of tools and fixtures etc.

Stamping / Punching

- > Fully automated with picking tower for standard plates (up to 1,500 mm x 4,000 mm, 6 mm thickness)
- > Stamping with up to 160 tons of pressure

Laser cutting

- > Fully automated with picking tower for standard plates (up to 1,500 mm x 4,000 mm)
- > Maximum thickness for laser cutting: aluminium 6 mm, steel 20 mm and stainless steel 10 mm

Bending

- > Bending of sheets with dimensions up to 6,000 mm x 3,000 mm x 6 mm
- > Swing-bending process technology

High-precision milling / turning

- > Treatment of various materials, e.g. aluminium, steel and selected plastics
- > Highly complex milling 5- / 3-axis
- > 7-axis turning
- > Robot loading / unloading system
- > Laser measurement for tooling

Test & Validation

- > Industry-leading measurement equipment for items up to 900 x 1,600 x 800 mm and up to a weight of 1,000 kg
- > Measuring with Rational DMIS-software (Dimensional Measuring Interface Standard)

Welding

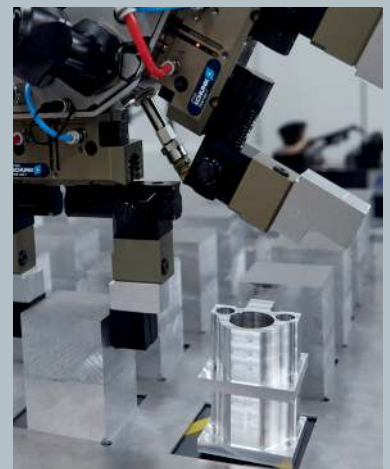
- > TIG, MIG, MAG and spot welding
- > Manual or robot welding facilities
- > Welding certificates EN ISO 3834-2 and EN 15085-2 CL1 (railway industry)

Wet & powder painting / Surface treatment

- > Wet and powder painting for applications in highly corrosive atmospheres
- > Silk-screen printing

Assembly & Test

- > Assembly of modules to complete products



The hardware of the digital world

From ambition to real products

A unique customer perspective

GPV is committed to ensuring that our customers accomplish more. We do this by building strong and trusting partnerships based on responsible and honest cooperation.

We acquire comprehensive insights into our customers' needs and industries, and we manage advanced and stable product processing, relying on our strong technological knowledge.

Stable. Specialised. Global.

In everything we do, we focus on creating value for our customers, and our approach is supported by the strong spirit of our organisation. As such, we always strive for a timely delivery of faultless, secure and functional products and services that fulfil the expectations and requirements of our customers.

> gpv-group.com



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