



COMPACT

300mm Sorter datasheet



COMPACT is our standard solution for mainstream Silicon wafer handling



SEMI300/S2/S14 compliant
ISO Class 1 mini-environment
Load-Ports SEMI compliant E15.1/E57/E62
Suits all SEMI compliant FOUP/FOSB carriers

FEATURES & Benefits

- Peerless footprint
- Vacuum Free A.C.T¹ backside or edge contact end-effectors
- Optimized Throughput with embedded notch aligner
- Available for FOUP's Stocker integration
- Connection with OHT available
- 2nm application compliant

MAIN SPECIFICATIONS

Type	RTS300A	RTS300B	RTS300C	RTS300D
Load-port configuration	2LP Stand-Alone	4LP Stand-Alone	2LP Stocker	4LP Stocker
Substrate type(s) ¹	300mm Si wafer: diameter 300 +/- 0.2mm, Thickness 775 +/- 20 µm			
Throughputs ² Wafer per Hour	<ul style="list-style-type: none">▪ Without OCR: Up to 515 wph▪ With OCR: Up to 320 wph			
Cleanliness ³	Down to 0.003 at 26nm particle size			
Power Voltage	Single phase 230 Volts (+/- 10%) 50/60Hz			
Full load current	5A	8A	5A	8A
Mini-environment	<ul style="list-style-type: none">▪ U16 Ultra Low Penetration Air Filters▪ ISO (14644-1) Class 1 mini-environment			
Wafer mapping	Double and cross-slotted wafer detection			
Carrier InfoPads	Highly configurable rules and behaviors			
HOST	Communication complies to SECS/GEM & GEM300 Standards			

¹For high resistivity wafer handling, please consult RECIF Technologies for examination

²Note: All throughput values include the opening and closing of carriers with standard Load ports, without rotation stage, assuming that FOUPs are full of 25 bare wafers. Measurements done in local mode, with factory settings, after sorter's adjustments properly completed. WIDR used is Keyence SR1000 model on T7 scribes.

³Particle per Wafer Pass. Measured in an ISO Class 4 cleanroom environment (as per ISO 14644-1), on a sorter properly maintained and with clean substrates and carriers (initial PWP at less than 20 particles)

¹ Advanced Contact Technology

AVAILABLE OPTIONS

- FOUP Protections
- Ionizer
- Flip
- AMC Filtering
- E84
- Carrier RF-ID and/or Barcode reader
- Rotational Loading stage
- Duplex Wafer ID reading
- N2/XCDA FOUPs' Purge
- & more...

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Recif Technologies reserves the right to ammend this information at any time

COMPACT 300mm Sorter

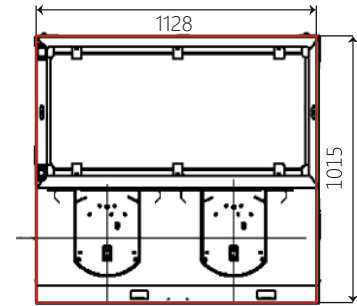
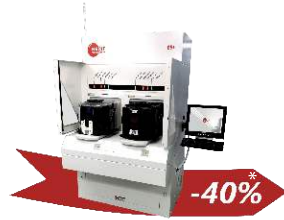
SORTERS LAYOUT

Width x Depth

2 Load Ports

1.13x1.02m

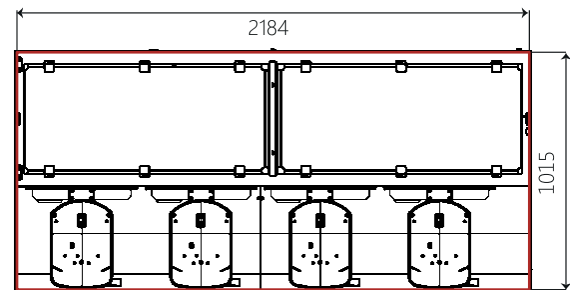
1.14m² / 12.27ft²



4 Load Ports

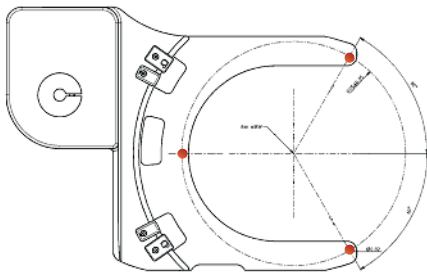
2.18x1.02m

2.22m² / 23.90ft²



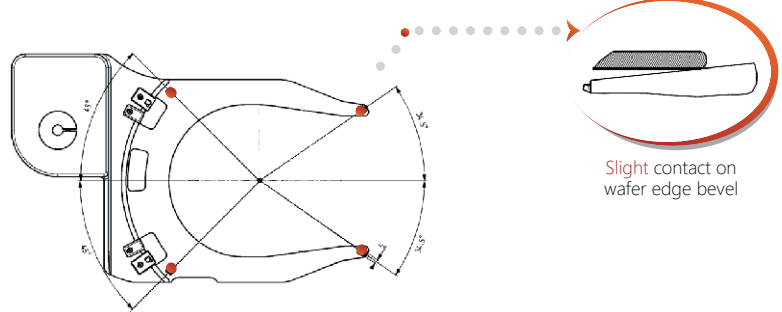
* Compared to the average market offer with equivalent Load port configuration

END-EFFECTORS LAYOUTS



Backside contact end-effector

Wafer contact area: **0.01%**



Edge contact end-effector

Wafer contact area: **0.003%**

STOCKER INTEGRATION LAYOUT

Integration into stocker

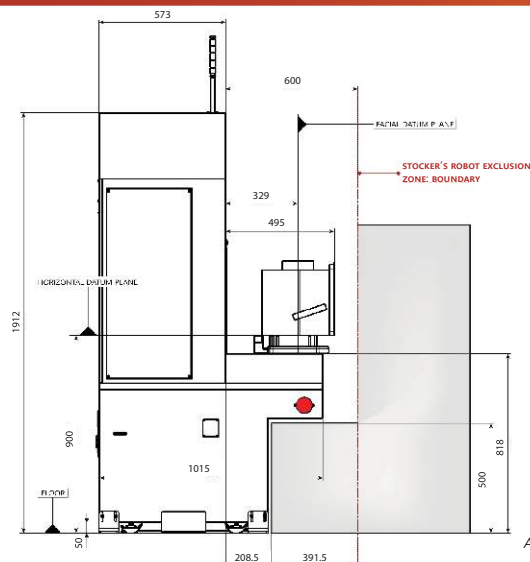
Side view

Applicable for 2 & 4LP (above footprints still applicable)

Tool can be raised up to 70mm from floor



Custom Integration



Above dimensions expressed in millimeters