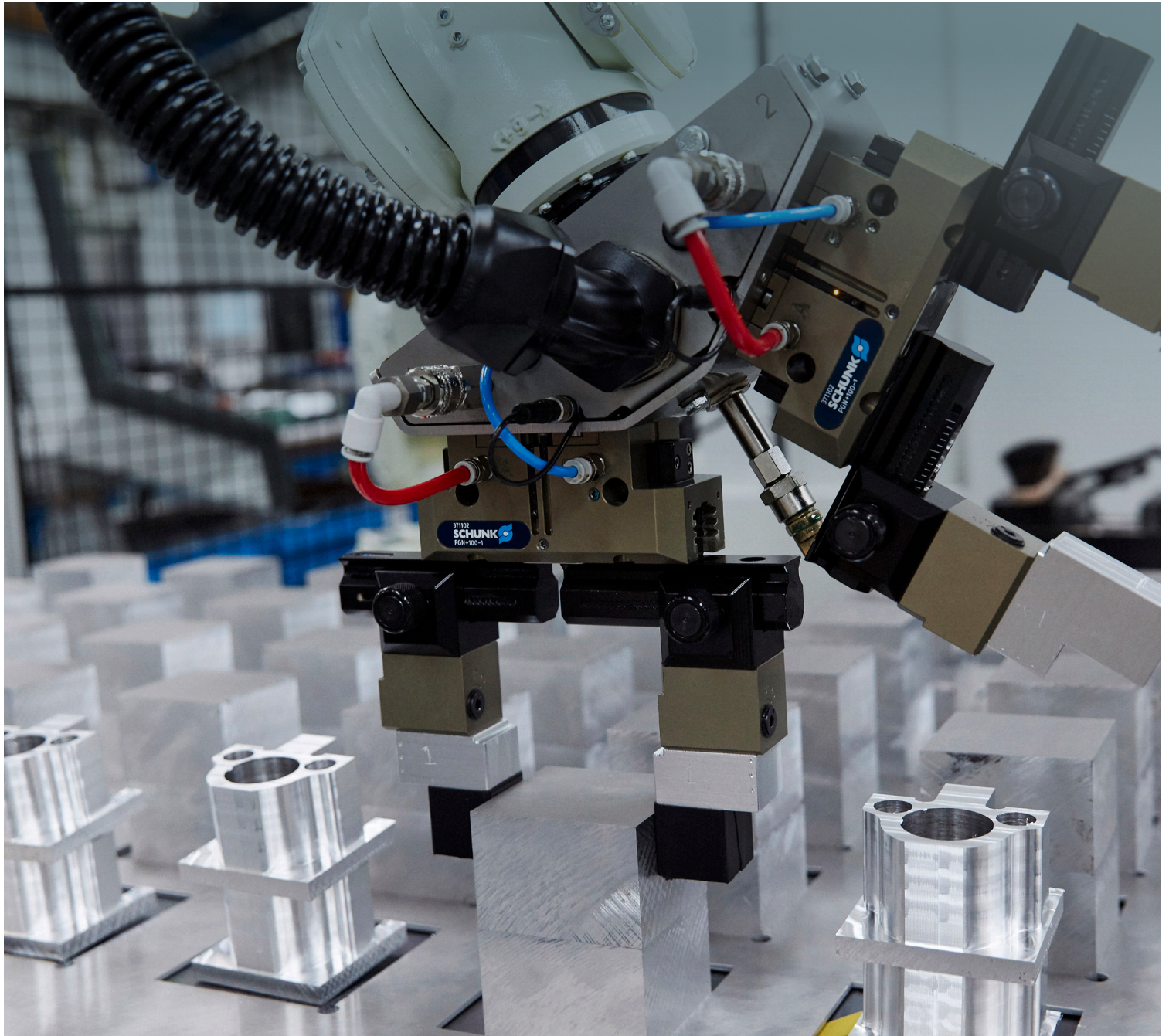


# Service offering Mechanics

High-precision mechanical  
solutions on demand



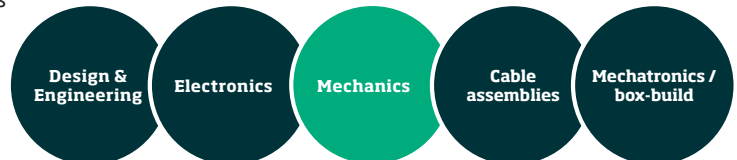
# Our range of capabilities is what makes us a preferred partner

## Your One-Stop-Shop

GPV's facilities in Europe, Asia and America 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:

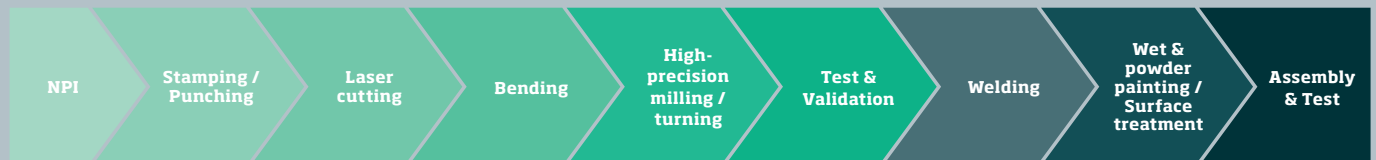
- > **Cleantech**
- > **Instruments & measurement**
- > **Machine industry**
- > **Medtech**
- > **Robotics**
- > **Transportation**





# 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

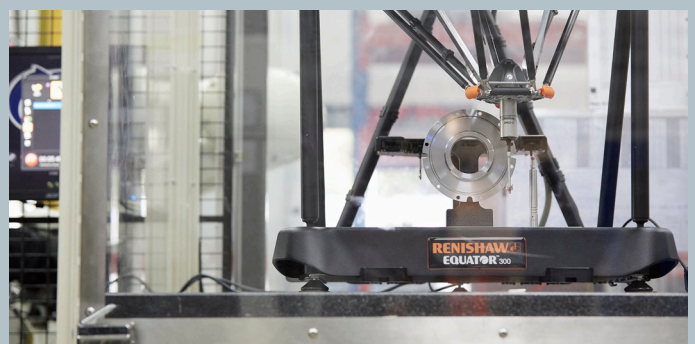
- › TIG, MIG, MAG and spot welding
- › Manual or robot welding facilities
- › Welding certificates EN ISO 3834-2 and EN 15085-2 CL1 (railway industry)

### 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](http://gpv-group.com)**



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GPV Mechanics DK  
Tarm, Denmark

GPV Electronics EE  
Elva, Estonia

GPV Electronics FI  
Lohja, Finland

GPV Electronics DE  
Hildesheim, Germany

GPV Cables SK  
Hlohovec-Šulekovo, Slovakia

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Hlohovec-Šulekovo, Slovakia

GPV Electronics SK (N)  
Nova Dubnica, Slovakia

GPV Electronics SK (P)  
Piestany, Slovakia

GPV Electronics SE  
Västerås, Sweden

GPV Electronics CH  
Mendrisio, Switzerland

## **Asia**

GPV Electronics CN (B)  
Beijing, China

GPV Electronics CN (S)  
Suzhou, China

GPV Electronics TH  
Bangkok, Thailand

GPV Mechanics TH  
Bangkok, Thailand

GPV Electronics LK  
Kochchikade, Sri Lanka

## **The Americas**

GPV Electronics MX  
Guadalajara, Mexico

