

FASTER SERVICE AND RESPONSE TO YOUR WIDER NEEDS

ROBOTS AND AUTOMATION SYSTEMS FOR INJECTION MOLDING MACHINES



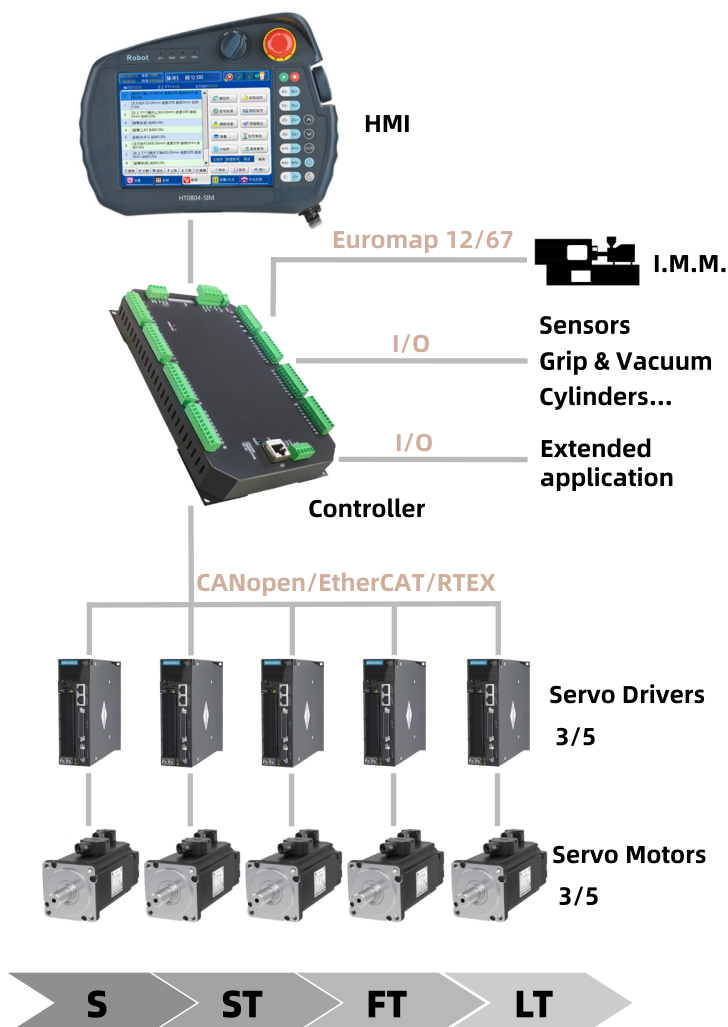
WIDFASTER

www.widfaster.com

**WIDFASTER has faster response on your needs,
and consider more for you.**



Control System Architecture



Injection Molding Machine

50 ~ 1500 Ton



Arm Payload

2 ~ 30 kg



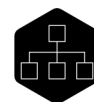
Mechanical Structure

High Rigidity and Stability



Servo Motor

Absolute Encoder



Field Bus Protocol communication

CANopen / EtherCAT



Control System

Professional closed loop system



Flexible Configuration

Meet the different budgets

S

ST

FT

LT

Lite

Pro

Max

WIDFASTER has Flexible Configuration to meet your different budgets.

Series	Lite	Pro	Max
Control System	OEM – Professional controller for robot of injection molding machine		
Servo System	Economical Drive-control Integration	Standard servo drivers and motors	Flagship servo drivers and motors
Motor Encoder	Incremental type – 18bit	Absolute type – 18bit	Absolute type – 23bit
Communication Protocol			
STO *	-	-	Optional
Safety Relay	-	Optional	Standard
Linear rails / bearings	 / 	 / 	 / 
End of Arm	2 X Pressure circuits 2 X Pressure circuits	2 X Pressure circuits 2 X Pressure circuits	2 X Pressure circuits 2 X Pressure circuits
Spare I/O	6 X Input signals 6 X Output signals	6 X Input signals 6 X Output signals	6 X Input signals 6 X Output signals

* "STO" is Safe Torque Off for the safety disable on the servo motors.

IN MOLD LABELING (Side Entry Robot)

Performance IML robot is for high speed and multiple cavities production.

Label Magazine

- Customized optimization design,
- Modular design,
- Quick-changing

Products Type

- Lid,
- Round,
- Oval,
- Rectangular,
- Polygonal

Stacking Unit

- Modular design,
- Flexible design,
- Servo Motor,
- Conveyor

Label Type

- Flat,
- Wrap-around,
- 3 & 5 sides,
- Wrap-around with Bottom,
- 3D Label



Static System

- Performance Static Generator,
- Simple operation,
- Adjustable 0-20KV

Safety

- Interlocking main safety door,
- Maintenance doors between robot and I.M.M.

I.M.M.

- 200 ~ 550Ton,
- For high speed packaging I.M.M.



Pro

Max

IN MOLD LABELING (Top Entry Robot)

Apply to long cycle products and more economical solution.



