

# SMART FACTORY TAKE-OUT ROBOT

INNOVATION, PRODUCTIVITY AND  
PEOPLE FOR A BETTER WORLD





# Introduction

Continuous research for Robot Technology  
HY Robotics realizes customers' needs

As one of the most innovative robotics automation market leaders today, HYRobotics offers unique solutions with a full line of robotics systems. Our broad robotics line enables us to provide the precise solution for your needs, even for highly specialized tasks. HYRobotics has developed and manufactured robots for plastics injection molding machines since 1988. We offer a diverse line of products, ranging from 30 tons to 4,000 tons, providing automation from simple to complex for customer's need in mind. Our products line includes a diverse series of robots designed for sprue and parts removal, fully integrated factory automation for insert molding, de-gating and in mold labeling, and parts stacking. We offer custom designed machines to supplement any of your automation needs. The HYRobotics staff is fully trained and knowledgeable about plant automation, and we value the prominence of productivity. HYRobotics is a dedicated robotics manufacturing company with an ISO 9001 certified environment for high quality control systems and an enterprise Resource Planning System has been implemented to maximize customer satisfaction with incredible technical support. Our technical innovation and dependability will strengthen the manufacturing productivity in your business and throughout the world.





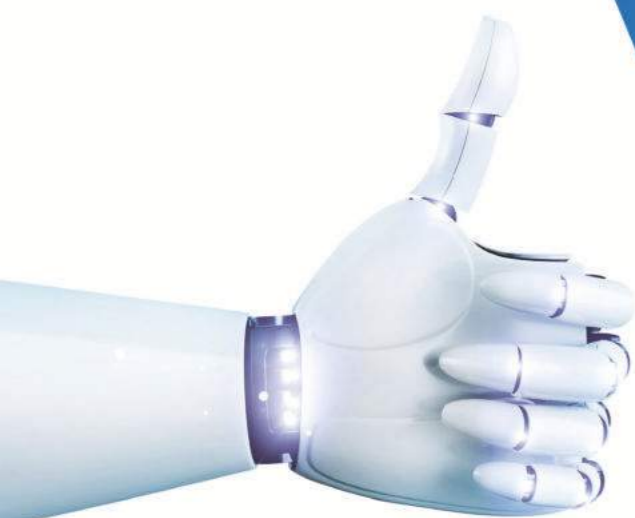
# Vision of Research & Development



- Development for improving functions and performances of the robot
- Development of convergence technology for injection molding site
- Development which impresses the customers

To be the 100-year-old company that customers trust

Our goal is to become the company providing our products and services to the global region and build trusts of customers as a leader of injection molding industry.



Customers

We provide superior service and product to customers than our competitors and respect customers' opinions.

Honesty and transparency

We pursue legitimate interests based on the value we create, recognize our mistakes and abide by our commitments.

Quality

We keep our pride by producing the highest quality products.

Change

The highest level of technology and innovation guarantees our products' quality.

Talent

All members are talented and improve their ability constantly to realize the goal.

# History



## 2010's

- 2019. 05 Moved an office building (Incheon -->Honsung [Naepo])
- 2019. 03 Developed 5-axis articulated robot for multitasking
- 2018. 07 Selected LG Electronics Partner
- 2018. 04 EU 'Extraction robot equipped with weight detection function of injection' Patent acquisition(Germany, Austria, Czech Republic, Poland, Slovakia, Turkey, the United Kingdom, France, Italy)
- 2018. 02 Selected Hyundai Mobis Partner
- 2018. 01 Chinese patent acquisition[Heavy weight sensing extraction robot]
- 2018. 01 Gain management certification of small business intellectual property
- 2017. 05 Participated in Plastpol 2017 in Poland(Kielce)
- 2017. 05 Signed distributor agreement with ChengGu Eng.Sdn.Bhd.
- 2017. 03 Participated in KOPLAS Exhibition
- 2017. 03 Signed distributor agreement with HBC Engineering Inc.
- 2017. 01 Exhibition Excellence Award from Plastivision 2017, Mumbai, India
- 2016. 12 Annual Trade Day, \$5,000,000 Export Award
- 2016. 10 Industrial Bank of Korea, Hidden Champion Award
- 2016. 09 Industry Innovation Award
- 2016. 02 Signed a contract with Vietnam Agency
- 2015. 12 Signed a contract with Beijing Agency
- 2015. 02 Selected as IP STAR Company of Intellectual Property Creation Support Project
- 2015. 02 Entered into a consortium agreement (National Human Resource development) - by POSCO
- 2015. 01 Established HY Robotics Mexico (Monterrey)
- 2014. 11 Technology Cooperation with KEBA in Austria
- 2014. 07 Selected by SMBA as a company for convergence technology development
- 2014. 05 Patent Registration "Muge:in", "Temp:in", and "Neut:in"
- 2014. 03 Selected as QSS Innovative Company by the Small and Medium Size Business Administration
- 2013. 12 Selected by SMBA as a company for convergence technology development
- 2013. 09 Acquired "ISO9001/14001"
- 2013. 08 Established HY Robotics Mexico (Queretaro)
- 2012. 10 Selected Visionary company of Incheon
- 2012. 07 Make a consortium agreement with Incheon Technical Professional Training Center
- 2012. 06 Selected "Family Company" by Industrial Bank of Korea (IBK)
- 2012. 04 Participated NPE2012 in Florida, USA
- 2012. 01 Established HY Robotics Thailand (Chonburi)

## 2000's

- 2009. 06 Participated NPE2009 in Chicago, USA
- 2007. 05 CE Certification acquired for all line of HY Robotics Takeout Robot
- 2007. 05 Patent registration "Inspection method and Inspection equipment for pre-insert molded products"
- 2005. 04 Patent registration "Insert Molding Take of Automation"
- 2005. 03 Moved an office building (Incheon Nonhyun -> Incheon Gajwa)
- 2004. 09 Acquired "ISO9001:2000"
- 2004. 04 Traverse take out robot developed for 2 Color injection molding machine"
- 2003. 09 ERP Success Story Presentation for Incheon Chamber of Commerce and Industry
- 2002. 10 Patent registration for Automatic Detection System
- 2002. 10 Patent registration for Insert Automation System
- 2002. 04 2002. 04 Developed Intelligent 7 axis take out robot
- 2000. 07 2000. 07 Developed 4000 tons Servo Robot for the first time in Korea

## 1990's

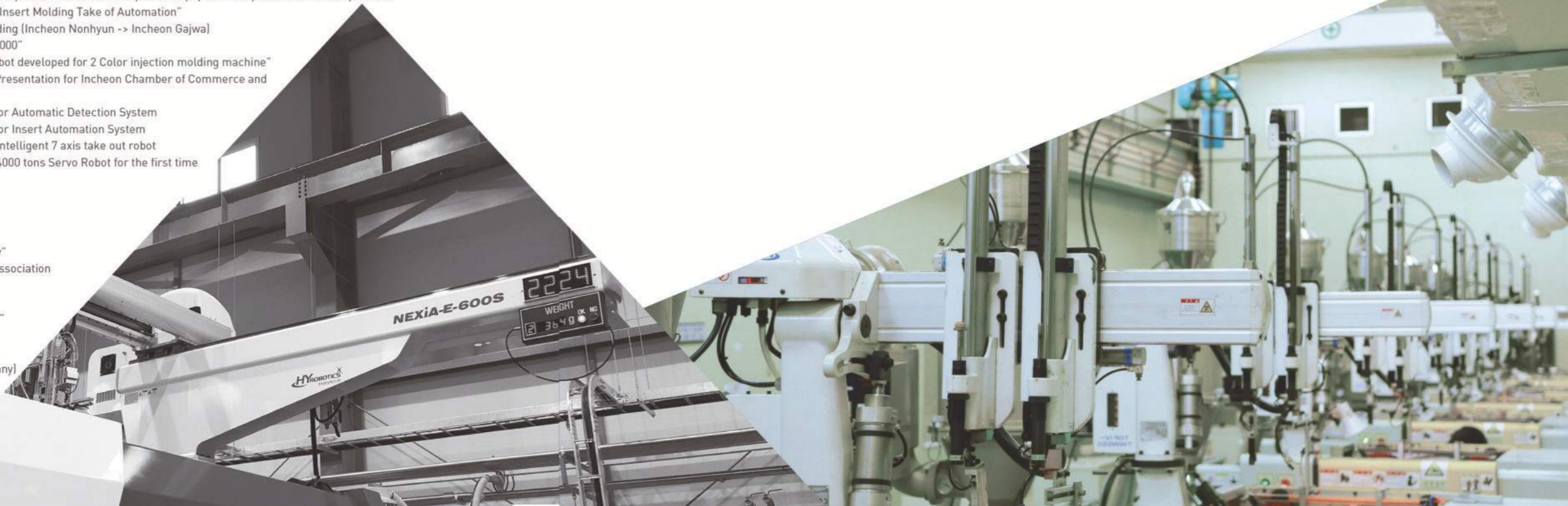
- 1998. 02 Selected "Excellent Export Ability Company" by the Small and Medium Size Business Association
- 1997. 04 Awarded 21th "Productivity Grangprix" by the president of South Korea
- 1996. 09 Established "Technical Research Institute"
- 1996. 07 Productivity Improvement Competition - a gold statue (Incheon)
- 1993. 10 Acquired "Q Mark"(Quality assured company)

## 1980's

- 1988. 02 Established company

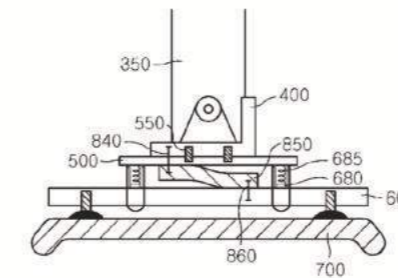
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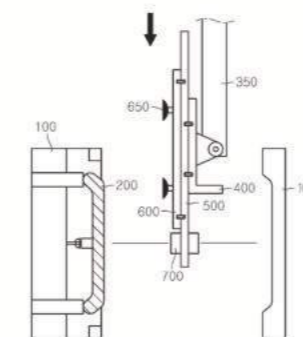
# Hanyang Robotics Optimal design of robots

# Patent of Convergence Technology



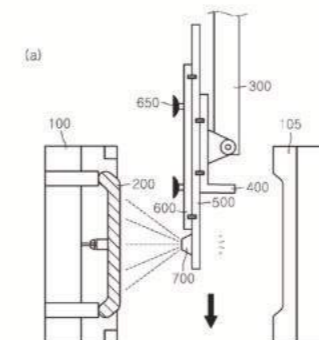
### TAKE-OUT ROBOT WITH WEIGHT MEASUREMENT OF PRODUCT

- Obtained patent for developing weight detection : 10-1478488
- Acquired patent for design of weight detection : 30-0772600
- PCT : PCT/KR2014/0052\*\*



### TAKE-OUT ROBOT WITH TEMPERATURE DETECTING UNIT

- Acquired patent for design of temperature measuring unit : 30-0780447
- Registered No. 10-2013-0139\*\*\*



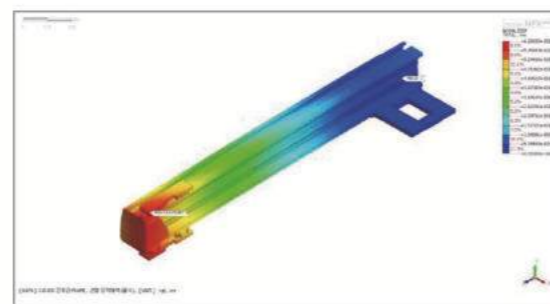
### TAKE-OUT ROBOT WITH STATIC ELECTRICITY REMOVING FUNCTION BY IONIZER

- Acquired patent for design of removing static electricity : 30-0781749
- Obtained patent : 10-1502284

### Optimal design of robots with linear analysis

Optimal design realizes linear analysis, light-weight design, and high rigidity design and optimizes mechanism based on dynamics analysis.

In addition, we have searched for high speed and stable output with minimum vibration effect through vibration suppression control.



# Convergence Technology

Injection molding smart solution that builds a user-oriented work environment by combining the Internet of things(IoT) and convergence technology



Developed first in the robot industry!  
Robot technology with real-time weight measurement ,  
temperature detection and electrostatic removal



## Weight Measurement

- Possible to check good or defective products by measuring weight automatically when take-out (Fool Proof function)
- Possible to collect real time weight data by mobile /POP System when connecting network



## Temperature Detection

- Detecting the temperature of mold and product surface automatically to check the take-out condition
- Possible to collect real time temperature data by mobile /POP System when connecting network



## Electrostatic Removal

- Minimizes Electrostatics on products and mold surface to prevent defects by dust adhesion
- Static removal: more than 95% (less than 100V) in 1~2 sec



## Vision inspection function <sup>New</sup>

- Possible to examine the defect of mold and product by vision camera



## Remote monitoring and sending alarm <sup>New</sup>

- Possible to monitor real time data by mobile or controlling server and give the signal of defect

**Quality problem of injection molding**

- Short shot
- over-molding(burr)
- weld line
- sink mark
- defect by dust adhesion
- etc.

**3 things to improve the quality**

- Mold temperature control
- Weight control
- Electrostatic removal

**Injection molding total solution**

Temp:in  
Muge:in  
Neut:in  
...

**Real time factory control with POP System**

**Condition management to maintain working environment stable**

Muge:in screens out defective products through product's weight detecting process and collects the data to manage effectively.



**Performance**

- Tolerance: Product 100g~20000g ±3g  
 (The tolerance can be subject to change ±1~2g according to severe vibration and wind)
- No effect on cycle time by detecting the weight while take-out (in 1~2 sec out of the mold)
- Individually setting up Max 2 cavities

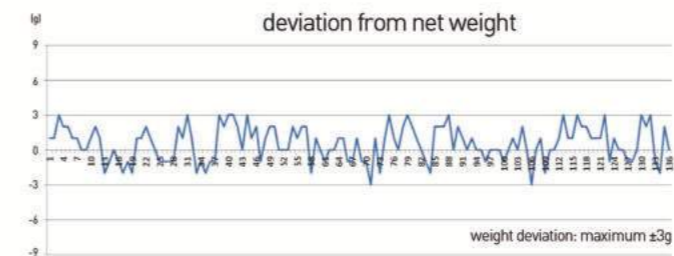
**Effects**

- Cutting down the labor cost for manual detection and recording process
- Reducing defective product
- Saving cost by prevention of over-molding
- Setting up standard condition of molding system by collecting data of every cycle
- Possible to check the quality by checking saved data

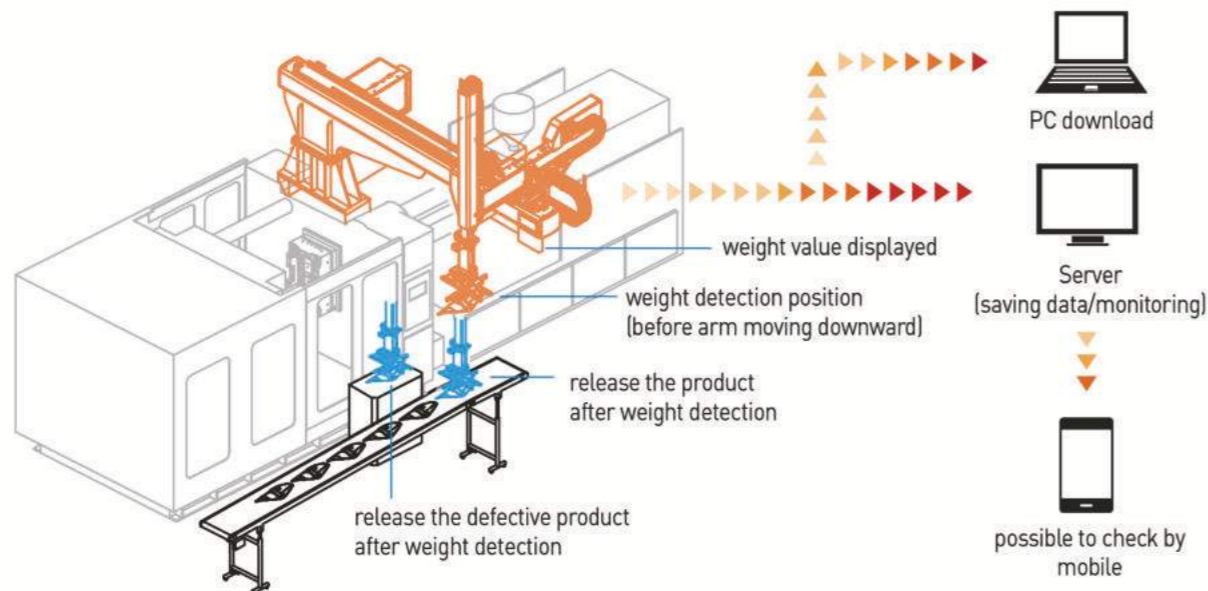
**Feature**

- Weight detection device on robot arm
- Possible to release good and defective products on different position by comparing the setting value of weight
- Automatically saving every measured data, possible to download, and transfer to customer's server
- Possible to check via smartphone

