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The HSA robot combines the idealized results of computer simulation with decades of Yushin robot design know-how to become an all-new, optimally-designed robot.

HSA

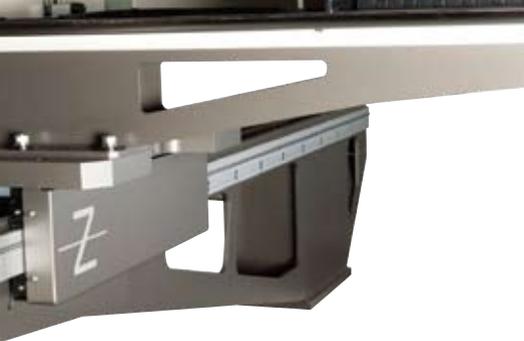


Why is a massive, several hundred kilogram robot needed to take-out a molded part that weighs just a few hundred grams?

Design Optimization is the process of applying CAE (Computer-Aided Engineering) to seek the most theoretically optimal form for a device. Recently, this new approach has started being used to design lighter weight and higher reliability into cars and aircraft.

It is remarkable to see that in many cases, optimized designs resemble natural structures such as trees and plants.

The HSA robot features optimal design and easy, reliable operation. Yushin is pleased once again to offer "Heartful Technology" to our customers.



Lighter, Slimmer, Steadier Robot Developed for World-Class Speed

High Speed: 13% lighter weight ⇒ 11% faster take-out, 14% faster full cycle

Low Profile: 38% slimmer wrist allows mold opening to be narrowed by 41mm to accelerate molding cycle

Anti-Vibration: Employs active vibration suppression essential for high-speed operation and smooth take-out

* Measurements above are relative to previous comparable Yushin model

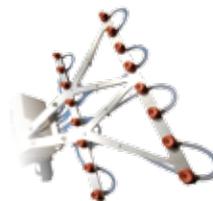
Optimal Weight – design optimization trimmed excess material from design

Breakthrough Speed – via weight reduction

Exceptional Reliability – optimal design minimizes mechanical stress



Optimum Design End-of-Arm Tool



Optimized EOAT contributes to higher speeds, and eases mechanical stress to offer stable and swift take-out of molded parts.

E-touch II-K Controller



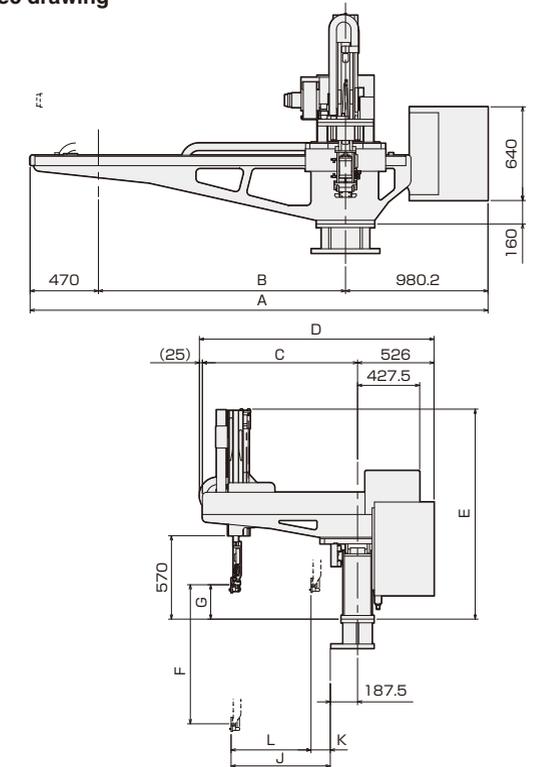
Controller delivers greater ease of use with integrated 3D Simulator and Motion Chart screens.

*Smaller *E-touch Compact II* controller also available as an option

ECO Vacuum

Monitors air pressure while robot suction-grips parts and only turns on air lines when necessary.

Spec drawing



Model	A	B	C	D	E	F	G	J	K	L
HSA-150S	3150.2 (3350.2) (3650.2) (3950.2)	1700 (1900) (2200) (2500)	1067.5	1618.5	1434.6	850	235	682.5	132.5	550
HSA-250S			1277.5	1828.5	1484.6	950		892.5		760

Specification

Power source	Driving method	Control method	Air pressure	Maximum air pressure	Wrist flip angle
3 Phase AC200V 50/60Hz	Digital servo motor (3-axis)	Micro computer control	0.49MPa	0.79MPa	90°

Model	Maximum power consumption	Traverse stroke (mm)	Kick stroke (mm)		Air consumption L(Normal)/cycle	Maximum payload (kg)	Main Unit Weight (kg)
			Main arm	Main arm			
HSA-150S	3 Phase AC200V 18.9A Max.	1700 [1900] [2200] [2500]	550	850	5.6	3	550
HSA-250S	3 Phase AC200V 18.9A Max.		760	950			

[] = extended traverse model < > = extended vertical stroke model
Support stanchion comes standard with models 2200mm or longer.