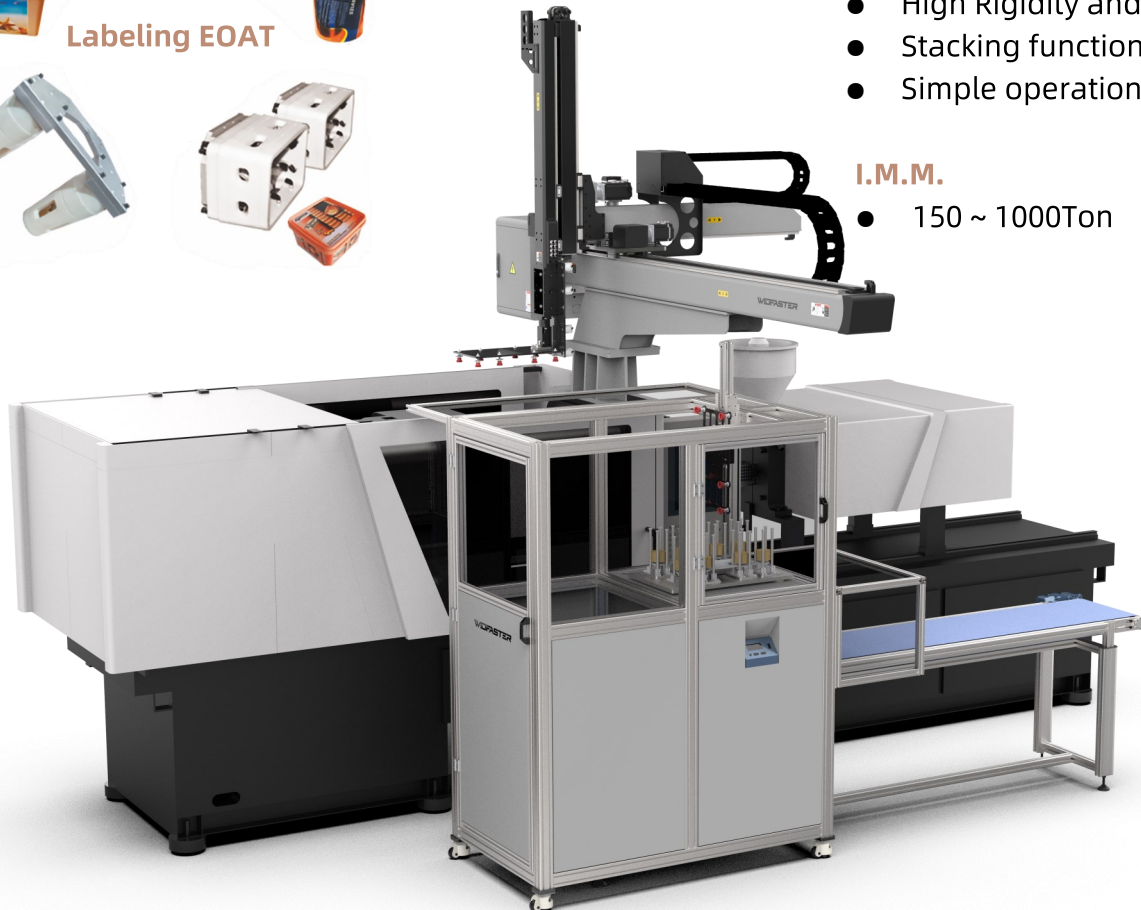
Labeling EOAT

Robot

- 3 or 5 axis servo robot,
- High Rigidity and Stability,
- Stacking function,
- Simple operation

I.M.M.

- 150 ~ 1000Ton



Label Magazine

- Customized optimization design,
- Modular design,
- Quick-changing

Static System

- Performance Static Generator,
- Simple operation,
- Adjustable 0-20KV



Pro

Max

WIDFASTER has a wide range of robots to meet your different application needs.

Provide High-Performance Automation for different industries.



