



- family owned company, located in Tielt (Belgium)
- more than 55 years of experience
- in-house design, engineering & production
- global customer base in material handling-, machinery- and theme park industry







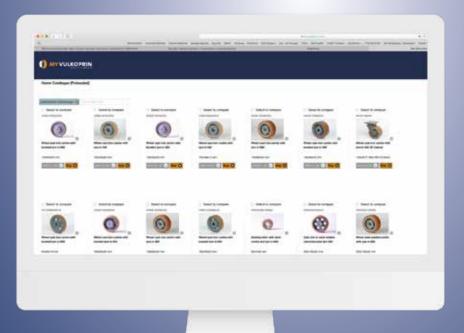


Index

4	Intro
6	Polyurethane industrial wheels
10	Drive wheels
-	Guiding rollers
	Pallet roller and Press-on tyre
18	Nylon industrial wheels
22	Rubber industrial wheels
24	Stainless steel wheels
28	Wheels glass industry
30	Equipment wheels
34	Technical molded parts

https://www.vulkoprin.be









QUALITY LABELS

Download





VULKOLLAN® is one of the most powerful elastomers in the market. The excellent mechanical properties ensure a maximum dynamic load capacity and a long service life, even in difficult and demanding conditions. The ultra-high-performance elastomer can only be manufactured by Covestro licensed.



Printhane™ is the generic name of the **polyurethane elastomers** developed by Vulkoprin for specific applications.

- Printhane-B™ is a polyurethane developed primarily for technical applications or in wheel applications that require more grip.
- Printhane-C[™] is conductive Vulkollan® and meets the standards EN12527 through EN12533. It finds application in environments with a higher risk of explosion, fire or electrostatic discharge (ESD).
- Printhane-R™ is a rigid polyurethane for use in applications that require thick-walled plastic parts that shows a high impact-resistance and elasticity and who are non-deforming. This material is a great alternative to parts in milled engineering plastics (polyamide, POM, ...).
- Printhane-X[™] has been developed specially for applications with high speeds, which means it is well suited for all amusement park- & roller coaster applications.



Printhopan® is a thermoplastic polyurethane. The elasticity of the Printhopan® TPU ensures that the guiding roller is silent, very durable and resistant to oil and grease.



Easyroll™ is a super elastic rubber in 65 Shore A.

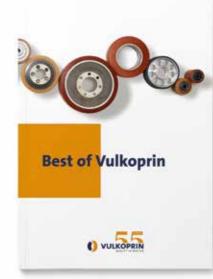




























Polyurethane industrial wheels





PLUR



















100-300 kg

80-200 mm

Wheel with tread in TPU mounted in a pressed steel castor with top plate or bolt hole fixation

WKGK





WKGK PMMS









WKGK PMCS







175-300 kg

200 mm

Wheel with elastic vulcanised PUR mounted in a pressed steel castor with top plate or bolt hole fixation

WKGK



















Wheel with elastic casted PUR mounted in a pressed steel castor

APPLICATIONS













DID YOU KNOW THAT

we offer heavy duty wheels with footguards













pressed steel twin castor with top plate fixation





6400 kg





Polyurethane industrial wheels





VKEK VKBK









200-500 kg

100-300 mm

Wheel with elastic tyre made of Vulkollan® mounted in a solid pressed steel castor with top plate or bolt hole fixation

VKBK







UKNR











1200 kg

250 mm

Wheel with elastic tyre made of Vulkollan® mounted in a heavy duty pressed steel castor with top plate fixation

VKBK















2700 kg

400 mm

Wheel with elastic tyre made of Vulkollan® mounted in a heavy duty steel welded castor with top plate fixation

VKLK

VKBK







MMGM







175-1200 kg

Wheel with elastic tyre made of Vulkollan® mounted in a heavy duty steel welded castor with top plate fixation

Wheel with elastic tyre made of Vulkollan® mounted in a heavy duty steel

Double wheel with elastic tyre made of Vulkollan® mounted in a solid

VKHK





VKLK

MMG



welded castor with top plate fixation and high load capacity





3000 kg

500 mm

VKXK







9200 kg

Wheel with elastic tyre made of Vulkollan® with a steel welded wheel center and by consequence a very high load capacity



APPLICATIONS

















Drive wheels













450-1800 kg

50-80 mm

250 mm

Wheel with elastic tyre made of Vulkollan® with a cast iron wheel center with a plain H7-bore or with a keyway









