



THE FOUNDATION
OF **WORLD LEADING**
AUTOMATION

www.supertrakconveyance.com

 **SuperTrak**[™]
PHARMA8

By SuperTrak CONVEYANCE[™]



High-Performance Automation for Aseptic Environments

Speed.
Precision.
Independent
Shuttle Control.

SuperTrak PHARMA8™ is a high-performance, linear-motion solution designed for Grade A aseptic environments.

Through a combination of high speeds, precise positioning, independent shuttle control, and integrated functionality, the complexity of engineering is reduced, allowing engineers to efficiently design, develop, and deploy their automation while balancing the performance with the cost.

SuperTrak PHARMA8™ is based on 25 years of innovation and experience delivering highly reliable and flexible Smart Conveyance systems for the most demanding applications worldwide. It offers synchronous and asynchronous processing on the same platform, allowing machine builders and integrators to reduce repetitive tooling and overall footprint while delivering the required throughput.



Build Better Automation with SuperTrak PHARMA8™

SuperTrak PHARMA8™ Benefits

1.

Faster Cycle Times

A combination of speed, precision, and independent shuttle control allows engineers to efficiently applying each component of a system station, so parts spend less time in motion and more time in process.

Increased Flexibility

Reduce unproductive downtimes when switching between different recipes, formulations, or products by utilizing asynchronous motion and independent shuttle control.

3.

2.

Higher Quality

Eliminate quality concerns including turbulent or non-laminar air flow by controlling acceleration and velocity and reducing moving parts on the system.

Reduced Footprint Effort

Integrated functionality allows system designers to reduce engineering complexity and redundant tooling for more efficient use of space.

4.

SuperTrak PHARMA8™ is setting the new standard for fill-and-finish applications. It enables precise batch control with easily cleanable surfaces for wipe down and vaporized hydrogen peroxide (VHP) decontamination that will meet FDA and EMA requirements.



Enabling Better System Design for Engineers

SuperTrak PHARMA8™ Features

1. Speed

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

- Speeds of up to 2.5 m/s
- Rapid acceleration to 30 m/s²

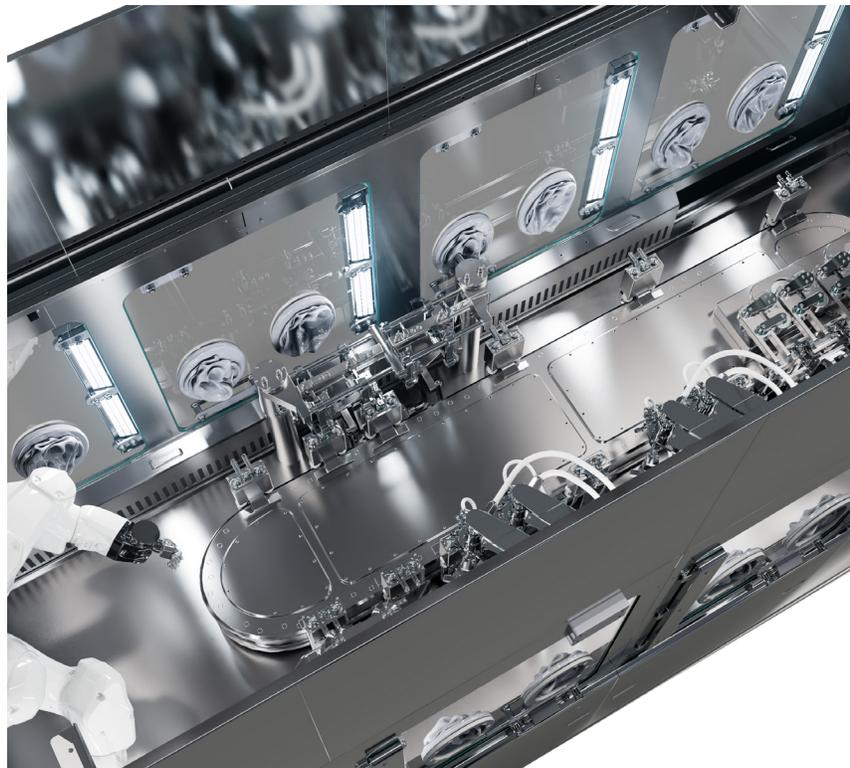
3. Independent Shuttle Control

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

2. 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



Aseptic Processing for Multiple Applications

SuperTrak PHARMA8™ Popular Applications

- Aseptic filling and processing requiring flexibility: vials, syringes, bags, cartridges, combination products, ampoules, dry powder processing, pills
- Handling, filling, and finishing IV bags and other bags including infusion, combo, poly, dual chamber, cryo for cell & gene therapy
- Aseptic drug-delivery device assembly and aseptic wearable-patch assembly



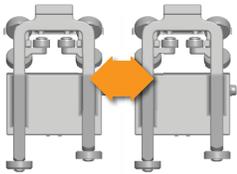
SuperTrak PHARMA8™ was tested at rest and in motion within a Grade A isolator. It successfully:

- Met the particulate levels stipulated by ISO 14644.1 and EU GMP Annex 1
- Passed the riboflavin powder tests after washdown
- Met the acceptance criteria for decontamination with vaporized hydrogen peroxide (VHP)
- Met the acceptance criteria for Wash In Place (WIP) with spray gun and spray ball
- Did not disturb the unidirectional laminar air flow within the isolator
- Demonstrated chemical compatibility with quats, ethanol, IPA, and traditional sporicidals

Reduce the Cost of High-Performance Automation

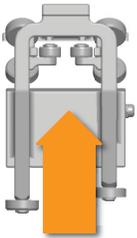
With the platform's integrated functionality, configuring motion remains simple and flexible, thus reducing system design and integration hours.

A sample of integrated functionality includes:



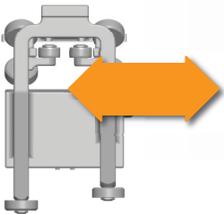
Collision Avoidance

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



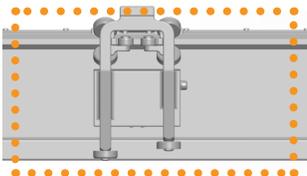
Target Routing

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.

The New Standard for Aseptic Processing

Grade A Compliant

Designed for aseptic environments, the stainless steel casing, sealed with gasketed joints to allow the use of common cleaning agents, prevents migration of particulate, enables rigorous cleaning protocols, and avoids turbulent air created by vacuum or pressure scenarios.



Scan and Download: Operation and Maintenance Manual, Datasheets, and CAD.



SuperTrak PHARMA8™ Data Sheet

Maximum Speed	2.5 m/s
Acceleration	Up to 30m/s ²
Stop Repeatability	± 0.01 mm straight section; ± 0.025 mm turn section
Shuttle Payload	8.5 kg maximum
Process on Curve	Full control
Shuttle Options	Standard shuttle configuration with 2 or 3-magnet array
Design Ratings	Design conforms to EEC-cGMP, ISO 9001 & ISO 13485
Lubricants	No wet lubricant required
Loop Size	1m and 2m plus turns in single piece 3m plus turns and more in module build up
Surface and Roughness	Stainless Steel 316L, Ra < 0.8µm on visible area surfaces
Washing and Decontamination	Vaporized hydrogen peroxide (VHP), quats, ethanol, IPA and traditional sporicidals Wash In Place (WIP) with spray gun and spray ball
Particulate Levels Rating	Suitable for ISO 5, ISO 14644.1 & EU GMP Annex 1 Grade A
Communication	   

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Contact Us

team@supertrakconveyance.com

www.supertrakconveyance.com/products/supertrak-pharma8/

