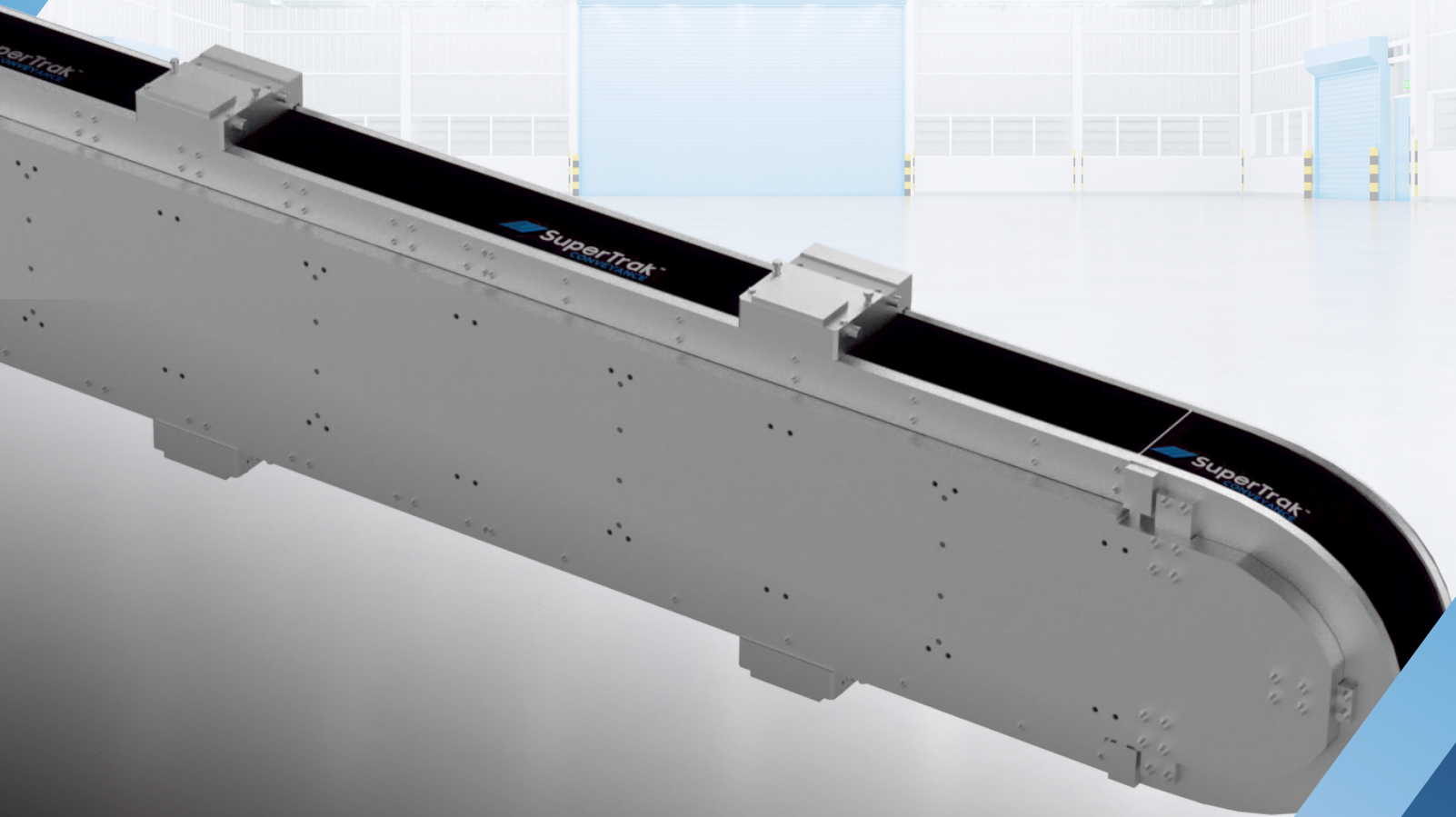