175-1200 kg



50 mm







Wheel with elastic tyre made of Vulkollan® with a cast iron wheel center with a plain H7-bore or with a keyway









350-1200 kg

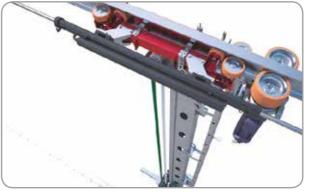
50 mm

300 mm

Wheel with elastic tyre made of Vulkollan® with a cast iron wheel center with a plain H7-bore or with a keyway



















APPLICATIONS







Drive wheels



















575-1900 kg

100-400 mm

Wheel with elastic tyre made of Vulkollan® with a cast iron wheel center with a plain H7-bore or with a keyway













1000-3000 kg

500 mm

Wheel with elastic tyre made of Vulkollan® with a cast iron wheel center with a plain H7-bore or with a keyway





VKXS







2700- 130-9200 kg 200 mm

Wheel with elastic tyre made of Vulkollan® with a cast iron wheel center with a plain H7-bore or with a keyway













APPLICATIONS

















Guiding rollers





WUDP









260 kg

25 mm 100 mm

Guiding roller with tread in Printhopan® injected polyurethane on precision ball bearing (ZZ or 2RS)

VKRK



VKRK









25-260 kg

25 mm

125 mm

Guiding roller with tread made of Vulkollan® on precision ball bearing (ZZ or 2RS)

PGZK









200 kg

30-32 mm

Guiding roller with tread made of Printhalon® (6PLA) on precision ball bearing (ZZ or 2RS)















Pallet roller and Press-on tyre





PGSK









10000 kg

40-110 mm

100-400 mm

Pallet roller with tread made of Printhalon® (6PLA) on precision ball bearing (ZZ or 2RS).





VKTK









840 kg

138 mm

Palletroller with tread made of Vulkollan® on precision ball bearing (ZZ or 2RS). Steel center, nylon or metal sealing.





PLTK







650-1100 kg

60-110 mm

Pallet roller with tread made of Printhalon® (PA6) on precision ball bearing (ZZ or 2RS). Light polyamid sealing.

APPLICATIONS













325-22200 kg

50-406 mm

Cylindrical steel rim with tyre made of Vulkollan®. Flat (FL) or profiled (GL)









DID YOU KNOW THAT









Nylon industrial wheels



PLVG PLVR





















175-300 kg

80-200 mm

Wheel in high quality polyamide PA6 on roller bearing mounted in a pressed steel castor with double ball race

PLVG PLVR





PLVG NKS



PLVG NKSS













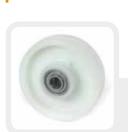




450 kg 250 mm

Wheel in high quality polyamide PA6 on roller bearing mounted in a pressed steel castor with double ball race

PLVK





PLVK NKS





PLVK NKSS





PLVK NVS





250 mm



Wheel in high quality polyamide PA6 on precision ball bearing mounted in a pressed steel castor with double ball race

APPLICATIONS





















Nylon industrial wheels



PLLK



PLLK MMH









225-750 kg

80-200 mm

Wheel in high quality polyamide PA6 on precision ball bearing mounted in a heavy duty steel welded castor with double ball race

PLLK











1500 kg 200 mm

Double wheel in high quality polyamide PA6 on precision ball bearing mounted in a heavy duty steel welded twin castor with double ball race

PLSK













700-1200 kg

125-250 mm

Wheel in high quality polyamide PA6 on precision ball bearing mounted in a heavy duty pressed steel castor with double ball race

PLSK



PLSK MMH









600-1000 kg

250 mm

Wheel in high quality polyamide PA6 on precision ball bearing mounted in a heavy duty steel welded castor with double ball race

PLSK









1200-

2400 kg 250 mm

Double wheel in high quality polyamide PA6 on precision ball bearing mounted in a heavy duty steel welded twin castor with double ball race









Rubber industrial wheels



easyroll

RBSG RBSR

MYVULKOPRIN













80-200 mm

Wheel with semi-elastic rubber tyre mounted in a pressed steel castor with double ball race

RGVR







FJMS











350 kg 200 mm

Wheel with elastic vulcanised tyre in rubber mounted in a pressed steel castor with double ball race

