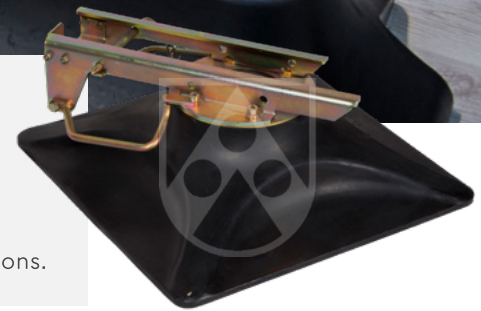


Support plates made from Lamigamid®

While for decades steel was the first choice when it came to the strength and the handling of heavy loads, in recent years components made of high-quality engineering plastics have established themselves. Also in the segment of the support plates and support plate bases, plastics are a successful alternative. Available in various sizes and dimensions, the plastic support plates not only solve the significant weight problem, but also offer a safe and secure handling options.



Support plates made from Lamigamid®

Not only 'heavy materials' can lift high loads

True to the motto 'Only heavy materials can lift high loads', today many mobile cranes, lifting vehicles and construction machines are fitted with support plates made of steel:

- Heavy weights, which highly stress the equipment most of the time (arriving, overnight halts) even before commencing work.
- Where heavy loads are used, deformations of the support plate and, associated with that, a shortened service life are only a matter of time.
- Heavy support plates make the placing and removing laborious, difficult and unsafe or health endangering operation.
- Annoying damage to the surface asphalt or concrete are a result of the use of steel support plates. Lamigamid® plastic parts can avoid these.

Lamigamid® - as light as plastic, as stable as metal

A century of experience in the plastics industry have led to a lot of recipes and opportunities to manufacture various types of material. Lamigamid® 300 and 400 are specially designed for support plates and bases for support plates and have impressive characteristics:

- High shock and impact resistance for maximum stability when moving extremely heavy
- Better handling on account of the lower weight (especially in mobile cranes)
- Simpler and safer assembly and dismantling of the support plates
- Excellent resilience to deformation
- Suitable for high supporting pressures (250-1500kn)
- Corrosion resistance
- No scratching on pavement or concrete floors
- Good value for money with a great performance
- Complete recycling possible

What this means for you: The support plates and bases made from particularly impact-resistant and highly durable Lamigamid® settings are a sure foothold made of plastic. Strong, light and durable compared to steel and other types of metal, they are an economical alternative that, due to their comparatively low weight, not only minimises the workload in assembly and dismantling, but also saves the energy of your employees and reduces fuel consumption of vehicles.

Facts about: Lamigamid® 300 and 400

Generally, the support plates from Lamigamid® 300 or 400 are cast in moulds. Lamigamid® 300 and 400 are elastomer-modified cast polyamides. These support plates can be used at temperatures from -20 °C to +60 °C.

Our standards



Support plate



Support plate



Cribbing plate



Outrigger

Round shapes

ø 280 max. height approx. 150 mm

ø 350 max. height approx. 150 mm

ø 400 max. height approx. 150 mm

ø 500 max. height approx. 220 mm

ø 550 max. height approx. 152 mm

ø 600 max. height approx. 200 mm

ø 700 (30°) max. height approx. 300 mm

ø 700 (26°) max. height approx. 240 mm

ø 800 max. height approx. 230 mm

Angular shapes

450 x 450 max. height approx. 240 mm

542 x 542 max. height approx. 200 mm

600 x 600 max. height approx. 200 mm



Reachstacker © Liebherr 2016

Reachstacker LRS 545

The Reachstacker support plate has a dimension of 2040 x 520 mm, with a height of 189 mm and a 'light-weight' of only 135 kg. For comparison, the same part made of steel would weigh just under a ton. It is conceivable that such steel giants - compared to the plastic solution - have an impact on the vehicle axles and on fuel consumption. For oversized polyamide support plates that are installed for example in the Liebherr Reachstacker LRS 545, the casting technology is a particular challenge. Röchling Industrial Xanten is able to optimize the process so that support plates can be cast in maxi sizes.

Do you want to learn more about our support plates and bases for support plates? Our application engineers are available for consultation and help in selecting the most suitable material.

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