**Real time data**

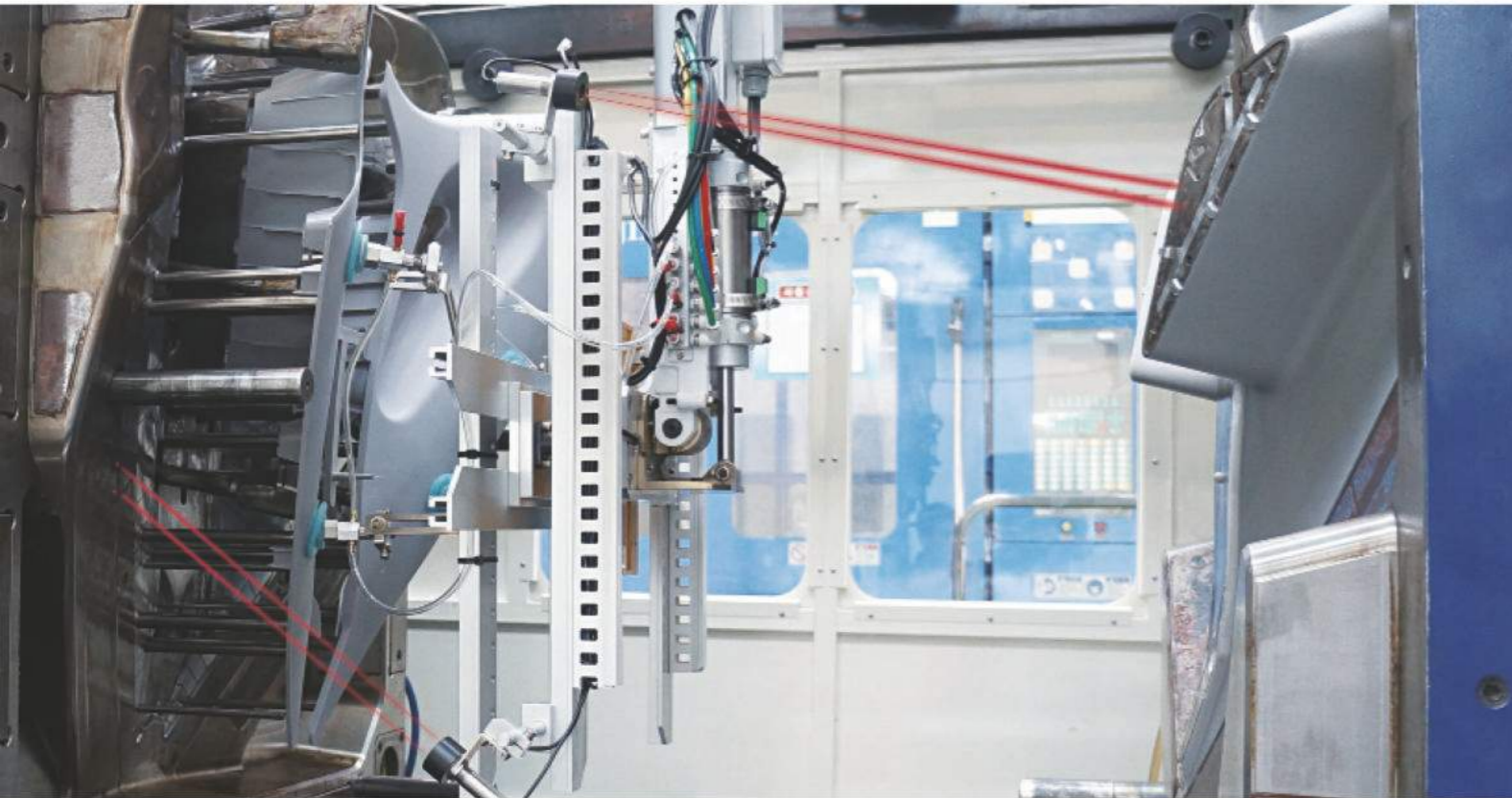


load cell type by different tonnage [Jig + product weight]	5kg	15kg	25kg
	below 350T	400T - 1300T	over 1300T



Total solution for injection molding  
**Temp:in** Temperature detection

Temp:in provides temperature change notification to prevent the mass production of defective products and collects the data to manage effectively.



**Performance**

- Tolerance: at least  $\pm 1^{\circ}\text{C}$
- No effect on take-out robot cycle time (in 0.5 sec)
- The maximum point: 4 points

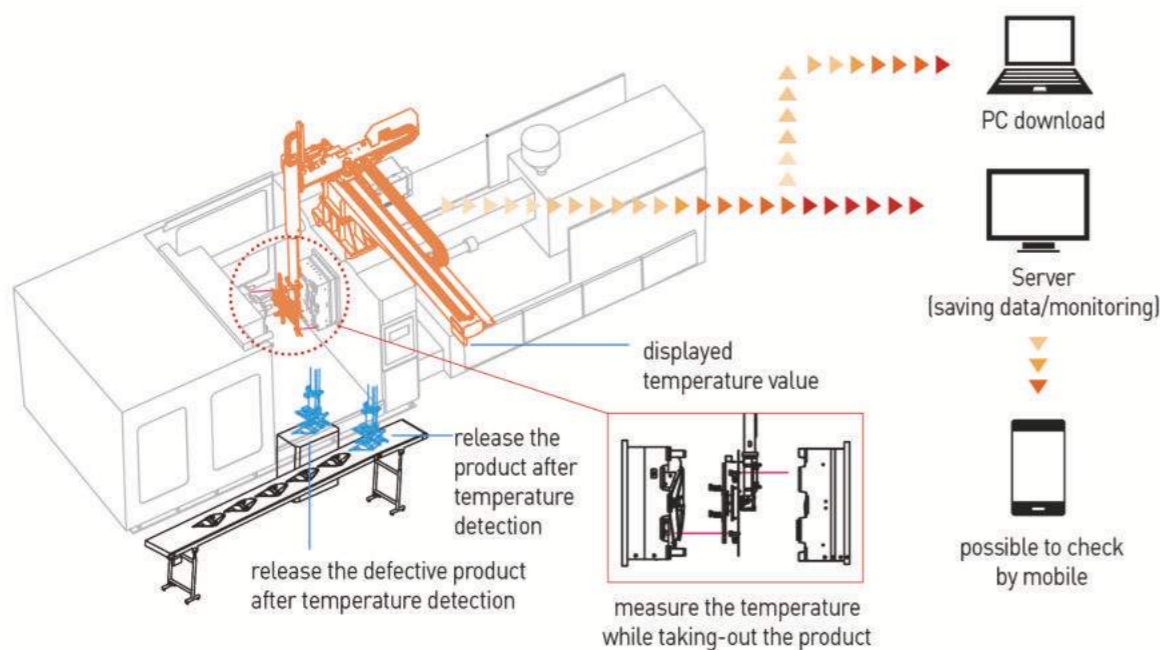
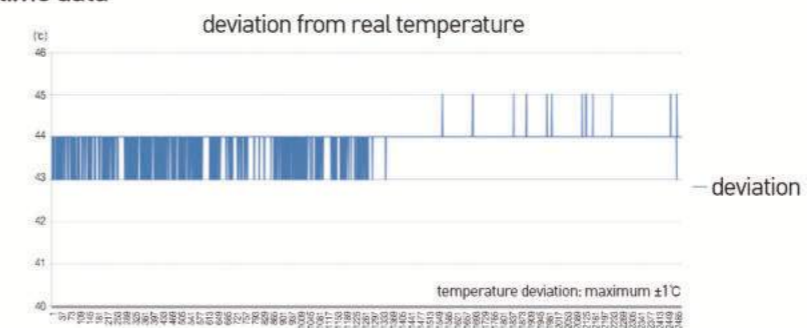
**Effects**

- Economic: comparing to the thermistor scale device
  - no need for sensor attachment on mold
  - detecting temperature and collect the data in real-time
- Possible to detect both temperature of mold surface and product surface
- Managing temperature data of each cycle to prevent mass production of defective product

**Feature**

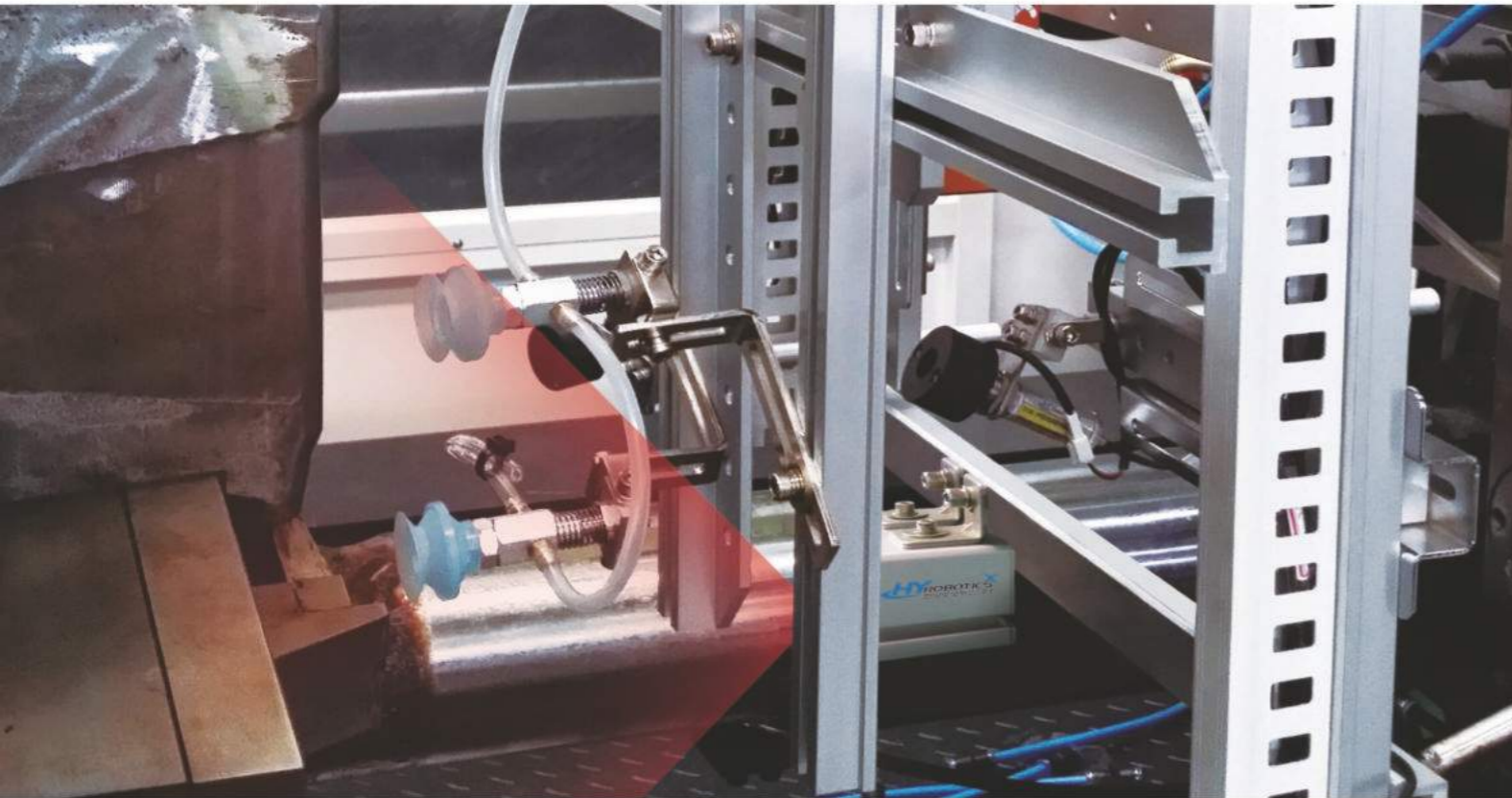
- Temperature detection device on robot arm (Infrared sensor type)
- When exceeding setting value, the alarm notification
- Possible to release good and defective products on different position by comparing the setting value of temperature
- Automatically saving every measured data, possible to download, and transfer to customer's server
- Possible to check via smartphone

**Real time data**





Neut:in minimizes Electrostatics on the products and mold surface which prevent defects by dust adhesion.



**Performance**

- Static removal: more than 95% (less than 100V)
- Removing time: 1~2 sec (no effect on take-out robot cycle time)
- Removing area: diameter 60cm/ 20cm distance

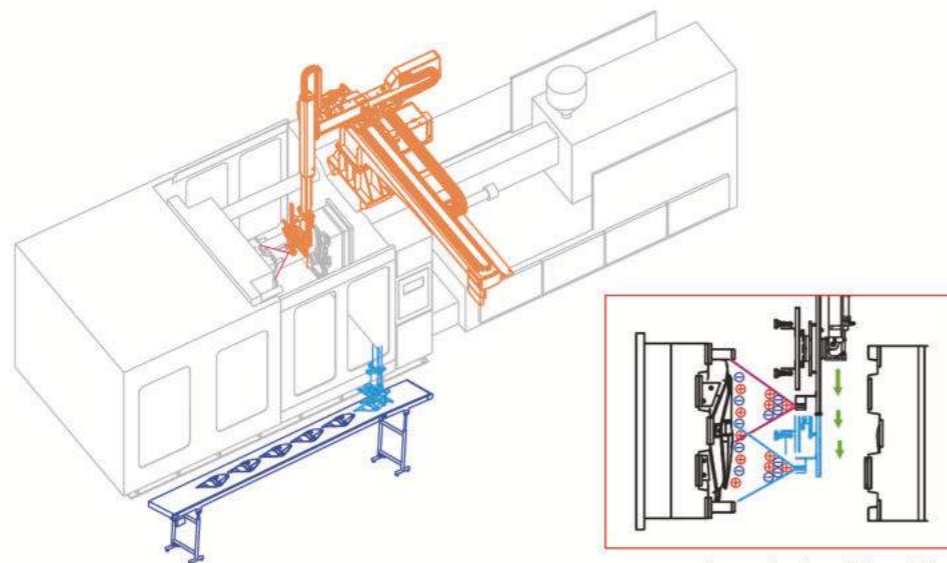
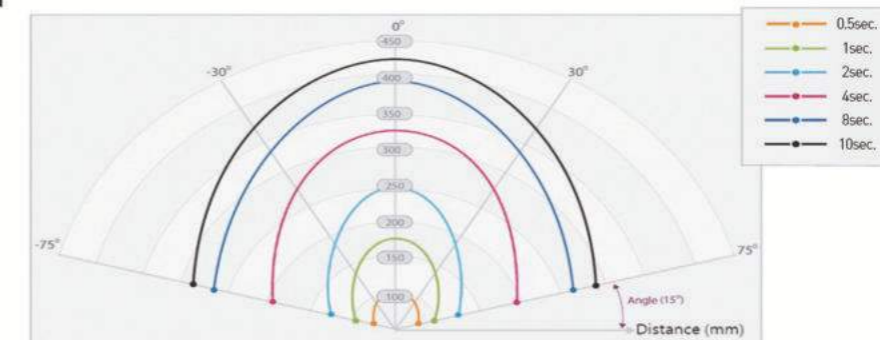
**Effects**

- Removing initial electrostatics after mold open process (normally occurs more than 20,000 Voltage)
- Cutting down labor cost and purchasing extra equipment cost
- Preventing dust adhesion due to polluted air by air compression type
- The device can be attached on any part of the robot arm (No need for air tubing)

**Feature**

- Photo type ionizer on the robot arm
- Removing electrostatic at the time of taking out process
- Instantaneous removing by beam method (not air compression method)