EGVR











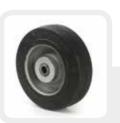
100-

300 kg

200 mm

Wheel with elastic vulcanised tyre in Easyroll ™ rubber mounted in a solid pressed steel castor with double ball race

ENAY ENAK











200 mm

Wheel with elastic vulcanised tyre in Easyroll ™ rubber mounted in a solid pressed steel castor with double ball race. Wheel pressed steel center. Cone ball bearings or precision ball bearings

ENGK











PMCS



175-300 kg 100-200 mm

Wheel with elastic vulcanised rubber tyre mounted in a pressed steel castor with double ball race. Aluminium centre

ENGK





ENAY NKS

ENGK









500 kg

250 mm

Wheel with elastic vulcanised rubber tyre mounted in a heavy duty pressed steel castor with double ball race. Aluminium centre

ENFK











700 kg

300 mm

Wheel with elastic vulcanised tyre in Easyroll ™ rubber mounted in a heavy duty steel welded castor with double ball race. Wheel pressed steel center. Precision ball bearings









Stainless steel wheels



90-100 kg

RTWK



Wheel with thermoplastic rubber tyre mounted in a pressed stainless steel castor with double ball race. Polypropylene centre.

RTFK



Wheel with thermoplastic rubber tyre mounted in a pressed stainless steel castor with double ball race. Polypropylene centre.

RTFK



Wheel with thermoplastic rubber tyre mounted in a pressed stainless steel castor with double ball race. Polypropylene centre. Expander fitting for round tube.

APPLICATIONS















Stainless steel wheels

RGVS













75 kg

75 mm

100-200 mm

Wheel with elastic vulcanised tyre in rubber mounted in a pressed stainless steel castor with double ball race

PLWG



Wheel in high quality polyamide Printhalon® PA6 mounted in a pressed stainless steel castor with double ball race

PLVG PLVS



Wheel in high quality polyamide Printhalon® PA6 mounted in a pressed stainless steel castor with double ball race

PLVK









200 mm

Wheel in high quality polyamide Printhalon® PA6 mounted in a pressed stainless steel castor with double ball race

PLSK







700-1200 kg 200 mm

Wheel in high quality polyamide Printhalon® PA6 mounted in a heavy duty pressed stainless steel castor with double ball race on 2RS precision ball bearings

PLUS







IMC





250 kg 125 mm

Wheel in injected polyurethane TPU mounted in a pressed stainless steel castor with double ball race

HPGG













300 kg 200 mm

Heat resistant synthetic wheel in phenolic resin mounted in a pressed steel castor with double ball race









Wheels glass industry



RBGL RBGR







20 kg

35-50 mm

Ball castor in elastic natural rubber. For transport tables in the glass industry













50 mm

Ball castor in Printhopan® injected polyurethane. For transport tables in the glass industry





RBIL RBIR

Stainless steel ball castor in natural rubber injected polyurethane. Used for transport tables in the glass industry







WKIL

Stainless steel ball castor in Printhopan® injected

polyurethane. For transport tables in the glass industry



20 kg



35-50 mm

RHGL



RHGL



Heat resistant ball castor in elastic rubber. For transport tables in the glass industry

RBCL



RBCL

Drive wheel for conveyor belts in elastic natural rubber





75-150 mm



VKPG



57 mm

Glass transport roller with tyre made of Vulkollan® with centre in cast polyamide

APPLICATIONS















Equipment wheels

60-

100 kg

100 kg

75 mm

75 mm

RTSG



Wheel with tyre in thermoplastic rubber mounted in a pressed steel castor with double ball race. Polypropylene centre

RGGK



Wheel with tyre in elastic rubber mounted in a pressed steel castor with double ball race. Polyamide centre

RTFK



Wheel with tyre in thermoplastic rubber mounted in a pressed steel castor with double ball race. Polypropylene centre

PLNG











50 kg 75 mm

Wheel in high quality polyamide Printhalon® PA6 mounted in a pressed steel castor with double ball race

PLNG





60-100 kg 75 mm

Wheel in high quality polyamide Printhalon® PA6 mounted in a pressed steel castor with double ball race

STW







50 kg 40 mm

Twin wheel in injected polypropylene on plain bearing

WLUG













31

50 mm

Wheel with tread in injected polyurethane mounted in a pressed steel castor with double ball race. Polyamide centre









Equipment wheels



RTSG





AJUS









75 kg



75 mm

Wheel with thermoplastic rubber tyre mounted in a pressed steel castor with double ball race. Polypropylene centre

