

SMART EFEM

300mm EFEM datasheet



SMART EFEM is our complete Plug & Play solution



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

- Plug&Play solution
- Various substrates & materials
- Vacuum Free A.C.T¹ backside or edge contact end-effectors
- Dual Handling option (end-effectors & notch alignment station)
- Accomodating Auto segregation
- Connection with OHT available
- 2nm application compliant

MAIN SPECIFICATIONS

Type	FER300S	FER300M	FER300L
Load-port configuration	2 Load-Ports	3 Load-Ports	4 Load-Ports
Substrate type(s) Diameter 300 +/- 0.2mm	▪ Si wafer ▪ Glass ▪ Stacked ▪ Mold Compound		
Throughputs ¹	▪ Door opening (including mapping): 13s ▪ Wafer swap: 6s per each		
Cleanliness ²	Down to 0.003 at 26nm particle size		
Power Voltage	Single phase 230 Volts (+/- 10%) 50/60Hz		
Full load current	5A	6A	7A
Mini-environment	▪ 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		

¹ Measurements done in local mode, after sorter's settings & adjustments properly completed

² Particle 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 50 particles)

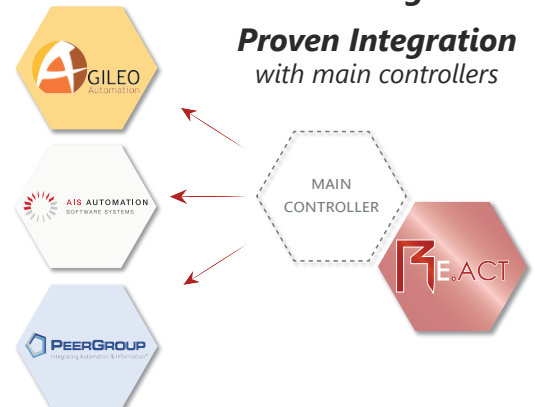
¹ Advanced Contact Technology

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...

EFEM Engine:

Proven Integration
with main controllers



www.reciftech.com

RECIF Technologies S.A.S

9 rue des briquetiers - 31700 Blagnac FRANCE
contact@recif.com

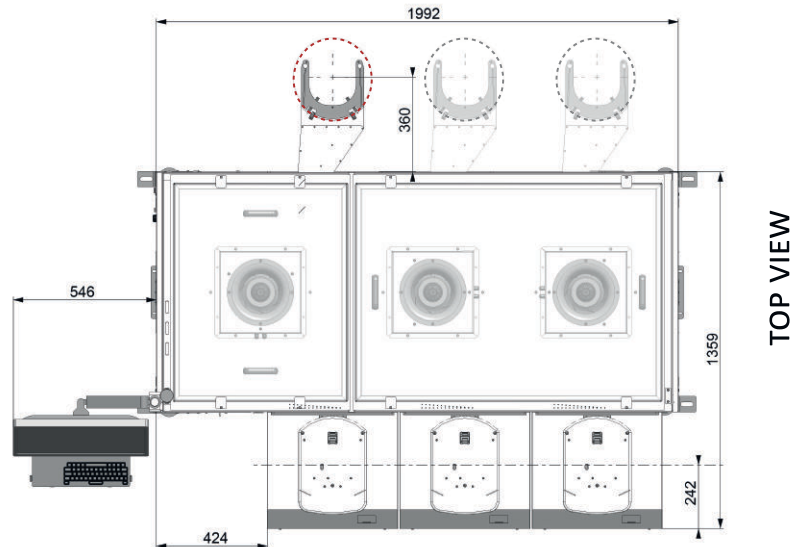
CE Intertek S2-S8

September 2022 - Non contractual document
Recif Technologies reserves the right to ammend this information at any time

ROBOT REACH

360mm max reach

Height
Min : 944 mm
Max : 1350 mm

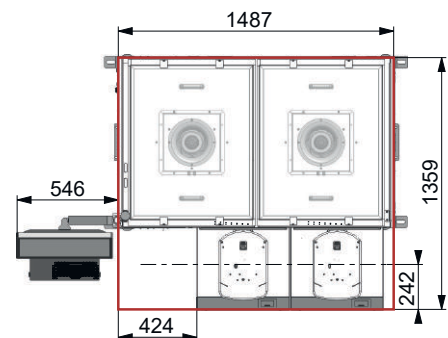


EFEM LAYOUTS Width x Depth

Width x Depth

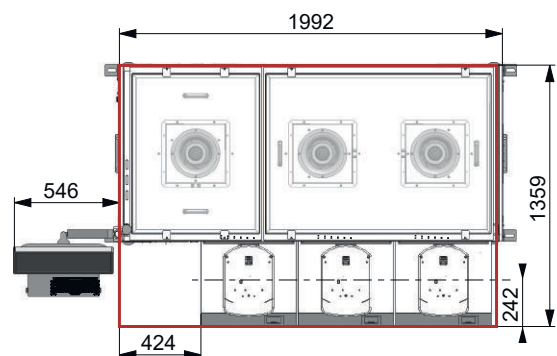
2 Load Ports

1.49*1.36m
2.02m² / 21.74ft²



3 Load Ports

1.99*1.36m
2.71m² / 29.06ft²



4 Load Ports

2.50*1.36m
3.39m² / 36.49ft²

