

MATERIALS HANDLING

OUR CLIENTS





High-quality wheel materials for your applications

The more diverse and challenging the areas of application of our wheels and castors, the broader the range of wheel-tread materials we offer. One area of focus is our polyurethane elastomers, all of which are produced by a hot-casting process. These are non-marking and they stand out for their low starting and rolling resistance, high dynamic load capacity, and good abrasion and tear propagation resistance.

We also offer a wide range of wheel-treads made of thermoplastic polyurethane, polyamide and rubber. These are particularly suitable for industrial castors used in factory environments for the internal transport of goods in indoor and outdoor areas.









VULKOLLAN® is a highly elastic, crosslinked polyurethane elastomer based on Desmodur[®] 15. Wheels and castors made from VULKOLLAN® have a long service life and can support heavy loads at a high speed. Their excellent mechanical properties include high dynamic load capacity, high abrasion resistance and tear propagation resistance, the highest modulus of elasticity of all elastomers, high mechanical wear resistance, high impact resilience and low compression set.

VULKOLLAN[®] 95° Shore A

VULKOLLAN[®] 95° Shore is a highly elastic polyurethane elastomer based on Desmodur[®] 15 for demanding and dynamic areas of application. The excellent mechanical properties of the material include a long service life, very high dynamic load capacity, very high abrasion resistance and wear propagation resistance, very high mechanical wear resistance and very low compression set.

PEVOPUR®

PEVOPUR[®] is a high-quality polyurethane elastomer which offers good dynamic load capacity, high elasticity, good mechanical wear resistance and good compressive set characteristics. PEVOPUR® is also significantly more resilient than rubber. This makes the material especially suitable for applications involving medium loads and moderate speeds, and it is ideal for use in tropical climates.

VULKOLLAN® 93° Shore A / HYDROLYSIS-STABILISED VULKOLLAN®

For applications in tropical environments, we recommend VULKOLLAN® hydrolysis-stabilised.

Areas of application:

- Electric monorail systems
- Lifting equipment
- Turntables

We recommend VULKOLLAN® 95° Shore A for use in the transport of very heavy loads and at high speeds.

Areas of application:

- Heavy-duty electric monorail systems
- Stacker cranes and retrieval units
- Automated small parts warehouses

Areas of application:

- Skid idlers
- Push skid systems

Excellent materials for the best products



PEVODYN®

PEVODYN® is a new high-quality polyurethane elastomer that we have developed with a long service life, offering significantly reduced starting and rolling resistance, high dynamic load capacity and high energy efficiency. Therefore, the material is particularly suitable for intralogistic applications involving the transport of large loads at a high speed. Thanks to its hydrolysis resistance, $\mathsf{PEVODYN}^{\circledast}$ is ideal for use in tropical climates.

where care is needed. And with its hy-

drolysis resistance, the material is ideal

• Automated small parts warehouses

for use in tropical climates.

Areas of application:

• Shuttle systems

Areas of application:

• Electric monorail systems

• Lifting equipment



PEVOTHAN®

PEVOTHAN® is a high-quality thermoplastic polyurethane elastomer with excellent characteristics, including non-marking properties, high abrasion resistance, good damping power, loading capacities of up to 500 kg and temperature resistance of between -20°C and +80°C. PEVOTHAN® is also widely resistant to diluted acids and alkalis as well as mineral greases and oils. Thanks to these properties, PEVOTHAN® is superior to all



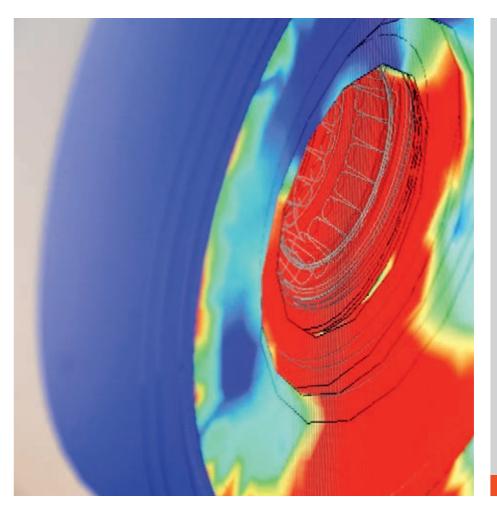
PEVODYN®-Soft

PEVODYN®-Soft 78° Shore A is a new high-quality polyurethane elastomer that we have developed with high dynamic load capacity and significantly reduced starting and rolling resistance. The excellent mechanical properties of the material include high cutting, tearing and abrasion resistance as well as high energy efficiency. Thanks to its good noise reduction and vibration damping, PEVODYN®-Soft is particularly suitable for the transport of medium loads at high speeds on surfaces

PEVOLON®

PEVOLON[®] is a thermoplastic material based on polyamide that stands out for its non-marking properties, good chemical resistance, high abrasion resistance, low rolling resistance and a high load capacity of up to two tonnes. Furthermore, the material is very resistant to heat and cold (-40°C to +90°C), although the load capacity is reduced for temperatures above 35°C.

- Areas of application: • Push skid systems
- Electric monorail systems
- Wet area systems



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normal rubber wheels and is particularly recommended for sensitive surfaces.