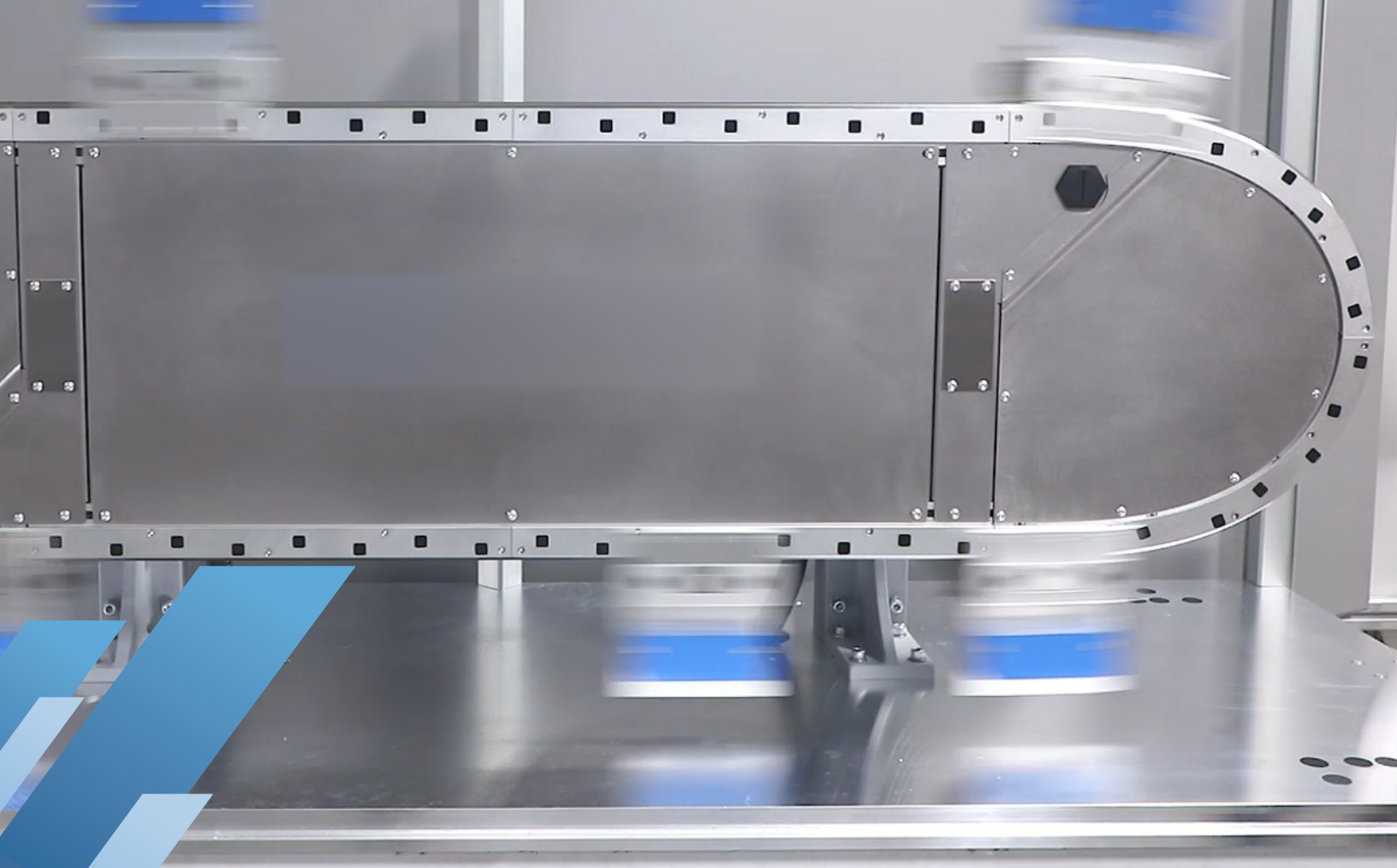




