



SuperTrak PHARMATM

A custom, breakthrough asynchronous transport technology solution for aseptic applications

Pharmaceutical manufacturing is moving into the 21st century with SuperTrak PHARMATM, the first isolator-ready, electromagnetic linear mover with independent shuttle control.

For the first time, pharmaceutical manufacturers can fully utilize the features and benefits of SuperTrak GEN3TM—used in the most demanding factory automation applications worldwide — as the primary product mover and asynchronous transport technology solution in an aseptic environment.

Independent shuttle control, speed, and precision deliver high-performance capability with less engineering by utilizing the conveyance platform's integrated functionality.

For a high-performance automation system in a sterile environment, SuperTrak PHARMATM is the solution for your next custom automation project.

Benefits

- Filling and finishing on SuperTrak PHARMA™ gives you precise batch control with easily cleanable surfaces for wipe down and vaporized hydrogen peroxide that will meet FDA isolator requirements.
- During testing and development, SuperTrak PHARMA™ is extremely useful for double barrel injector applications where recirculation of parts is needed, or various batches are being run.
- End-over-end solutions can further reduce the overall footprint of the isolators or restricted-access barrier systems.
- Preloading and unloading the shuttles on the back side can reduce footprint by 50%
- Ability to hand off to further downstream processes and still fit any orientation or layout

Features

- Completely enclosed: sealed casing prevents migration of particulate, enables rigorous cleaning protocols, and avoids turbulent air created by vacuum or pressure scenarios
- Automated manufacturing: reducing need for manual intervention
- Reduced particle generation: minimal moving components
- Ratings: ISO 5 cleanroom rating and IP65 rated, ISO 9001 & ISO 13485 certified
- Corrosion-resistant: stainless steel construction ($\leq Ra\ 0.8\ \mu m$)
- Vaporized Hydrogen Peroxide safe
- Gasketed joints for common cleaning agents
- Oil-free and grease-free design
- Speeds much faster than a walking beam or any other traditional cleanroom transport system
- Design conforms to cGMP standards
- Successfully integrated into a Comecor-provided isolator:
 - Isolator with air quality compliant with Grade A in Operation (EEC-cGMP conforms)
 - Equipped with laminar flow over the entire area and handling gloves
 - Automatic leak test
 - Particle counter and microbial sensors
 - Wash In Place (WIP) with Spray gun and Spray ball



ISOLATOR WITH SUPERTRAK PHARMA™



SUPERTRAK PHARMA™ WITH SHUTTLES

Popular Applications

- Ideal for downstream aseptic processes like fill and finish
- Aseptic filling and processing flexibility: vials, syringes, bags, cartridges, combination products, ampules, dry powder processing, pills
- Aseptic drug delivery device assembly
- Aseptic wearable patch assembly

Processes

This linear motion technology platform can be used in different pharmaceutical applications such as ready-to-mix filling and assembly for combined products under very stringent aseptic conditions.

PRODUCT SPECIFICATIONS	VALUE
Materials	316L
Maximum Speed	2.5 m/s (8.2 ft/s)
Acceleration	1 g with 5 kg (11 lb) payload
Payload	5 kg (11 lb) per shuttle
Stop Repeatability (Straight Section)	± 0.01 mm (0.00039 in)
Stop Repeatability (Turn)	± 0.025 mm (0.001 in)
Communication	Ethernet / IP, Profinet, Powerlink, and EtherCAT
Power Consumption	10 W / section, 150-225 W / shuttle