

Riazzino, 8th July 2024

## Press Release PR-31

About the properties of avancon rollers

### *The right Avancon Roller Conveyor for your needs!*

Avancon conveyor rollers, made from durable polyamide and polyurethane, handle various surfaces and loads with ease. They reduce noise, resist abrasion, and gently transport sensitive items. Unlike traditional steel rollers, Avancon rollers maintain their appearance and function over time. Designed for flexibility, they efficiently transport goods of different sizes, making them ideal for diverse industrial applications.



Look at the load on these roller skates. - Estimate what these rollers must bear and how long these wheels will last.

Consider the high speed and the different surfaces they ride on, sometimes asphalt, sometimes concrete, sometimes tiles, sometimes just earth or even cobblestones! Abrasion, breakage, wear and tear? - Nothing like that. These rollers can take it all!

So are the conveyor rollers from Avancon - with tires from the same polyurethane.

The core of the Avancon rollers is made of a special polyamide in a light grey color and the firmly over-molded tires are made of Polyurethane in a middle grey color.

Here are the benefits for You:

1. The softer surfaces of polyurethane for any environment where noise needs to be reduced.
2. For upward and downward transport, because these softer tires are practically the same as the belt materials of conveyor belts. But if you need to replace a belt or the motor - it only takes minutes instead of hours!
3. These rollers are used as well in the Avancon OTU rollers ("Omnidirectional Transfer Units") where abrasion is required. No matter how often these rollers rotate under the various goods, they do not wear out when they are turned in a different direction. Due to the easy glide and abrasion properties of polyurethane, these Avancon rollers are incredibly durable and last forever.