**Real time data**

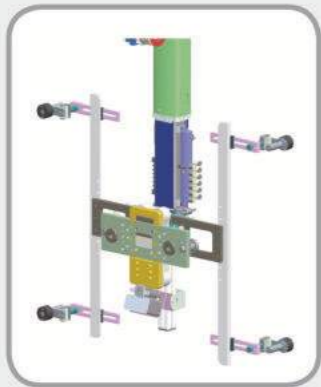


remove the static electricity while taking-out the product

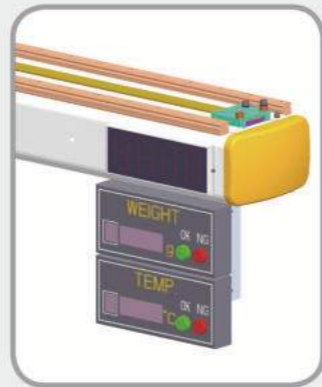


# External control type Convergence Function

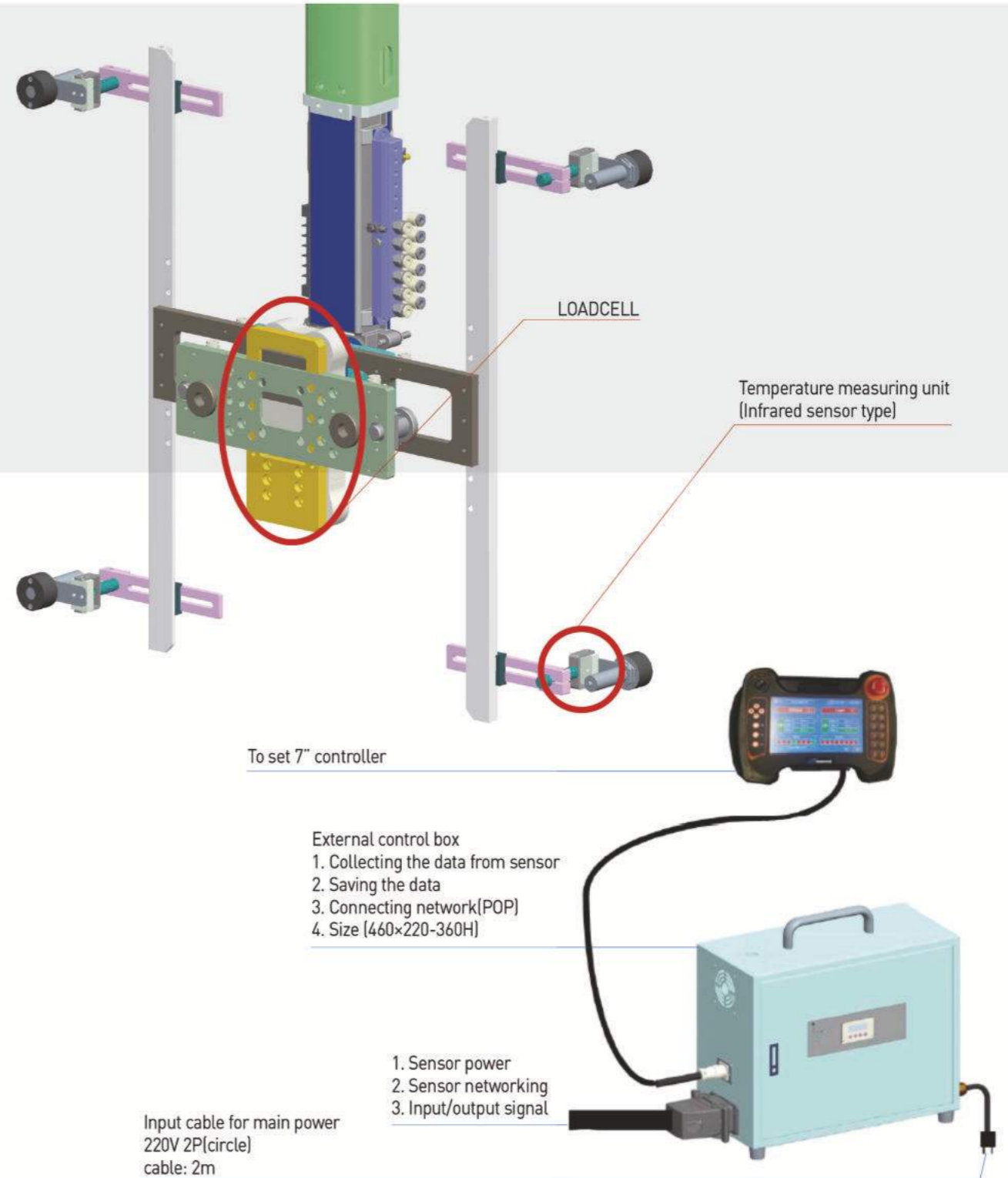
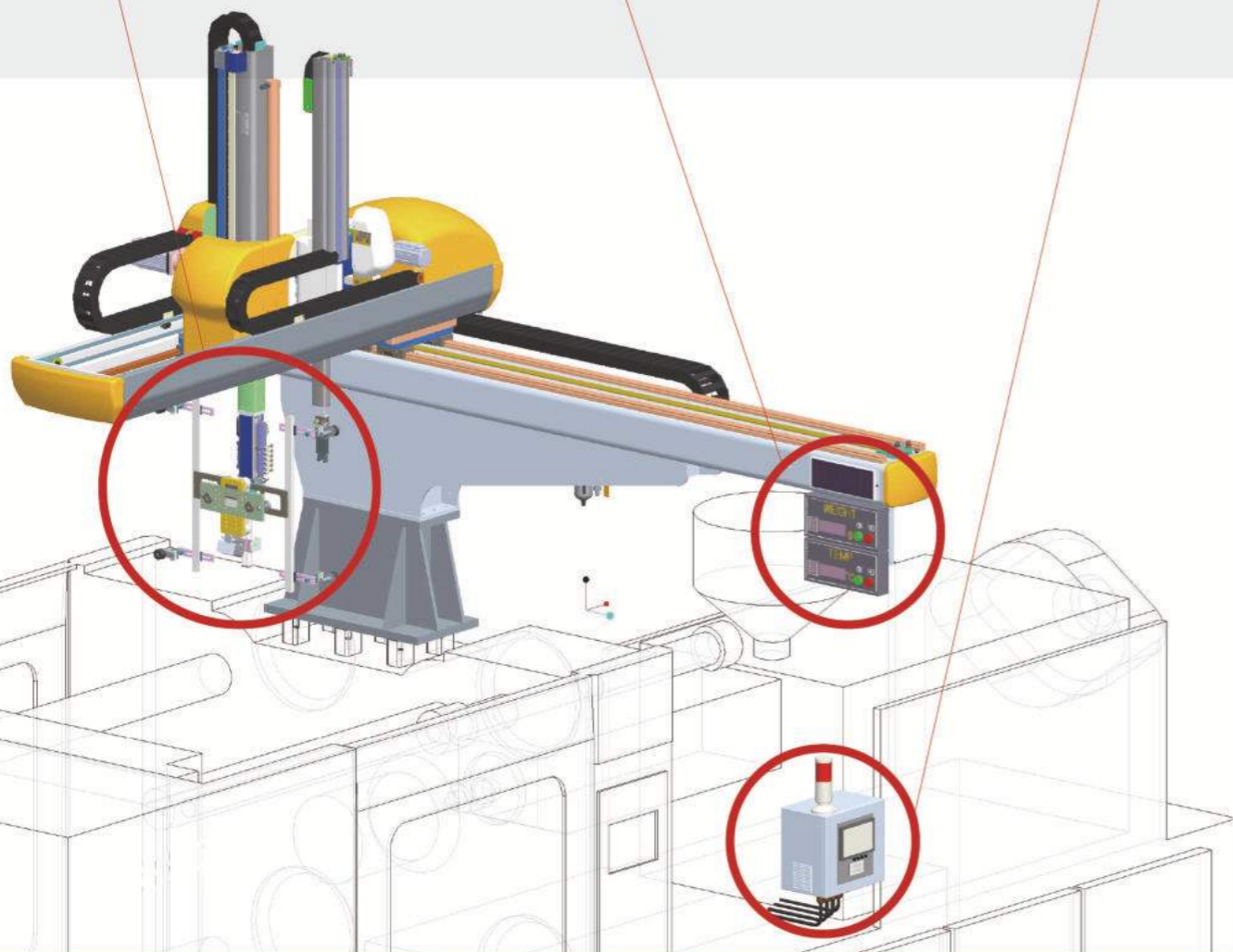
Convergence technology can be adjusted to the other robot for measuring the weight, detecting the temperature, and removing the static electricity.



JIG(EOAT) with convergence technology



Displaying panel



# Remote monitoring and repairing function

- Possible to connect with mobile phone and PC
- Enable to check the operating condition of each machine and product quantity in real time
- Easy to check the records of good or defective products
- Efficient way to check many factories' operating status



- Possible to check the current status of robot and solve the problem
- Easy to diagnosis the problem with error report
- Enable to solve the simple problem from remote region without calling service agent

Remote monitoring and repairing function

## Real time monitoring system

mobile phone(app)  
Hyrobot-n



access with PC  
www.hyrobot-n.com



Hanyang Robotics exterior server / Customer's server

Managing data in real time  
product quantity, weight, temperature,  
rate of defective product, error message, etc.

Wireless internet router

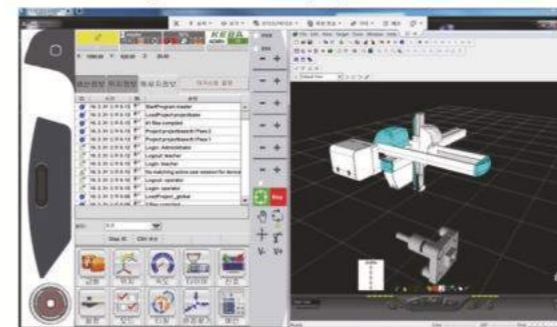
Wireless internet router



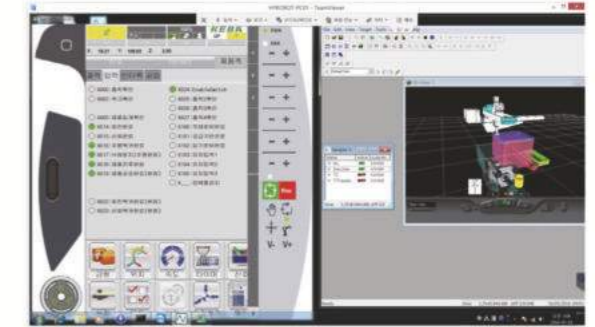
## Remote repairing service in real time



Figure out the reason of error  
after accessing the remote AS page



Robot's current status can be monitored.

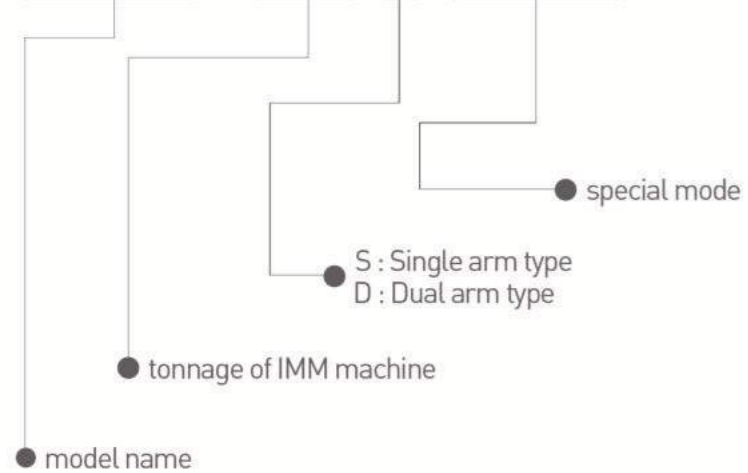




# Specs and Functions of Take-out Robot



## NEXIA - 400 D (TYPE)

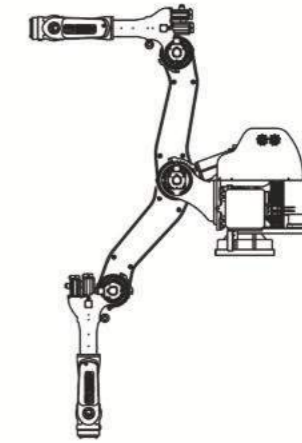


### Special models

- CT : Parellel type
- H : High-speed type
- TW : 2 robot integration type
- MM : 2 IMM combined with 1 robot type
- SM : Stack mold type
- TD : Tandem mold type
- T : Traverse T type
- MG : Magnesium take-out type

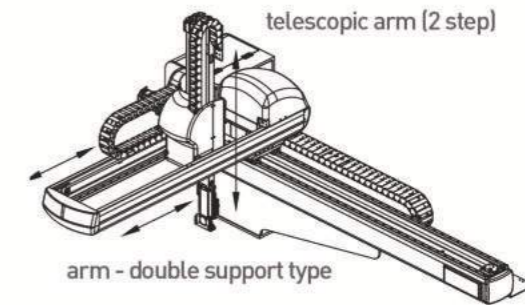
### H5

- 5-axis articulated robot for multitasking
- Multi Tasking



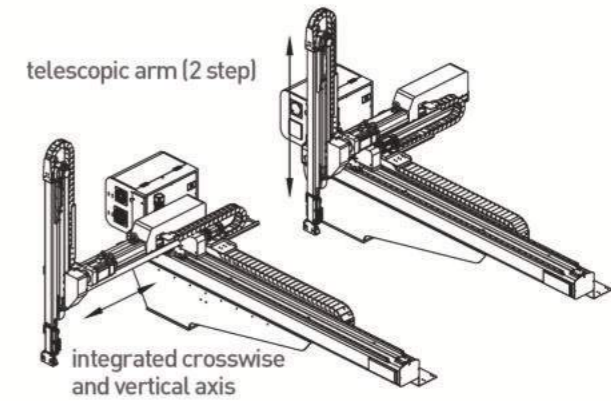
### NEXIA / EPIK Series

- telescopic arm (2 step)
- arm - double support type



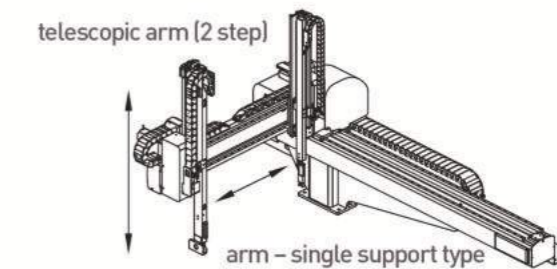
### NEXIA / EPIK-SW Series

- telescopic arm (2 step)
- integrated crosswise and vertical axis



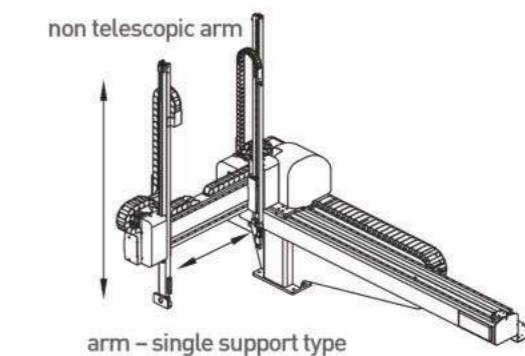
### UNIK-II Series

- telescopic arm (2 step)
- arm - single support type



### UNIK Series

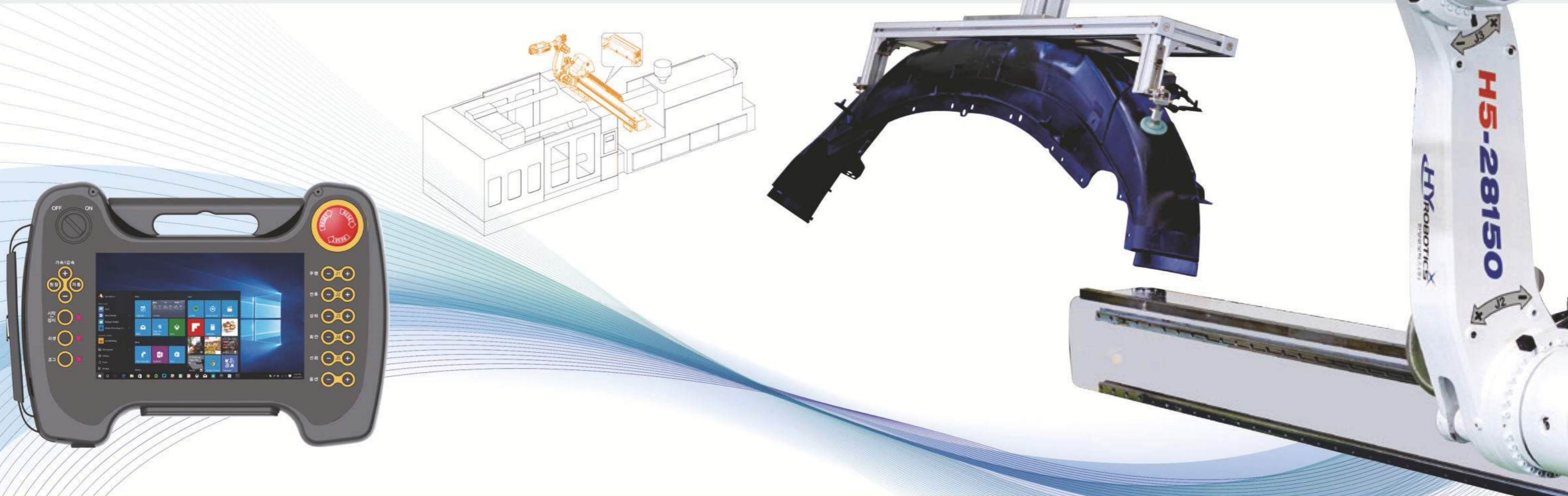
- non telescopic arm
- arm - single support type



## H5 Series

# H5C-10 CONTROLLER

This takeout robot consists of • Robot body • Control box • Drive box • Remote controller.



