



VER. 1.00

LEADER IN L-PUR® POLYURETHANE PRODUCTS



**L-PUR®
components
for Road Machines**





CEO MARIUSZ LUBAS

About Us

LUBAS is the undisputed leader in the manufacture of polyurethane products. Thanks to its dynamic growth, after 30 years of operation, the company has found itself among global leaders and can boast of having the most extensive product portfolio in Europe.

The enterprise was established in Wieczfnia-Kolonia in the early 1990s by Wiesław Lubas. Shortly, it achieved success and became a pioneer in implementing polyurethane products. It was established as a family business and has remained one until today. Its current CEO is the founder's son – Mariusz Lubas.

The company has a modern mechanical plant in Wieczfnia Kościelna, which consists of several process lines enabling parallel production in multiple departments. Additionally, it has its own polyurethane elastomer foundry staffed by a team of highly skilled and experienced workers. The products manufactured by LUBAS are distinguished by high quality and find application in practically every branch of industry. They are designed to meet all technological requirements of machines and equipment used in heavy industries. What's more, they are tailor made to solve specific customer problems.

Year by year, the company has been strengthening its position in the Polish market and expanding into new international markets. Directly or indirectly, it is currently present in 42 countries on 6 continents. Its products find application i.a. in the rebuilding of the Panama Canal, removing snow from the world's largest airport in New York, and in the operations at the Sierra Gorda copper mine in Chile.

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**No investment year
is a wasted one**

MARIUSZ LUBAS

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What are polyurethanes?

Polyurethanes are becoming more and more important in industry, and their popularity is mainly related to their versatile application possibilities. In addition, products made of polyurethanes are characterised by excellent strength parameters and high performance indicators, and a wide range of properties makes this material very versatile. Polyurethanes remain flexible over a wide range of hardnesses. High chemical resistance and high mechanical properties cause polyurethanes to replace traditional materials such as rubber, metals or ceramics.

The applications for L-PUR® polyurethane are almost unlimited.

L-PUR® polyurethane is a polymer that consists of two raw materials – a polyol and an isocyanate. To produce the polyurethane, they are mixed with additional components – catalysts, crossing agents and stabilisers. When added in the right proportions and subjected to further special processing, plastics with excellent and diverse properties or applications can be obtained. Polyurethane appeared in industry and manufacturing as early as the first half of the 20th century, but has gained its greatest popularity in the last thirty years. Polyurethane is very easy to use and is an interesting alternative to other materials such as rubber, metal, ceramics, as well as concrete and wood.

It can be concluded that polyurethane makes life exceptionally easy. This is because it accompanies us when you drive a car, do training, participate in sports competitions or do daily chores. Polyurethane can also be found in mattresses, refrigerators, rollerblades or cable protection elements.

Advantages of L-PUR® polyurethane:



high abrasion resistance



flexibility



hardness of 45 – 95 ShA



quiet operation

Casting techniques for L-PUR® polyurethane



spraying

A method for applying the abrasion-resistant L-PUR® polyurethane to large and complex surfaces and for protecting steel components against corrosion



mould casting

A method of free casting of L-PUR® polyurethane into moulds, which enables their shape to be accurately reproduced



ribbon-flow casting

Technology of covering shafts with L-PUR® polyurethane using a rotational method that enables production of long castings and even distribution of large polyurethane mass

Features of L-PUR® polyurethane



resistant to hydrolysis

Polyurethane for continuous operation with water and elevated temperatures



resistant to seawater

Polyurethane based on polyester polyols, resistant to seawater



resistant to temperature

Polyurethane resistant to elevated temperatures



resistant to fungi and microorganisms

Polyurethane with addition of a fungicide. It increases the elastomer resistance to microorganisms and fungi that, according to the type of soil and humidity, may cause destruction of the polyurethane over time that consists in the appearance of humus on the surface of the elastomer and a deterioration of its mechanical properties



UV-resistant

Polyurethane with addition of a UV stabiliser, with a temporarily increased resistance to colour change of the elastomer exposed to UV radiation



resistant to high dynamic loads

A heavy-duty polyurethane with very good dynamic properties (on wheels) and temperature resistance



Road machines

We offer the perfect solution in the form of L-PUR® track shoes, which can be used in the following machines:

- Concrete grading machines
- Asphalt milling machines

Our parts perfectly protect both steel track parts and the surface on which the machine operates.

