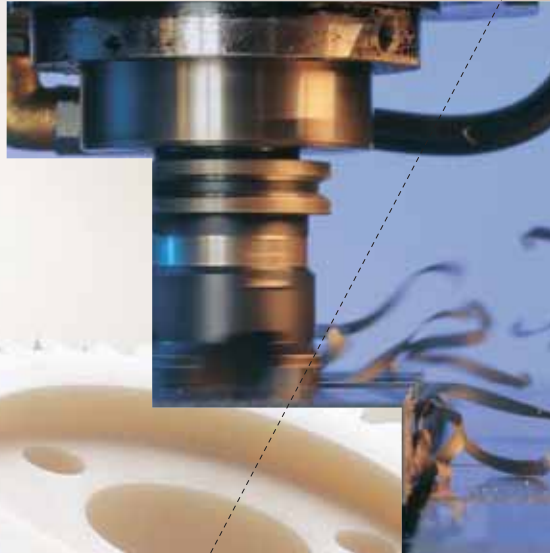


MACHINED PARTS

Fast and cost-effective!



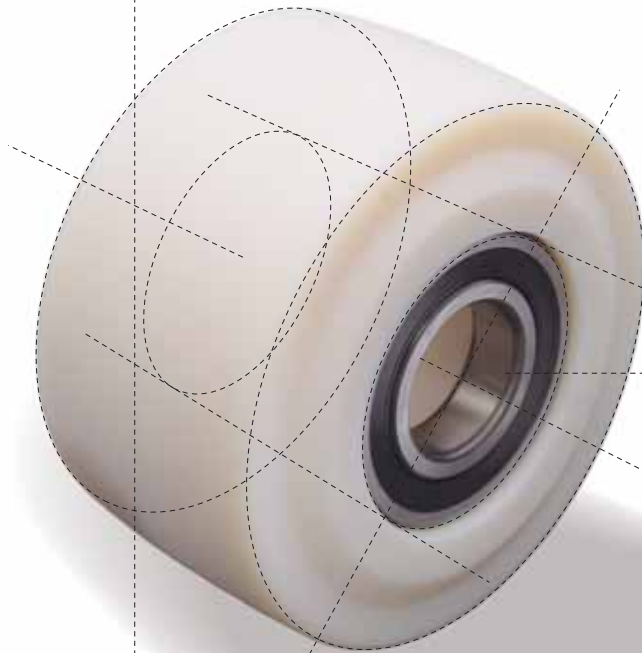
LICHARZ engineering plastics –

EXACTLY YOUR SOLUTION

Calculation of rollers

$$p' = f_w \sqrt{\frac{F}{r \cdot B}} \quad [\text{MPa}]$$

F = Wheel load in N
r = Roller radius in mm
B = Wheel width in mm
f_w = Material factor
PA 6 G = 25,4
PA 6 = 38
POM = 33,7



LICHARZ

ENGINEERED COMPONENTS:

We put plastics on target!

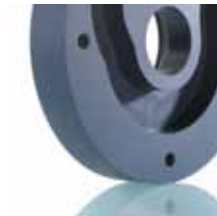
Ever more components in machines and equipment are manufactured from plastic. Plastics are durable and tough; they are lightweight and can be machined easily, and they can be produced faster and cheaper than metal.

Licharz advises you on the use of plastics and produces high performance components for a wide range of applications in engineering and drive technology.



20

Whether simple or complex - there are no limits for us when it comes to machining engineered components.



LICHARZ DURABLE AND TOUGH:

We put ideas to work!

Using CNC machine tools we manufacture very tough and durable engineered components which are particularly suited to applications with high wear rates. Because we have a broad range of manufacturing possibilities we can implement custom designed solutions for you.

We machine:

- Semi-finished products and custom cast shapes of PA 6 G to individual specifications
- Semi-finished products of PA 12 G
- Semi-finished products of PA 6, PA 66, PA 12 E
- Semi-finished products of POM and PET
- Semi-finished products of all engineering plastics, for example PE, PP, PTFE, PVC, PVDF, PEEK

We machine your engineered components fast and cost effectively, exactly as you need them!

- **CNC milling machines, working range up to max. 3000 x 1000 mm**
- **5-axis CNC milling machines**
- **Conventional milling machines**



- **CNC lathes, diameter up to max. 1560 mm**
- **CNC lathes up to a max. working length of 2000 mm**
- **Conventional lathes**



- **CNC revolver head lathes up to max. \varnothing 100 mm**
- **Conventional automatic lathes up to max. \varnothing 100 mm**



- **Panel saws 170 mm thick and 3100 mm long**
- **Four-sided planer up to 125 mm thickness and 225 mm width**
- **Planers up to 230 mm thickness and 1300 mm width**
- **Profile milling machines (bench and overhead milling machines)**
 - **8-axis CNC profile milling machine**



- **Gear cutting machines for gears from module 0.5 to 1500 mm diameter**



LICHARZ

TECHNICAL KNOWLEDGE AND EXPERIENCE:

We think with you from the beginning!

Which components can we manufacture in plastic for your machines?
Which plastic is ideal for your application conditions? And which process brings the best result? We offer you the technical know-how and develop your product jointly with you:

- we check application conditions on your machine
- we check your design drawing
- we recommend the material and the process
- we manufacture a prototype for you if required.

As the manufacturer of the semi-finished products we are with you all the way. We are flexible, independent, and we have control over the material quality.

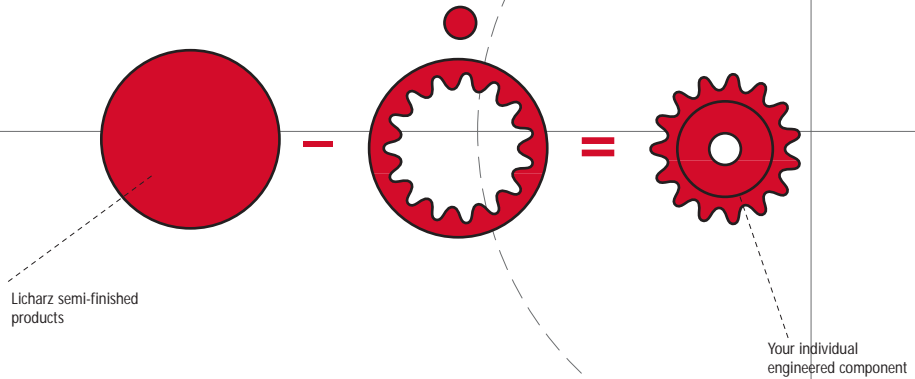
Together, we simplify your purchasing process!



70°

90°

“
Our machinery is almost completely automated, and with it we can manufacture your engineered components in small or large batches: always accurately, fast, cost effectively – and in consistently good quality. Our machining capacity puts us among the top 3 providers in Germany.
”



LICHARZ
DEPENDABLE AND UNCOMPLICATED:

We are there quickly for you!

120°

240°

We ensure a smooth order process, from speedy quotes to on time delivery. As a mid-sized family company we value unbureaucratic processes, short communication paths, and we are fully committed to you. Our processes are certified to DIN EN ISO 9001: 2000.



270°

Do you have a question about applications of plastics for components? We will be happy to advise you.



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LICHARZ

EXACTLY YOUR SOLUTION:

We think with you from the beginning!

320°

We offer advice on how to utilise plastics and develop your component together with you:

- we check application conditions on your machine
- we check your design drawing
- we recommend the material and the process
- we manufacture a prototype for you if required.

You will receive your product quickly and economically, exactly as you need it!