Automotive

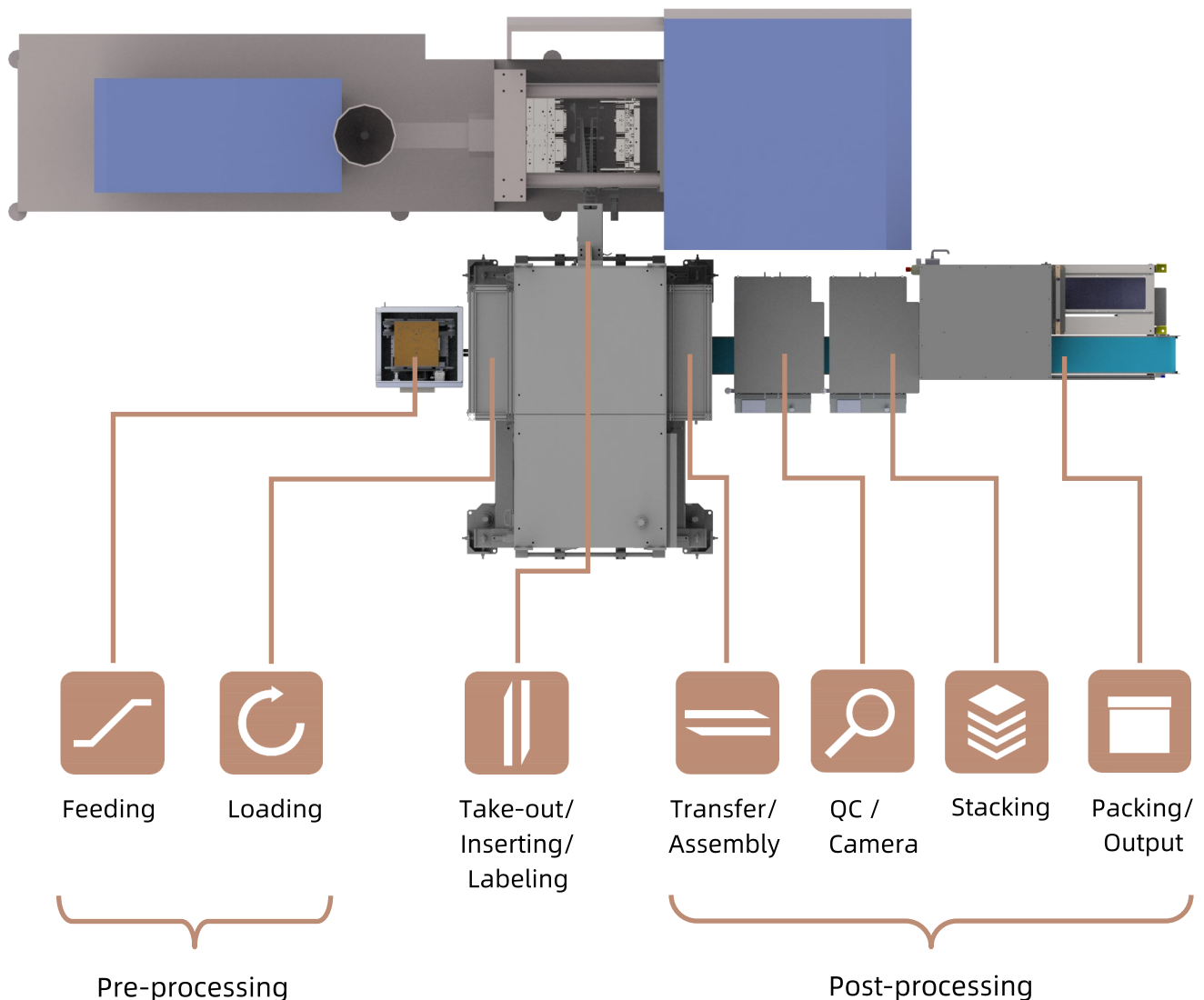


Medical

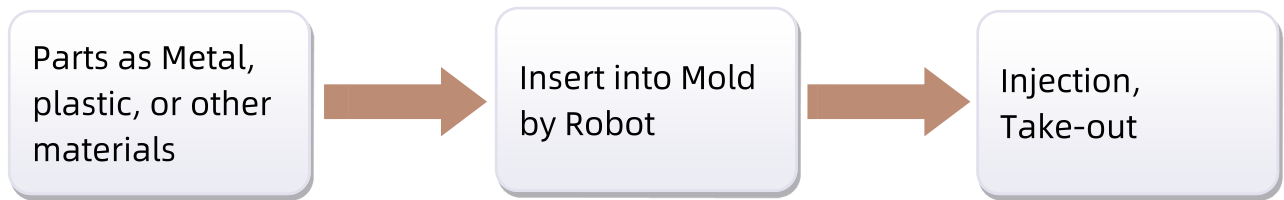


Consumer
Goods

The different automation solutions are made up of different processes modules.



Insert Molding (Overmold)

