

LOGO!MAT - TRANSFER SYSTEMS

Conveyor systems for assembly and test automation

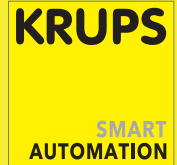
KRUPS

SMART
AUTOMATION



LOGO!MAT - TRANSFER SYSTEMS

Conveyor systems for assembly and test automation



LOGO!MAT friction roller conveyors are proven and reliable transport systems for use in assembly and test automation. Our systems feature everything you would expect from a modular, robust, and field-proven conveyor in your production application. Standardized, well-designed, and optimized components for nearly any requirements are an integral part of our different product types. Station components can position your products with different levels of precision or even rotate your product in a highly sufficient manner. Track navigation components efficiently lead your part from station to station and allow for all possible pallet flows. LOGO!MAT friction roller conveyors are sure to win-over not only your operators but also your planning and maintenance personnel. Our highly flexible and well-engineered design makes it easy to plan, maintain, and service your conveyance system.

Extensions, rebuilds, updates, or modifications can be easily implemented at any time to ensure your conveyor system exceeds your needs for years to come.

LOGO!MAT friction roller conveyors are impervious to oily conditions, heavy dirt, grime and other outside factors in the production environment.



Setup of LOGO!MAT friction conveyance



Setup of Twin Strand conveyance

Typical applications for LOGO!MAT roller conveyors include:

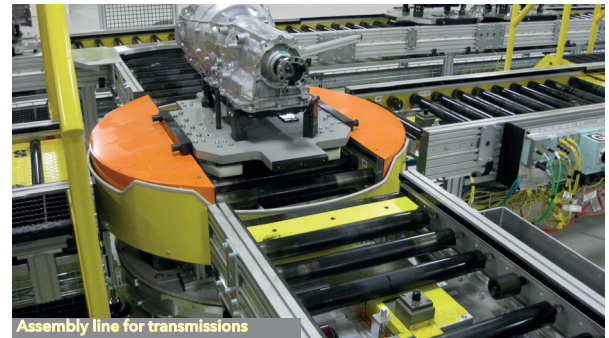
- **Transmissions**
- **Battery modules**
- **Front & rear axles**
- **Engines**
- **Battery controllers**
- **Front ends**
- **Cylinder heads**
- **Steering systems**
- **Seats**

Corners, diverters, junctions, intersections, rotates, and shuttles are just a few of the commonly used track navigation components available in each series of our friction roller conveyors. Station components like stops, locates, lift & locates and lift & rotates can be installed directly in the conveyor frame or mounted to the station itself to meet your particular needs. Gates and stairs are available for accessing the inside of a closed conveyor loop whether for maintenance, material flow or logistic traffic.

Our highly configurable manual carts can be combined with repair or reject spurs enabling you to remove or reintroduce a pallet to your system easily.

LOGO!MAT Roller Conveyors	L-Series	XL-Series
Available standard widths [mm]	286, 400, 514	600
Maximum pallet weight [kg]	100 (ECO-Rollers) 250 (Heavy Friction Rollers)	600 1.000 (Twin Strand)
Minimum top of roller height [mm]	240	350

Our roller conveyor systems have consistently proven themselves for over 30 years in the field. They offer outstanding dependability at a low cost of ownership. Utilize a LOGO!MAT friction roller conveyor in your next automated production line and benefit from the great performance of this strong and robust system.



LOGO!MAT - TRANSFER SYSTEMS

Conveyor systems for assembly and test automation



The LOGO!MAT eCart offers functionalities and features far beyond those of traditional conveyors. This state-of-the-art system excels in the areas of safety, performance, energy efficiency, controls possibilities and scalability.

Applications can vary from logistics traffic to highly complex and high-tech automated assemblies. The eCart system offers stability in all directions and optional tip protection for added support if loads are not centered. This enables you to easily transport large, overhanging and offset parts while allowing maximum accessibility for your operators. Optimized and well-planned, the LOGO!MAT eCart has everything you need for modern and flexible assembly processes. Track extensions can be added to your eCart system without interrupting production on your existing equipment. The decentralized smart components can be easily reconfigured to immediately utilize the newly added extension once it is finished with no downtime in your production.