RGGG RGGK





AJUS











60 kg

75 mm

Wheel with elastic rubber tyre mounted in a pressed steel castor with double ball race. Polyamide centre

RGCK















100 kg 125 mm

Wheel with elastic rubber tyre mounted in a pressed steel castor with double ball race. Polyamide centre

RTFK











100 kg

Wheel with thermoplastic rubber tyre mounted in a pressed steel castor with double ball race. Polypropylene centre. Expander fitting for round and square tube

THE PERFECT WHEEL CHOICE

Wheel & Castor

A wheel is made out of a tread tyre, rim and wheel bearing. It's that simple. A wheel becomes a castor by installing the wheel in a housing. Depending on the type of housing, the result is a swivel castor or a fixed castor. The swivel castors can be rotated thru' 360° by using a ball bearing-mounted swivel bearing, ensuring good manoeuvrability. The fixed castors, in contrast, cannot rotate and are fixed in place, and ensure good directional stability. In most cases, 2 swivel castors and 2 fixed castors are affixed.

Bearing

Plain bearing

Simple, largely maintenance-free bearing. Shock- and impact resistant. Suitable for use in damp environments. For low-speed devices (max. 4 km/h) and for short distances.

Ball bearing

Sturdy, hardwearing, largely maintenance-free bearings. Low bearing friction. Shock- and impact resistant. Permanent lubrication. The most frequently used bearings for low-speed devices (max. 4 km/h). Smoother rolling compared to plain bearings.

Precision ball bearing

For speeds of up to 20 km/h and heavier loads. Low rolling resistance when in use.

The choice of wheel and castor primarily depends on:

How much does a wheel/castor has to carry?

- The load of a castor can be calculated using the following rule of thumb:
- load = (inherent weight + max. load)/3
- It is divided by 3 because on uneven flooring, even an item of equipment with 4 castors will only have 3 castors in contact with the floor, and these 3 then carry the full weight.
- This is a very general way to determine the loadbearing capacity. Ask your supplier for a detailed calculation.

1. The loadbearing capacity required

The load capacities specified in our product range for wheels and castors apply for speeds of up to 4 km/h and an ambient temperature of 10°C to 60°C.

2. The floor conditions

Is the floor rough or smooth? Is the floor covered in tiles, concrete, or is it heavy-duty industrial flooring?

In general, on smooth industry floors, you can use harder wheels (thin tread) while, on rough industry floors, soft wheels (thick tread) are better performing.

Choose non-marking castors if you wish to avoid leaving rubber tread marks. If there are ground sills, extra loadbearing capacity must be

Choose wheels with plain bearings and a stainless steel housing in food production areas or on wet surfaces.

3. The frequency of use

Is the equipment moved only on occasion, or all the time?

4. Environmental factors (temperature, including temperature fluctuations, chemicals, moisture and hygiene requirements)

Every site of use involves specific requirements. Moisture, cold, heat, temperature fluctuations, electrical conductivity and chemicals all affect the durability, rolling properties or the smoothness of motion.

5. Comfort

You can also choose the required level of comfort and smoothness. The material of the wheels determines the rolling properties and ride

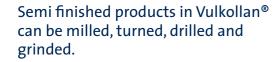
- Solid rubber rolls smoothly and silently. The strength and load capacity are limited however.
- Polyamide is shock- and impact resistant, chemically resistant and hardwearing. On the other hand it is a non-elastic material.
- Polyurethane is extremely wear resistant, noise absorbing and has excellent rolling properties thanks to its elasticity.

6. Specific dimensions such as wheel diameter, overall height and hub length, or plate sizes and assembly hole spacing for castors

TECHNICAL MOLDED PARTS



Elastic coupling in Vulkollan®. Large stock.







Capping rings, cutting bars, cylinder linings and tension rollers in Vulkollan®.

Plate material Printhane-D™ 70-80-90 sh A. Large stock and fully customizable.





Cast pieces in Printhane-R™. The ideal solution for turned or milled parts in PA or other plastics.

Bumpers, positioning pieces, lifting arms etc. made of Vulkollan®.





Scrapers, mixing blades, guards, wear plates, seperators, etc. in Printhane-B™ 85 sh A.







DID YOU KNOW THAT

OFOR

35

we offer customized wheel solutions, also in smaller number

34



Material handling industry

Theme park industry





Machinery industry

Maintenance and repair





