

RoundTrack

RoundTrack systems
**Transport great
loads intelligently**




STROTHMANN
Machines & Handling

RoundTrack: Transport systems from entry- to ultra- class

RoundTrack is the ideal transport system for intelligent transport of great loads. It allows even extremely heavy loads to be transported with the lowest possible energy input. The precise and reliable track guiding function is based on the Strothmann RoundTrack system. A broad selection of carts from low-cost aluminium carts to Automated Guided Vehicles for sophisticated applications offers great flexibility.

Total simplicity

The RoundTrack system makes it possible to move even extremely heavy loads with ease: from individual components weighing tons to complete machines. Quick installation and system availability permit uncomplicated integration into the production workflow.

Total safety

The guided system guarantees safe load transport. Flush installation and uncomplicated handling ensure optimum safety during product transport.

Total efficiency

As a structural aid the RoundTrack system necessarily creates efficient transport processes. Thanks to the minimal energy input required for moving loads and because the system is practically maintenance- and wear-free, it quickly pays for itself.

200 t

Extreme strength:
safe and reliable
material transport
of up to 200 t

5 t

Optimised ergonomics:
up to 5 t can be
pushed
manually by



The RoundTrack: highly precise and reliable track guiding

The Strothmann RoundTrack is the basis for the highly precise and reliable cart track guiding function. The wheels ensure minimal rolling resistance while reliably guiding the system. Even heavy objects weighing up to 5 tons can be moved by hand.

Maintenance-free system

The round rails made of hardened, polished steel and the wheels made of ball bearing steel are designed for a long service life. The RoundTrack is flush with the building floor, making it possible to move across it with forklift trucks and platform floor trucks. Moreover, the lack of tripping hazards guarantees optimised safety at work. The clamping profile on both sides makes it easy to replace the aluminium profile in the event of damage.



RoundTracks for all load segments

RoundTracks with diameters of 25, 40, and 60 mm are available to accommodate different payloads per wheel. The RoundTrack RS60 has a nominal load-bearing capacity of 15 tons per wheel. Even a carriage with four duo cassettes can move 100 t.

RS25 up to 40 t*	RS40 up to 80 t*	RS60 up to 200 t*
50 x 100**	75 x 140**	90 x 180**
* max. payload capacity per cart		
** Installation channel size, height x width in mm		

RoundTrack installation in 4 steps.

Strothmann's cooperation partners around the world are available to install the RoundTrack. The track guiding system is integrated in the building floors in four steps. For further information, please refer to our installation conditions.

1.

Measuring and marking floor slots

2.

Cutting, chiselling and cleaning floor slots

3.

Positioning and aligning RoundTrack

4.

Grouting RoundTrack in the channel

Wheel

Clamping profile

Round rail

Holding profile



The RoundTrack advantage

Compared with other transport systems, the Strothmann solution offers numerous benefits: e.g. in directional stability, energy efficiency, safety, quality and cost.

Advantage over heavy-duty castors/ Vulkollan wheels

The RoundTrack offers an impressive reduction of the rolling friction coefficient by a factor of >10 and therefore requires significantly less energy than the above-mentioned systems. Moreover, the RoundTrack wheel is highly resistant to environmental factors and foreign objects along its route. The compact design permits a relatively low cart height and the form closure integrated in the wheel profile allows for absorption of transverse forces and reliable track guiding. As an extra benefit, the RoundTrack steel wheels are 100 % recyclable, making them more sustainable than any other material.



Advantages over crane systems






The RoundTrack system is easy to implement in existing production workshops and does not require complicated workshop infrastructure. Floor-level transport ensures greater safety. The transport carriages in use are available immediately at all times and do not require additional auxiliary equipment. There are no recurring costs for special training courses or safety inspections of slinging means.

Advantages over air cushion vehicles

Once again, the RoundTrack system has lower energy requirements. The RoundTrack does not require expensive preparation of a pneumatic system nor additional energy for lifting the load. The floor work required is also limited to installation of the RoundTrack, so no extensive floor preparation and maintenance is necessary.

Advantage over alternative rail systems

Compared with other rail systems, the Strothmann RoundTrack offers exceptional benefits. This comparison is based on an assessment by TEG-S of the Fraunhofer Society.

	 Crane track	 Crane track with rubber filling	 Railway track	 Tram track	 Strothmann RoundTrack
1 = very good 6 = unsatisfactory					
Protection against dirt	2	1	2	5	2
Ease of cleaning	4	1	4	5	2
Avoidance of edge loads	5	5	4	4	1
Track precision	4	4	5	5	1
Rolling resistance	4	6	3	4	1
Accident prevention	6	1	6	4	1
Reduction in wear	3	6	4	4	1
Load-bearing capacity	2	2	3	3	2
Replaceability	6	6	5	6	1
Average	4	3,6	4	4,4	1,6

The Strothmann transport cart fleet

Strothmann transport systems are designed for flexible use in a variety of industries: from standard to customised carts. The driverless transport system uTrack is a first-class solution for complex applications. All transport systems permit flexible expansion.