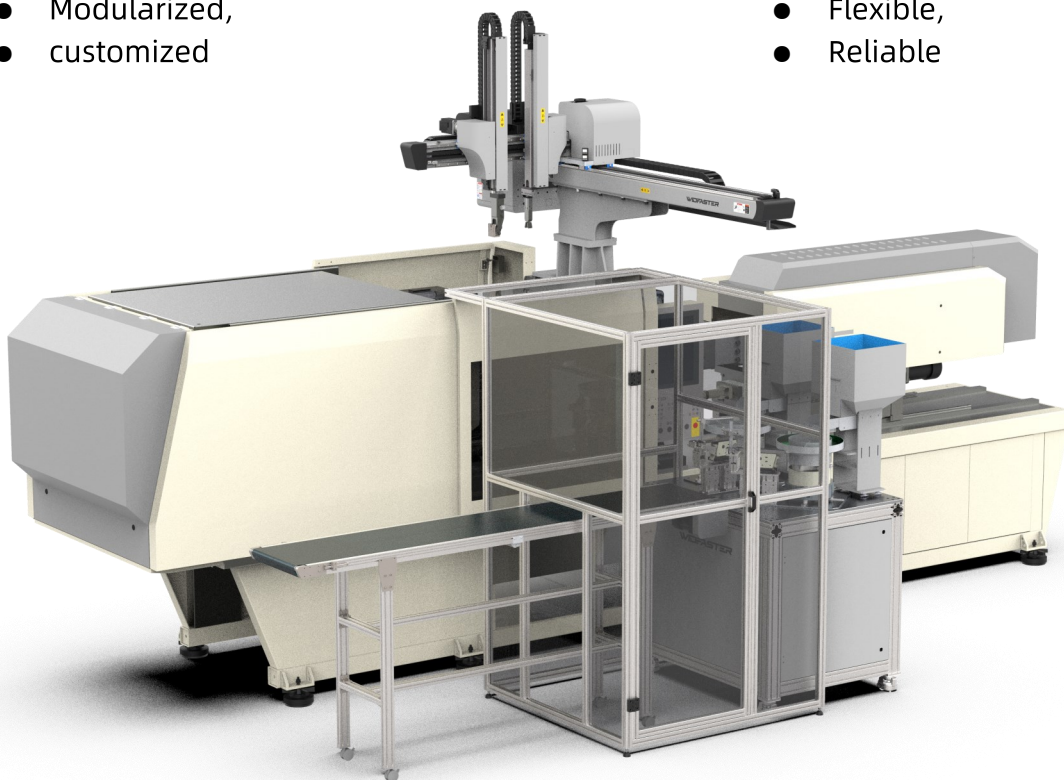


EOAT (End of Arm Tooling)

- High precision,
- Modularized,
- customized

Servo Robot

- Positioning accuracy,
- Flexible,
- Reliable



Output

- Conveyor

Safety Guarding

- Safety protection,
- Safety interlock

Feeder of inserts

- Automatic,
- Semi-automatic,
- Manual



Medical Products Application

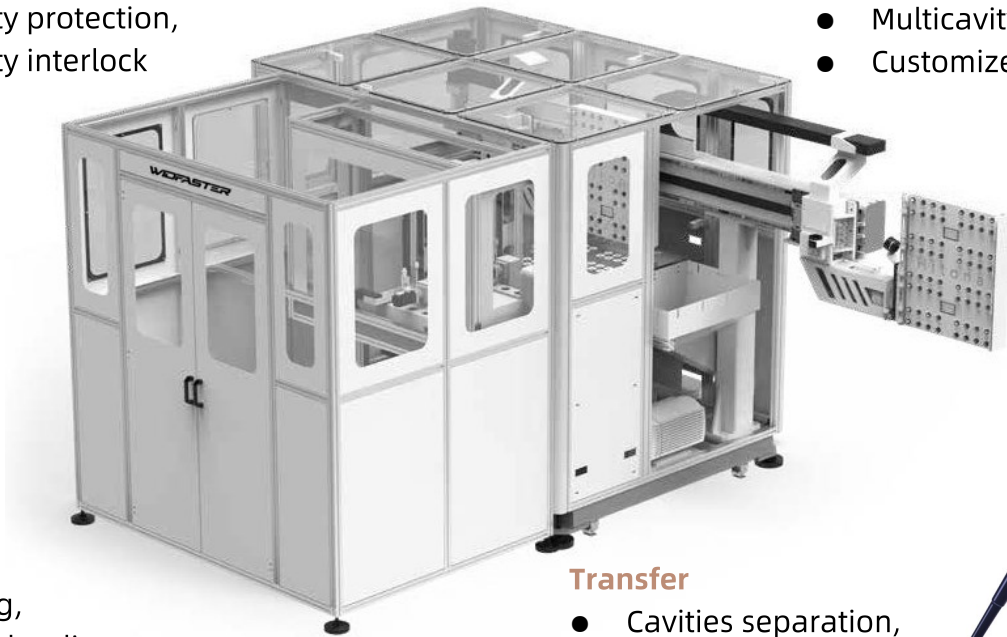
Blood Collection Tube Take-out and Packing System

Safety Guarding

- Safety protection,
- Safety interlock

EOAT (End of Arm Tooling)

- High precision,
- Multicavity,
- Customized



Output

- Boxing,
- Boxes loading

Transfer

- Cavities separation,
- Permutation,
- Sampling



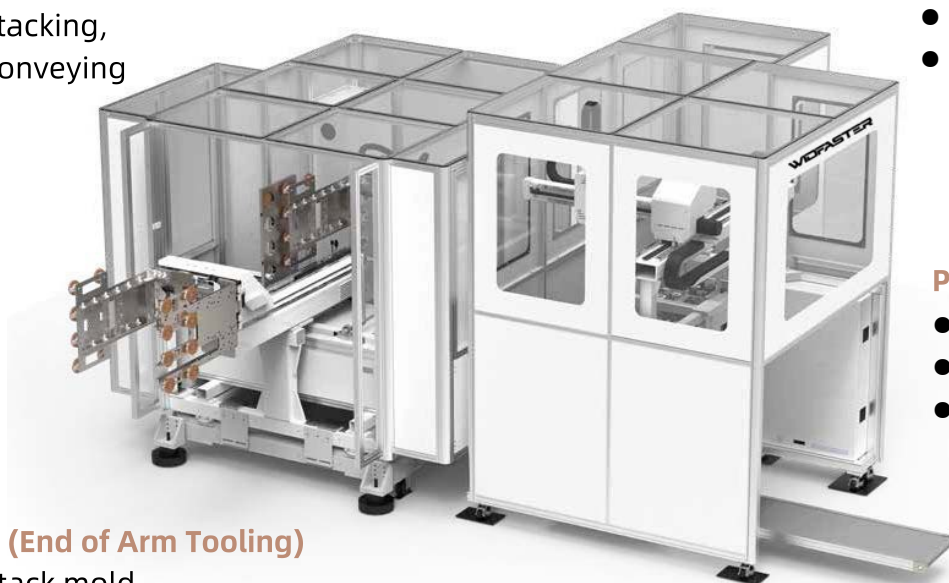
Petri Dish Take-out and Packing System

Transfer

- Assembly,
- Stacking,
- Conveying

Safety Guarding

- Safety protection,
- Safety interlock



Packing Unit

- Bag cutting,
- Bagging,
- Sealing

EOAT (End of Arm Tooling)

