

SCI

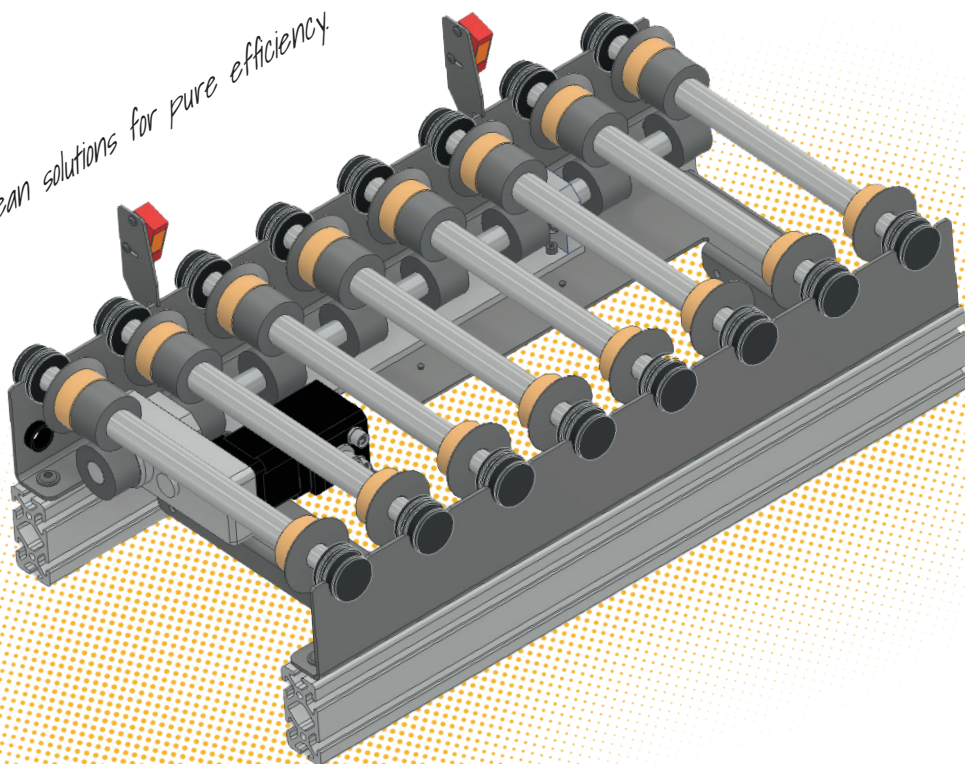
SCHILLER CLEANROOM
INTRALOGISTICS

clean moving.

TRANSPORT SYSTEMS

The reliable cleanroom transfer

Clean solutions for pure efficiency



DATASHEET · EN · 251113 · TRANSPORT SYSTEMS · 1/6

Technical data and illustrations not binding for deliveries. Subject to change without notice.

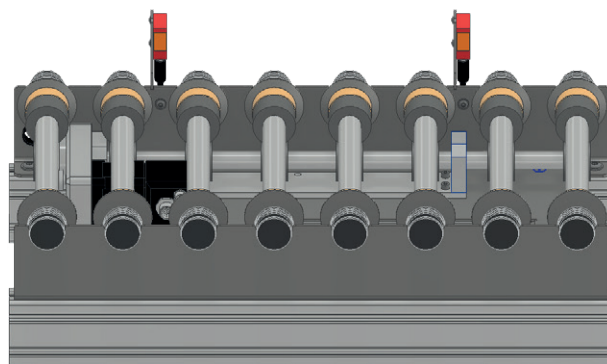
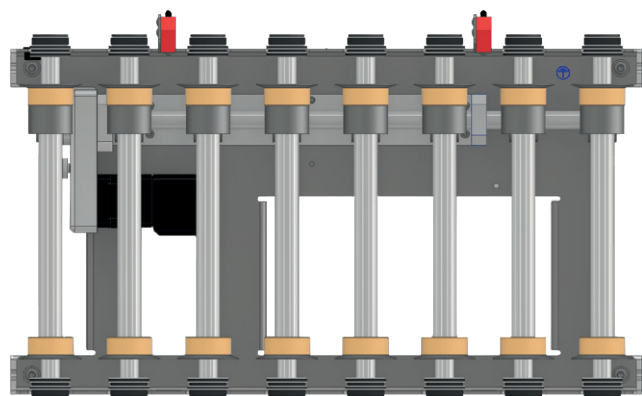
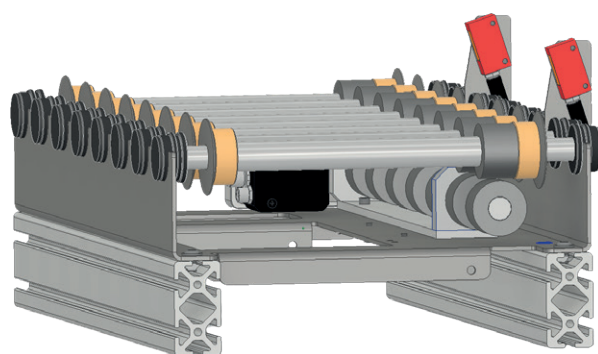
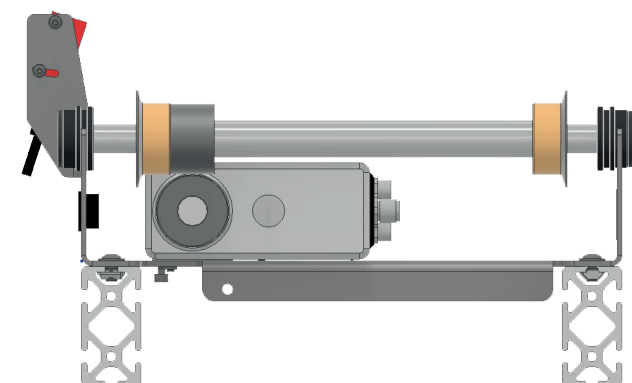
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Member of

