



# Finished parts made from plastics

– light, flexible, robust

We are the specialist for manufacturing and machining thermoplastics with a focus on the production of finished plastic parts for instant use. Finished parts made from thermoplastics have many advantages that have a positive effect on the end product.

## Advantages

- Low weight
- Diverse application possibilities
- Resistance to mechanical, electrical, physical and thermal loads
- Good wear characteristics
- High chemical resistance
- Can be easily shaped, melted and recycled

Depending on requirements, different materials are better suited to the respective application, bringing their own advantages. You can find all of the details about our materials with a quick look in our online portal:

**Advance**[Dock](https://www.dock.centroplast.de).



[www.dock.centroplast.de](https://www.dock.centroplast.de)



## From single parts to medium-sized series

Regardless of whether you to have an individual finished part or a whole series produced – our promises for quality, budget compliance and timely delivery remain the same! From individual parts through to complete components – also including assembly and quality checks if required – you will receive the finished parts that you can use in your application directly.



## Our manufacturing processes

Our team of experienced engineers and consultants will be more than happy to advise you about which process will be most suitable according to the intended application purpose, the quantity and the appropriate material.

- + **Machining** | turning and milling with rigorous precision
- + **Thermoforming** | for small and medium quantities
- + **Stamping and folding** | pre-assembled or as a finished part
- + **Injection moulding** | produce series economically
- + **Vacuum casting** | from prototypes through to small series
- + **3D printing** | material, printing and reworking all from a single source

# Cutting techniques

## Precision finished parts

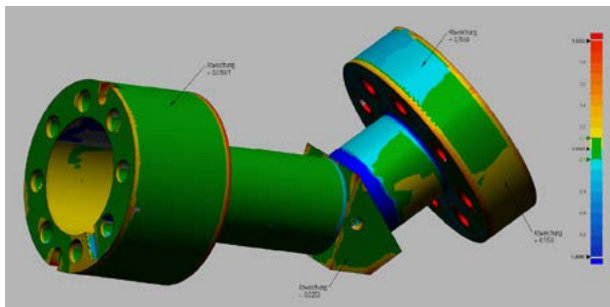
### Milling

- Specialised in small series production
- 4,000x2,000 mm clamping surface enables 5-axis processing of large plates
- Shell surface processing up to a diameter of 400 mm and a length of 1,800 mm
- Short delivery times
- Highest quality standards
- Different types of machines enable nearly all kinds of machining possibilities
- Ultra-modern CAD-CAM system to design and manufacture finished parts
- Assembly as well as customized storage and transport systems



### Turning

- Modern machinery with driven tools
- Turning diameter up to 450 mm and length up to 750 mm
- High-precision processing with CAD system
- Cost-effective processing of large-scale productions through the use of robot systems



False-colour comparison: compares the contour of the finished part with the CAD model

### Measuring

#### 3D coordinate measuring machine

- Quality check:  
The 3D coordinate measuring machine uses the same CAD model that has been used for machining.
- Measurement reports can be created automatically

#### 3D scanner

- Parts without a technical drawing can be scanned with a 3D scanner and rendered into a 3D model using reverse engineering.
- Quality check:  
Deviations such as deformation or warping can be represented in visual format by a false-colour comparison of the scanned finished part with the CAD model. Especially for free surfaces, this is a very convenient and feasible presentation of the surface result.

### Prototyping

- We provide advice and support in prototyping your new product. We can find the right material and the perfect manufacturing process to suit the application.

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# **AdvanceDock**

Our online portal for an optimised  
information and ordering process



Register now and benefit from the advantages:  
**[dock.centroplast.de](http://dock.centroplast.de)**