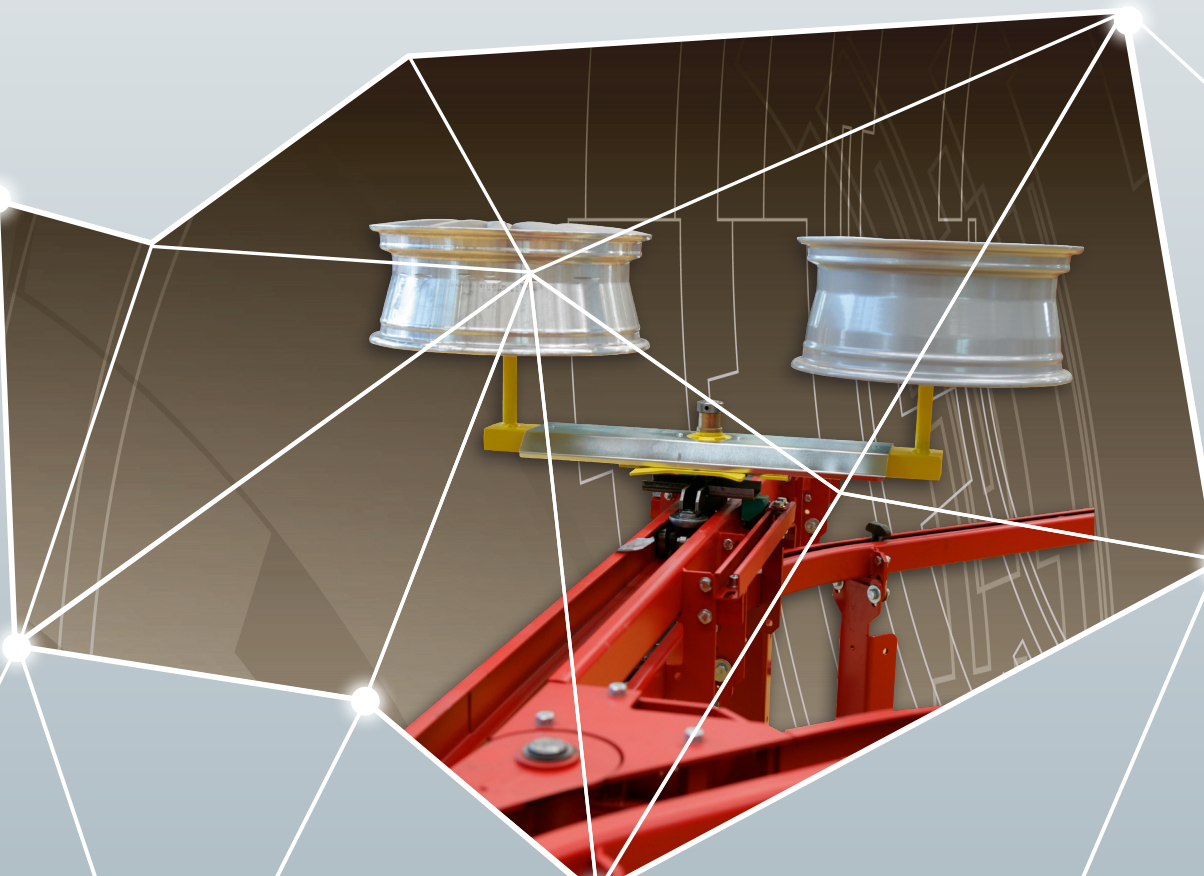


Inverted Power & Free

Floor conveyor for light loads
in the coating process





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The best of all worlds

This system combines the advantages of floor-mounted circular conveyors, multi-track spindle conveyors and skid conveyors with the benefits of conventional overhead power and free conveyors. Although it is extremely versatile, it requires fewer drives and control components. The compact dual-rail system can be integrated within or adjacent to coating lines, and saves space and electricity. The concept can be applied in the context of both wet and powder coating. For higher workpiece arrangements and larger loads, a rail bracket is added and the goods carrier is force centred on the outrigger. This optimizes the positional accuracy, e.g. for automatic coating processes.

Variable operating modes and speeds

The functional fast transfer from chain to chain increases the flexibility of painting plants compared to plants with conventional circular conveyors, as different conveying speeds are possible depending on the process and transport tasks. Buffer sections can be implemented using the accumulation function. Moreover, switches can be deployed for merging or diverting carriers, for overtaking, sorting, or directing a specified number of carriers to a particular destination. It is also able to create flexible buffers, or time windows for rinsing during application. Additionally, the system allows specified carriers to make repeated circuits, while others can be sent directly to defined process steps.



Low-noise operation

A further advantage of this system is low-noise operation – particularly when compared with skid conveyors. Noise levels were reduced by using fixed chain dogs. All components required for power and free movements are incorporated into the carrier trolley.

Turning device saves space

A special device integrated in the carrier makes it possible to make 90° turns. This is especially useful for long components, such as bumpers. These can be turned sideways, and then buffered within a far smaller space, then turned lengthwise in preparation for painting. The components can be turned automatically either during transfer or when stationary, as needed.

Eco-friendly compact design

The system is of compact design, with low height and width, taking up far less space than a skid system. Moreover, the low dead weight of the trolleys helps to reduce electricity consumption.

More information about Inverted Power & Free?

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