

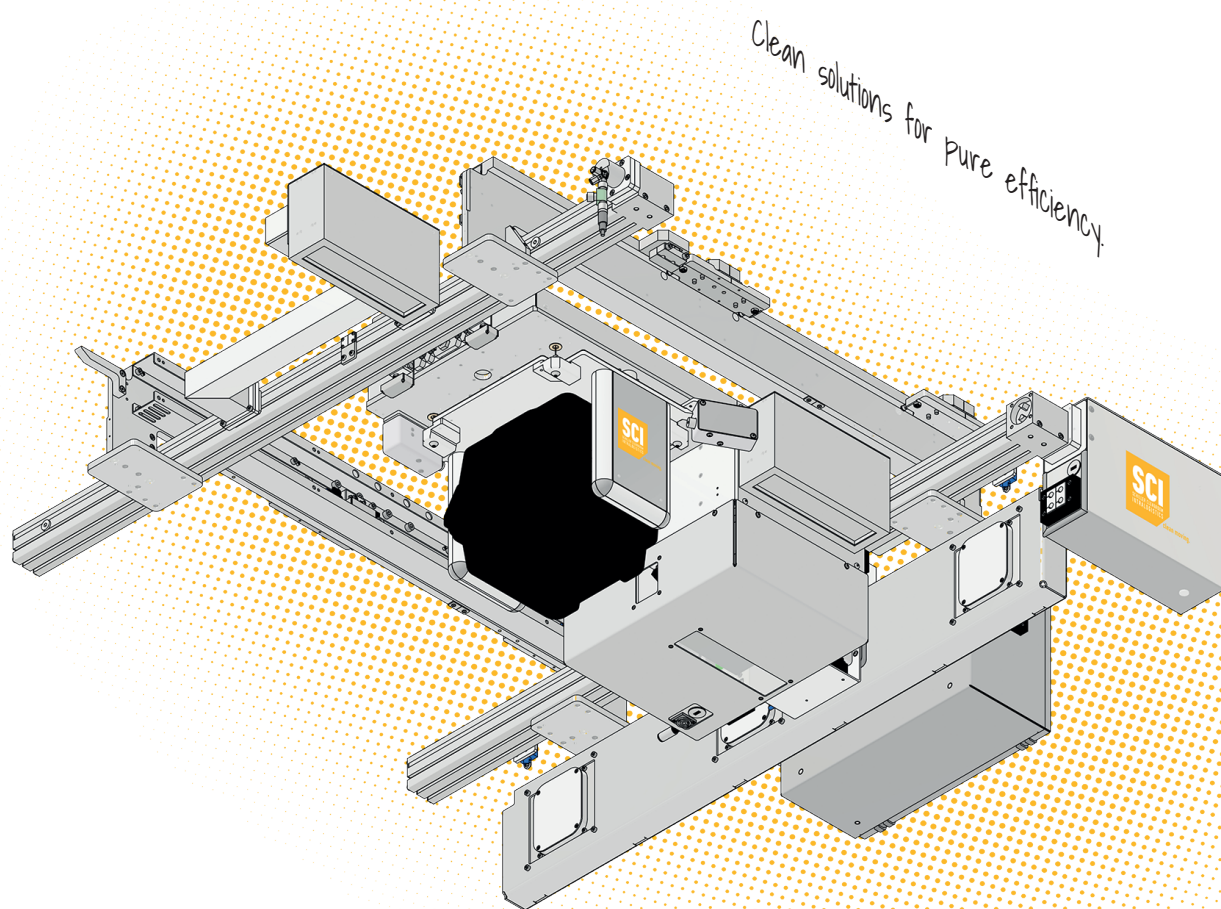
SCI

SCHILLER CLEANROOM
INTRALOGISTICS

clean moving.