### Teaching Pendant

- **CPU & Memory** : ARM Cortex-A8, DDR2 512MB
- **DISPLAY** : 7" WIDE TOUCH SCREEN  
(resolution: 800 X 480)
- **High-performance EtherCAT communication control method**
- **Minimized electronic box space with controller integrated pendant**
- **Design with Convenience and Durability**
- **Optimized Peripheral Devices**
  - Automatic operation with the external button
  - H5 Optimized JOG Button Configuration
  - simple ON/OFF with an n power switch
  - optimized status LED
- **Simple backup and recovery via SD cards and USB**

### Convenience + Functionality + Economic effects

- **Configuration that eliminates all difficulties in the use of general multi-joint robots and is dedicated to the injection environment**
- **User-friendly Icon-based Pendant**
  - Easy to operate through the Icon-based GUI. Anyone can operate freely because it is easy to interpret languages such as waiting, taking out, rising and falling
- **Replace with Editing the steps by line (step editing function)**
  - Easy to use for general users who don't know the program
  - User location, user output, user input, user time waiting, S-Work addition and location editing are available
  - Structure that can be added at any time and placed anywhere
  - Test drive of the configured step
- **S-Work function that can organize special actions such as gate cutting, etc. without a separate program**
  - The robot's flexible motion can be configured directly with one-click positioning
  - The composed operation is stepwise and it is immediately applicable
  - Infinitely applicable to a variety of tasks
- **Easy Set Function to reduce Ejection Setting Time**
  - The ability to move forward, backward, and set a location for the set 4-step position
  - Positioning optimized for change of take-out location due to mold replacement
  - It is possible to confirm and set up all location and operation with the output control related to take-out

- **Easy operation**
  - Existing multi-joint robots require separate 4 to 5 steps for each joint, but H5 robots can implement the desired operation with only one step operation
- **Easy Set**
  - Can be operated easily and conveniently like the scalar robot at the injection field
  - Existing multi-joint robots require expert support for setting, but the H5 can be set by anyone on site
- **Multi Tasking Various Tasks Available**
  - High-precision operation can be realized to automate various processes (take-out, gate cutting, fitting surface cutting, insert work, loading work, etc.)
- **Energy saving function**
  - Minimize the consumption of electric current with servo-off function when jog and drive are not used
- **Easy setting by image**
  - Worker can easily distinguish the mold by the product picture which is saved
- **Easy Controller Rebooting**
  - The controller has a S/W rebooting function and a power switch inside the controller, so it can be rebooted and powered OFF without climbing to the electronic box
- **Improved robot working performance by vibration control system**
  - Improved performance by minimizing robot vibration by setting vibration control algorithm

### Safety

- **Protective function not to hit the mold**
  - Possible to set mold protection area which helps the robot not to hit the mold
- **Simulation**
  - Possible to check the movement of robot and PC by using 3D simulation function

### Expandability

- **Remote monitoring function via network**
  - Possible to check the factory in real time by connecting network
- **New function of injection molding smart solution can be updated continuously**
  - Options related to weight, temperature, electrostatic, and vision help to improve product quality
- **Monitoring Function of Work Information through Hanyang Server**
  - Real-time check of injection work information and status through Hanyang server connection

# Easy Setup and Operation

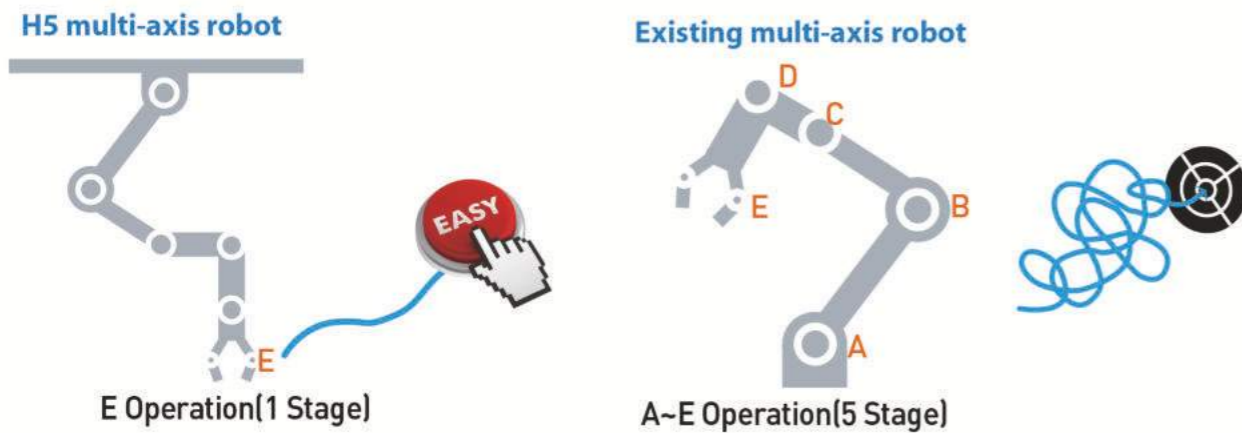
## Icon Based Touch Screen Controller

The easy to operate H5 multi-axis robot using HYRobotic's icon based controller makes programming simple and can be operated with minimal training.



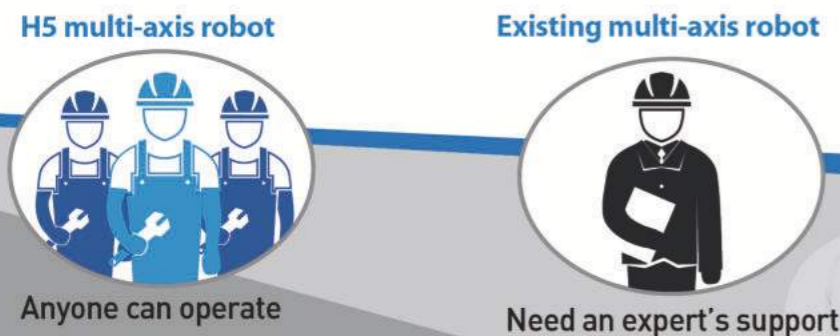
## Simple Operation

Existing multi-axis robots require extensive knowledge and training. Individual movements may require adjustments to individual joints to make the required movement. The H5 multi-axis robot requires simple one stage of operation.



## Icon Base Easy Programming and Touch Screen Controller

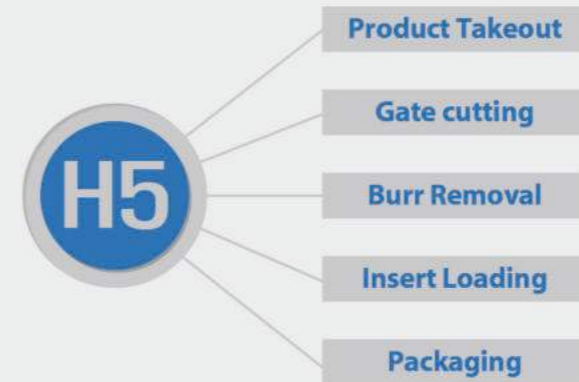
Easy to operate like a cartesian type robot for injection molding take out applications.



# Technical Information

## Multi Tasking & Diversity Of Operation

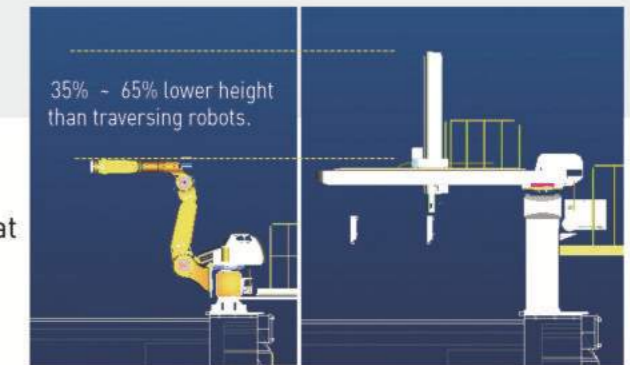
Enable diversity process for full automation with high-precision operation



H5	Existing multi-axis robot	Traverse type
Operator can easily program complicated motions	Extensive knowledge and training required to program complex motions	Easy to program pick and place applications. Precisions curvatures can be difficult.

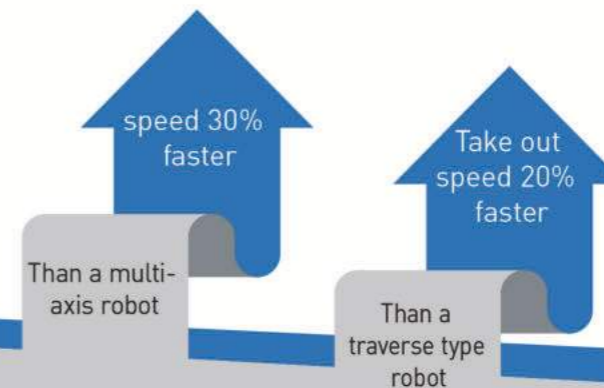
## Advantages Over a Traversing Robot

Can perform many functions previously done by dedicated automation equipment with simpler solutions. Gate cutting, flaming, inspection, packaging, etc. Shorter overall height allows robots to be used that in the past were limited by ceiling height.

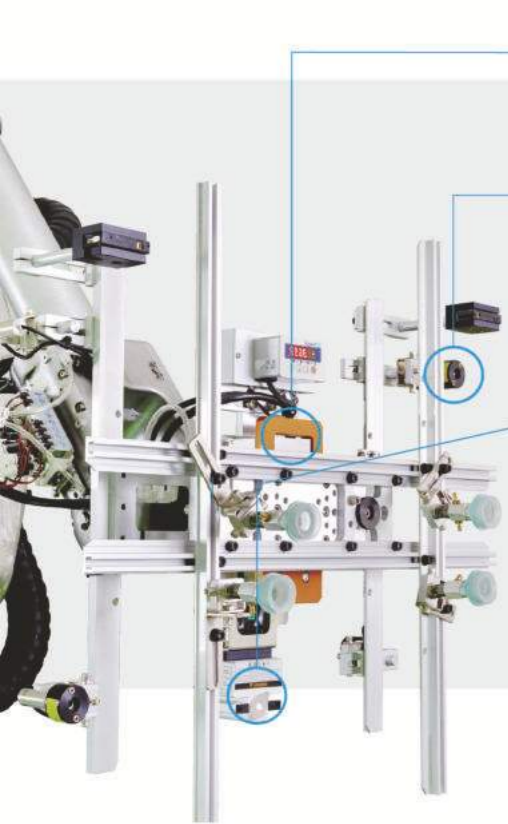


## Advantages Over a Multi-axis Robot

Designed Specifically for Injection Molding Machines  
Requires Less Floor Space and Guarding  
Standard Interface module built in with Euromap 12 (32 pin) , Euromap 67 (50 pin)



# The Industry 4.0 Smart Option

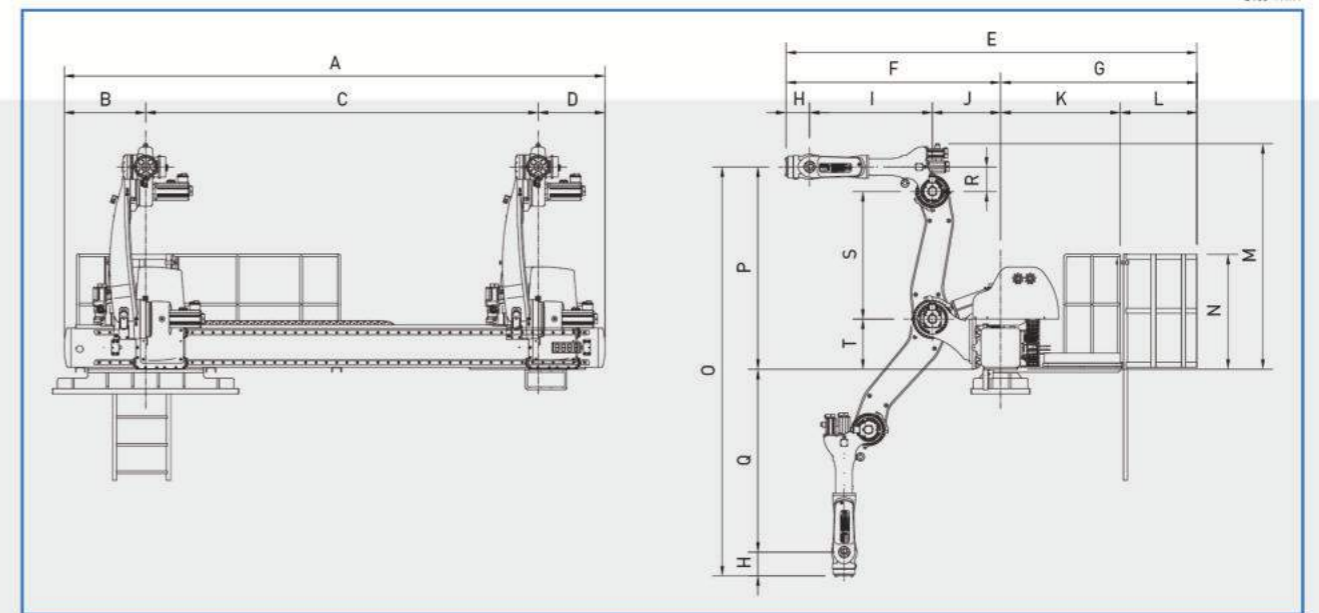


- Weight detection of molded product**  
Robot can find defective products through product's weight for each cycle
- Temperature detection on mold and products**  
Temperature changes can be monitored to stop production of defective products ( Water line break, Temperature control unit malfunction )
- Removal electrostatics on products**  
Minimizes electrostatics on the products and mold surfaces  
For Medical, Automotive lighting industry!
- Remote Service Access**  
Monitor the robot's current status and errors remotely.
- Real-time monitoring system**  
Managing data in real time product quantity, weight, temperature, rate of defective product, error message, etc.



