TDK

FOUP Load Port

TAS300

TYPE : J1

The TAS300 is a latest 300mm load port from TDK, for automatic Door open/close for front-opening unified pods (FOUPs).
The TAS300 Type J1 is a high-performance module that meet your needs for particle-free operation, fast throughput.

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Features

1 SEMI Standard

E15.1-0305 E57-0600 E62-0306 E63-1104 E64-1105
E110-1102 S2-0706 S8-0308 S14-0704

2 With all moving parts, including mapping unit, are installed below the wafer surface, which provides high-level particle-free design. The highest level of airflow analysis delivers particle-free design.

3 The air-cushioned pneumatic drive on docking plate and FIMS door opening provide calibration-free operation, with a wide variety of FOUPs (Supports 300 mm FOUPs compliant with SEMI E47.1 and E62.)

4 Transmission-type mapping unit optionally available.

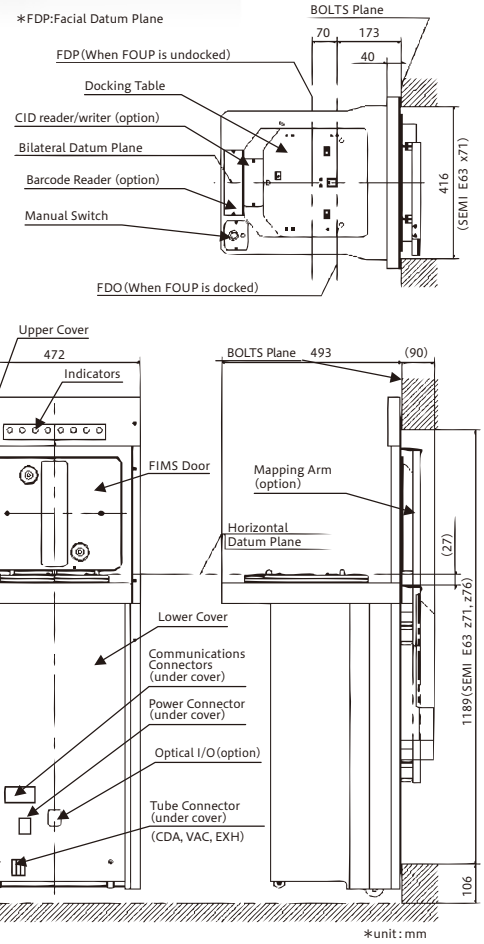
5 High-reliability design delivers trouble-free operation over a long period of time.

6 Obstacle detection sensors on Dock position.

7 FOUP/Placement detection.

8 Easy positioning mechanism to reduce installation time for mounting and dismounting.

External View



Supported FOUPs	
Manufacturer	**Type**
Entegris	F300 Auto Pod ; A300-G3 ; SPECTRA
Shin-Etsu Polymer	FOUP 300E ; FOUP 300EX
Miraial	KT-3003
Dainichi Shoji	SF300-02
Others	300-mm FOUPs compliant with SEMI E47.1 and E62

Standard Specifications				
External Dimensions and Weight	Full Height		1,386mm	
	Full Width		472mm	
	Depth		493mm(from BOLTS plane)	
	Weight		30kg(excluding options)	
Operation Times	Without mapping	Load	Max. 8sec(FOUP set → Robot access enable)	
		Unload	Max. 8sec(Robot access enable → FOUP eject enable)	
	With mapping	Load	Max.11sec(FOUP set → Robot access enable)	
		Unload	Max. 8sec(Robot access enable → FOUP eject enable)	
Docking Mechanism	FOUP clamp		Front retaining feature (Air driven)	
	FOUP door lock		Vacuum suction	
	Docking stroke		70mm	
	Repetition accuracy		±0.1mm	
	Distance from FDP to FIMS door		165.0mm	
	Distance from FDP to frame		167.0mm	
Utilities	Clean dry air	Pressure	0.52-0.60MPa (G)	6-mm outer-diameter air tube
		Flow	30L/min (ANR)	
	Vacuum	Pressure	-61±10kPa (G)	6-mm outer-diameter air tube
		Flow	10L/min (ANR)	
	Exhaust			6-mm outer-diameter air tube
	Noise		MAX 60dB (Aeq)	
	Power Source		24 VDC±5%, 3A(2-A at full load) Breaking capacity:50A	
Interface	Communication		RS232C	

Options		
Power Cable	Length	2m ; 4 m ; 6 m
Carrier ID Reader/ Writer	Keyence	BL-601 ; SR-610
	Omron	V640
	Brooks	LF80 ; LF60 Eco ; LF60 Solid
	Crossing Automation	ATR9100 ; PB-90
	Details about other CIDs available on request.	
E84	Optical I/O only	Hokuyo Automatic DMS-HB1; DMG-HB1
	Serial comm. control	Details available on request.
Interface		Ethernet(Details available on request.)
Comm. Protocol		SECS(Details available on request.)
Info Pad Pin	Info pads A, B	Electrical detection and lockout pins
	Info pads C, D	Lockout pins
Doubled-wafer detection sensor		Detects presence of two wafers in single slot. Details available on request.
Protrusion detection sensor for quart-glass wafers		Detection characteristics vary for each FOUP. Details available on request.

Safety and Usage Precautions TDK has prepared documentation providing important safety precautions and explaining how to use this equipment correctly and efficiently. Please request this documentation and read through it before using this equipment.

TDK Corporation
Technical Center Tel : 81-4-7378-9227
2-15-7 Higashi Owada, Ichikawa-shi,
Chiba 272-8558, Japan

https://product.tdk.com/info/en/products/fa/index.html