- Stack mold,
- customized



Consumer Goods Application

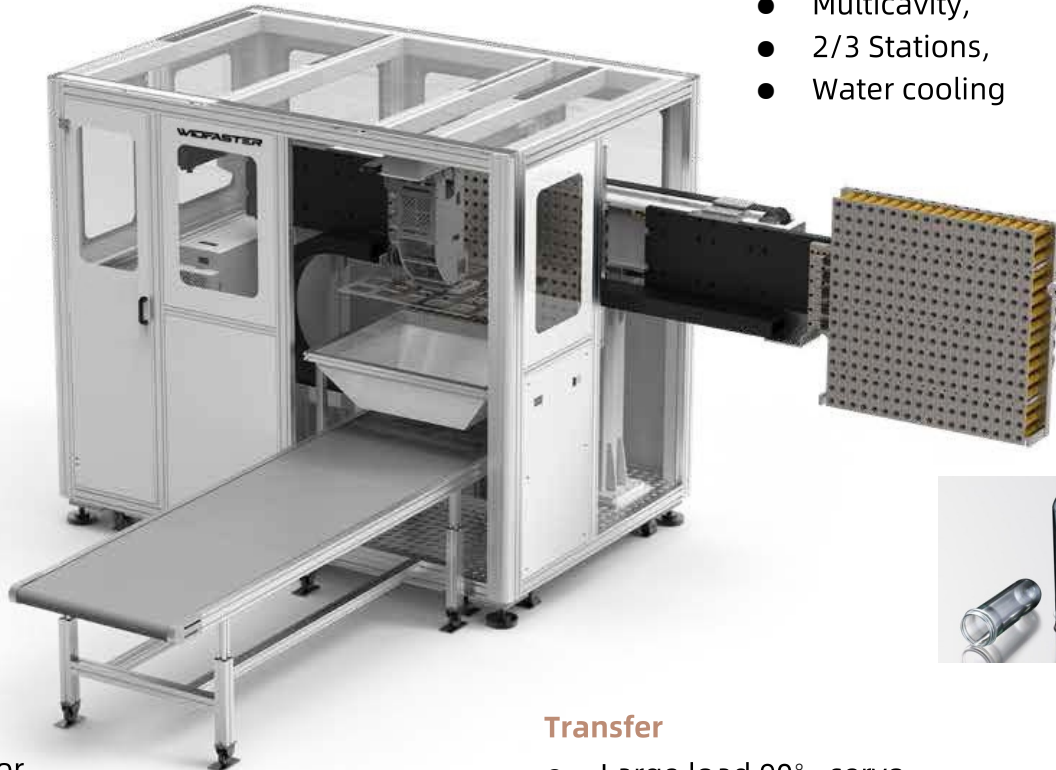
PET Perform Take-out and cooling System

Safety Guarding

- Safety protection,
- Safety interlock

EOAT (End of Arm Tooling)

- High precision,
- Multicavity,
- 2/3 Stations,
- Water cooling



Output

- Conveyor,
- Cooled products

Transfer

- Large load 90° servo rotation unit



- EOAT has Multi-station cooling design, each cavity has vacuum and water cooling to save the cooling time in mold (It can save the 70% cooling time in mold).
- 2 or 3 Stations design on EOAT, to execute take-out and cooling circularly.
- Modular design, it just need change the EOAT for different mold.



HMI Touch LCD 8"	High Rigidity Structure	Single Arm / Dual Arm	I.M.M. 150 ~ 300 Ton
Bus Comm. CANopen / EtherCAT	Full Servo Robot S05-series		Payload 5 KG
Servo Motor Absolute Encoder			Vertical Stroke 900mm
Simple Operating		Euromap 12 / 67	

