



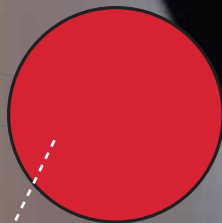
Image: Krones

PLASTICS FOR BULK MATERIAL HANDLING

fast and economical!

MACHINE COMPONENTS

Work reliably and safely with us.
Plastics are light, durable and sturdy.



Licharz semi-finished products



Your individual
engineered component

6.685

10.556

Machine components made of plastic are everywhere in bulk material handling equipment. They perform important functions and work reliably and safely in difficult conditions. Plastics are extremely **durable and sturdy**. They are mouldable and very light. And they can be produced faster and cheaper than metal.

With optimal materials from our own production and a modern machine shop, we can make sheaves, rollers, guide wheels, gears, sprockets, wear pads and guide strips in small or large series: **precise, fast, economical** – and in a consistently high quality. With our manufacturing and machining capabilities, we are among the top suppliers globally.



Images: SSI Schaefer

Sheaves made of cast polyamide have:

- low noise
- low weight
- high wear resistance
- corrosion resistant
- economical production
- maintenance free
- wire rope preserving elasticity



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SHEAVES MADE OF CAST POLYAMIDE:

Longer life for wire ropes!

Application areas: Everywhere less noise, high wear resistance and low maintenance is needed - for example: storage and retrieval systems, gantry cranes, elevators and lifts, cableways, hoists and other similar applications.

Sheaves made of PA 6 G, Oilamid® or Calaumid® 612 are suitable for high loads and have a proven track record over many years. In comparison to steel sheaves, the surface pressure of the rope groove is 10 times less - and the life of your wire rope increases substantially.

And another plus: Sheaves made of cast polyamide dampen and absorb damaging vibrations from the wire rope, and they can extend the life of the bearings and the entire drive unit.



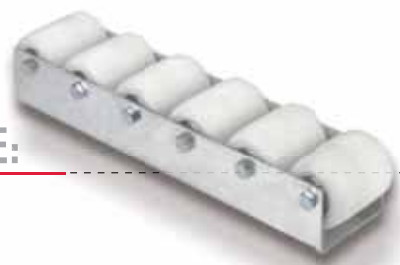
Rollers made of cast polyamide have:

- low weight
- high wear resistance
- quiet running
- protection of the running surface
- good vibration and noise dampening
- corrosion resistant
- economical production
- long service life

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ROLLERS MADE OF CAST POLYAMIDE:

The best protection for your surface!



Application areas: Everywhere quiet running, low weight and economical production are advantageous. **Rollers and guide wheels** in transport vehicles, crane carriages, crane tracks, trolleys, storage and retrieval systems, specialized bulk transport and handling systems and applications with rolling movements. **Pulleys** for vertical conveyors, bucket elevators, trough conveyors and other applications in bulk material handling.

Rollers made of PA 6 G, Oilamid® or Calamid® 612 are wear and corrosion resistant, especially compared to steel rollers. Compared with other thermoplastics, our materials are particularly strong and allow considerably higher loads. Rollers of cast polyamide reduce surface area pressure and protect the running surface.

And another plus: The elasticity of rollers and guide wheels made of cast polyamide guarantees that flat spots developed under static load quickly and reliably disappear. Therefore vibration free operation can be guaranteed quickly after start-up.



20.580

Sprockets and gears made of cast polyamide have:

- good dry-running and emergency running characteristics
- low grinding noise
- good vibration dampening
- high wear resistance
- maintenance free operation
- corrosion resistance
- economical production
- long service life



Image: Nawi



Image: Nawi

Wear pads and guide strips made of cast polyamide have:

- good sliding properties
- good dry-running and emergency running characteristics
- high wear resistance
- corrosion resistance
 - low weight
 - high hardness
 - high elasticity
- largely maintenance free operation after an initial lubrication

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GEARS, SPROCKETS AND GUIDE STRIPS:

More stability for peak loading!

Application areas: Everywhere dry-running or mixed friction occurs, special plastic specific characteristics are required and low production costs are advantageous. Wear pads and guide strips, packaging and filling equipment, bulk transport and conveyor systems, chain guides. Sprockets in vertical conveyors, accumulators, trough conveyors, pipe conveyors, bucket elevators and similar applications.

Gears, sprockets and guide strips of cast polyamide, Oilamid®, Lubramid® and Calamid® generally do not need lubrication and have the highest operational safety even when running dry. All the materials have especially good dampening properties and can therefore absorb vibrations which are damaging to the bearings - the life of your entire equipment is increased considerably.

And another plus: The good elasticity provides for a fast recovery from shock loads, prevents permanent deformation and guarantees a long service life.



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EXACTLY YOUR SOLUTION:

We think with you from the beginning!

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 prototyp for you if required.

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