

Wear elements and wear pads made from Lamigamid® 319

When working with mobile cranes, access lifts, telehandlers and many other types of construction machinery, it is particularly important to keep the friction resistances encountered during telescoping as low as possible. To stop friction from blocking you, Röchling Industrial Xanten provides premium high-tech plastics with outstanding sliding properties and high load ratings. The perfect outfit for daily heavy-duty operations.



Wear elements made from Lamigamid® 319

Stick-slip-problem

Stick-slip, also known as backlash, is a form of unwanted behaviour of highly stressed sliding systems in the low speed range. Negative influence at machine parts may become visible on bearings, guides and other machine elements, as well on the material performance. Several factors may cause this.

For example

- missing or incorrect lubricant,
 - an altered surface structure due to wear and tear,
 - or the adhesive behaviour between the friction partners,
- to mention only the most important factors.

Solution: Wear elements made from Lamigamid® jerk-free movement and long life

Sliding elements such as bearing pads, wear plates, sliding guides and wear strips manufactured from Lamigamid® are used in a wide range of installations and machines that operate with sliding movements. The sliding parts are made of self-lubricating plastics with the properties:

- Jerk-free starts: the transition from a standstill in the sliding phase runs fluently and is barely noticeable
- Long lifetime due to high dimensional stability and excellent
- Abrasion resistance
- Good dry-running properties
- Low moisture absorption
- Almost no limits in design and layouts: round and angular variety of shape

The 'jerk' typically felt when a telescopic movement starts disappears almost completely. Those customers who have to control movements smoothly and with precision appreciate this benefit. Long maintenance intervals, due to the high dimensions stability, resilience and the excellent abrasion resistance, will save a lot of time and money. Concerning the shapes: Röchling Industrial Xanten offers you virtually unlimited options in terms of shape and material.

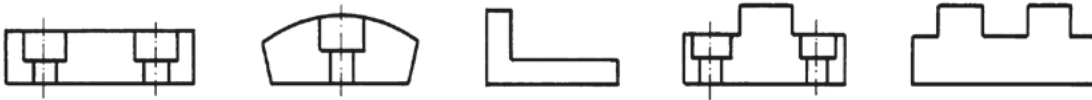
Facts about: Lamigamid® 319

Wear pads made from Lamigamid® 319 have proven themselves in many applications. We are able to achieve a marked improvement concerning the sliding properties by adding an unique combination of fillers and lubricants. Lamigamid® 319 demonstrated not only excellent tribological behaviour in the stick-slip danger area, but reduces friction power loss over the entire speed profile. Visible proof of this is the lower frictional factor which has a positive effect on the wear resistance of Lamigamid® 319 slide components.

The advantages of Lamigamid® 319 for your construction

- Improved sustainability on account of the tribological behaviour of the sliding guides
- Excellent precision positioning of the slide guide thanks to special additives
- Long service life through the good wear and tear resistance
- Also suitable for heavy duty applications
- Wide temperature range -40° C to +60° C
- Very good dimensional stability under stress
- Excellent chemical and corrosion resistance
- Large variety of shapes in the casting process

Our standards

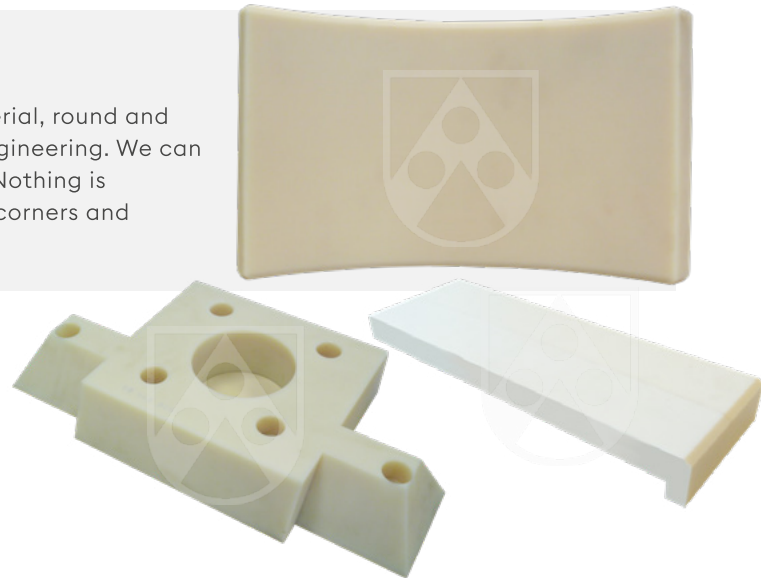


Different designs of wear elements made from Lamigamid®

Made to measure

While flat wear pads can easily be cut out of a block of material, round and angular shapes demand considerably more expertise and engineering. We can produce wear pads in all shapes, exactly as you need them. Nothing is impossible. We bring your sliding movement perfectly round corners and through bends.

Do you want to learn more about our wear elements? Our application engineers are available for consultation and help in selecting the most suitable material. Tell us what you need and we will find the perfect solution for you. Simply send us your drawing and the key data for load capacity, speed, operating temperatures and other relevant information. We will reply promptly with a detailed suggestion for a solution. And by the way: not just for telescopes, but also for all other machine parts where low friction counts.



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