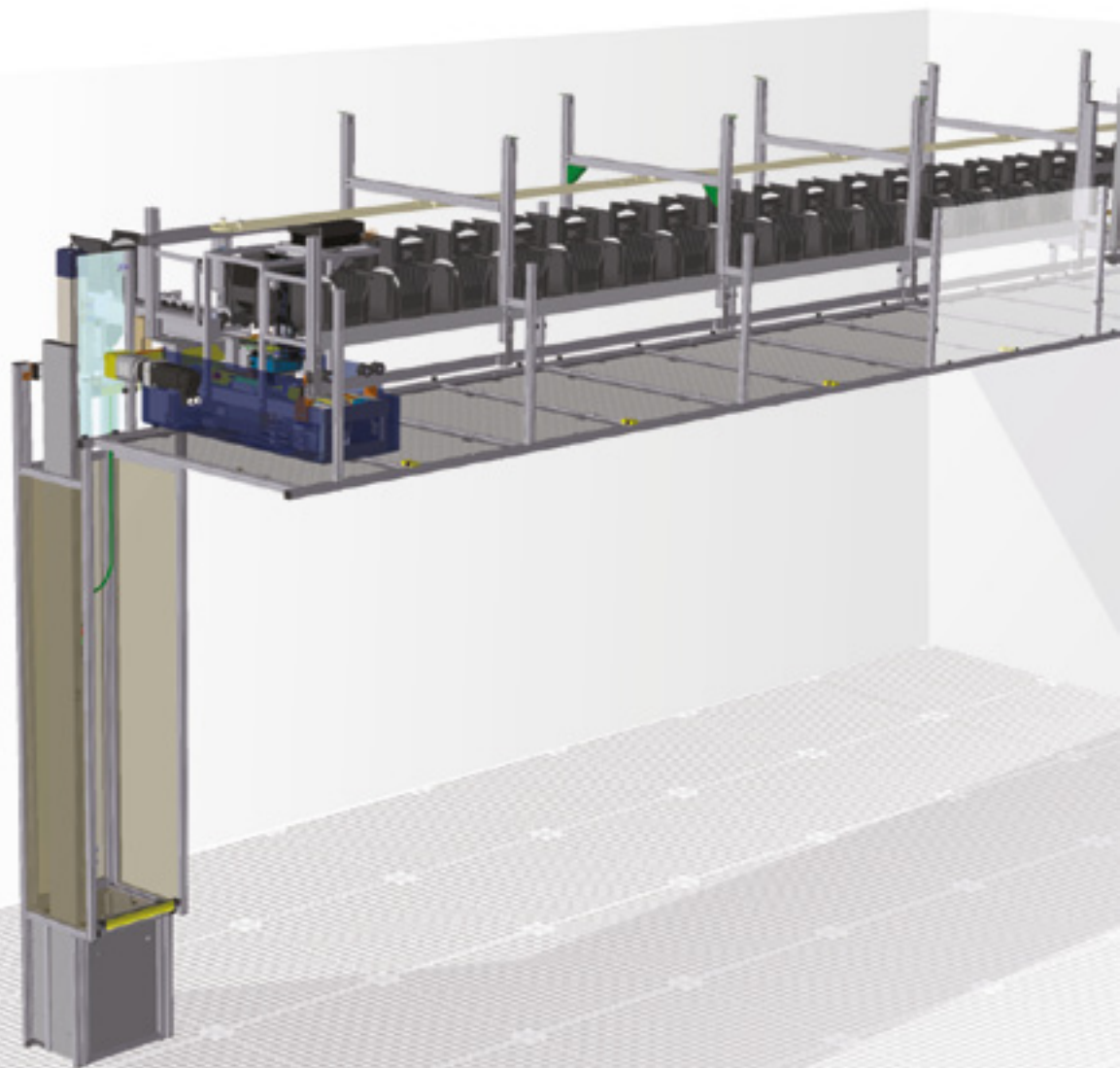


Factory
Automation
Solutions

ORTNER

FlatStocker

Your Zero Footprint
Storage Solution



FlatStocker

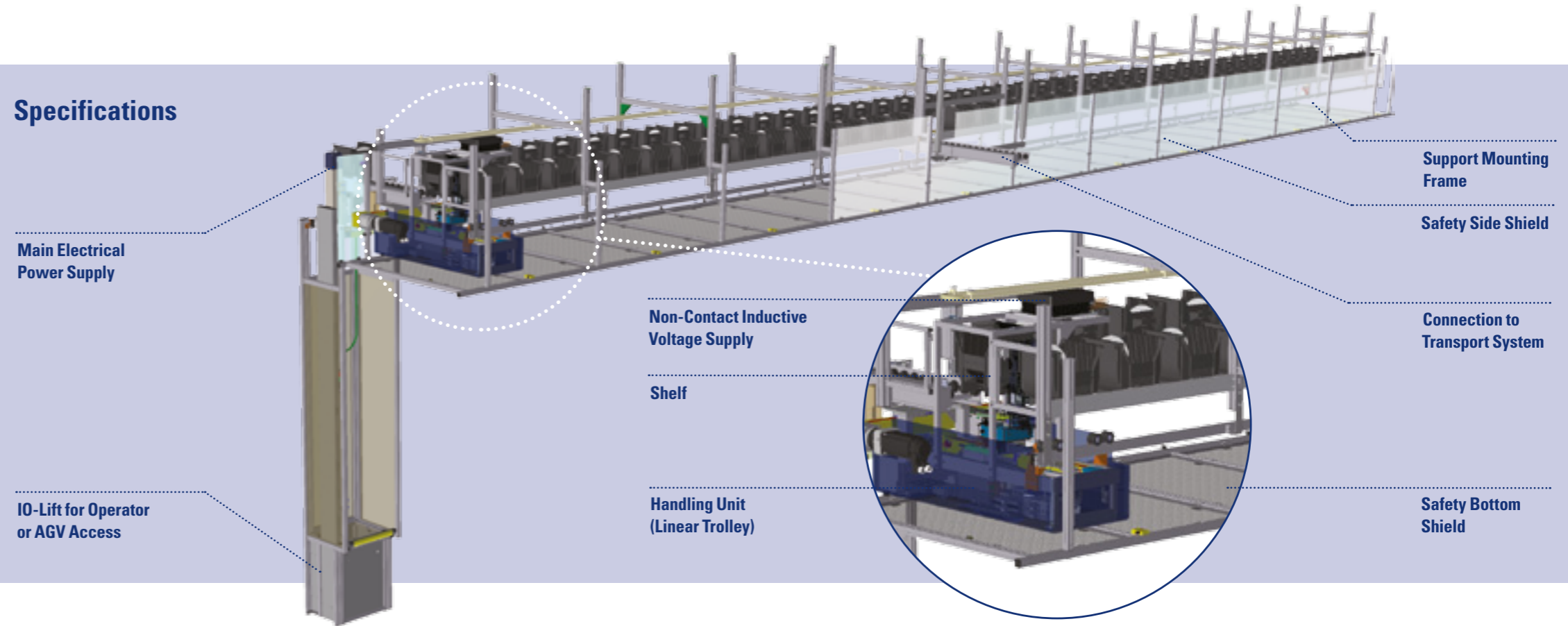
Your Zero Footprint Storage Solution

This innovative system is the ideal solution for the storage of wafer cassettes, FOUPs and other material carriers where floor space is limited and very valuable. Without using costly clean room floor, the FlatStocker hangs from the ceiling and can be designed to handle variety of cassette types. FlatStocker provides carrier id information in real time to the customer's MCS (Material Control System) using RFID technology.

Connection to a transportation system like overhead transport or conveyor system, combined with vertical lifts, enables the system to quickly store or retrieve lots.

The simple design, based on proven industrial components, gives great flexibility for most effective configurations to meet customer's storage and space requirements.