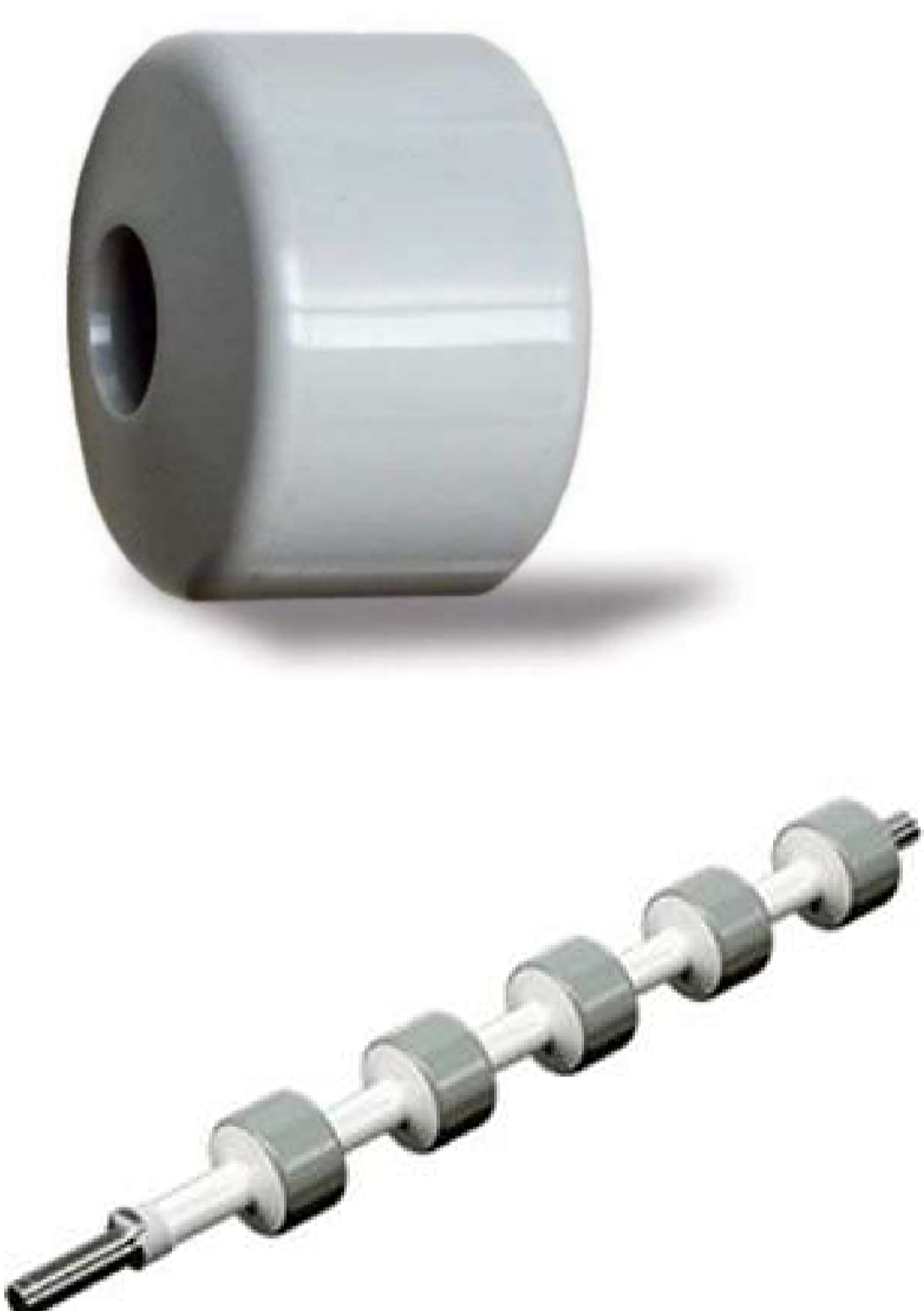


4. Avancon offers polyurethane tires with rings on the outer surface for transporting very sensitive goods during the production and assembly process. These rings only touch the conveyed goods very gently and softly during transportation of glass, lacquered furniture, TV screens, solar panels and similar products.

The overall application and Roller combination compensates for the higher price of these rollers in most cases. There are so many good reasons to use this Avancon specialty.

So far most existing roller conveyors on the market use rollers made of galvanized steel tubes. But beware, the galvanizing does not last very long. When the galvanizing is worn on the goods that are to be transported, the roller tube looks bad and is partially rusty - depending on the humidity.

General, as standard we deliver the exceptional roller-corpus of the Avancon conveyor rollers made of special polyamide, which also offer durability, smooth operation and noise reduction.



Regardless of the specific version chosen, all share the same design. The polyamide versions come in a medium grey color that ensures longevity without wear and maintains its original appearance. Even if they accumulate dust from transported goods over time, they can be easily cleaned with a diluted, commercially available detergent.