# Technical Data

## Dimension



Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
H5-1850	3,700	658	2,500	542	3,584	1,668	1,916	180	950	538	1,159	758	1,550	1,167	2,823	1,397	1,246	200	800	397
H5-2250	4,340	810	3,000	530	3,819	1,793	2,026	180	1,050	563	1,244	783	1,930	1,167	3,539	1,777	1,582	200	1,130	447
H5-2650	5,390	810	4,000	580	4,044	2,018	2,026	180	1,250	588	1,244	783	2,200	1,167	4,149	2,047	1,922	200	1,350	497
H5-2280	4,410	730	3,000	680	3,859	1,833	2,026	215	1,050	568	1,244	783	2,013	1,167	3,548	1,787	1,546	230	1,100	457
H5-2680	5,450	830	4,000	620	4,059	2,058	2,001	215	1,250	593	1,219	783	2,283	1,167	4,158	2,057	1,886	230	1,320	507
H5-3080	5,960	830	4,500	620	4,309	2,283	2,026	215	1,450	618	1,244	783	2,505	1,167	4,731	2,307	2,209	230	1,502	557
H5-26150	5,510	830	4,000	680	4,186	2,185	2,001	240	1,250	695	1,219	783	2,299	1,172	4,166	2,062	1,864	250	1,300	512

## Technical Specification

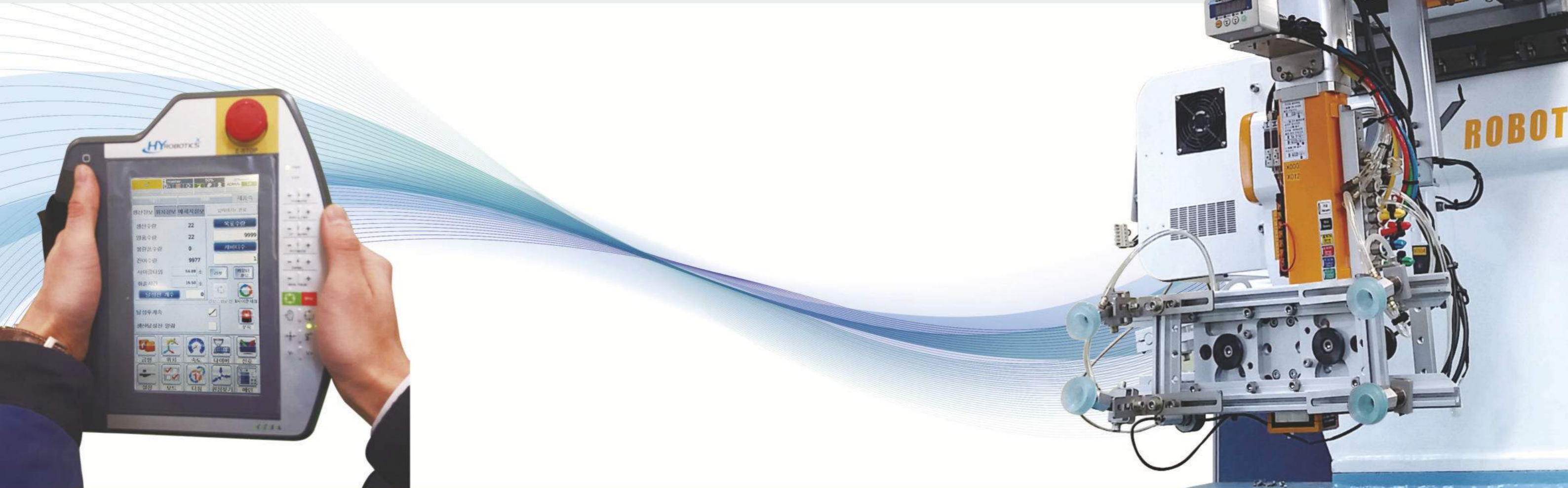
Power	Motion Control	Control Method	Normal Pneumatic Pressure	Max. Pneumatic Pressure
3Phase AC220V(50/60Hz)	Servo Motor	Micro Computer	6 kgf/cm <sup>2</sup>	8 kgf/cm <sup>2</sup>

Model	Traverse Stroke (mm)			Reach (mm)	Max. Electric Consumption	Max. Handling Capacity (Chuck included)	I.M.M(Ton)
	Standard	L TYPE	LL TYPE				
H5-1850	2,500	3,000	3,500	1,750	9.25 kw	50 kgf	600~1,300
H5-2250	3,000	3,500	4,000	2,180	9.25 kw	50 kgf	1,000~2,000
H5-2650	4,000	4,500	5,000	2,600	10.25 kw	50 kgf	2,000~3,000
H5-2280	3,000	3,500	4,000	2,150	15.5 kw	80 kgf	1,000~2,000
H5-2680	4,000	4,500	5,000	2,570	15.5 kw	80 kgf	2,000~3,000
H5-3080	4,500	5,000	5,500	2,970	15.5 kw	80 kgf	2,500~3,500
H5-26150	4,000	4,500	5,000	2,550	23 kw	150 kgf	2,000~3,000



# EPIK · UNIK HYK-70 CONTROLLER

Smart take-out robot with high reliability which can be operated by high performance controller



## Teaching Pendant

- **high performance CPU:** i.MX6, 1.2GHz ARM Cortex™-A9 Core
- **7 inches wide screen:** 1024\*600 High resolution
- **Ergonomic design**
  - Light weight and Ergonomically designed wide screen pendant
- **IMM control button with LED light**
  - Possible to operate simple and safe way
- **Mode type, teaching type, and PLC Program type (Patent achieved)**
  - Engineer can utilize functions from simple movement to advanced features
- **Possible to back up by USB**

## Convenience

- **Possible to set convenient motion easily**
  - 3 types of motion setting mode (mode, teaching, program) help to proceed various motions
- **Simulation**
  - Possible to check the movement of robot on PC by using 3D simulation function
- **Easy setting by image**
  - Worker can easily distinguish the mold by the product picture which is saved
  - When setting palletizing task, worker can operate palletizing easily by using graphic image
- **Highly compatible operating pendant**
  - If pendant is broken, worker can activate another pendant or PC for operation

## Economic effects

- **Energy saving function\_ Energy can be saved more than 25%**
  - Servo auto sleep mode can minimize the consumption of electric current
- **Reducing Cycle time by vibration control system**
  - Special algorithm is applied for reducing vibration control.
  - Automatic calculation of shortest path when Switching in Right Angle, smooth operation
- **Reduced Setting time**
  - 3 types of setting mode can reduce the setting time of standard motion
- **Integrated control by multi-control function**
  - Maximum 4 robot and external appliance can be controlled by 1 controller

## Safety

- **Protective function not to hit the mold**
  - Possible to set mold protection area which helps the robot not to hit the mold
- **Interworking function with ejector**
  - Robot arm moves backward automatically when ejector intrudes to prevent the pin damaging

## Expandability

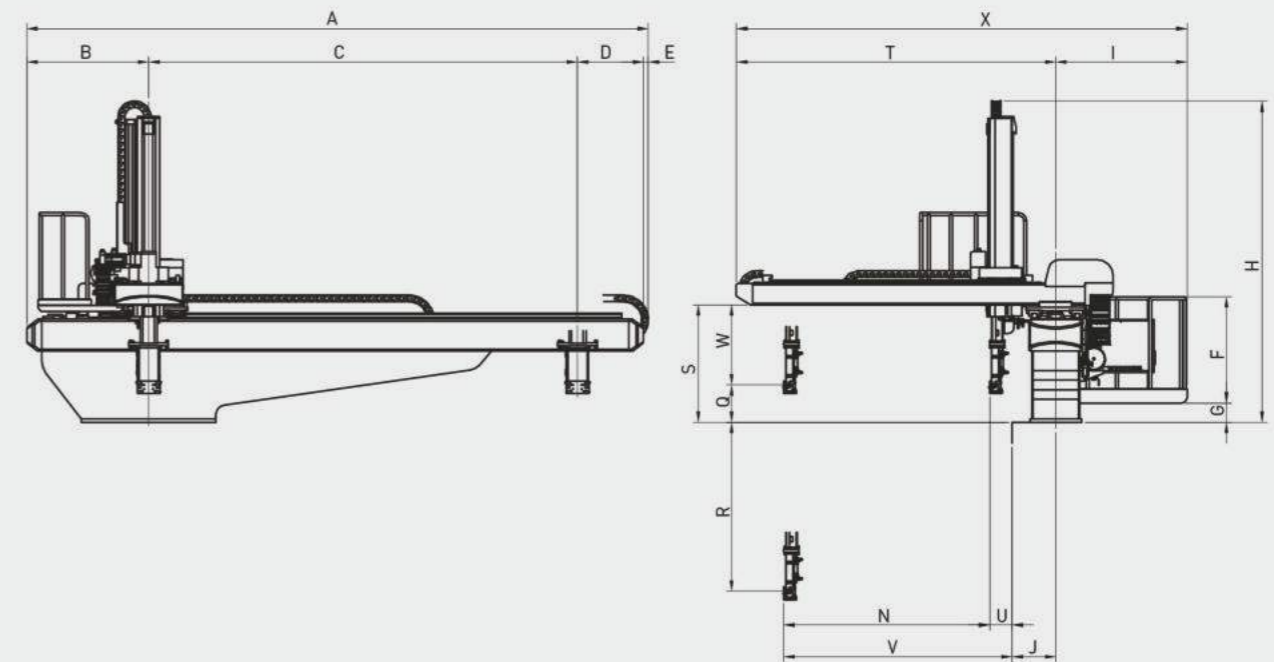
- **Remote monitoring using IOT technology**
  - Possible to check the factory in real time by connecting network
- **New function of injection molding smart solution can be updated continuously**
  - Options related to weight, temperature, electrostatic, and vision help to improve product quality

# EPIK Series

1500~4000 Ton (large tonnage)

- Feature**
- Injection Molding Machine : 1500~4000Ton
  - Servo Motor Axis : Max. 7 axis
  - Motion Guide : High Strength and Low noise LM
  - Crosswise Frame : Double Support Type
  - Vertical Arm Structure : Telescopic Arm(2 step)
  - Controller : Body Attached Controller
  - All Axis : Digital Servo Motor

Power : 1Phase/3Phase AC220V(50/60Hz)  
 Driving Method : Digital Servo Motor  
 Control Method : Micro Computer  
 Air Pressure : 6 kgf/cm<sup>2</sup>  
 Max. Air Pressure : 8 kgf/cm<sup>2</sup>  
 Chuck Rotation : 90°



## Technical Specification

Model	Traverse (mm)		Vertical (mm)	Crosswise (mm)	Max. Electric Consumption	Air Consumption [ℓ(normal)/Cycle]	Max. Payload (Chuck Included)	I.M.M (Ton)
	Standard	L-Type						
EPIK-2000S	3500	4000	2100	1680	3Phase / AC 220V S : 11.4A	54	40kgf	1500~2000
EPIK-2500S	4000	4500	2500	1900	3Phase / AC 220V S : 16.7A	92	50kgf	2000~2500
EPIK-3000S	4000	4500	3000	2240	3Phase / AC 220V S : 20.6A	100	80kgf	2000~4000
EPIK-4000S	4500	5000	3500	2240	3Phase / AC 220V S : 20.6A	100	100kgf	2000~4000

All information subject to change without notice for quality improvements.

## Dimension

Unit : mm / ( ) mark signify L Type.

Model	A	B	C	D	E	F	G	H	I	J	N	T	Q	R	S	U	V	W	X
EPIK-2000S	5015 (5515)	963	3500 (4000)	553	-	1194	160	2781	1175	290	1680	2676	300	1800	1092	286	1966	792	3851
EPIK-2500S	5821 (6321)	1135	4000 (4500)	615	72	1194	180	3009	1225	340	1900	2977	325	2175	1101	289	2189	776	4202
EPIK-3000S	5899 (6399)	1068	4000 (4500)	628	203	1194	230	3549	1275	385	2240	3605	417	2583	1257	377	2617	840	4880

All information subject to change without notice for quality improvements.

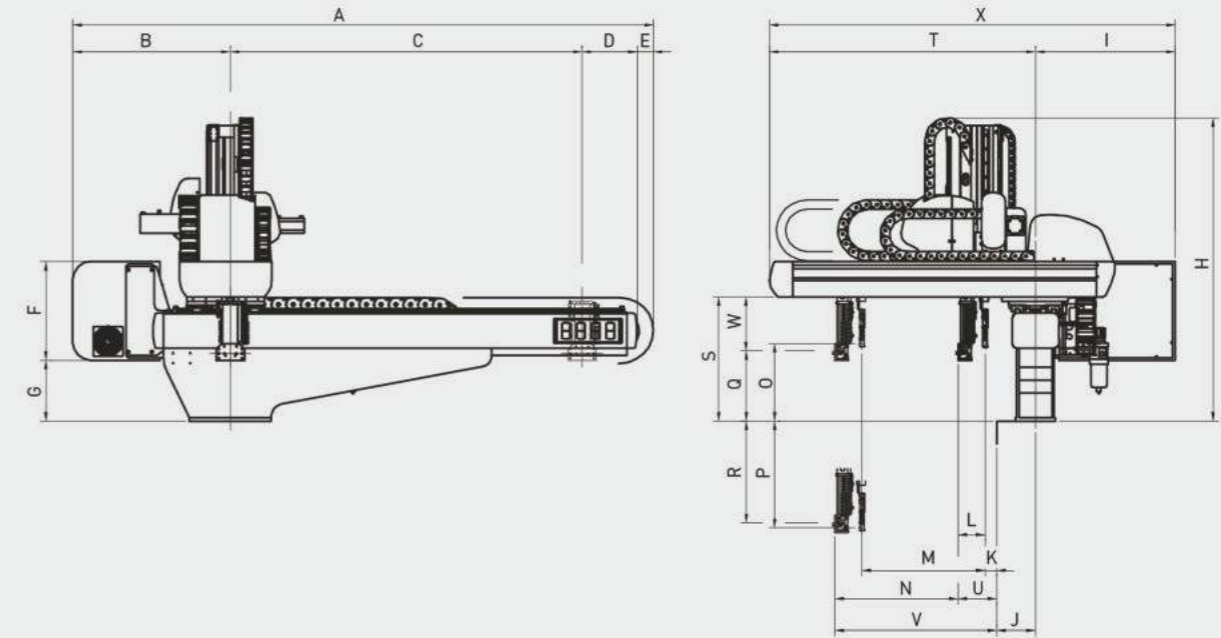
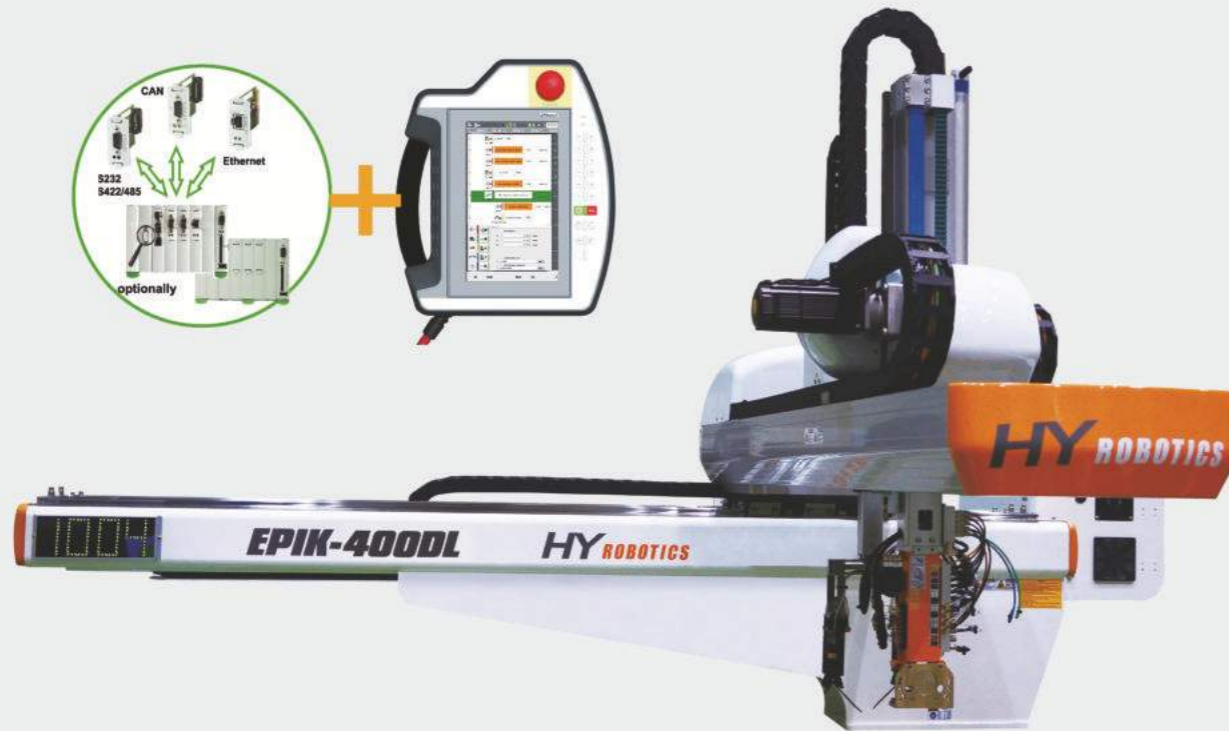
# EPIK Series

280~1300 Ton (small, medium tonnage)

### Feature

- Injection Molding Machine : 280~1300Ton
- Servo Motor Axis : Max. 7 axis
- Motion Guide : High Strength and Low noise LM
- Crosswise Frame : Double Support Type
- Vertical Arm Structure : Telescopic Arm(2 step)
- Controller : Body Attached Controller
- All Axis : Digital Servo Motor

- Power : 1Phase/3Phase AC220V(50/60Hz)
- Driving Method : Digital Servo Motor
- Control Method : Micro Computer
- Air Pressure : 6 kgf/cm<sup>2</sup>
- Max. Air Pressure : 8 kgf/cm<sup>2</sup>
- Chuck Rotation : 90°



### Technical Specification

( ) is optional.