SuperTrakTM

VERTICAL¹⁰





Speed.
Precision.
Independent
Shuttle Control.

SuperTrak VERTICAL10™ is a high-performance magnetic conveyor designed for lean and compact manufacturing automation.

SuperTrak VERTICAL10™ systems can carry up to 10kg per shuttle on top of the track. They are designed to provide better access to the assembled product and enable unidirectional product flow. The independent shuttle control of SuperTrak VERTICAL10™ allows machine builders to reduce the size of their machine even more than with horizontal configurations thanks to the expanded product access for both tooling and operators.

SuperTrak **CONVEYANCE**™ is a platform that enables building more cost-effective, space-saving automation with reduced risk and effort. Focus on your specific application while the platform's integrated functionality manages the motion in real time.

Reduce space and cost of your automation.

Independent Shuttle Control empowers cost-effective and space-saving automation:

- Avoid duplication of parallel stations.
- Use offsets to index parts on a shuttle instead of using duplicate tooling for each part.
- Reduce the size of buffers.
- Optimize the use of every station and simplify the final machine.

As a smart conveyance platform, SuperTrak CONVEYANCE™ delivers higher performance and leaner automation through:

- Increased speeds.
- Lowered settling times.
- Rapid acceleration.
- To reduce cycle times and overall productivity.

Increased precision means leaner automation as it reduces:

- The number of stop-and-locate tooling.
- The amount of engineering effort.
- The burden on operations to maintain complex tooling.

SuperTrak VERTICAL10™ Features

SuperTrak VERTICAL10™ Features

Speed

High speeds, quick acceleration, and industry-leading settling time offer maximum throughput.

- **Speeds of up to 4 m/s**
- **Rapid acceleration to 40 m/s²**

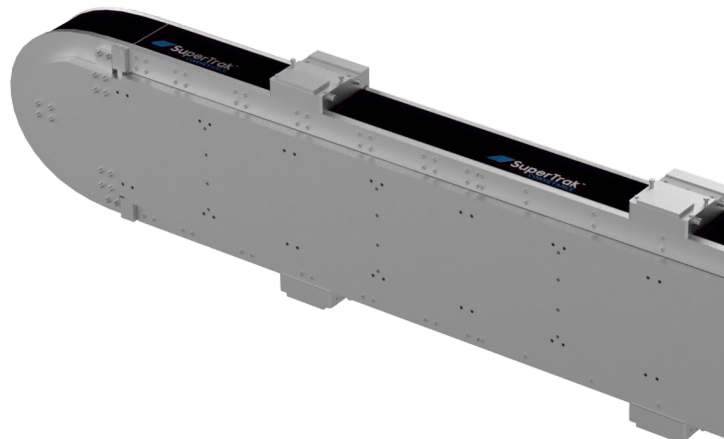
Precision

Tight repeatability, in combination with speed and acceleration, drives the consistency of processes not otherwise possible with alternative conveyance options.

+/-0.01 mm repeatability

Independent Shuttle Control

The ability to independently control each shuttle's destination, direction, speed, and acceleration enables maximum utilization of every component in the final machine.

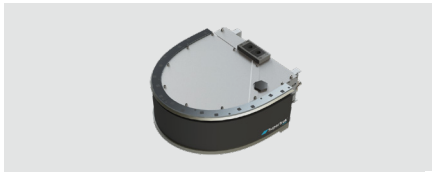


Maximum Functionality. Less Space.

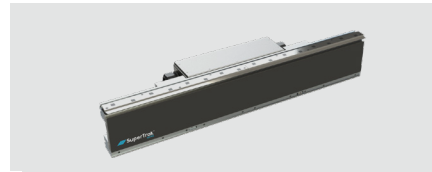
Reduced Footprint

Maximizing the functionality of your factory automation in the minimum amount of space is a top priority for today's manufacturers and their industrial automation processes.

Different configuration options provide system designers the flexibility to mount tooling on the inside, outside, over-top, or underneath to meet their unique system requirements.



