

# SAD Series

4-AXIS CYLINDRICAL COORDINATE, AND ARTICULATED  
DUAL-ARM CLEAN ROBOT

SEMI S2  
APPROVED  
ISO 10218-1  
CE



*Fully servo-driven dual-arm robot.*

- ☐ Sidewise shoulder joint design can decrease the rotating radius and enhance the picking and placing distance.
- ☐ All axes adapt closed-loop AC servo motor drive and are equipped with high-resolution absolute encoders.
- ☐ The high strength and rigidity of the arm allow it to carry larger loads, such as a flipping end-effector.
- ☐ Perform exchanging wafer and dual-arm synchrony pick/place actions.
- ☐ High-performance controller can achieve arc motion trajectories.

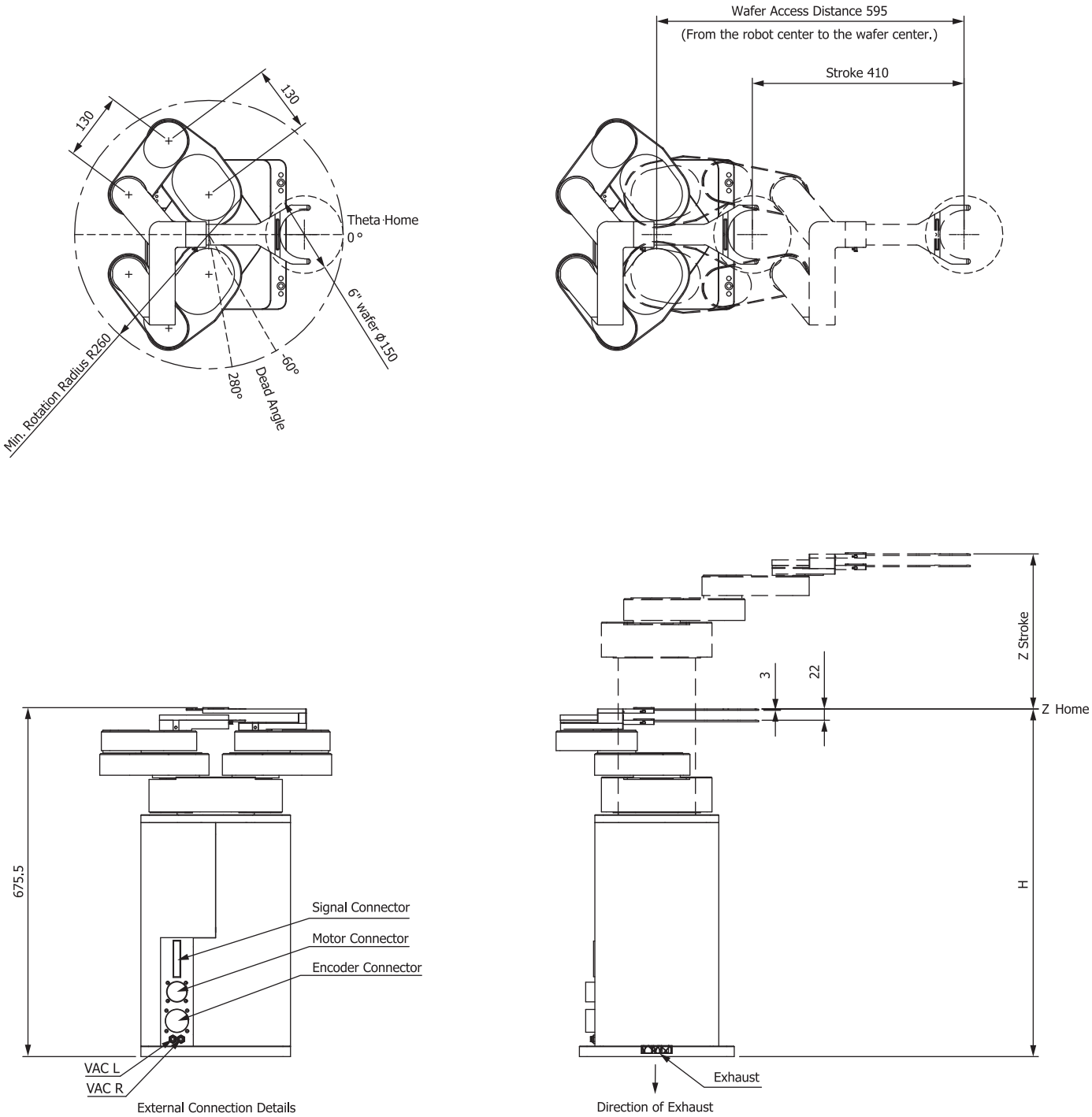
Specification

Item		Specification					
Model		SAD101		SAD201		SAD301	
Operating Range	Z-Axis	300/ 350/ 500 mm		300/ 350/ 500 mm		300/ 350/ 500 mm	