Powered transport systems

PulseTrack

Pulse conveyor plus carts

ServoTrack

Transport carts

uTrack

Transport carts

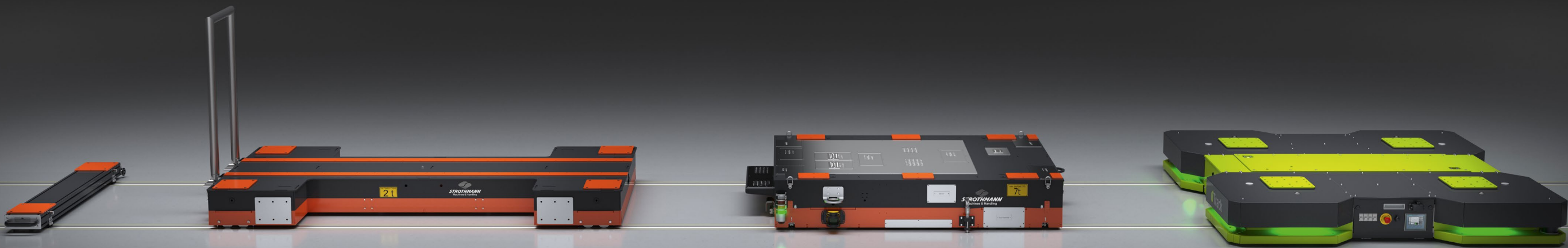
Manual transport systems

LeanTrack

Standard carts

CustomTrack

Customised carts



LeanTrack

The entry-level product of transport systems

The standard aluminium or steel cart is suitable for easy and quick implementation of many applications. One person can move up to 5 t. You benefit from quick delivery.

LeanTrack: the light-weight aluminium cart

For simple applications even two aluminium carts are enough to move loads of up to 16 t. Returning the cart at the end of the transport route is also simple: LeanTrack can be rolled back to the starting point on wheels like a trolley suitcase. Yet another highlight is the simple configuration and ordering process for the system via the web shop.



LeanTrack: the robust steel version

LeanTrack steel carts are designed for greater loads: one cart can move up to 36 t. Moreover, the carts have a larger load accommodation area thanks to their sturdy welded structure. As a special option, the steel version can also be equipped with a pneumatic lifting function. The lifting function simplifies material pick-up and deposit.



Online configuration: shop.strothmann.com
For further information see: **LeanTrack brochure**

CustomTrack

The customised transport system

CustomTrack carts are fully adapted to your requirements thanks to a tailored cart and layout design. In particular the direction change systems increase the flexibility of the transport process.

Customised transport carts

Let us develop the perfect cart for you: from consultation through design to production. The carts are customised for your processes and the transported products. Flexible factors include the cart design, load accommodation, track gauge and direction change technology. Various direction changing systems permit even complex travel paths.



Moving heavy loads with Mover

Your CustomTrack cart can also be equipped with lifting tables, rotary devices and many other accessories. One of these equipment options is the MoviMax: This moving system allows a single person to move weights of up to 25 t. Pushing and pulling transport is possible. The MoviMax is an economic alternative to fixed or automatic drives. We would be glad to help you find ideas for your CustomTrack.



PulseTrack

The transport system for continuous flow production

PulseTrack is the simplest way to implement flow production. Connecting the pulse conveyor to the cart increases productivity thanks to fixed cycles and maximum energy efficiency.

Line weight up to 600 tons

The PulseTrack system consists of a pulse conveyor and a cart of the series LeanTrack or CustomTrack. The system permits ergonomic continuous flow production with a line weight of up to 600 tons. The products are automatically advanced to the next work station. Fixed cycles increase productivity.



Minimised energy and follow-up costs

Maintenance-free components and higher energy efficiency make the PulseTrack extremely cost-effective and sustainable: One drive for several cart permits simultaneous cycling of the entire line. This means the carts themselves have no drive. The minimised rolling resistance between the steel wheel and steel track means that only very little energy is required to move great loads.



ServoTrack

The powered transport system for straight routes

The powered transport cart for manual or fully automated processes is optimised for straight routes. ServoTrack is ideal for efficient material transport between two stations.

Highly precise loading

The transport cart is ideal for highly precise and reliable transport of products with a weight of up to 200 t. The powered transport cart is ideal for linear routes, supply systems or highly precise loading of cells and stations. The chassis design is adaptable to the individual requirements. ServoTrack carts permit flexible integration of additional powered functions: Roller conveyors, rotating and reversing functions.



Flexible control options

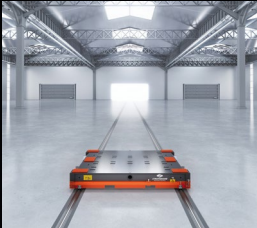

ServoTrack is available with different control concepts based on the application scenario. For instance, manual control is possible with a mobile manual control element or a control panel installed on the transport cart. In addition to partially automatic control, a fully automatic variant is also available. In this option, the higher-level control system or other systems can transmit the movement commands to the vehicle via cable or WIFI. The ServoTrack carts are equipped with state-of-the-art safety technology.



System overview

Transport systems

The wide range of available transport systems is designed for all common tasks in material handling and logistics. The systems permit flexible configuration and expansion: from direction changing to lifting functions.

	<div>LeanTrack</div> <div>Standard carts</div> <div></div>	<div>CustomTrack</div> <div>Customised carts</div> <div></div>	<div>PulseTrack</div> <div>Pulse conveyor + carts</div> <div></div>	<div>ServoTrack</div> <div>Driven carts</div> <div></div>	<div>UTrack</div> <div>Transport carts</div> <div></div>
Max. payload capacity*	up to 72 t	up to 80 t	up to 600 t**	up to 200 t	up to 200 t
Applications					
Material handling	■	■		■	■
Machine loading	■	■		■	■
Continuous flow and cycled production	■	■	■		■
Direction change					
Cross-type chassis		■	■		■
Quadro turnstile		■	■		■
Turning station	■	■	■		■
Energy supply					
Battery				■	■
Induction				■	■
Cable drum				■	
Mover	■	■			
Lifting functions	■	■		■	■
Rotating functions		■		■	■
High-precision chassis		■	■	■	■
	Manual transport systems		Powered transport systems		Automated Guided Vehicles

* Assumption: Load symmetrically distributed on 2 carts.
** Line weight

What kind of products would you like to transport with precision, reliability and low energy input?

Contact our RoundTrack experts:

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Learn more:

www.strothmann.com

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