



Vacuum Robotic Arms

Robotic Components

	HA-3.2	HA-5.0
Wafer Sizes	300mm†	
Maximum Payload	4.5kg*	
Mounting configuration	Top	
Axes of Motion	R, θ	R, θ , Z
Weight	30kg*	35kg*
Vacuum performance Base operating pressure Leak Rate	1x10 ⁻⁷ Torr 1x10 ⁻⁹ scc He/sec	
Input Power	24V DC at 10.0 Amps	
Maximum Temperature	100°C	
Exposed Materials	6061-T6 Aluminum, Stainless Steel 300 and 400 Series, Viton	
Control Interface	RS-232 / Ethernet	
MCBF	>1x10 ⁶	
SEMI S2	Compliant	
CE	Compliant	
Repeatability‡	(3 σ)	
	R	0.05mm
	θ	0.01°
	Z	0.05mm
Vertical Stroke	NA	35mm

† Hine Automation offers end effector for SEMI standard sizes up to 300mm.

Other sizes are available upon request.

* Payload depends on end effector. Higher payloads available upon request

‡ Measured as three standard deviations (3 σ)