LINEAR HOIST

The compact storage and transport system



DATASHEET · EN · 231012 · LINEAR HOIST · 1/5

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

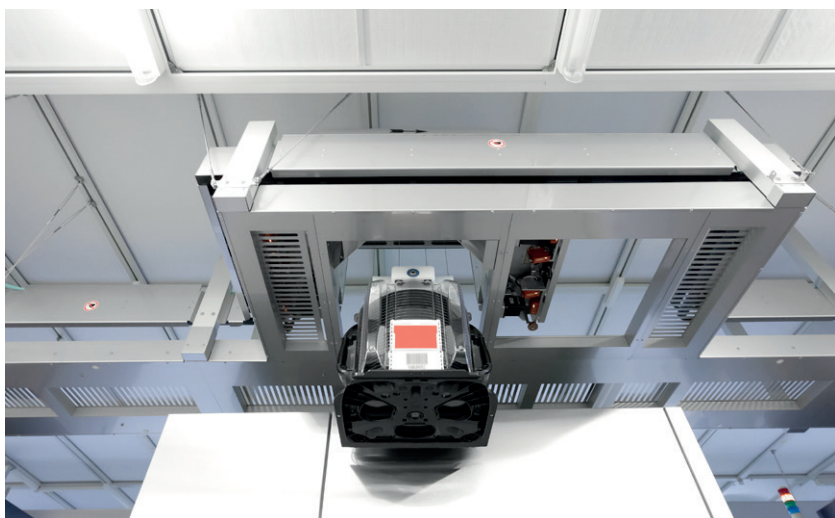
Schiller Automatisierungstechnik GmbH · Donau-Gewerbepark 30 · D-94486 Osterhofen

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AUTOMATION

System Specifications

Technical Data	
Compatible Carrier Types	FOUP / FOSB with top flange / HA 200
ISO Class (ISO14644)	3
Length	Max. 25 m
Width*	1,75 m
Hoisting height**	3,5 m
Average delivery rate	depends on project and carrier types
Interfaces	SEMI-E153 MCS / SEMI-E84 Transfer
Control System	Siemens TIA PLC
Inventory Management	SHostPro
Power Consumption	7 kW
* y – axis (horizontal)	
** z – axis (vertical)	



Application

The Linear Hoist is our Overhead Transport Systems (OHTS) as well as storage system for the automated storage and retrieval and delivery of different wafer carrier types and/or tools throughout the intrabay. This is a support system of precision and efficiency paramount in the production

of microelectronic devices, serving as a bridge between different tools and equipment, that ensures a smooth flow of production while maintaining product integrity and cleanliness.

Storage Spaces	
HA 200	Depends on space and client requirements
FOUP / FOSB Top flange	Depends on space and client requirements

Features

Features	
Robot Axes and High Packing density	Air extraction on axis and Airflow Monitoring
Desktop PC Win 10 LTSC 24" Panel	Aluminum anodized, powder-coated materials, stainless steel.
Stainless steel buffed to < Ra 0,8 surfaces	Energy and signal transmission via cables to the gripper

Key Benefits



Configuration and design optimized to customers' requirements.



Maximum uptime



Low cost of ownership



High storage density



Vibration free transport

The Linear Hoist automated carrier reduces the need for manual handling and offers a variable number of storage possibilities with a zero footprint. Together with our NEST on the fab floor, it composes a complete storage

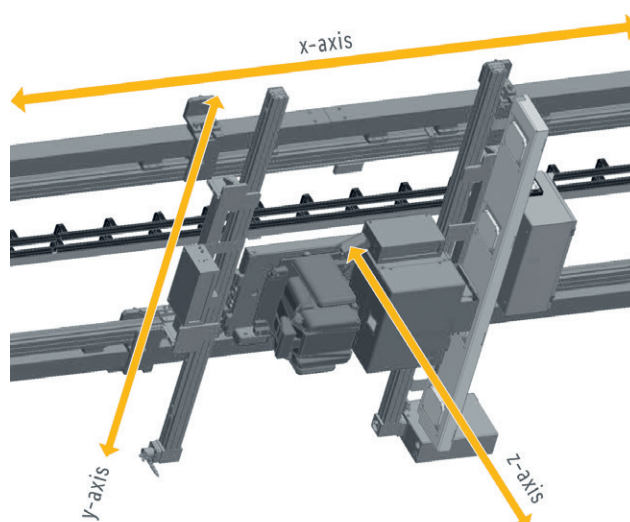
and delivery system, allowing even the opening of HA 200 boxes. The storage up to ISO class 3 ensures a contamination free storage in a vibration free environment. Governed by the EMS, it eliminates the risk of errors.

System Extras and Configuration Options

Extras
Magnetic Conveyor extensions
Connection to other equipment ports
Integration of external equipment (CV, AGV, Sorter, Shuttle)
Variable number of nests and transfers
System redundancy through cross-functional vehicles (parallel system)

Key Benefits

- ★ Streamline the workflow
- ★ Improve operational efficiency
- ★ Reduced contamination risk
- ★ Integrated inventory control



LINEAR HOIST

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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 www.schiller.de



Website and Video:
Get more information and see
how the Linear Hoist
works!