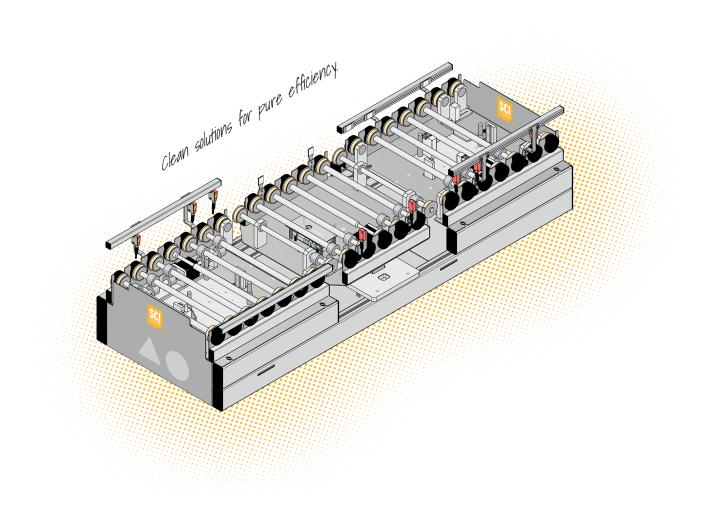




The reliable cleanroom transfer



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System Specifications

Technical Data	
Compatible Carrier Types	FOUP / FOSB / HA 200 / other
ISO Class (ISO14644)	3
Length	Variable
Width	53 cm (300 mm) and 43 cm (200 mm)
Height	Project defined
Average delivery rate	depends on project and carrier types
Interfaces	SEMI-E82 MCS / SEMI-E84 Transfer
Control System	Siemens TIA PLC
Inventory Management	SHostPro - PRC
Speed 300 mm	Vmax = 1,0 m/s amax = 0,5m/s ² *
Speed 200 mm	Vmax = 0,5 m/s amax = 0,5m/s ² *
* acceleration	



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Application

Schillers Cleanroom Transport System is designed to transport wafer carriers, equipment, and/or materials between different stages of the semiconductor manufacturing process efficiently and with extreme care.

Highly automated, with sensors, controls, and software ensure precise movement, positioning, and synchronization of materials and wafers throughout the fab. This automation minimizes the risk of human error and maintains a controlled and clean manufacturing environment. The design of the conveyor system can vary depending on the specific manufacturing process and the layout of the facility.

The core is the Schiller Cleanroom Conveyor, consisting of clean-room-tested components and the innovative Magnetic Drive technology for contactless and frictionless power transmission to the rollers.

Features

Features		
Magnetic drive technology	contact-free, friction-free power transmission to the rollers	
Easy roller replacement	Easy access for cleaning	
Stainless steel buffed to < Ra 0,8 surfaces	PU coated wheels = zero static charge	
One modular element compatible for both 200 and 300 mm carrier types	Low vibration < ± 0,5 g	
Intrinsically safe design		

Key Benefits

	Configuration and design optimized to customers' requirements.	
	Maximum uptime	
Ē	Low cost of ownership	
A state of the	Maintenance free	
	Vibration free transport	

Our conveyor systems are equipped with safety features to prevent accidents and ensure the integrity of the wafers and materials being transported and offer high availability in a high-performance demanding environment for intralogistics in modern semiconductor factories.

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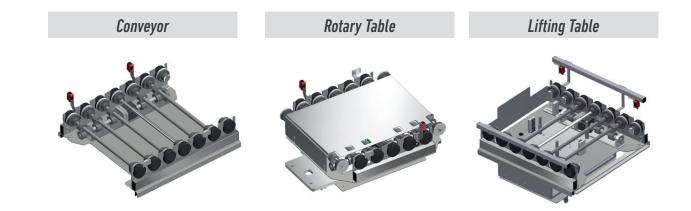
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System Configuration Options

Modular Elements	
Straight	
Rotating table	
Transfer Elevating table with kinematic coupling	
Integration of external equipment (CV, AGV, Sorter, Shuttle)	
System redundancy through cross-functional vehicles (parallel system)	



Key Benefits

\star	Complete automation of the workflow
\star	Improve operational efficiency
*	Reduced contamination risk
*	Integrated inventory control

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Our commitment to Industry 4.0	Our commitment to the Environment
Our systems support IoT	Energy efficiency
Interconnected Systems	Reduced carbon footprint through our corpo-
Data Security	rate philosophy, using local providers, minimizing packaging,
End-to-end visibility	electric cars
Preventative maintenance software and analytics	



MORE INFORMATION

email sci@schiller.de web www.schiller.de



Website and Video: Get more information and see how the Transport System works!

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