Lite

Pro

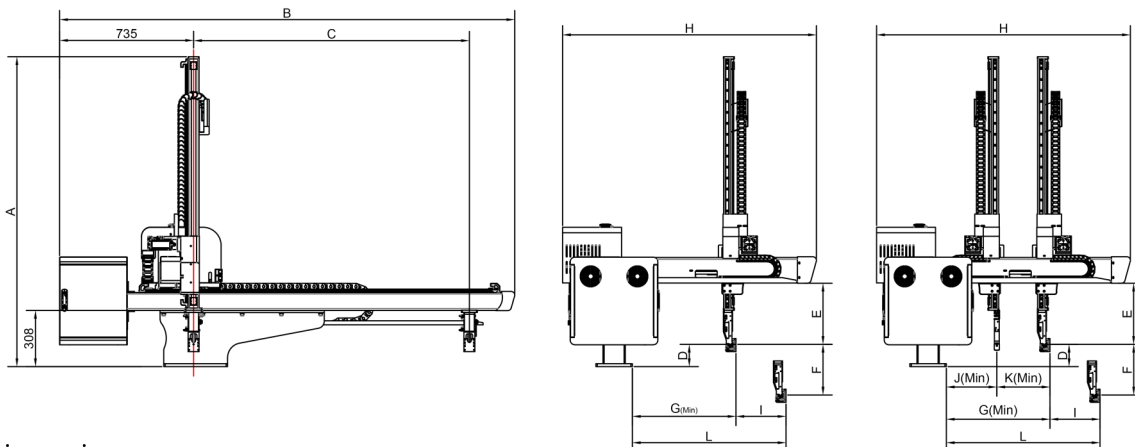
Main Specification

Model	Arm Structure	I.M.M. (Ton)	Stroke (mm)				Min. In-Mold Time (s)	Air Consumption (NL/Cycle)	Max. Power (KVA)	Weight (kg)
			Vertical	Demold	Demold (D*)	Horizontal				
S0509(D)	Single Stage	150~300	900	650	P: 500 R: 500	1500	1.0	2.0	AC220V $\pm 10\%$ 20A 50/60Hz Single Phase	300

* "D" is for dual arm model, "P" is product arm, "R" is runner arm.

* Basic system is Incremental encoder.

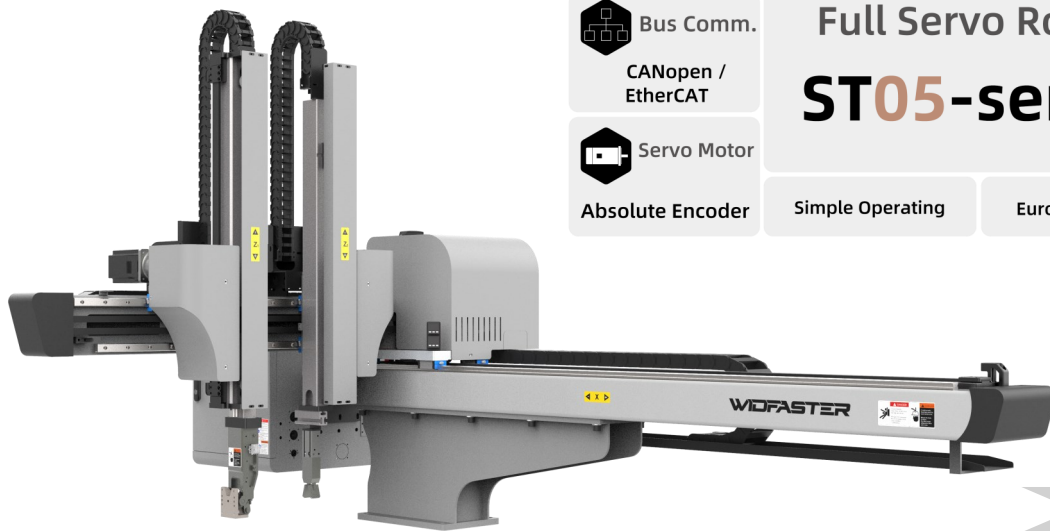
Unit: mm



Layout Dimensions

Model	A	B	C	D	E	F	G	H	I	J	K	L
S0509	1698	2500	1500	120	335	900	130	1390	650	-	-	780
S0509D	1698	2500	1500	120	335	900	280	1390	500	130	500	780

Without further notice if above information had been updated.



HMI Touch LCD 8"	High Rigidity Structure	Single Arm / Dual Arm	I.M.M. 150 ~ 350 Ton
Bus Comm. CANopen / EtherCAT	Full Servo Robot ST05-series		Payload 5 KG
Servo Motor Absolute Encoder	Simple Operating	Euromap 12 / 67	Vertical Stroke 900/1000mm

