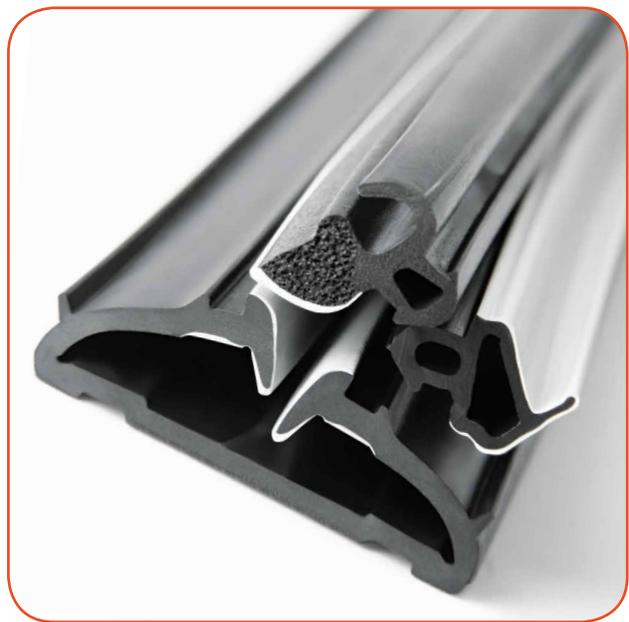




Always the right

## Rubber & Plastic Systems

for your applications



- Moulded parts
- Extrusion parts
- Stamped parts
- Prototypes

## From Spessart Gummi to Gummi Arnold GmbH to ARNOLD GmbH

Founded in 1977, "Spessart Gummi A. Arnold" later became "Gummi Arnold GmbH" in 1987. Since 2010, the company has operated under the name "ARNOLD GmbH".

Since getting started as a reliable source for rubber components only, we've developed into a company offering a broad spectrum of services in the polymer technology field (elastomers and thermoplastics). Since the mid-1980s, our small, primarily regional operation has grown to become a nationally and internationally active mid-sized family-run company.

### Top quality and expertise – We wouldn't do it any other way!

In 1998, we established our quality-management system certified according to DIN EN ISO 9001, and we've been continually optimising it ever since. Quality is a matter of trust, which is why we feel compelled to adhere to external quality standards as well.

Individualised consulting, personal dialogue with customers and the creation of solutions utilising our own recommendations are our primary strengths. It's how we're able to find solutions together with our customers – solutions with a perfect fit. We accompany you from the prototype stage through to readiness for serial production and continue to support you with the availability of spare parts.

Sometimes, our individualised service even results in the creation of innovative production technology and our assistance in the development of customer-specific products.



### Our range of services at a glance

Our supply and production range includes all elastomer materials and thermoplastics, and we offer moulded parts, extrusion parts, stamped parts, prototypes and rubber-to-metal connections in this area. We are able to supply customers with products which meet the quality standards of a variety of different branches of industry.

Our primary focus is customer-specific, individualised solutions, but we're also able to fall back on an extensive array of existing moulds for standard items like bumpers, balls, grommets, O-rings etc.

Our main customers are German and international companies in the:

- Electrical industry
- Solar industry
- Mechanical engineering industry
- Medical industry
- Sanitary industry
- Motor vehicle industry
- Household goods industry

### Moulded parts

This includes e.g. feet, collars, grommets, caps, bumpers, bellows, grooved rings, O-rings, wedge sealing rings, balls etc., as well as rubber-to-metal connections and, most importantly, customer-specific special parts.

We offer the following quality levels and materials, among others:

Elastomers, such as: NR, SBR, NBR, CR, IIR, CSM, EPDM, Q/MVQ/VMQ, LSR, FPM/FKM, ECO, HNBR, ACM and AECM

Thermoplastics, such as: TPE, TPE-V, TPS, EPDM/PP, PVC/NBR, PP, PA, PA6.6 (also fibreglass-reinforced), HD-PE, LD-PE, ABS, ASA and PVC (hard and soft)



Protective covers for measuring units



Flange gaskets for solar collectors



Engine compartment intake manifolds

## Extrusion parts

Our range of extrusion parts includes profiles, hoses, hose bends and hose rings made of all types of elastomer and thermoplastic (see moulded parts). Our production capabilities enable us to create many different types of product with tight tolerances, making individualised solutions possible.

ARNOLD GmbH also provide extrusion parts which are:

- co- and tri-extruded (incl. multiple colours)
- available as hard-soft combinations
- self-adhesive
- cut to length, including multiple parts connected to one another on a spool (incl. with reusable packaging)
- as profile frames (vulcanised together or glued)
- with a fabric or metal inlay



Mandrel-heated moulded hoses with and without fabric



Stamped parts made of a variety of materials



## Stamped parts

We offer stamped parts made of all non-metallic materials. In addition to elastomers (see moulded parts), this includes various grades of hard paper, as well as all foamed materials, such as cellular rubber, foam rubber, cellular polyethylene, silicone foam and cellular polyurethane.

ARNOLD GmbH provide stamped parts which are:

- also available as blanks and fabricated parts
- self-adhesive on one side (self-adhesive on both sides also possible)
- retained on backing (kiss cut process)
- cut with a water jet
- produced freehand

## Prototypes – We help your ideas take shape

### Stereolithography (STL/SLA) and vacuum casting

These processes make it possible to very quickly manufacture models and samples suitable for checking dimensions, design, Shore hardness and basic functions.

Using 3D data, the master mould (STL model) is created through the targeted layer-by-layer curing of UV-sensitive resins. This can then be used to create a silicone mould.

Vacuum castings can thus be manufactured from a variety of different casting resins with properties and hardness levels approaching those of the production material. This makes it possible to test many functions in advance and for new findings to be made.

STL model with vacuum castings

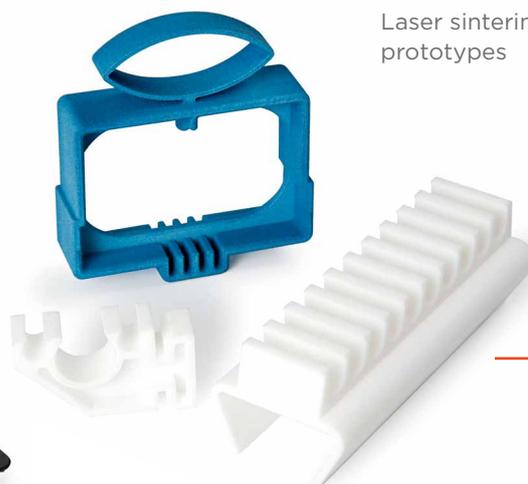


### Laser sintering (SLS)

Laser sintering is primarily used for the manufacture of durable functional prototypes without any special surface requirements.

This process involves the local fusing of a powdered raw material using a CO2 laser, where the material is built up on a work platform layer by layer.

Laser sintering prototypes





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