	Theta-Axis	340 deg		340 deg		340 deg	
	R/L-Axis (ARM)	410 mm		515 mm		615 mm	
Speed	Item	Maximum	Mean Time	Maximum	Mean Time	Maximum	Mean Time
	Z-Axis	400 mm/s	1.17sec/ 350mm	400 mm/s	1.17sec/ 350mm	400 mm/s	1.17sec/ 350mm
	Theta-Axis	300 deg/s	1.90sec/ 340deg	300 deg/s	1.90sec/ 340deg	300 deg/s	1.90sec/ 340deg
	R/L-Axis (ARM)*	1090 mm/s	0.70sec/ 385mm	1340 mm/s	0.70sec/ 475mm	1675 mm/s	0.70sec/ 595mm
Repeatability		0.1 mm					
Cleanliness		ISO 5~2					
Power		220VAC, 50Hz/ 60Hz, 1PH, 11A					
Payload Capacity		Below 3 kgf					

\* The maximum speed and average execution time of R and L axis will vary according to the end-effector design and stroke requirements.

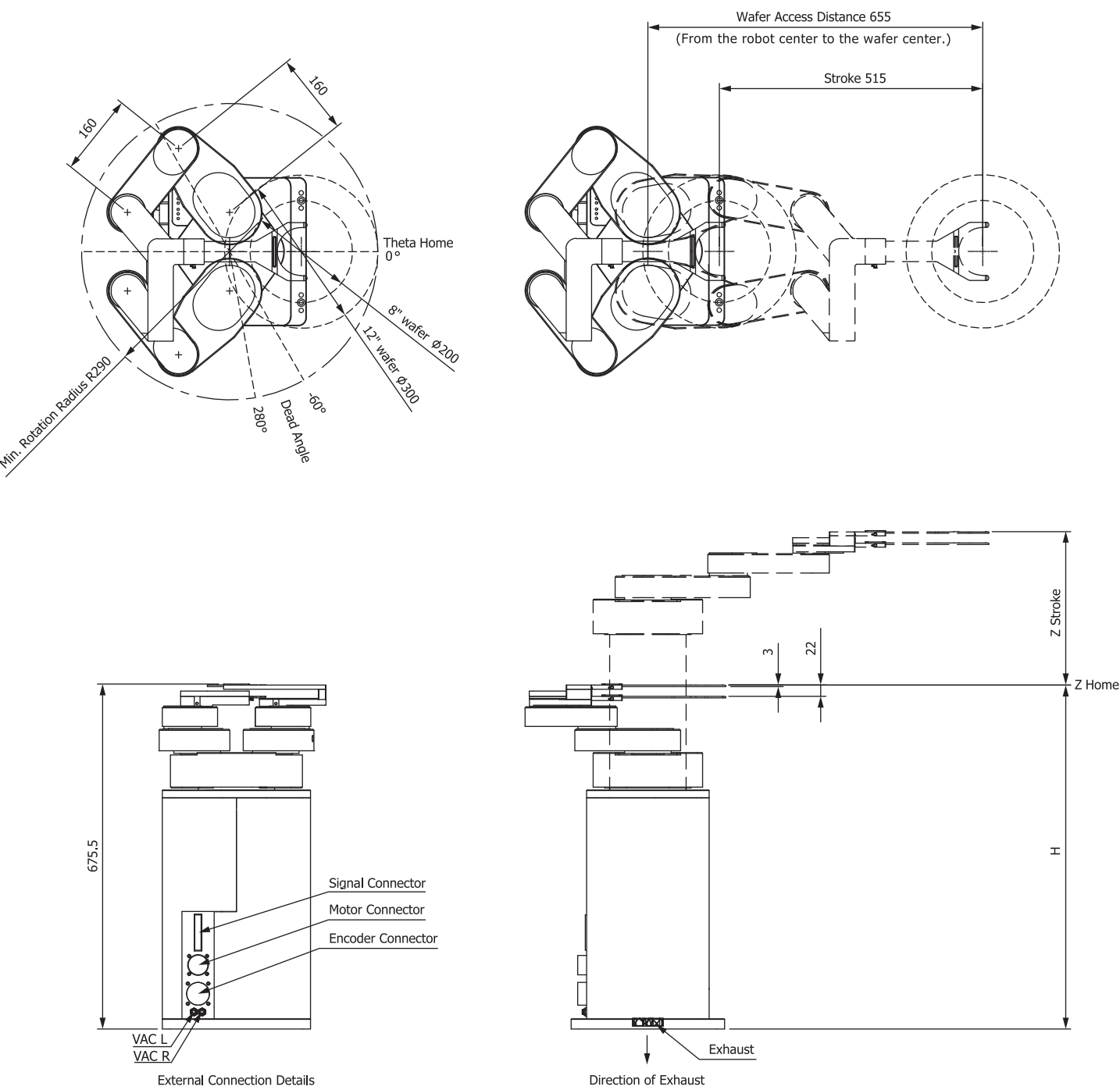
Dimensions

SAD101 Z Stroke: 300 mm, with wrist block unit.