Lite
Pro

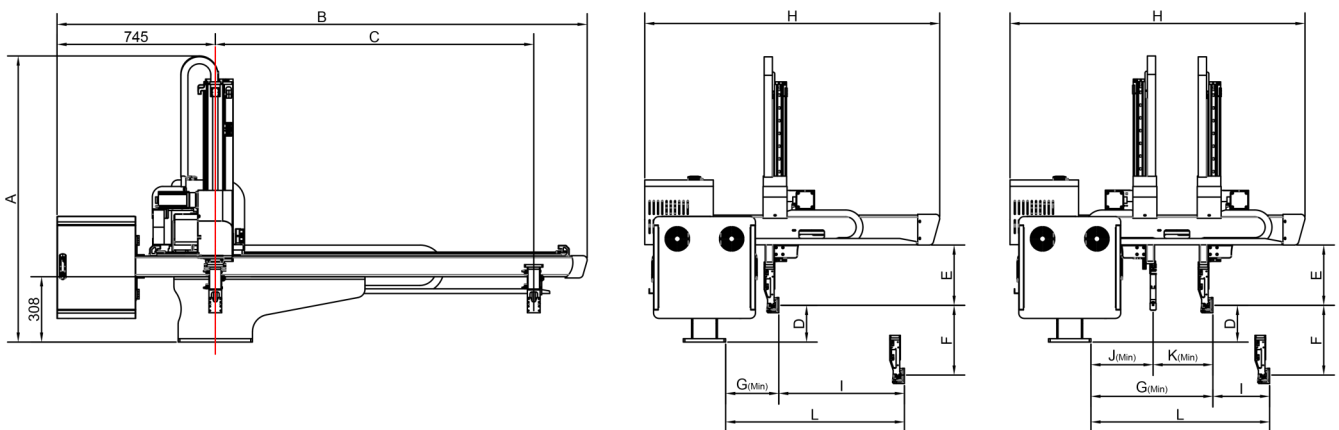
Main Specification

Model	Arm Structure	I.M.M. (Ton)	Stroke (mm)				Min. In-Mold Time (s)	Air Consumption (NL/Cycle)	Max. Power (KVA)	Weight (kg)
			Vertical	Demold	Demold (D*)	Horizontal				
ST0509(D)	Telescopic Type	150~300	900	650	P: 440 R: 440	1500	1.5	2.0	AC220V $\pm 10\%$ 20A 50/60Hz Single Phase	320
ST0510(D)		200~350	1000	830	P: 620 R: 620	1600				350

* "D" is for dual arm model, "P" is product arm, "R" is runner arm.

* Basic system is Incremental encoder.

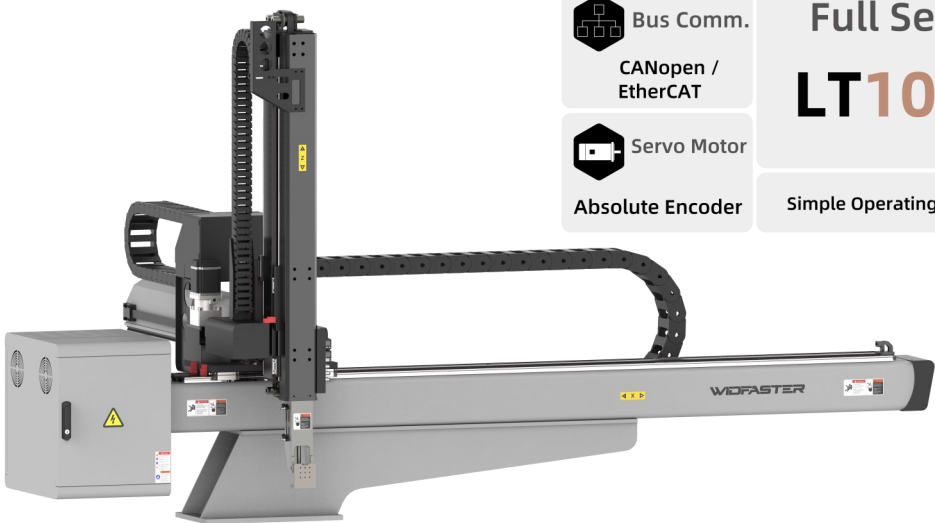
Unit: mm



Layout Dimensions

Model	A	B	C	D	E	F	G	H	I	J	K	L
ST0509	1300	2500	1500	105	350	900	80	1390	650	-	-	730
ST0509D	1300	2500	1500	105	350	900	290	1390	440	180	440	730
ST0510	1375	2680	1600	105	350	1100	80	1590	830	-	-	910
ST0510D	1375	2680	1600	105	350	1100	290	1590	620	155	620	910

Without further notice if above information had been updated.