Model	Traverse (mm)			Vertical (mm)		Crosswise (mm)		Max. Electric Consumption	Air Consumption [l(normal)/Cycle]	Max. Payload (Chuck Included)	I.M.M (Ton)
	Standard	L-Type	LL-Type	Main Arm	Sub Arm	Main Arm	Sub Arm				
EPIK-400S	1700	2000	-	1100 (1300)	-	935	-	1 Phase / AC 220V S: 11.6A / D: 15.7A	7	8 Kgf	280~450
EPIK-400D				1100 (1300)	800	800					
EPIK-600S	2000	2500	-	1300 (1600)	-	1110	-	1 Phase / AC 220V S: 11.6A / D: 15.7A	16	12 Kgf	400~650
EPIK-600D				1300 (1600)	905	905					
EPIK-800S	2500	3000	-	1600	-	1150	-	1 Phase / AC 220V S: 11.6A / D: 15.7A	22	18 Kgf	550~900
EPIK-800D				1600	940	940					
EPIK-1300S	3000	3500	-	1800	-	1585	-	3 Phase / AC 220V S: 8.5A / D: 10.8A	35	25 Kgf	1000~1300
EPIK-1300D				1800	1370	1370					

All information subject to change without notice for quality improvements.

### Dimension

( ) is optional.

Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X
EPIK-400S	2759 (3059)	760	1700 (2000)	285	14	400	280	1480	556	185	-	-	-	935	-	-	138	962	530	1435	32	967	392	1991
EPIK-400D											42	125	800	800	210	890					167			
EPIK-600S	3100 (3600)	785	2000 (2500)	315	-	400	314	1798	580	205	-	-	-	1110	-	-	178	1122	632	1686	51	1161	454	2266
EPIK-600D											89	168	905	905	225	1075					256			
EPIK-800S	3585 (4085)	770	2500 (3000)	315	-	400	444	2071	606	235	-	-	-	1150	-	-	199	1401	753	1779	98	1248	554	2385
EPIK-800D											72	237	940	940	249	1351					308			
EPIK-1300S	4295 (4795)	915	3000 (3500)	380	-	400	565	2466	631	255	-	-	-	1585	-	-	179	1621	927	2293	122	1707	748	2924
EPIK-1300D											76	261	1370	1370	264	1536					337			

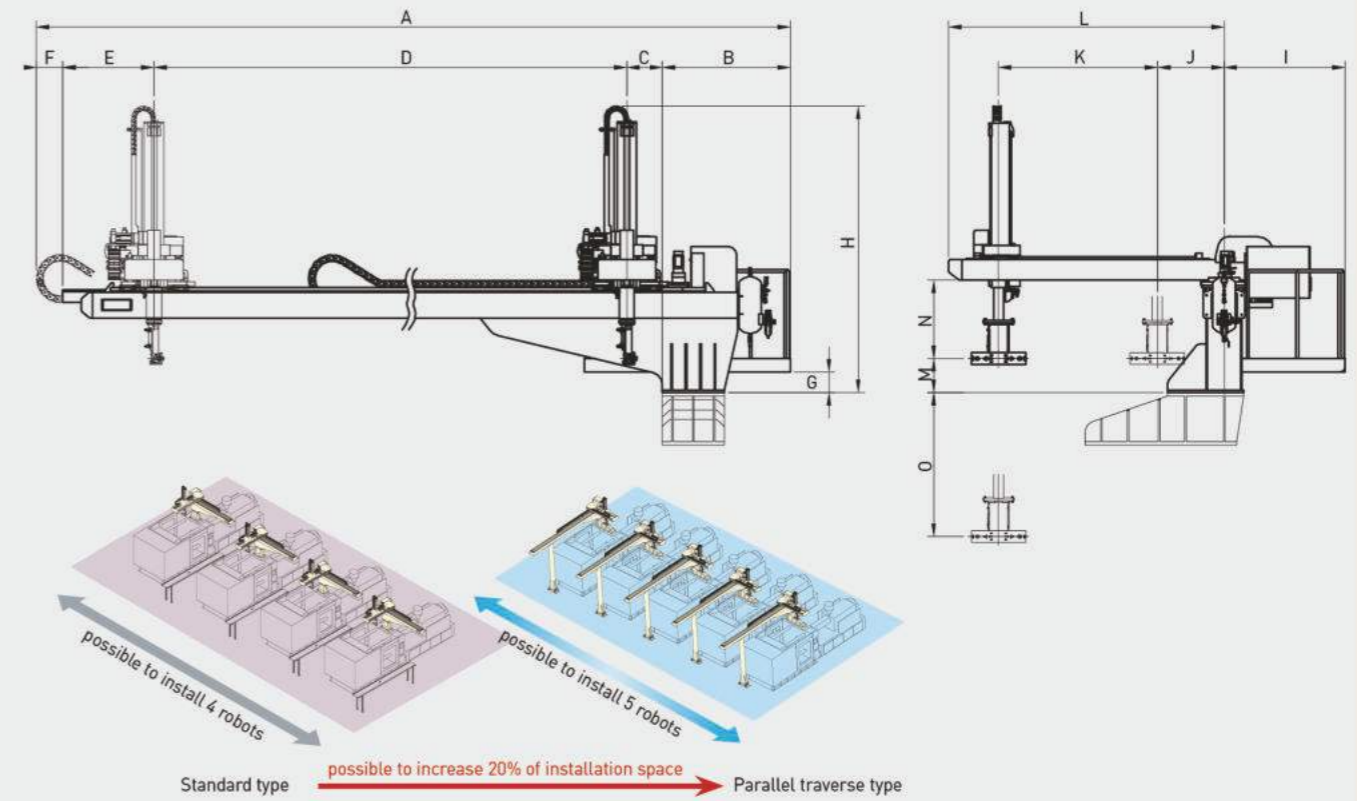
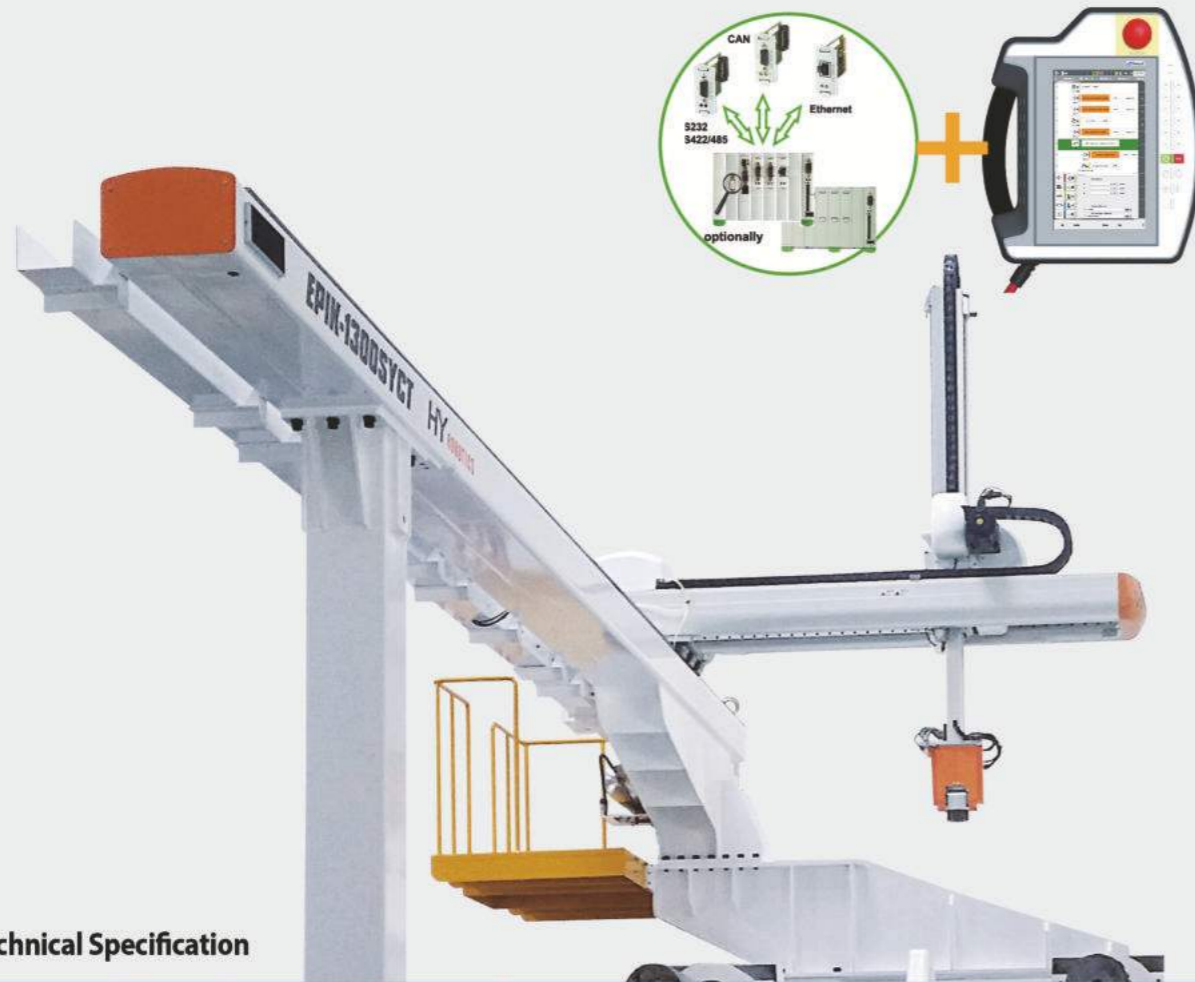
All information subject to change without notice for quality improvements.

# EPIK-SYCT Series

100~4000 Ton (parallel traverse type)

- Feature**
- Injection Molding Machine : 100~4000Ton
  - Servo Motor Axis : Max. 7 axis
  - Motion Guide : High Strength and Low noise LM
  - Crosswise Frame : Double Support Type
  - Vertical Arm Structure : Telescopic Arm(2 step)
  - Controller : Body Attached Controller
  - All Axis : Digital Servo Motor

Power : 1Phase/3Phase AC220V(50/60Hz)  
 Driving Method : Digital Servo Motor  
 Control Method : Micro Computer  
 Air Pressure : 6 kgf/cm<sup>2</sup>  
 Max. Air Pressure : 8 kgf/cm<sup>2</sup>  
 Chuck Rotation : 90°



## Technical Specification

Model	Traverse (mm)	Vertical (mm)	Crosswise (mm)	Max. Electric Consumption	Air Consumption [l(normal)/Cycle]	Max. Payload (Chuck Included)	I.M.M (Ton)
EPIK-200SYCT	3300	800 (950)	650	1 Phase AC220V 11.6A	7	8 Kgf	100~250
EPIK-400SYCT	3600	1100 (1300)	950	1 Phase AC220V 11.6A	7	8 Kgf	280~450
EPIK-600SYCT	4000	1300 (1600)	1085	1 Phase AC220V 11.6A	16	10 Kgf	400~650
EPIK-800SYCT	5000	1600 (1800)	1140	1 Phase AC220V 11.6A	22	15 Kgf	550~900
EPIK-1300SYCT	6000	1800 (2100)	1572	3 Phase AC220V 8.4A	35	25 Kgf	1000~1300
EPIK-2000SYCT	7000	2100 (2500)	1710	3 Phase AC220V 11.4A	54	40 Kgf	1500~2000
EPIK-2500SYCT	8000	2500 (3000)	1920	3 Phase AC220V 16.7A	92	50 Kgf	2000~2500
EPIK-3000SYCT	8000	3000 (3500)	2250	3 Phase AC220V 20.6A	100	80 Kgf	2000~4000
EPIK-4000SYCT	10000	3500	2250	3 Phase AC220V 20.6A	100	100 Kgf	2000~4000

All information subject to change without notice for quality improvements.

## Dimension

Unit : mm / ( ) mark can be changed by Injection Molding Machine full length.

Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
EPIK-200SYCT	(4412)	645	100	(3300)	367	-	250	1318	656	205	650	1135	300	230	500
EPIK-400SYCT	(4812)	695	150	(3600)	367	-	250	1477	656	205	950	1435	138	392	962
EPIK-600SYCT	(5455)	935	200	(4000)	320	-	284	1798	681	275	1085	1627	178	454	1122
EPIK-800SYCT	(6860)	1140	220	(5000)	400	100	414	2078	706	348	1140	1780	200	550	1400
EPIK-1300SYCT	(7973)	1153	250	(6000)	420	150	135	2466	949	405	1572	2293	179	748	1621
EPIK-2000SYCT	(9495)	1245	350	(7000)	700	200	160	2781	1175	556	1710	2676	300	792	1800
EPIK-2500SYCT	(10695)	1245	400	(8000)	800	250	180	3009	1225	616	1920	2977	325	775	2175
EPIK-3000SYCT	(10728)	1250	400	(8000)	828	250	230	3549	1275	747	2250	3605	417	843	2583

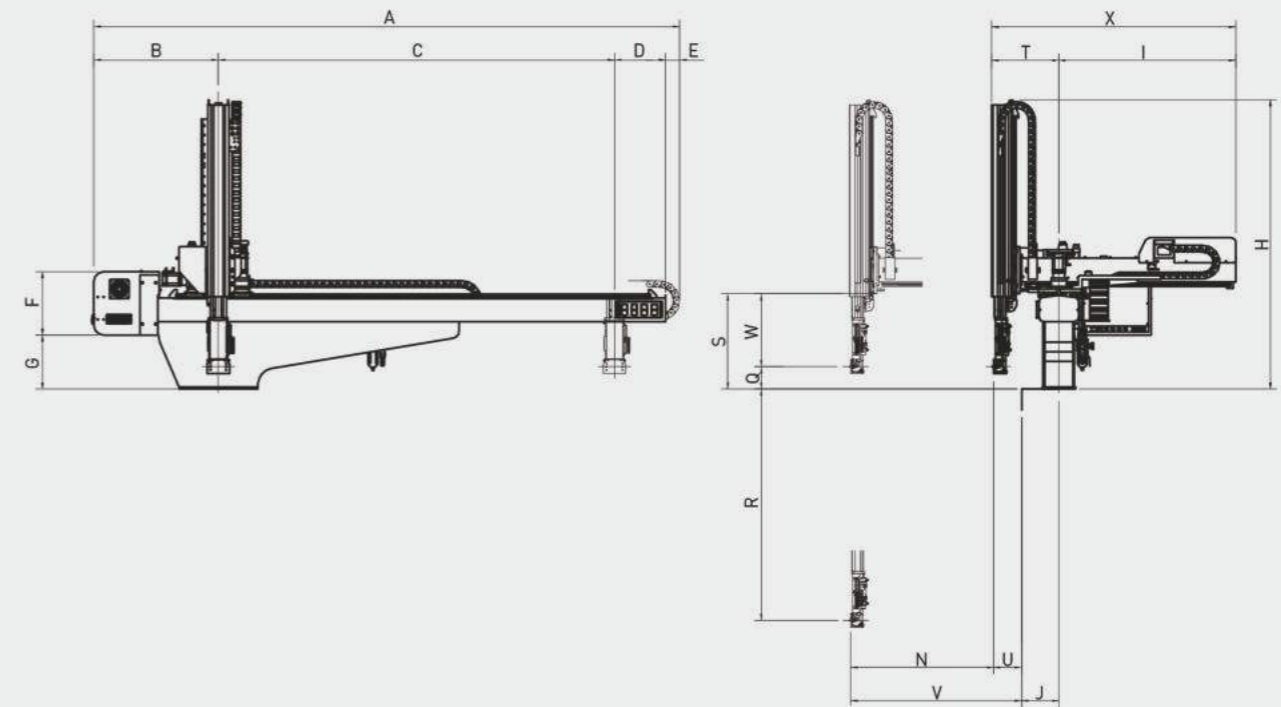
All information subject to change without notice for quality improvements.

# EPIK-SW Series

400~4000 Ton (integrated crosswise and vertical axis)

- Feature**
- Injection Molding Machine : 400~4000Ton
  - Servo Motor Axis : Max. 5 axis
  - Motion Guide : High Strength and Low noise LM
  - Crosswise Frame : integrated crosswise and vertical axis
  - Vertical Arm Structure : Telescopic Arm[2 step]
  - Controller : Body Attached Controller
  - All Axis : Digital Servo Motor

Power : 1Phase AC220V(50/60Hz)  
 Driving Method : Digital Servo Motor  
 Control Method : Micro Computer  
 Air Pressure : 6 kgf/cm<sup>2</sup>  
 Max. Air Pressure : 8 kgf/cm<sup>2</sup>  
 Chuck Rotation : 90°



## Technical Specification

( ) is optional.

