LOGOSOL

RELIABILITY IN MOTION

STANDALONE WAFER PREALIGNER

LPA12FS-3

Innovative, high-performance, all-in-one design eliminates external controller and interconnecting cables while maintaining drop-in compatibility

Fast swap functionality based on a proprietary design which allows for wafer chuck loading below the pin level

Advanced scanning electronics capable of detecting **transparent, semi-transparent and opaque objects** without mechanical repositioning between different wafer sizes

Motion control software featuring a comprehensive set of commonly used commands enabling **compatibility and interface with a variety of semiconductor platforms**
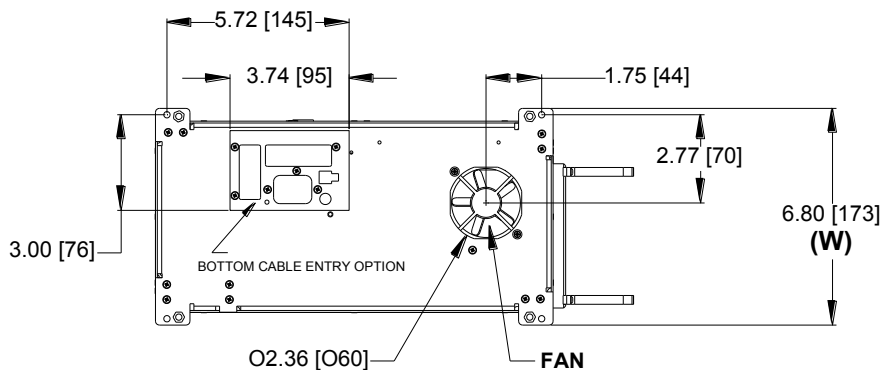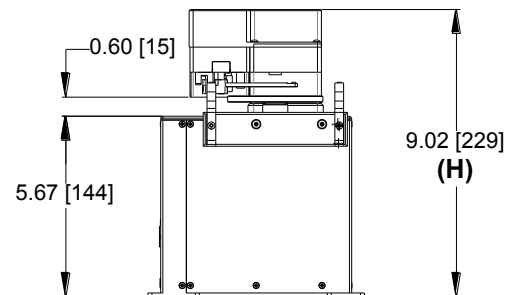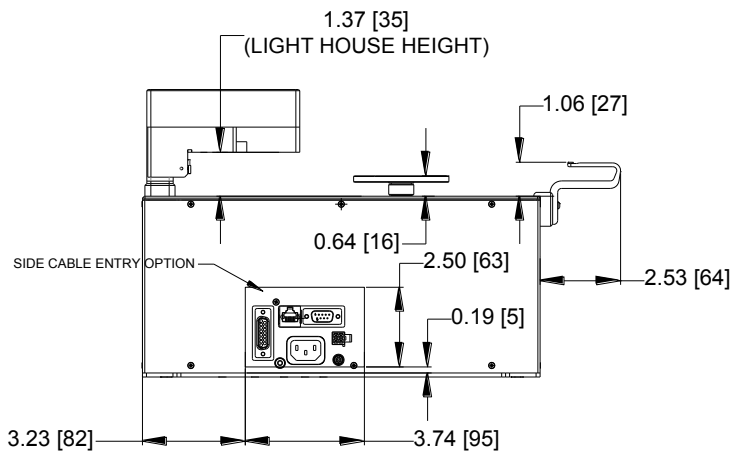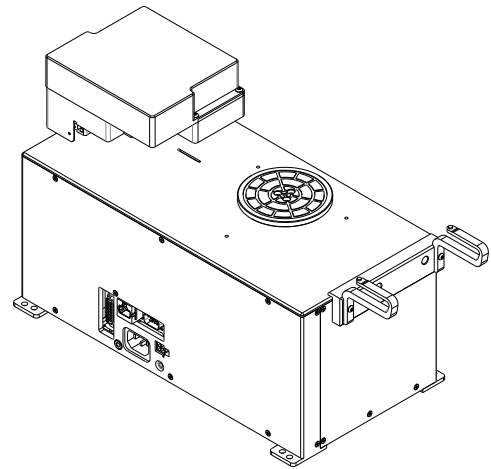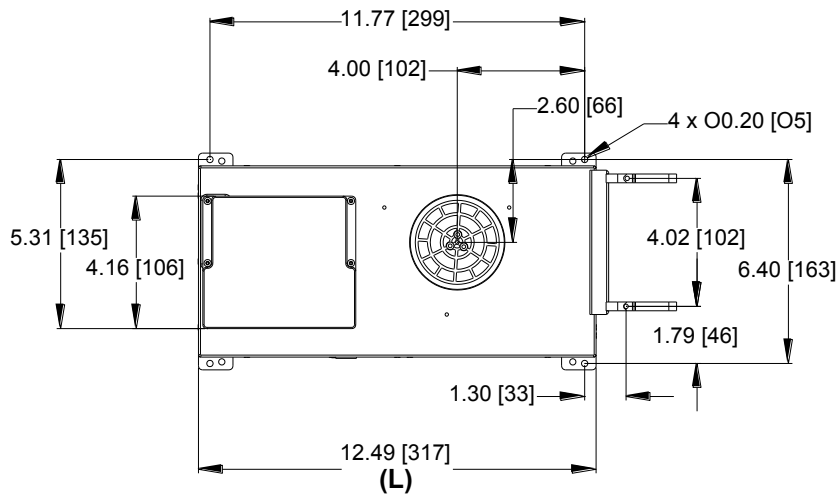
Typical alignment cycle time of less than five seconds facilitates the achievement of **maximum system throughput**

LPA12FS-3 SPECIFICATIONS

Wafer Diameter		300mm
Wafer Opacity		Transparent, Semi-Transparent, Opaque
Square Substrates		Limited
Wafer Handling		Vacuum Chuck and Passive Pins
Centering Accuracy		±25um on the Prealigner Chuck
Angular Accuracy (3 Sigma)	**10000 CPR Encoder**	±0.04° on the Prealigner Chuck
	24000 CPR Encoder	±0.02° on the Prealigner Chuck
Servo Axes		Three
Host Communication		RS232, Ethernet
Max Initial Wafer Offset		12mm
Body Dimensions (W x L x H)		173mm x 317mm x 229mm
Footprint Compatibility		LPA312-3, LPA1218-3 LPA8ET-3, LPA12ET-3
Weight		5.90kg
Facilities Required		100-240VAC, 50/60Hz, 48VA, or 24VDC/2A Vacuum 12" Hg
Flat/Notch Compatibility		SEMI Standards Compliant
Cleanliness		Class 1
MTBF		More than 70000 hours

LPA12FS-3 GENERAL DIMENSIONS

11.77 [299]

4.00 [102]

2.60 [66]

4 x O0.20 [O5]

5.31 [135]

4.16 [106]

4.02 [102]

6.40 [163]

1.79 [46]

1.30 [33]

12.49 [317]

(L)

1.37 [35]
(LIGHT HOUSE HEIGHT)

1.06 [27]

0.60 [15]

9.02 [229]
(H)

5.67 [144]

0.64 [16]

2.50 [63]

2.53 [64]

SIDE CABLE ENTRY OPTION

0.19 [5]

3.23 [82]

3.74 [95]

5.72 [145]

3.74 [95]

1.75 [44]

2.77 [70]

6.80 [173]
(W)

3.00 [76]

BOTTOM CABLE ENTRY OPTION

O2.36 [O60]

FAN

NOTE: All Dimensions — inch [mm]

For model numbers and options download: *LPA Series Prealigners Ordering Guide.pdf*