Areas of application:

- Electric monorail systems
- Shuttle systems

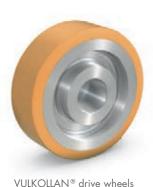
PEVOTEC[®]

Behind the name PEVOTEC[®] is an extensive range of special polyurethane elastomers that can be used under extreme operating conditions. Depending on the task at hand, we develop the ideal wheel material for you on this basis by adapting the chemical and physical properties to suit your requirements.

Disruption-free in continuous operation

Wheels for electric monorail systems

Safety at a higher level Wheels for lifting equipment



Series 178 A/173/173 A





Our wheels and castors for electric monorail systems (EMS) have proved their worth in

production and distribution logistics around the world. When it comes to driving,

wheels and castors ensure problem-free operation.

bearing loads and guiding equipment on rails, we offer a comprehensive range of

high-quality, high-performance products. From the transport of light and heavy goods to complete vehicles in the final stages of assembly in the automotive industry, our

VULKOLLAN® guiding wheels Series 173



PEVOLON[®], PEVOTHAN[®] and PEVOTHAN[®] HD guiding wheels Series 130 PA/130 PU/130 PU HD



VULKOLLAN[®] load wheels Series 173



VULKOLLAN[®] load wheels Series 178













VULKOLLAN® guiding wheels Series 178



VULKOLLAN® guiding wheels Series 178

In lifting equipment for the automotive industry and distribution logistics, our wheels guarantee safe and quiet vertical transport between different levels. Thanks to their high strength and durability, they are especially suitable for car body manufacturing.

Turning with precision Wheels for turntables

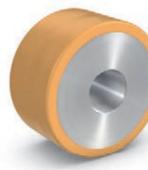
Autonomous in all areas Wheels and castors for automatic guided vehicles



car body manufacturing.

Series 173

10



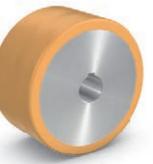
VULKOLLAN® drive wheels

In turntables for the automotive industry and distribution logistics, our wheels rotate and pivot to guarantee the safe movement of transported goods from one direction to

another. Thanks to their high strength and durability, they are especially suitable for

Series 173





VULKOLLAN® drive wheels

Series 173 A



VULKOLLAN[®] load wheels Series 178





VULKOLLAN®/TRACTOTHAN® drive wheels Series 172/172 T

VULKOLLAN®/TRACTOTHAN® drive wheels Series 172/172 T

Our wheels and castors are used around the world by all the major manufacturers of automated guided vehicles. Thanks to our comprehensive range of wheel-tread materials, each of which features specific properties, we can optimise our drive wheels to suit your area of application. We also provide rigid and spring-loaded support castors with special bearings located in both the housing and the wheel to meet specific requirements.











VULKOLLAN® support castors Series 195/195 D

PEVOPUR[®] support castors Series 191/191 D

Precise, flexible transport

Wheels for shuttle systems

Highly dynamic and reliable Wheels for stacker cranes and retrieval units and automated small-parts warehouses





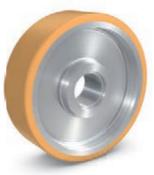
VULKOLLAN[®] / PEVODYN[®]-Soft drive wheels Series 173/173 PD-S/181/181 PD-S

PEVOTHAN[®] drive wheel and axle unit Series 89 PU

VULKOLLAN[®]/PEVODYN[®]-Soft drive and guiding wheels Series 173/173 PD-S/181/181 PD-S

From distribution centres to cold storage, we can provide the right solution for any shuttle application. Our portfolio includes everything from guiding wheels to complete drive units with axle shafts and bearings – a complete range of reliable, high-quality products.





VULKOLLAN[®] drive wheels Series 173

VULKOLLAN® load wheels Series 173

Stacker cranes, retrieval units and automated small-parts warehouses are designed to allow the quick, reliable handling of goods 24 hours a day, 365 days a year. Our wheels ensure problem-free operation and maximum safety, even at extremely high speeds with rapid acceleration.









VULKOLLAN[®] load wheels Series 178



VULKOLLAN® drive wheels with axle Series 178 A/173 A

Flexible internal transport

Castors for transport carts

Reliability on rails Wheels for rail conveyor systems





PEVOPUR[®] industrial guiding castors Series 223

PEVOPUR[®] heavy-duty guiding castors Series 191

For use on transport carts, trolleys and tugger trains in areas such as the automotive industry, we offer a comprehensive range of swivel and fixed castors with a large selection of wheel-tread materials. These ensure safe transport even for heavy loads and provide a convincing solution for demanding applications, thanks to their superior performance.

PEVOPUR® heavy-duty

guiding castors Series 195



PEVOTHAN® industrial guiding castors with spring-loaded directional locks Series 51 PU/NI



C45 drive wheels with VULKOLLAN® tread Series 173



C45 double-flanged wheels Series 105

or VULKOLLAN®.







C45 single-flanged wheels Series 107



PEVOLON® double-flanged wheels Series H

For rail conveyor systems in all areas of industry, we supply flanged wheels, guiding wheels and drive wheels from PEVOLON®, steel and cast iron. For special requirements, we also produce flanged wheels where the tread is coated with PEVOPUR®



RÄDER-VOGEL

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