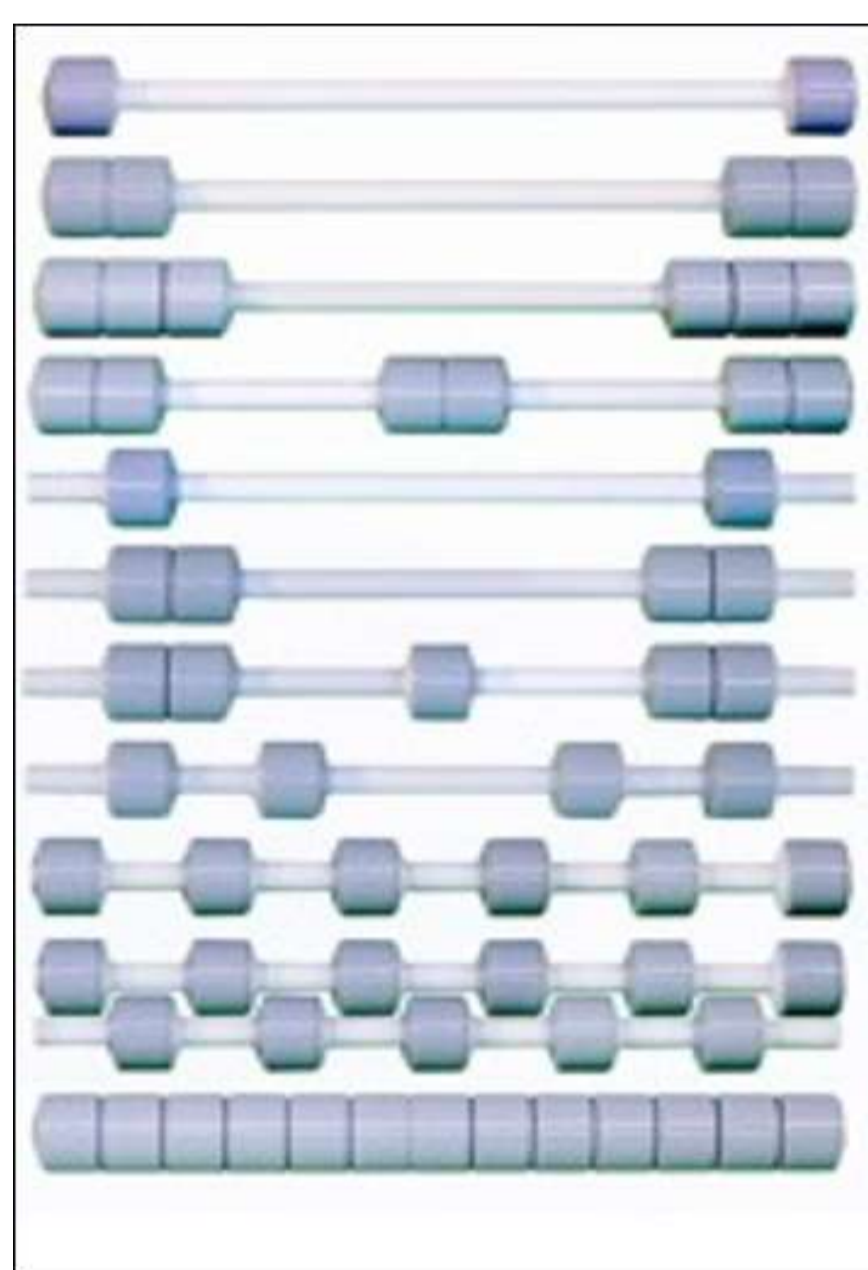
The entire construction, the spindle, the precision ball bearings and the drive system together determine the load capacity of the entire roller conveyor zone, of max. 50 kg per zone. The rollers are equipped with ribs on the inside. We have adopted this idea from BIONICS (see picture)

The surface of all Avancon rollers is shiny and smooth with rounded edges, easily gliding and abrasion resistant. Whether the goods are made of cardboard, plastic, or steel, can be pushed easily and wear-free over a roller conveyor surface.

As in picking lines as well as in the security area of airports before and after the X-ray machines

All Avancon conveyor rollers have 3 ribs in the holes to create a firm connection with the rotating spindle of 15 mm diameter, which has 3 notches (fixed drive). Or the Avancon rollers have a round bore, which sit loosely on the spindle and work like friction drive rollers or partly for curves (instead of tapered rollers) in combination with fixed drive rollers or in applications that require low dynamic pressure.

Depending on the application where you need different sizes of goods. It is possible to install them with spacer in a pitch of only 40 mm offset, for goods of only 120 mm in length. With these combinations, you can transport all dimensions of goods mixed, by avoiding the use of additional smaller roller diameters. You get a high degree of flexibility when you use the Avancon Roller Corpus Concept. Depending on the base and shape of the boxes, you can save a lot of money by choosing the right combination of rollers.



This example shows an application with only 3 roller corpuses on both sides, when all boxes have the same shape and dimensions, as is usual in internal logistics. We help you choosing the right Avancon roller conveyor for your specific needs.

Did you expect so many advantages and flexibilities of the Avancon Roller Conveyor?

You can quickly get lots more information, photos and application videos by finding out more about: <https://www.avancon.com/roller.html>

About Avancon: Avancon is a renowned leader in providing innovative conveyor solutions that prioritize simplicity, efficiency, and reliability. With a comprehensive range of conveyor concepts for systems catering to various industries, Avancon aims to reshape the conveyor market and drive optimized productivity while reducing operational costs. Avancon products are available through conveyor producers or integrators.

#### For the editors:

- You can download **this report in PDF format** as well as photos in 300 dpi for printing or for the Internet as \*.jpg format in 72 dpi from our website at: <https://www.avancon.com/press.html> -> **PR-31**

- If you have any questions, please contact: [media@avancon.com](mailto:media@avancon.com)

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- Without title, footnote and abstract, this report has 780 words and 4750 characters (including spaces)