



BULK MATERIAL HANDLING

fast and economical!



Images: SSI Schaefer

Sheaves made of LiNOTAM have:

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



LICHARZ

SHEAVES MADE OF LiNOTAM:

Longer life for wire ropes!

Application areas: Everywhere where 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 **LiNOTAM** 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 **LiNOTAM** dampen and absorb damaging vibrations from the wire rope, and they can extend the life of the bearings and the entire drive unit.



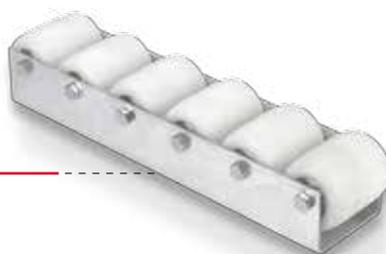
Rollers made of LiNNOTAM have:

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

LICHARZ

ROLLERS MADE OF LiNNOTAM:

The best protection for your surface!



Application areas: Everywhere where quiet running and low weight 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 **LiNNOTAM** 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 **LiNNOTAM** reduce surface area pressure and protect the running surface.

And another plus: The elasticity of rollers and guide wheels made of **LiNNOTAM** 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 LiNNOTAM have:

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

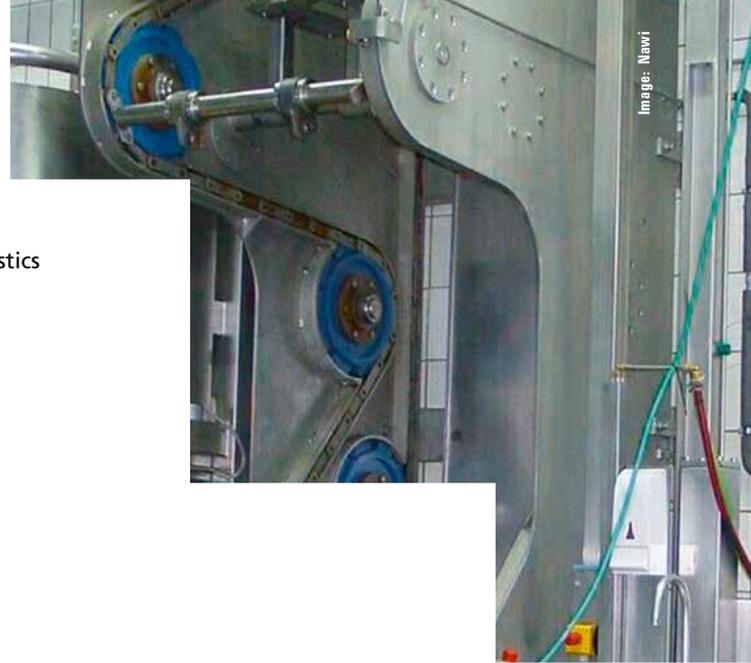


Image: Nawvi



Image: Nawvi

Image: Nawvi

Wear pads and guide strips made of LiNNOTAM 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 where dry running or mixed friction occurs and special plastic specific characteristics are required. 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.

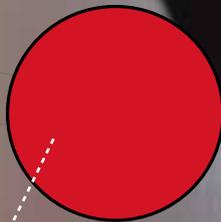
Gears, sprockets and guide strips of **LiNNOTAM**, **LiNNOTAMGLIDE**, **LiNNOTAMHIPERFORMANCE 612** and **LiNNOTAMDRIVE** generally do not need lubrication and have the highest operational safety even when running dry. All the materials have especially good dampening properties and can therefore absorb 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.

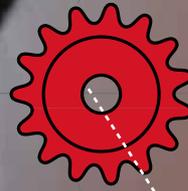


MACHINE COMPONENTS

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.

We have exactly your solution for your application:

- special material grades direct from the manufacturer for your application
- engineering advice
- computer supported calculations and design of your component, from basic calculations to FEA
- from individual components to assembled parts
- comprehensive fire certificates and food contact certificates

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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!