**HMI**
Touch LCD 8"

**High Rigidity Structure**

**Optional Servo End**

Full Servo Robot
LT10-series

**Bus Comm.**
CANopen / EtherCAT

**Servo Motor**
Absolute Encoder

Simple Operating

Euromap 12 / 67

**I.M.M.**
350 ~ 800 Ton

**Payload**
10 KG

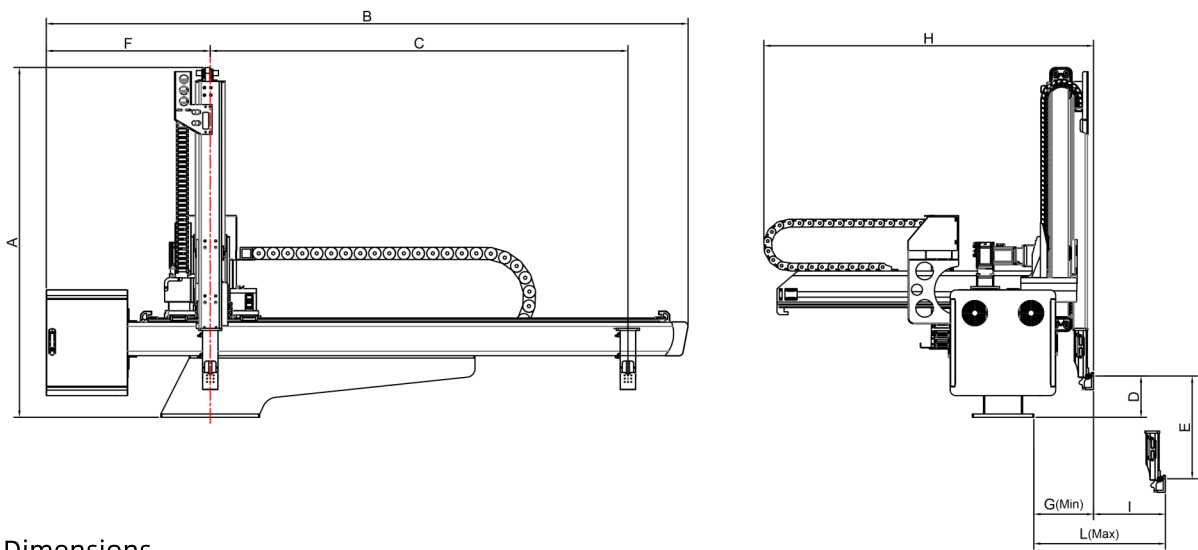
**Vertical Stroke**
1300/1500mm

Lite **Pro**

Main Specification

Model	Arm Structure	I.M.M. (Ton)	Stroke (mm)			Min. In-Mold Time (s)	Air Consumption (NL/Cycle)	Max. Power (KVA)	Weight (kg)
			Vertical	Demold	Horizontal				
LT1013	Telescopic Type	350~500	1300	700	1800	2.5	2.5	AC220V ± 10% 20A 50/60Hz Single Phase	600
LT1015		450~800	1500	1000	2100				700

Unit: mm



Layout Dimensions

Model	A	B	C	D	E	F	G	H	I	L
LT1013	1590	2930	1800	185	1300	745	230	1450	800	1030
LT1015	1750	3230	2100	185	1500	745	230	1750	1100	1330

Without further notice if above information had been updated.



HMI

Touch LCD 8"



Bus Comm.

CANopen /
EtherCAT

Servo Motor

Absolute Encoder

High Rigidity Structure

Optional Servo End

Full Servo Robot LT20-series

Simple Operating

Euromap 12 / 67



I.M.M.

550 ~ 1500 Ton



Payload

20 KG



Vertical Stroke

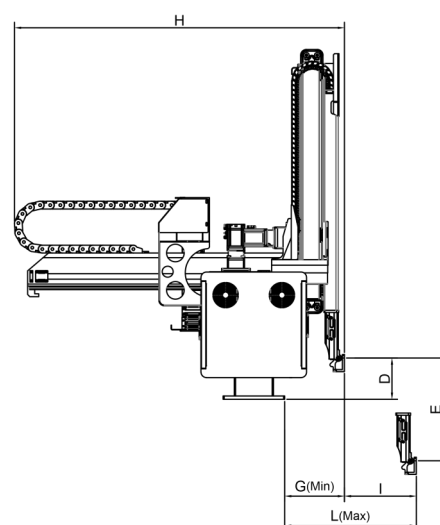
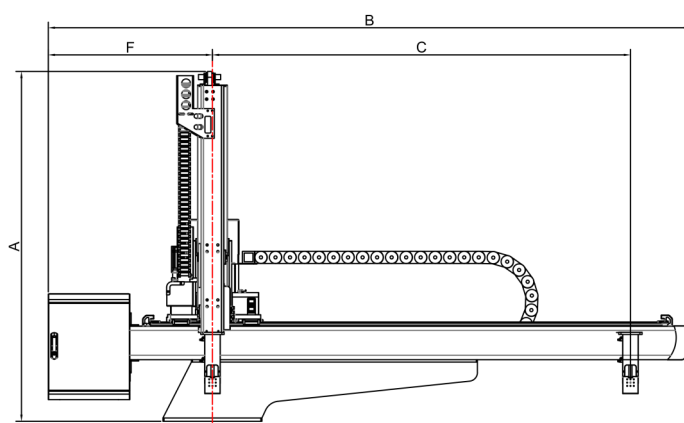
1500/2000mm

Lite
Pro

Main Specification

Model	Arm Structure	I.M.M. (Ton)	Stroke (mm)			Min. In-Mold Time (s)	Air Consumption (NL/Cycle)	Max. Power (KVA)	Weight (kg)
			Vertical	Demold	Horizontal				
LT2015	Telescopic Type	550~800	1500	1060	2000	3.5	3.5	AC220V $\pm 10\%$ 32A 50/60Hz Single Phase	950
LT2020		1000~1500	2000	1460	3000				1200

Unit: mm



Layout Dimensions

Model	A	B	C	D	E	F	G	H	I	L
LT2015	2100	3230	2000	185	1500	750	260	1860	1060	1320
LT2020	2280	4230	3000	185	2000	750	260	2260	1460	1720

Without further notice if above information had been updated.

FASTER SERVICE AND RESPONSE TO YOUR WIDER NEEDS

ROBOTS AND AUTOMATION SYSTEMS FOR INJECTION MOLDING MACHINES

NINGBO WIDFASTER INTELLIGENT EQUIPMENT CO., LTD.

Add: E15-1, Intelligent Port, No.13 Lane 866, Jinghui Road, High-tech Zone,

Ningbo City, Zhejiang Province, 315000, P.R. China

Tel: +86 574 86825572

Email: sales@widfaster.com

www.widfaster.com