SCiO
AUTOMATION

System Specifications

Technical Data	
Compatible Carrier Types	HA200 / Smif Pod / Open Cassette
ISO Class (ISO14644)	3
Length	Variable, 500 mm per unit
Width	287 mm for HA200 (depends on carrier type)
Height (Side panel)	68,3 mm
Average delivery rate	depends on project and carrier types
Interfaces	SEMI-E84 Transfer
Control System	Siemens TIA PLC
Field bus	PROFINET (Process Field Network)
Inventory Management	SHostPro - PRC
Speed	$V_{max} = 0,5 \text{ m/s}$ $a_{max} = 0,5 \text{ m/s}^2$ *
* acceleration	



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 cleanroom-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	Intrinsically safe design

Key Benefits



Configuration and design optimized to customers' requirements.



Maximum uptime



Low cost of ownership



Maintenance free

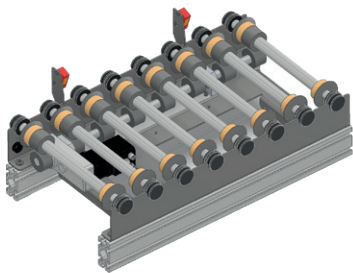
Our conveyor systems are equipped with safety features to prevent accidents and ensure the integrity of the wafers and materials being transport-

ed and offer high availability in a high-performance demanding environment for intralogistics in modern semiconductor factories.

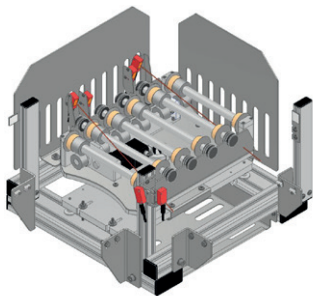
System Configuration Options

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

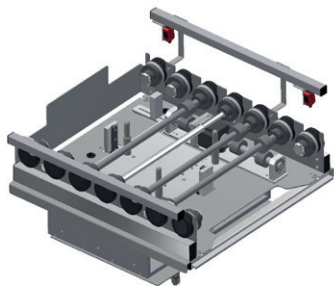
Conveyor



Rotary Table



Lifting Table



Key Benefits

★	Complete automation of the workflow
★	Improve operational efficiency
★	Reduced contamination risk
★	Integrated inventory control

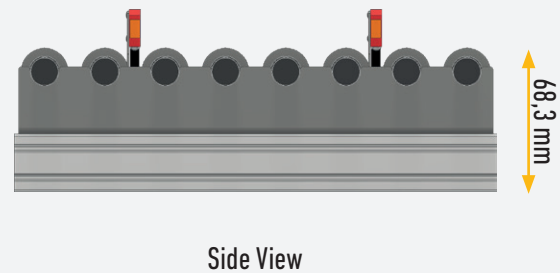
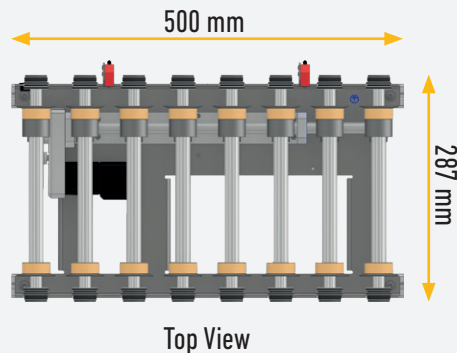
Light & Compact by Design – Optimized for Performance

With a smart drive unit, precise magnet positioning, and a well-engineered base body, our conveyor system is both light and compact – ensuring maximum efficiency without compromise.



COMPACT DIMENSIONS

Space-Saving Design for valuable cleanrooms



LIGHTWEIGHT DESIGN

Just 11 kg per unit



FURTHER ADVANTAGES

Drive with integrated controller

- ✓ Faster installation

Optimized sensors

- ✓ Less space required, easy installation

Field bus system (PROFINET)

- ✓ Reliable industrial standard components



Our commitment to Industry 4.0

Our systems support IoT

Interconnected Systems

Data Security

End-to-end visibility

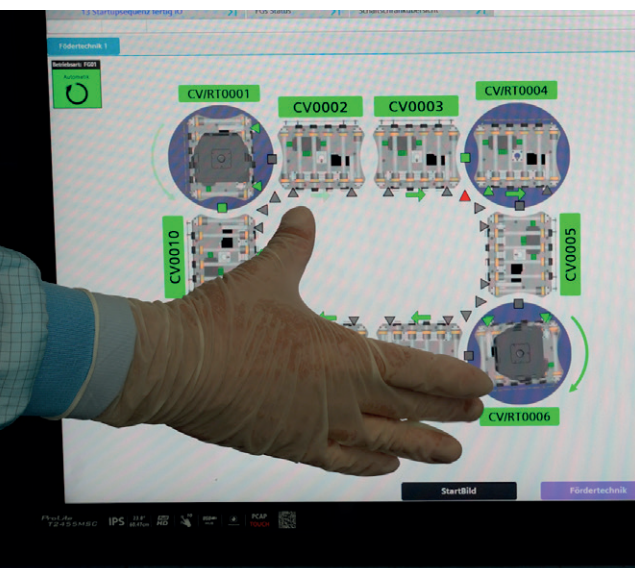
Preventative maintenance software and analytics



Our commitment to the Environment

Energy efficiency

Reduced carbon footprint through our corporate philosophy, using local providers, minimizing packaging, electric cars



MORE INFORMATION

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



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