**Low Profile 180° Section
(500mm Diameter)**

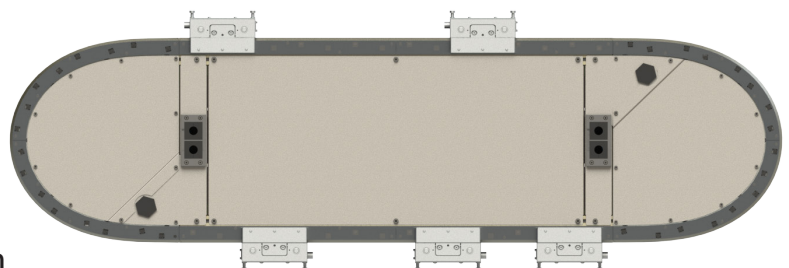


Low Profile Straight Section

The Flexibility to Scale

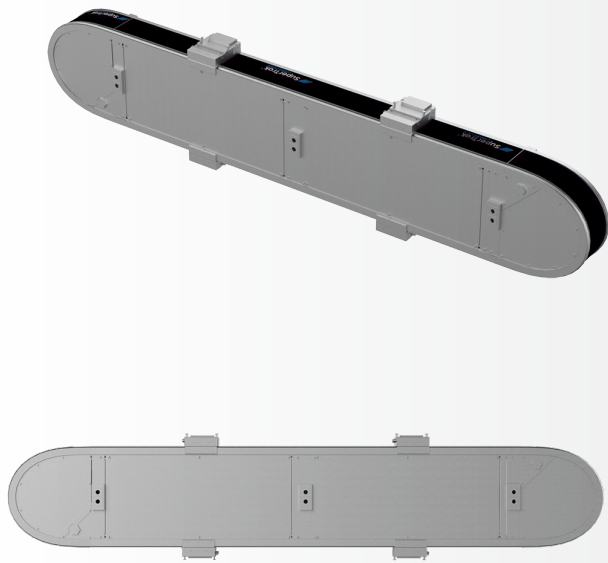
Being able to effortlessly scale your business is essential for the success of today's manufacturers.

SuperTrak's modularity allows manufacturers to expand their systems by easily adding additional modular sections as the business grows and as products change. System designers can readily reconfigure the functionality of the conveyance platform as business requirements change.



Higher Availability. Improved Quality. Increased Performance.

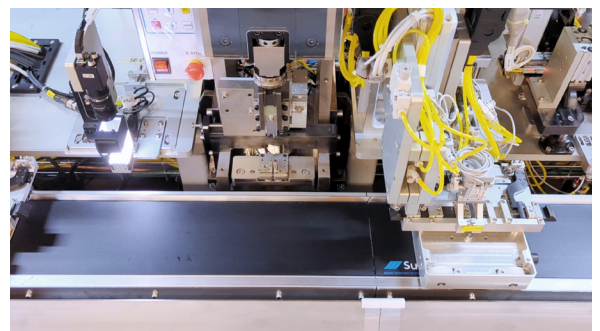
SuperTrak VERTICAL10™ Configuration



SuperTrak VERTICAL10™ is the new standard for compact lean automation in unidirectional part flow applications.

It is perfectly suited for cleanroom applications, and manufacturers can reduce machine size and improve product reach using this configuration.

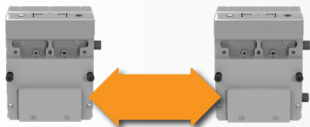
According to our users, SuperTrak VERTICAL10™ based machines can be 50% smaller in size compared with different forms of traditional conveyance while maintaining the high levels of performance required by their customers. In addition, this configuration empowers designs in which the end-user can always access the shuttles and products from one side while also accessing to the feeding systems located on the other side of the machine”



Reduce the Cost of High-Performance Automation

Focus on your specific application while the SuperTrak CONVEYANCE™ integrated functionality manages the motion in real time. Integrated functionality incorporates a number of features into one platform thus reducing system design and integration hours. This enables a higher level of performance for your automation with less risk attributed to complex engineering.

A sample of integrated functionalities include:



Collision Avoidance

Shuttles will automatically avoid contact. No additional programming is necessary.



Target Routing

Set and release shuttles to destinations around the track without any additional management in the PLC.



Pre-stops

Set pre-stops where extra space for tooling or process is required.



Define Regions for Specific Motion Dynamics

Shuttles will move through the region with a specified velocity, acceleration, or jerk.



Design > Simulate > Build > Perform

Reduce Design and Integration Hours

The user interface for the SuperTrak CONVEYANCE™ platform provides a means to:

Create system simulations

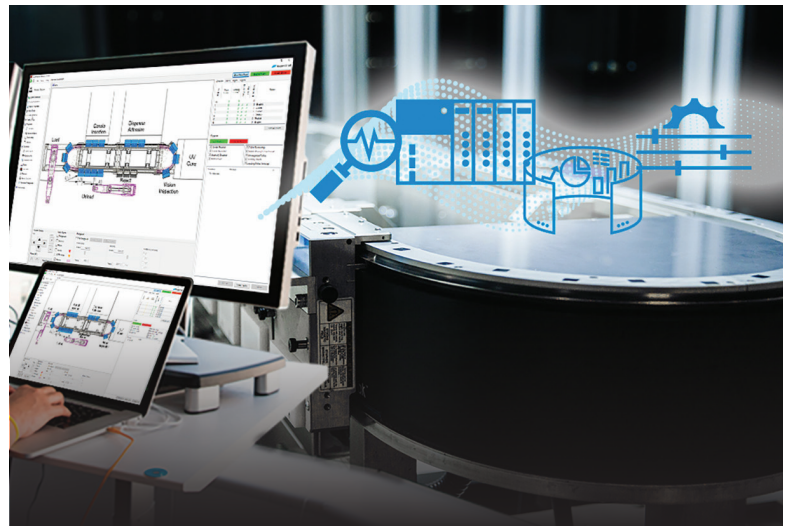
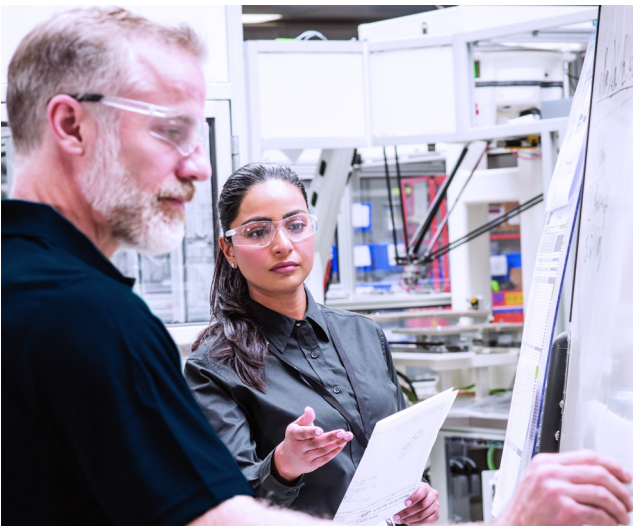
View system performance statistics

Configure integrated functionality

Access diagnostic tools

Unlike other conveyance platforms' software, TrakMaster™ was designed and built with the intent to reduce engineering and integration hours, offering machine builders and manufacturers a faster path to production.

The easy-to-use software empowers an intuitive PLC interface to control the platform's high-performance capability with less engineering, and therefore, less risk"



Built by Machine Builders, for Machine Builders

Manufacturing Applications

The SuperTrak CONVEYANCE™ team has deployed systems across the globe spanning a variety of industries in some of the most demanding environments.

From harsh, dirty environments to cleanroom applications, we have conveyance solutions that can evolve with your changing needs.

Smart conveyance technology is best suited for applications that require:

High-volume assembly

Limited floor space

Energy efficiency

Cleanroom assembly

Quiet operation

Multiple process steps

Multi-part types

Modularity to scale and adapt

Functionality in harsh environments

A high degree of precision

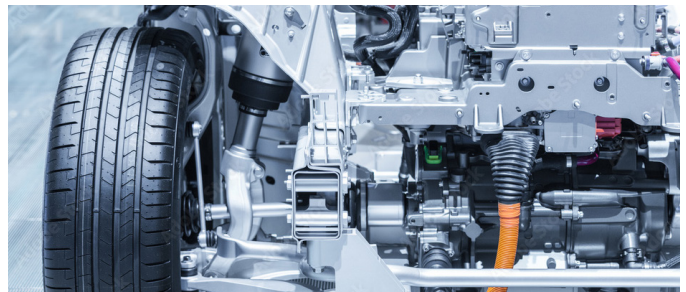
Automation for a Variety of Industries

Popular Industry Applications



Medical Devices

- Contact lens packaging
- Syringe assembly
- Catheter assembly
- Insulin pumps



Automotive Components

- EV battery assembly
- Valve assemblies – lash adjuster, seat/o-ring, ABS, motor components
- Door lock actuators



Consumer Electronics

- Cell phone assembly
- Small household appliances
- Household electronics





Consumer Products

- Disposable shavers
- Food packaging
- Pump bottles



SuperTrak VERTICAL10™ Data Sheet

| | |
|-----------------------|---|
| Straight Section | 1000mm |
| 180° Section | 500mm Diameter |
| Product Fixture Width | 152mm up to 1000mm |
| Maximum Speed | 4 m/s |
| Acceleration | <ul style="list-style-type: none"> • 1G with 10 kg Payload • 4G with 1 kg Payload |
| Repeatability | +/- 0.01mm (straight section) No process on curve |
| Payload | 10+ kg per shuttle* (max 4kg per shuttle on vertical curves) |
| Shuttle Options | Standard shuttle configuration with 2- or 3-magnet array options |
| Communication |     |

* Higher payloads possible. Speak to a member of the SuperTrak Team for more info.

 **SuperTrak**[™]
VERTICAL10



Reduce the Cost of High-Performance Automation

Have a project on the **horizon**?
Conveyance is a good place
to start.

We work with machine builders
and system designers to improve
system design and meet
automation goals.

Contact Us

team@supertrakconveyance.com

www.supertrakconveyance.com