

Customized
Design

Front-End Stocker System

SEMI S2-0715
APPROVED



Front-End Stocker System



FOUP Handling Robot

Function

Front-End Stocker System

- A kind of advanced Front End module with FOUP storage. 16 individual storage location totally.
- Advanced FOUP Handling Robot integrated within the system. It is fast and reliable to pick/ place the FOUP.
- N2/XCDA Purge system is available as an option for FOUP in every location.
- Support SECS/GEN protocol and friendly GUI interface.
- Cameras and video system built for monitor.

FOUP Handling Robot For FOUP Stocker

- Extremely thin wall mount base.
- FOUP holding by bottom clasper.
- High stroke long reach range to 3 columns of FOUP array.
- Top speed on the world for transfer vertical array of FOUP.

Specification

Front-End Stocker System (STK_F1)

Item	Specification
Storage Shelves	16 FOUP
Load Port	2
Robot	FRL1200-2380
Transfer Object	300 mm FOUP
FIMS	2
FOUP Robot Repeatability	±0.2 mm
Cleanliness	Class 100
Power	220VAC 50Hz/60Hz 1PH 3.3KVA
Dimension	2720 x 1594 x 3568 mm

*Customized service. Shelves and Interface can follow client requirement.

FOUP Handling Robot (FRL1200-2380)

Item	Specification	
Carring Object	300mm FOUP @ Full Wafers	
Operating Range	R-Axis (ARM)	±370 mm
	X-Axis (Track)	1205 mm
	Z-Axis (Up/Down)	2380 mm
Speed Range	R-Axis (ARM)	100 mm/s, Max: 250 mm/s
	X-Axis (Track)	500 mm/s, Max: 750 mm/s
	Z-Axis (Up/Down)	500 mm/s, Max: 1000 mm/s
Repeatability	±0.2 mm	
Cleanliness	Below ISO 5, Class 100	
Power	200~230VAC 50Hz/60Hz 3PH 3.5KVA	
Dimension	< 1699 x 615 x 2680 mm	