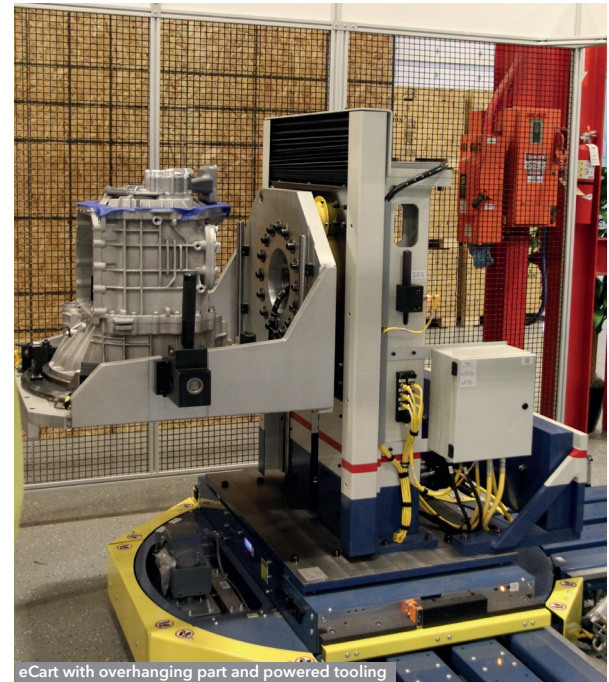


Battery pack assembly

Benefits of the LOGO!MAT eCart system:

- Fully electric, 48V DC low voltage operation
- High energy efficiency level
- Safe, affordable operation without the need for guarding
- Tight positioning tolerances thanks to high precision guide rails
- Active braking of the Carts
- Unlimited zero pressure accumulation of Carts
- Automatic deceleration and stopping when approaching another Cart
- Repeatable and remotely adjustable acceleration and deceleration rates
- Flexible speeds from 0.2 to 24m/min between communication points
- Data communication to and from the Cart and tooling at each stop unit
- Constant 48V auxiliary power available for active tooling on each Cart
- Self-diagnostic function for preventative maintenance
- No need for industrial Wi-Fi networks
- Data storage for pallet identification and routing included
- Very limited preventative maintenance required
- No track maintenance due to no moving parts in the track
- Very low noise level, less than 60db(A)
- Easy tracking of the Carts/parts throughout the layout
- Highly standardized components
- Significantly reduced wiring and commissioning time
- Low profile, walkable track for easy part access around the line
- Tip protection for overhanging loads optionally available
- Adaptable Cart length to fit the size of your part

The newest technologies, smartly adapted to the growing demands of dynamic assembly automation. All this combined with low cost of ownership and high performance and flexibility, that is the LOGO!MAT eCart system.



LOGO!MAT - TRANSFER SYSTEMS

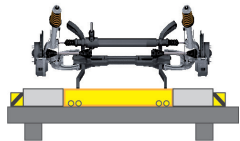
Conveyor systems for assembly and test automation



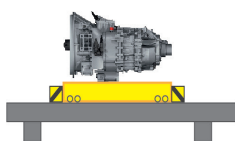
The eCart system and its components are preprogrammed for direct BUS connectivity. This saves you valuable time that would be spent wiring, labelling, and commissioning each component. The preprogrammed components use web visualizations for settings and diagnostics, helping to streamline your controls architecture. After perfecting the interface for one component, the program is easy to scale up to add additional components. With a connected network, you can easily access all conveyance information in one place. The component data available on the standardized web interface helps to confirm and recognize different statuses of components in the programming architecture as early as possible.



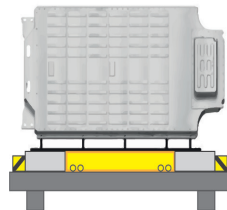
Example applications of the eCart:



Axle



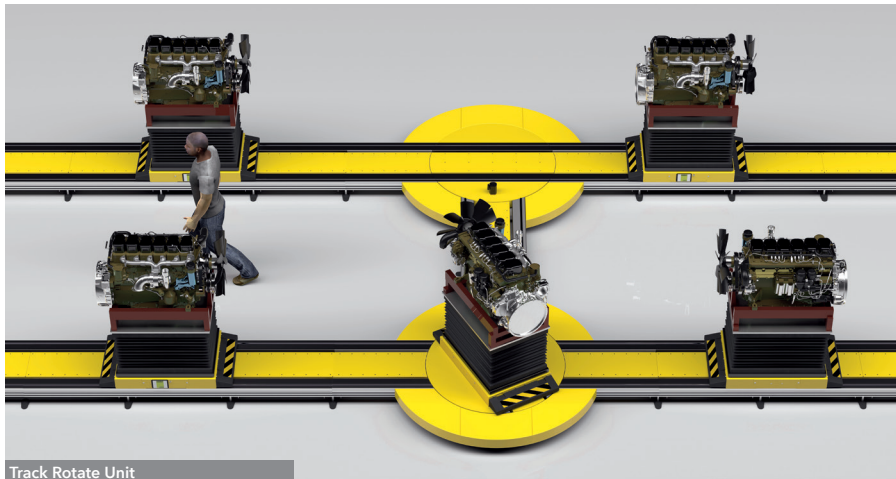
Transmission



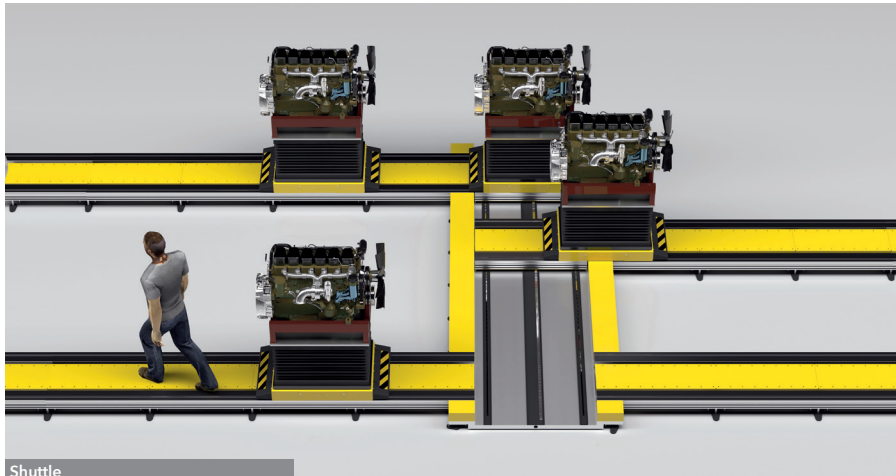
Battery module

LOGO!MAT eCart

Available standard widths [mm]	600 / 700 / 900
Maximum pallet weights [kg]	600 / 1.350 / 2.000
Minimum top of track height [mm]	220



Track Rotate Unit



Shuttle

Safety first

- Performance level D - EN ISO 13849
- Safety bumpers in the direction of travel
- Active braking in case of an e-stop or power loss
- Electronically adjustable torque limiter
- Safe input for additional safety features
- U/L field listing eligible

Low cost of ownership

- Maintenance free track
- Drive power provided via power rail - no need for batteries or recharging
- Greatly reduced programming and commissioning time and costs due to preprogrammed smart modules and a simple interface
- Low and fair component prices
- Reduced energy consumption compared to traditional systems

Energy savings

- Uses up to 80% less energy than a traditional friction roller conveyor system
- High efficiency due to extremely low drag of the eCarts on the track
- eCarts only use energy while moving
- Completely electric system, no need for pneumatics

LOGO!MAT - TRANSFER SYSTEMS

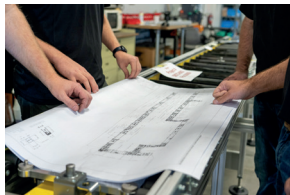
Conveyor systems for assembly and test automation



Our planning tool can be used to quickly develop assembly conveyor layouts. Based on the layout you generate using this tool, we can prepare a quote in no time! The available drawing blocks can be used in various CAD software programs and 3D blocks of the components are available upon request.



Our great customer service starts well before your project kicks off. We can help to find the best and most efficient concept to connect your stations. Once a project has been kicked off, our project engineers will keep you informed and provide transparency throughout the development of the project. We are your partner every step of the way.



Machining, fabrication, pre- and final assembly as well as a run-off of each section are completed in our facility. We also offer assistance on site at your facility, including supervision, maintenance training, complete installation and commissioning.

KRUPS Automation GmbH
Ringstraße 13
D-56307 Dernbach

Phone: +49 (2689) 9435 - 0
Fax: +49 (2689) 9435 - 35

Email: info@krups-online.de

Web: www.krups-automation.com

Join us on Facebook



Read about us on LinkedIn



Watch us on YouTube