Specifications



Main Electrical Power Supply

IO-Lift for Operator or AGV Access

Non-Contact Inductive Voltage Supply

Shelf

Handling Unit (Linear Trolley)

Support Mounting Frame

Safety Side Shield

Connection to Transport System

Safety Bottom Shield

Technical Data

FlatStocker	
Capacity	85 carriers
Maximum length	14 m
Minimum width	853 mm
Speed (loaded)	0,700 m/s
Speed (unloaded)	1 m/s
Total Weight (5 m)	295 kg
Ceiling Surface Loading	59 kg/qm
Weight for each additional meter	50 kg
Power Supply	400 V / 50 Hz
Power consumption during normal operation	3 A
Interface Communication	Fab-LAN
Communication uplink	Ethernet

Features

Design

- Space saving storage of wafer cassettes underneath the cleanroom ceiling
- Flexible design adjustment according to customer needs
- Configurable number of bins

Efficient

- Construction saves space of valuable cleanroom floor
- Easy installation during running production
- Random access to storage bins enables quick store and retrieval times

Clean

- Cleanroom class up to ISO 3/US FED class 1

Technical

- Connection to a transport system (overhead transport system or conveyor elements) combined with vertical lifts enables quick lot access at any time
- non-contact power supply

Intelligent software

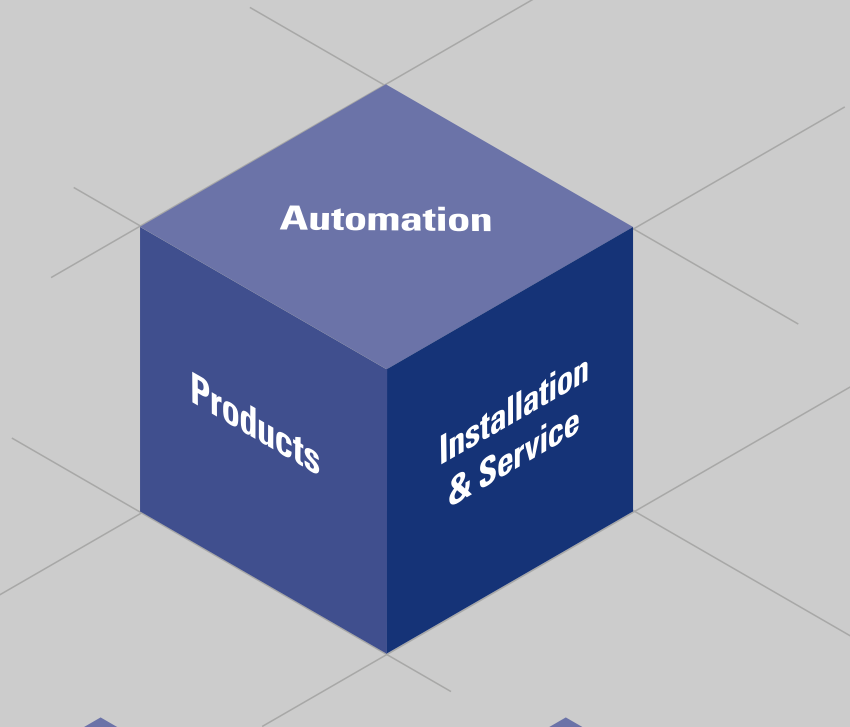
- Lean and flexible control system with SECS GEM compliant host interface based on SEMI E88 (Stocker SEM)
- Customizable GUI language
- SEMI E84 Interface for carrier transfer to other systems
- Inventory tracking via integrated RFID



Ortner's divisions at a glance

The missing Link

We have the enabling technologies you have been looking for to make your production lines more efficient and competitive.



Automation

Design, conception and implementation of customized automation projects for a safer and more efficient wafer and cassette handling



Products

Innovative solutions supporting the material-flow optimization such as RFID components, logistic systems and special products



Installation & Service

Customized service packages throughout the systems' life-cycle inclusive installation, commissioning, maintenance and failure analysis

Factory
Automation
Solutions

ORTNER

Roth & Rau - Ortner GmbH
Manfred-von-Ardenne-Ring 7
01099 Dresden / Germany
Phone: +49 351 88861-0
Fax: +49 351 88861-20
ortner.info@roth-rau.com
www.rr-ortner.com
www.the-missing-link.com

Roth & Rau - Ortner USA, Inc.
8410 South 700 East, Suite 100
Sandy, Utah 84070
Phone: +1 801 748 0476
Fax: +1 801 748 0158
ortner.usa@roth-rau.com
www.rr-ortner.com
www.the-missing-link.com



A member of Meyer Burger Group