**L-PUR® ELEMENTS
IN ROAD MACHINES**



**SCRAPERS L-PUR®
FOR ROAD ROLLERS**



**BLADES L-PUR®
FOR SNOW PLOUGHS**



L-PUR® ELEMENTS IN CRAWLER MACHINES

We offer an ideal solution – the L-PUR® rubber shoes for tracks that can be applied in following machines:

- asphalt paver milling cutters

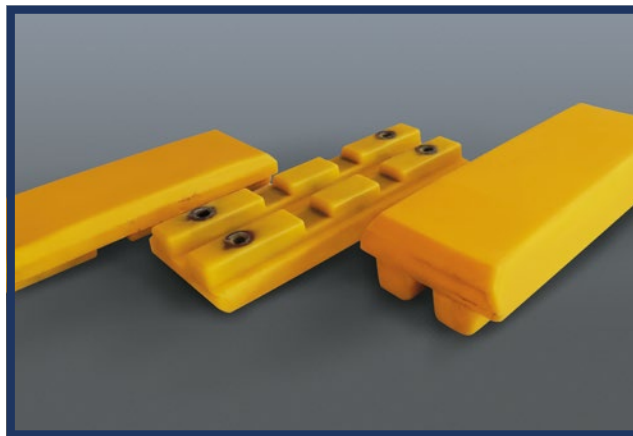
The L-PUR® elements perfectly protect both the steel elements of the tracks and the surface on which the machine operates. Thanks to many years of experience our L-PUR® ensures high resistance to abrasion and fracture resistance.

We manufacture elements for machines of renowned manufacturers:

- Wirtgen
- Caterpillar
- Vögele
- Dynapac and others

The scope of our services includes:

- production of the EASY PAD track shoes from scratch
- recovery based on the steel part of the reinforcement



SCRAPERS FOR ROAD ROLLERS

The L-PUR® road rollers are a perfect solution if the surface of a roller needs to be secured against element sticking. Thanks to its high resistance to abrasion, the L-PUR® scraper does not require frequent adjustments unlike steel and rubber scrapers. Thanks to special modifiers our L-PUR® is prepared for operating in higher temperature.

We supply components such as beams, tapped strips and components reinforced with steel profiles.



BLADES FOR SNOW PLOUGHS

The L-PUR® blades are applied by the following manufacturers: Overaasen, Schmidt, Boschung, Zaugg Ag, Kobit, Hydrog, Dobrowolski and others.

The advantages of our blades:

- high resistance to abrasion
- high mechanical resistance
- applicable for all surfaces hardness
- up to 90 ShA
- resistance to low temperatures down to -40 degrees Celsius.



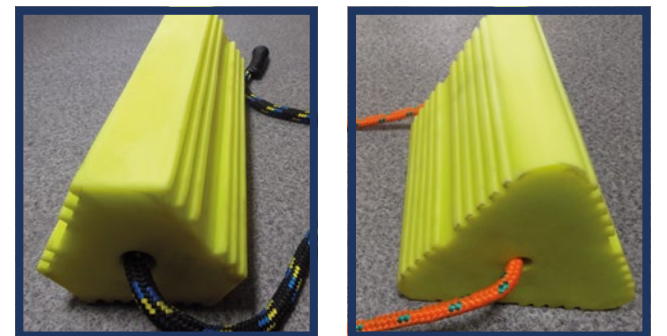
DIFFUSER AND BRUSH PROTECTIVE APRONS

Covers for brushes, diffusers and other elements exposed to abrasion and impacts can be found in our wide offer. The plates may be delivered both as plater to be cut by the customer or in pieces according to the technical requirements.



CHOCKS - PLANE WHEEL SUPPORTS

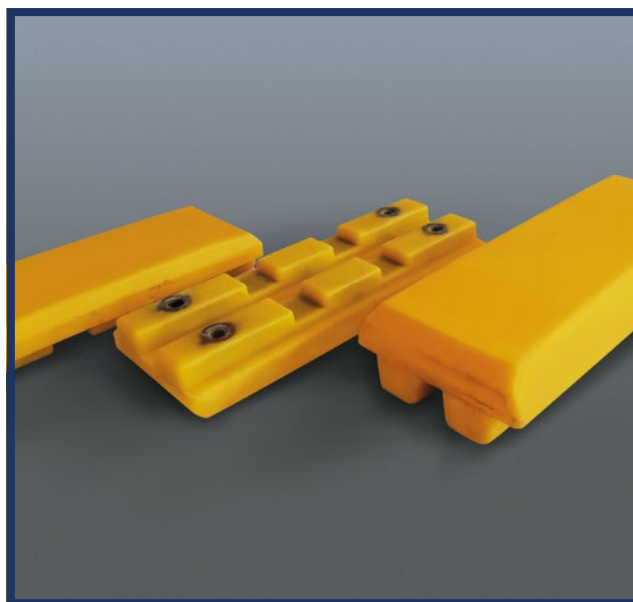
Chocks, used as plane wheel supports, complement our offer for airports. We manufacture them in different sizes from 250 to 750 mm.



COMPACTOR PADS

We manufacture pads for compactors of all manufacturers. Our elements cooperate perfectly with devices and, thanks to high resistance to abrasion, they ensure long and maintenance free operation. We supply elements such as plates of different widths and profiled pads with ferrule. We offer different levels of hardness depending on our customer's needs.





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- Professional consulting backed by **experience since 1992**.
- High quality products with **extended lifespan**.
- The possibility of applying **individual solutions** to the customer's personal needs.
- A reliable partner operating on **42 markets of the world and on 6 continents**.