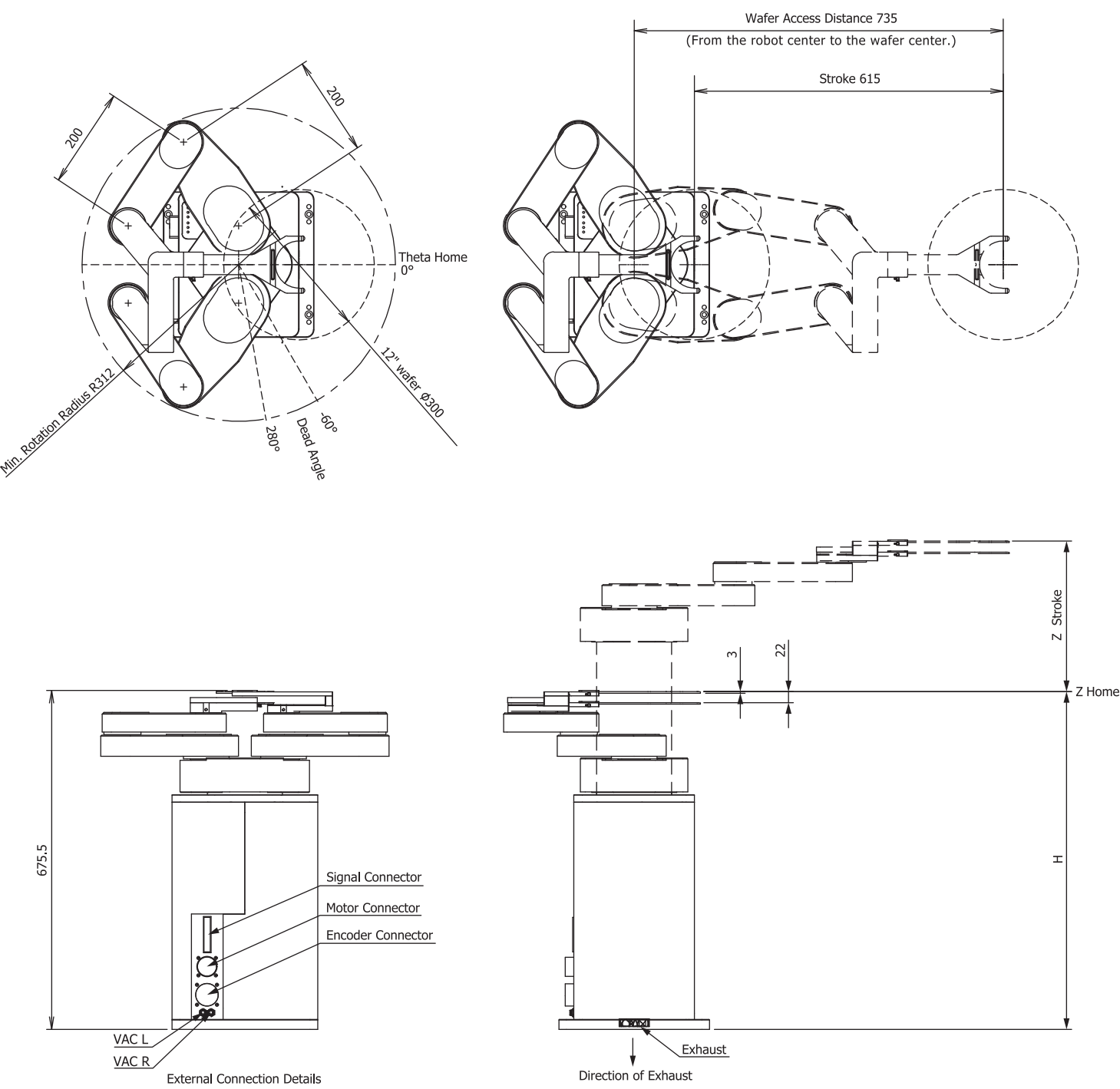
Z Stroke	H
300 mm	673.2 mm
350 mm	723.2 mm
500 mm	873.2 mm

Dimensions SAD201 Z Stroke: 300 mm, with wrist block unit.



Z Stroke	H
300 mm	673.2 mm
350 mm	723.2 mm
500 mm	873.2 mm

Dimensions SAD301 Z Stroke: 300 mm, with wrist block unit.



Z Stroke	H
300 mm	673.2 mm
350 mm	723.2 mm
500 mm	873.2 mm

RD-O3DM-18322D



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