All-Axis Servo Driven Type
Swing Type
Side Entry Type
For Vertical Molding Machine
Stock System
Product Series Guide P11
HST-250S/D/DS

HST-250S/D/DS

Lighter, faster construction achieves shorter settling time with a focus on improving productivity

* Robots are available in 2 different colors.

CE

For CE supported languages, please contact our sales department.

- Clamping force 180 - 300 tf
- High speed
- Vibration control
- Optimized design
- LOW Low posture (Double speed mechanism)
- All-axis servo-driven

Built Lighter & Faster

The shape and structure of most HST components were formed with design optimization technology for lighter weight. This innovation trimmed 72.5 kg from the HST's moving components, making it 25.4% lighter than the previous series. The HST achieves 9.2% faster speeds than the previous series without a motor size increase.*1

Shorter Settling Times Design Optimization + CFRP + Anti-Vibration Controls

The HST's extensive design optimization studied traits including natural oscillation and damping characteristics to dramatically improve vibration control. Settling time (time required for oscillations to calm down to within a set value) was reduced by 98.6%.*2

*1 Measured on the HST-400
*2 Measured on the HST-150

Standard Specifications

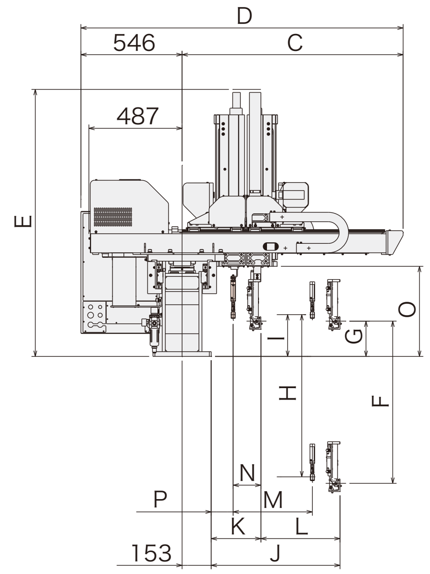
Power supply	Drive method	Controller model	Working air pressure	Flip angle
3-phase 200 VAC/220 VAC/230 VAC (50/60 Hz)	Digital servo motor 3/5-axis	E-touch Ⅱ/ E-touch compact-YC	0.49 MPa	90°

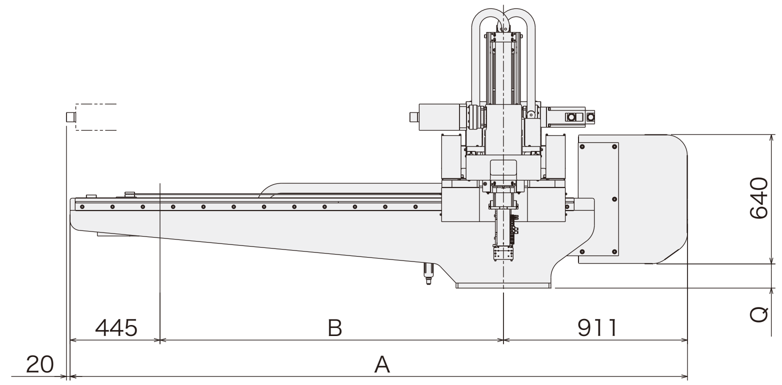
Model	Power consumption	Traverse stroke [mm]	Kick stroke [mm]		Vertical stroke [mm]		Air consumption [NL/cycle]	Payload [kg]	Noise [dBA]	Target IMM clamp capacity [tf]
			Main arm	Sub arm	Main arm	Sub arm				
HST-250S	6.0 kVA 3-phase 200 VAC 17.3 A Max.	1500 (1700) (1900) (2200) (2500)	760	—	950 (1100) (1300)	—	4.3	5	79.4	180-300
HST-250D	8.0 kVA 3-phase 200 VAC 23.1 A Max.		570	570		950 (1100) (1300)				
HST-250DS	9.0 kVA 3-phase 200 VAC 26.0 A Max.		720	720			8.4			

S type : Robot is equipped with main arm only. D type : Robot is equipped with main arm and sub arm. DS type : Robot is equipped with two main arms.
( ) : Modified stroke
Payload includes the end-of-arm tool.
Traverse beam stanchion is standard equipment for traverse stroke over 1700 mm.

Separate catalog available

Dimensional Drawings [mm]





[mm]

Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
HST-250S	2856 (3056) (3256) (3556) (3856)	1500 (1700) (1900) (2200) (2500)	1372	1918	1542 (1622) (1714)	950 (1100) (1300)	235	—	—	883	123	760	—	—	566	111	185
HST-250D								950 (1100) (1300)	270		313	570	570	202			
HST-250DS			1522	2068					235	1033		720	720	249		64	

( ) : Modified stroke

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All-Axis Servo Driven Type Take-Out Robot