

plastics

Depending on the application we can offer an optimal manufacturing technology for your components. Whether it is a functional or design pattern or you need usable components, for example from polyamide 6 - we will show you the most efficient solution.

summary of technologies:

- Laser sintering from 1 unit up to small series (material: polyamide12, alumide™, polystyrene)
- PolyJet from 1 unit up to small series (material: sundry acrylic resins)
- Polyamide casting of individual parts or small series made of cast polyamide (PA6-G filled / unfilled, PA12-G) (manufacture of plastic parts by casting liquid polyamide in silicone moulds)
- Vacuum casting (PU) for the production of transparent or any coloured plastic components (close-to-production material properties)
- Injection moulding components (small series) from aluminium or steel tools, which are produced by rapid tooling technologies



light metal

With in-house design and attached toolmaking we manufacture for you prototypes or small series tools. The mechanical processing and quality assurance with the latest technology complete our performance profile.

summary of technologies:

- Additive Layer Manufacturing for complex parts without tools, from tool- and stainless steel, aluminium and titanium new
- Milling from solid material for complex components with high tolerance requirements in a very short time
- Precision casting (and compact shell casting) for the production of complex components with tolerances similar to die casting
- Sand casting components made by model units, which permit several 100 tasks depending on the wear
- Die cast components with part number 50 to 1,000 of aluminium, magnesium and zinc with steel tools, which are produced by rapid tooling technologies
- demanding sheet metal parts are generated in a very short time by using laser cutting and forming tools

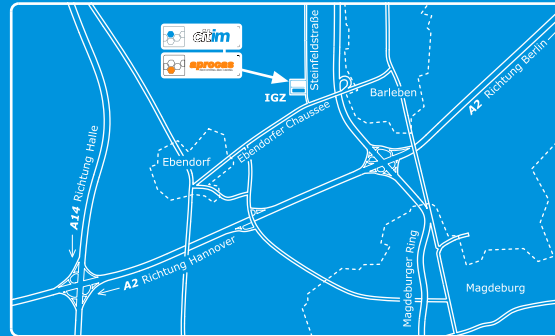
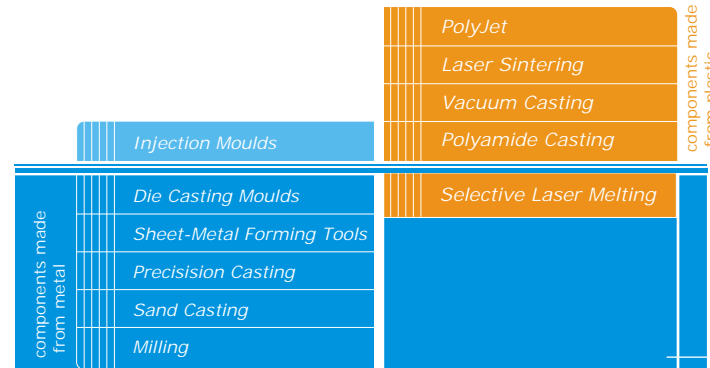


elastomer



Elastic functional components or design patterns, as well as small series, can be produced similar to plastic components. For this we use the following technologies:

- Laser sintering from 1 unit up to small series
- Vacuum casting (PU) for the production of plastic components similar to rubber. Reusability of silicone form: approximately 20-30 parts
- Components of high-performance silicone for the manufacturing of highly flexible and temperature-resistant plastic components. The production takes place on sintered or milled tools or silicone forms.
- Small series of elastomer components from aluminium injection moulding tools, produced by applying rapid tooling technologies



The core competencies of citim GmbH are the construction and the tool-bound production of components made of plastic and light metal.

Our trademark is the efficient implementation of the rapid tooling technology for the production of tools in the areas of die casting, injection moulding and sand casting up to several 1,000 parts.

The aprocas GmbH is an experienced rapid prototyping company. The core competence lies in the area of toolless manufacturing. The deployment of generative manufacturing processes such as laser sintering and innovative succession procedures.

With the expertise of an experienced developer in the area of polyamide casting the aprocas GmbH is in a position to offer polyamide parts starting at 1 unit.

The company alliance brings clear advantages for you:

- one contact for your ideas and wishes
- powerful product diversity from one source
- uniform quality management system according DIN EN ISO 9001:2000
- fast and experienced interaction

• citim GmbH
• Steinfeldstraße 5
• 39179 Barleben
• Germany

• phone +49 39203 51060
• fax +49 39203 510699

• E-Mail info@citim.de
• www.citim.de

• aprocas GmbH
• Steinfeldstraße 5
• 39179 Barleben
• Germany

• phone +49 39203 510630
• fax +49 39203 510649

• E-Mail info@aprocas.de
• www.aprocas.de