Model	Traverse (mm)	Vertical (mm)	Crosswise (mm)	Max. Electric Consumption	Air Consumption [l(normal)/Cycle]	Max. Payload (Chuck Included)	I.M.M (Ton)
EPIK-600SW	2000	1300	900	3 Phase / AC 220V 10.4A	10	10 Kgf	400~650
EPIK-800SW	2500	1600	900 (1200)	3 Phase / AC 220V 13.7A	10	20 Kgf	550~900
EPIK-1000SW	3000	1800	900 (1200)	3 Phase / AC 220V 13.7A	10	20 Kgf	850~1000
EPIK-1300SW	3000	1800	1200 (1500)	3 Phase / AC 220V 17.7A	19	20 Kgf	1000~1300
EPIK-1800SW	3500	2100	1200 (1500)	3 Phase / AC 220V 17.7A	19	20 Kgf	1150~1800
EPIK-2000SW	3500	2100	1500 (1800)	3 Phase / AC 220V 23.5A	27	40 Kgf	1500~2000
EPIK-2500SW	4000	2500	1500 (1900)	3 Phase / AC 220V 31.4A	30	50 Kgf	2000~2500
EPIK-3000SW	4000	3000	2000	3 Phase / AC 220V 33.3A	100	80 Kgf	2000~4000
EPIK-4000SW	4500	3500	2240	3 Phase / AC 220V 33.3A	100	100 Kgf	2000~4000

All information subject to change without notice for quality improvements.

## Dimension

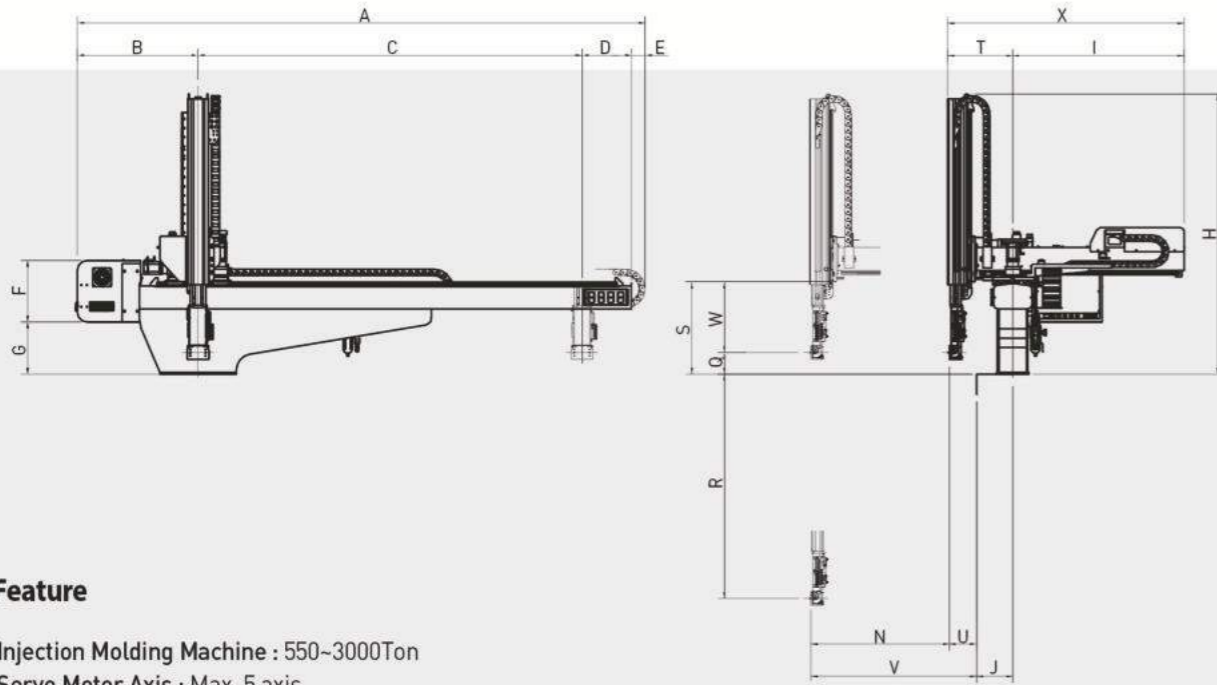
Unit : mm

Model	A	B	C	D	E	F	G	H	I	J	N	Q	R	S	T	U	V	W	X
EPIK-600SW	3390	840	2000	405	145	400	391	1608	1124	205	900	178	1122	578	425	221	1121	400	1549
EPIK-800SW	3697	785	2500	322	90	400	340	1812	1115	235	900	140	1460	602	423	177	1077	462	1538
EPIK-1000SW	4219	797	3000	422	-	400	340	1912	1115	235	900	140	1660	602	422	177	1077	462	1537
EPIK-1300SW	4510	1015	3000	495	-	400	241	2269	1551	255	1200	180	1620	597	511	252	1452	417	2062
EPIK-1800SW	4990	1015	3500	475	-	400	241	2393	1553	290	1200	180	1920	597	511	217	1417	417	2064
EPIK-2000SW	5015	963	3500	553	-	400	526	3071	1975	290	1500	400	1700	932	677	374	1874	532	2652
EPIK-2500SW	5882	1026	4000	813	44	400	625	3163	1988	340	1500	446	2054	1141	705	363	1863	695	2693
EPIK-3000SW	6550	1665	4000	885	-	540	957	4076	2558	385	2000	844	2157	1503	855	449	2449	660	3413

All information subject to change without notice for quality improvements.

# EPIK-E-SW Series

550~3000 Ton (integrated crosswise and vertical axis / Slim type)



Power : 1Phase AC220V(50/60Hz)  
 Driving Method : Digital Servo Motor  
 Control Method : Micro Computer  
 Air Pressure : 6 kgf/cm<sup>2</sup>  
 Max. Air Pressure : 8 kgf/cm<sup>2</sup>  
 Chuck Rotation : 90°

## Feature

- Injection Molding Machine : 550~3000Ton
- Servo Motor Axis : Max. 5 axis
- Motion Guide : High Strength and Low noise LM
- Crosswise Frame : integrated crosswise and vertical axis
- Vertical Arm Structure : Telescopic Arm(2 step)
- Controller : Body Attached Controller
- All Axis : Digital Servo Motor

## Dimension

Unit : mm

Model	A	B	C	D	E	F	G	H	I	J	N	Q	R	S	T	U	V	W	X
EPIK-E-800SW	3890	840	2500	405	145	400	391	1953	1124	205	900	178	1422	578	425	221	1121	400	1549
EPIK-E-1300SW	4219	797	3000	422	-	400	340	1912	1315	235	1200	140	1660	602	422	177	1077	462	1537
EPIK-E-2000SW	4990	1015	3500	475	-	400	241	2415	1853	290	1200	180	1920	597	511	217	1417	417	2064
EPIK-E-2500SW	5515	963	4000	553	-	400	526	3271	1975	290	1500	400	1700	932	677	374	1874	532	2652
EPIK-E-3000SW	5751	1034	4000	578	139	400	744	3557	2538	390	2000	417	2583	1260	768	388	2388	843	3306

## Technical Specification

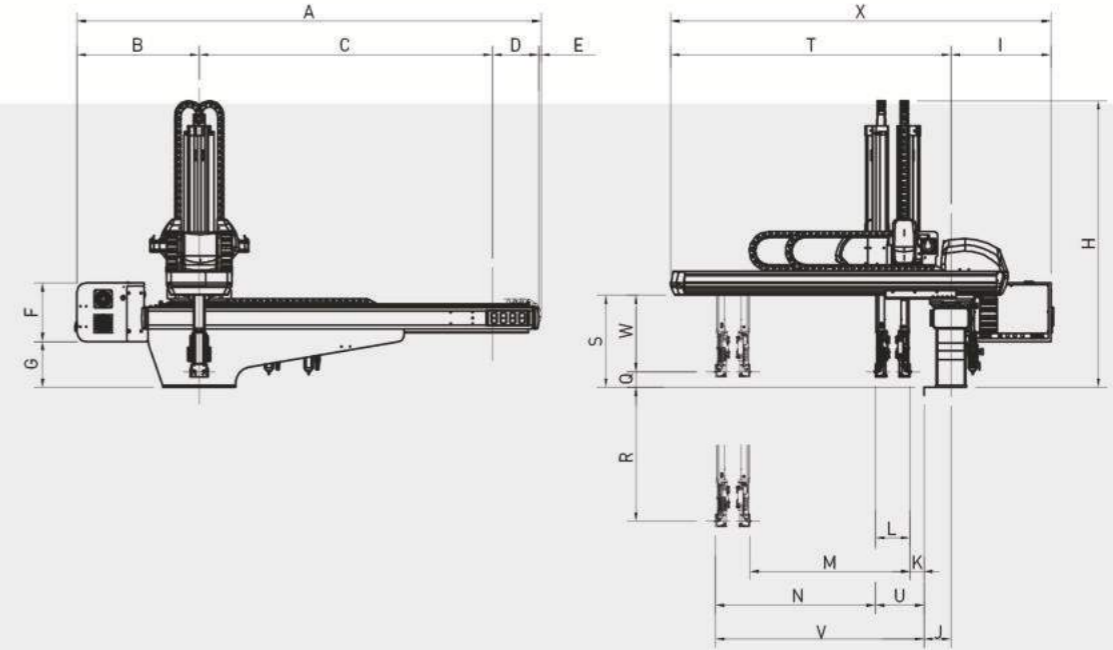
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Model	Traverse (mm)	Vertical (mm)	Crosswise (mm)	Max. Electric Consumption	Air Consumption [ℓ(normal)/Cycle]	Max. Payload (Chuck Included)	I.M.M (Ton)
EPIK-E-800SW	2500	1600(1800)	900	3 Phase / AC 220V 10.4A	10	10 Kgf	550~1300
EPIK-E-1300SW	3000	1800(2100)	1200	3 Phase / AC 220V 13.7A	10	20 Kgf	850~1800
EPIK-E-2000SW	3500	2100(2500,2700)	1500	3 Phase / AC 220V 17.7A	19	35 Kgf	1000~2500
EPIK-E-2500SW	4000	2500(2700,3000)	1800	3 Phase / AC 220V 23.5A	27	50 Kgf	1500~3000
EPIK-E-3000SW	4000	3000	2000	3 Phase / AC 220V 33.3A	90	65 Kgf	2000~4000

All information subject to change without notice for quality improvements.

# EPIK-E-SM Series

400~2000 Ton (for stack mold / Slim type)



## Feature

- Injection Molding Machine : 400~2000Ton
- Motion Guide : High Strength and Low noise LM
- Crosswise Frame : Double Support Type
- Vertical Arm Structure : Telescopic Arm(2 step)
- Controller : Body Attached Controller
- All Axis : Digital Servo Motor

Power : 1Phase/3Phase AC220V(50/60Hz)  
 Driving Method : Servo Motor  
 Control Method : Micro Computer  
 Air Pressure : 6 kgf/cm<sup>2</sup>  
 Max. Air Pressure : 8 kgf/cm<sup>2</sup>  
 Chuck Rotation : 90°

## Dimension

Unit : mm / ( ) mark signify L Type.

Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N	Q	R	S	T	U	V	W	X
EPIK-E-600D-SM	3102	765	2000	305	32	400	382	1662	556	205	15	202	945	945	178	1122	632	1653	217	1162	454	2209
EPIK-E-800D-SM	3580	785	2500	295	-	400	314	1955	581	235	45	236	967	967	81	1519	632	1806	281	1248	550	2387
EPIK-E-1300D-SM	4145	770	3000	375	-	400	444	2199	606	255	36	342	1329	1329	139	1662	753	2259	378	1707	615	2865
EPIK-E-2000D-SM	4765	825	3500	440	-	400	545	2593	631	290	40	382	1505	1505	179	1921	927	2548	422	1927	748	3179

## Technical Specification

( ) is optional

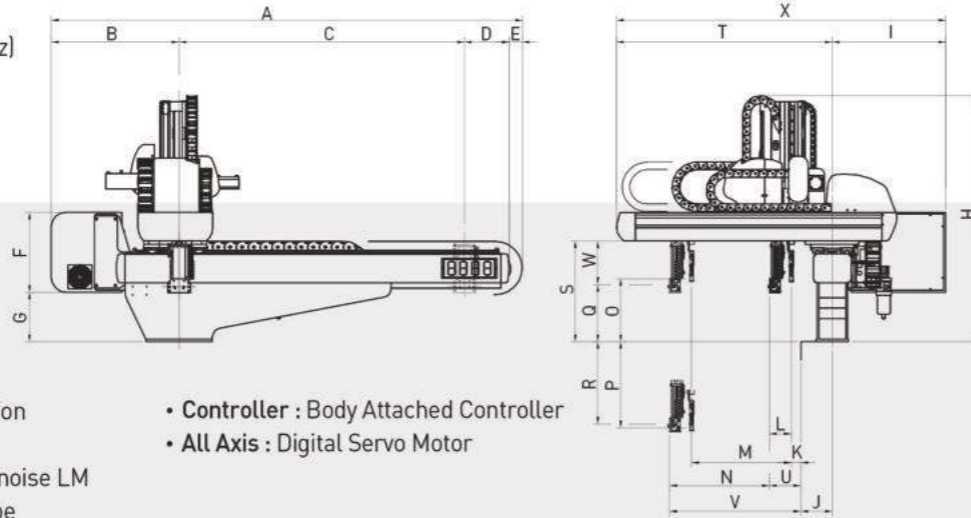
Model	Traverse (mm)	Vertical (mm)		Crosswise (mm)		Max. Electric Consumption	Air Consumption [ℓ(normal)/Cycle]	Max. Payload (Chuck Included)	I.M.M (Ton)
		Main Arm	Sub Arm	Main Arm	Sub Arm				
EPIK-E-600D-SM	2000	1300	1500	945	945	3 Phase / AC 220V 16.3A	32	10 Kgf	400~650
EPIK-E-800D-SM	2500	1600	1800	967	967	3 Phase / AC 220V 17.1A	44	15 Kgf	550~900
EPIK-E-1300D-SM	3000	1800	2100	1329	1329	3 Phase / AC 220V 17.1A	50	20 Kgf	1000~1300
EPIK-E-2000D-SM	3500	2100	2300	1505	1505	3 Phase / AC 220V 23.5A	76	30 Kgf	1500~2000

All information subject to change without notice for quality improvements.

# EPIK-V Series

100~1300 Ton (for automation / high-precision type)

Power : 1Phase/3Phase AC220V(50/60Hz)  
 Driving Method : Digital Servo Motor  
 Control Method : Micro Computer  
 Air Pressure : 6 kgf/cm<sup>2</sup>  
 Max. Air Pressure : 8 kgf/cm<sup>2</sup>  
 Chuck Rotation : 90°



## Feature

- Injection Molding Machine : 100~1300Ton
- Servo Motor Axis : Max. 7 axis
- Motion Guide : High Strength and Low noise LM
- Crosswise Frame : Double Support Type
- Vertical Arm Structure : Telescopic Arm(2 step)
- Controller : Body Attached Controller
- All Axis : Digital Servo Motor

## Dimension

Unit : mm / ( ) mark signify L Type, [ ] mark signify LL type.

Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X
EPIK-V-200S	2557 (2757)	745	1500 (1700)	275	37	400	280	1318	556	165	-	-	-	634	-	-	286	514	530	1135	52	686	244	1691
EPIK-V-200D	[2957]										62	124	500	500	346	504	-	-	-	186	-	-	-	
EPIK-V-300S	2557 (2757)	745	1500 (1700)	275	37	400	280	1397	556	165	-	-	-	814	-	-	286	664	530	1315	52	866	244	1871
EPIK-V-300D	[2957]										62	124	680	680	346	604	-	-	-	186	-	-	-	
EPIK-V-400S	2780 (3080)	785	1700 (2000)	295	-	400	314	1668	581	205	-	-	-	1050	-	-	258	842	632	1626	51	1106	374	2207
EPIK-V-400D	[3080]										86	170	850	850	340	760	-	-	-	256	-	-	-	
EPIK-V-600S	3120 (3620)	785	2000 (2500)	335	-	400	444	1908	606	235	-	-	-	1085	-	-	291	1009	753	1719	98	1183	462	2325
EPIK-V-600D	[3620]										72	237	875	875	347	953	-	-	-	308	-	-	-	
EPIK-V-800S	3705 (4205)	825	2500 (3000)	380	-	500	485	2331	811	255	-	-	-	1160	-	-	368	1232	927	1873	127	1287	559	2684
EPIK-V-800D	[4205]										69	259	960	960	428	1172	-	-	-	327	-	-	-	
EPIK-V-1300S	4502 (5002)	963	3000 (3500)	523	17	-	-	2657	866	290	-	-	-	1550	-	-	361	1439	1092	2546	286	1836	731	3412
EPIK-V-1300D	[5002]										85	341	1410	1410	397	1403	-	-	-	426	-	-	-	

## Technical Specification

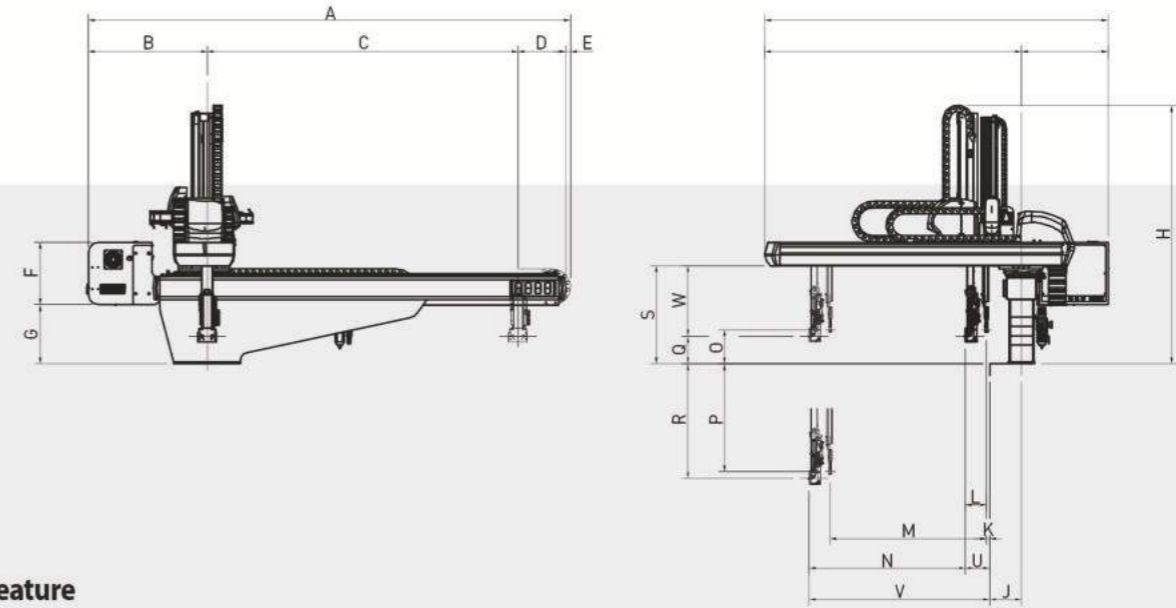
( ) is optional.

Model	Traverse (mm)			Vertical (mm)		Crosswise (mm)		Max. Electric Consumption	Air Consumption [ℓ(normal)/Cycle]	Max. Payload (Chuck Included)	I.M.M (Ton)
	Standard	L-Type	LL-Type	Main Arm	Sub Arm	Main Arm	Sub Arm				
EPIK-V-200S	1500	1700	1900	800 (950)	-	634	-	1 Phase / AC 220V S: 11.6A / D: 15.7A	7	8 Kgf	100~250
EPIK-V-200D					850 (950)	500	500				
EPIK-V-300S	1500	1700	1900	950	-	814	-	1 Phase / AC 220V S: 11.6A / D: 15.7A	7	8 Kgf	180~300
EPIK-V-300D					950	680	680				
EPIK-V-400S	1700	2000	-	1100	-	1050	-	1 Phase / AC 220V S: 11.6A / D: 15.7A	16	10 Kgf	280~450
EPIK-V-400D					1100	850	850				
EPIK-V-600S	2000	2500	-	1300	-	1085	-	1 Phase / AC 220V S: 11.6A / D: 15.7A	22	15 Kgf	400~650
EPIK-V-600D					1300	875	875				
EPIK-V-800S	2500	3000	-	1600	-	1160	-	3 Phase / AC 220V S: 8.5A / D: 10.8A	35	20 Kgf	550~900
EPIK-V-800D					1600	960	960				
EPIK-V-1300S	3000	3500	-	1800	-	1550	-	3 Phase / AC 220V S: 11.4A / D: 15.2A	56	30 Kgf	1000~1300
EPIK-V-1300D					1800	1410	1410				

All information subject to change without notice for quality improvements.

# EPIK-E Series

400~2000 Ton (Slim type)



## Feature

- Injection Molding Machine : 400~2000Ton
- Servo Motor Axis : Max. 7 axis
- Motion Guide : High Strength and Low noise LM
- Crosswise Frame : Double Support Type
- Vertical Arm Structure : Telescopic Arm(2 step)
- Controller : Body Attached Controller
- All Axis : Digital Servo Motor

Power : 1Phase/3Phase AC220V(50/60Hz)  
 Driving Method : Digital Servo Motor  
 Control Method : Micro Computer  
 Air Pressure : 6 kgf/cm<sup>2</sup>  
 Max. Air Pressure : 8 kgf/cm<sup>2</sup>  
 Chuck Rotation : 90°

## Dimension

Unit : mm / ( ) mark signify L Type.

Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X
EPIK-E-600S	3102	765	2000	305	32	400	382	1662	556	205	-	-	-	1110	-	-	178	1122	632	1653	52	1162	454	2209
EPIK-E-600D											22	135	1005	1005	221	1079	-	-	-	157	-	-		
EPIK-E-800S	3580	785	2500	295	-	400	314	1955	581	235	-	-	-	1150	-	-	81	1519	632	1806	98	1248	550	2387
EPIK-E-800D											57	173	1019	1019	126	1474	-	-	-	230	-	-		
EPIK-E-1300S	4145	770	3000	375	-	400	444	2199	606	255	-	-	-	1585	-	-	139	1662	753	2259	122	1707	615	2865
EPIK-E-2000S	4765	825	3500	440	-	400	545	2593	631	290	-	-	-	1640	-	-	179	1921	927	2548	287	1927	748	3179
EPIK-E-2500S	5505	963	4000	543	31	400	525	3025	786	325	-	-	-	1800	-	-	300	2200	1092	2796	258	2058	792	3582
EPIK-E-3000S	5749	1135	4000	615	71	400	674	3450	836	375	-	-	-	2000	-	-	418	2583	1238	3087	279	2279	821	3923

## Technical Specification

( ) is optional.

Model	Traverse (mm)	Vertical (mm)		Crosswise (mm)		Max. Electric Consumption	Air Consumption [ℓ(normal)/Cycle]	Max. Payload (Chuck Included)	I.M.M (Ton)
		Main Arm	Sub Arm	Main Arm	Sub Arm				
EPIK-E-600S	2000	1300 (1500)		1110	-	1 Phase / AC 220V S: 11.6A / D: 15.7A	16	10 Kgf	400~650
EPIK-E-600D				1005	1005				
EPIK-E-800S	2500	1600 (1800)		1150	-	1 Phase / AC 220V S: 11.6A / D: 15.7A	22	15 Kgf	550~900
EPIK-E-800D				1019	1019				
EPIK-E-1300S	3000	1800	-	1585	-	1 Phase / AC 220V 11.6A	25	18 Kgf	1000~1300
EPIK-E-2000S	3500	2100	-	1640	-	3 Phase / AC 220V 8.5A	38	30 Kgf	1500~2000
EPIK-E-2500S	4000	2500	-	1800	-	3 Phase / AC 220V 16.7A	54	50 Kgf	2000~2500
EPIK-E-3000S	4000	3000	-	2000	-	3 Phase / AC 220V 20.6A	140	65 Kgf	2000~4000

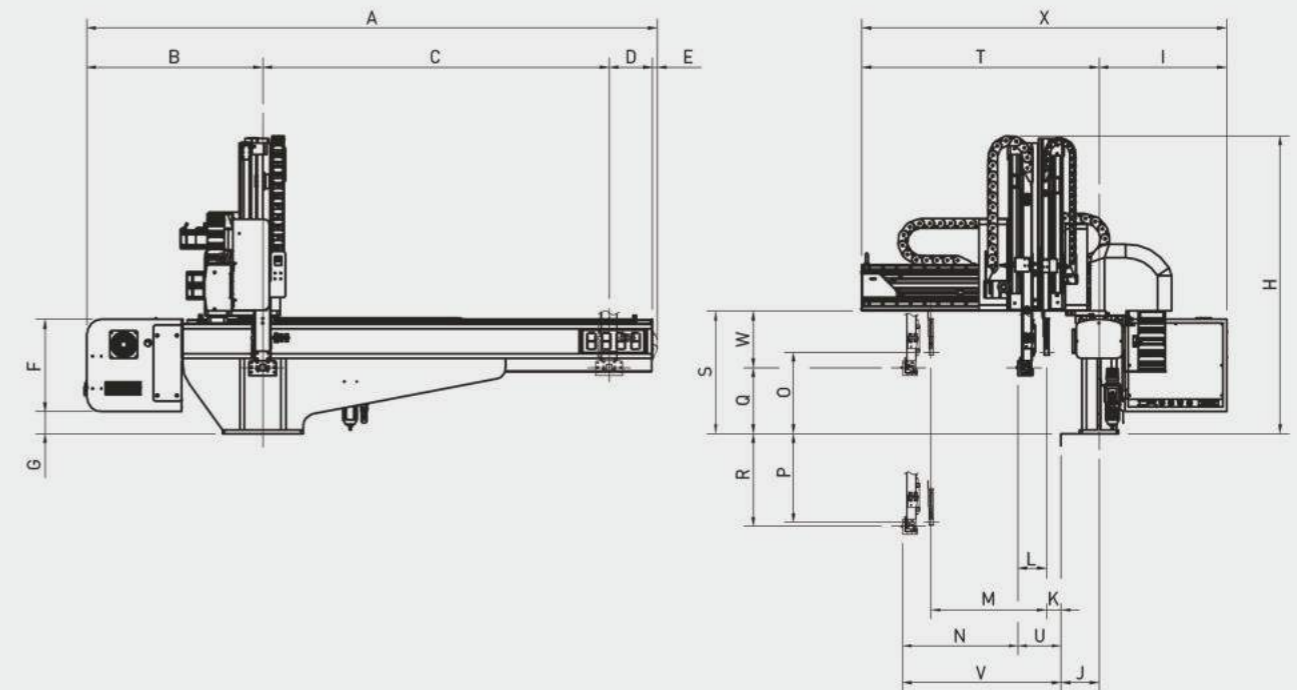
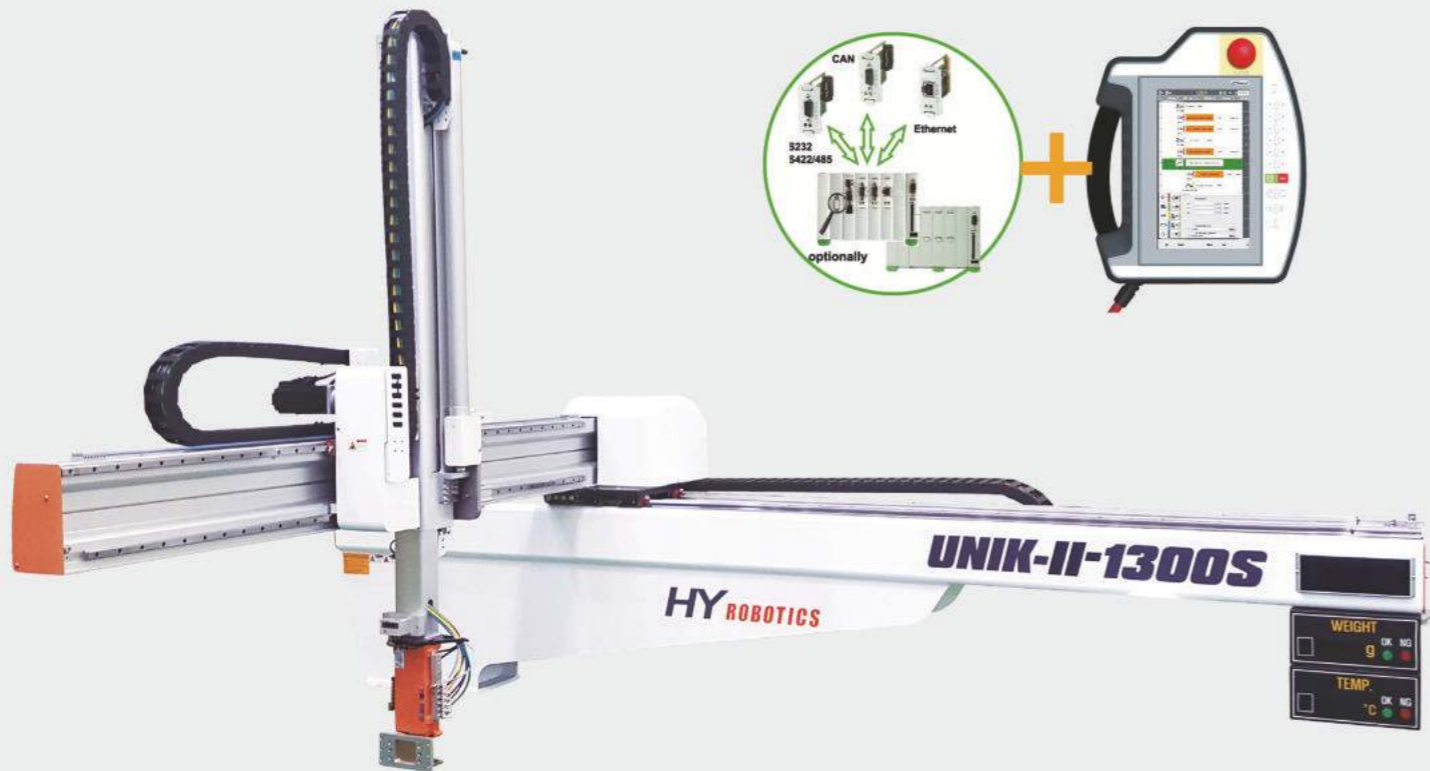
All information subject to change without notice for quality improvements.

# UNIK-II Series

100~1800 Ton

- Feature**
- Injection Molding Machine : 100~1800Ton
  - Servo Motor Axis : Max. 5 axis
  - Motion Guide : High Strength and Low noise LM
  - Vertical Arm Structure : Telescopic Arm(2 step)
  - Controller : Body Attached Controller

Power : 1Phase AC220V(50/60Hz)  
 Driving Method : Digital Servo Motor  
 Control Method : Micro Computer  
 Air Pressure : 6 kgf/cm<sup>2</sup>  
 Max. Air Pressure : 8 kgf/cm<sup>2</sup>  
 Chuck Rotation : 90°



## Technical Specification

( ) is optional.

Model	Traverse (mm)			Vertical (mm)		Crosswise (mm)		Max. Electric Consumption	Air Consumption [ℓ(normal)/Cycle]	Max. Payload (Chuck Included)	I.M.M (Ton)
	Standard	L-Type	LL-Type	Main Arm	Sub Arm	Main Arm	Sub Arm				
UNIK-II-200S	1500	1700	1900	800	-	640	-	1 Phase / AC 220V S: 9.2A D: 13.3A	6	8 Kgf	100~250
UNIK-II-200D					850	500	500				
UNIK-II-300S	1500	1700	1900	950	-	820	-	1 Phase / AC 220V S: 9.2A D: 13.3A	7	8 Kgf	180~300
UNIK-II-300D					950	680	680				
UNIK-II-400S	1700	2000	-	1100 (1300)	-	940	-	1 Phase / AC 220V S: 9.2A D: 13.3A	7	8 Kgf	280~450
UNIK-II-400D					1100	800	800				
UNIK-II-600S	2000	2200	-	1500	-	1110	-	1 Phase / AC 220V S: 9.2A D: 13.3A	8	10 Kgf	400~650
UNIK-II-600D					1500	960	960				
UNIK-II-800S	2500	-	-	1600	-	1150	-	1 Phase / AC 220V S: 13.0A D: 17.1A	22	15 Kgf	550~900
UNIK-II-800D					1600	960	960				
UNIK-II-1300S	3000	-	-	1800	-	1585	-	1 Phase / AC 220V 13.0A	25	18 Kgf	1000~1800

All information subject to change without notice for quality improvements.

## Dimension

Unit : mm / ( ) mark signify L Type, [ ] mark signify LL type.

Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X
UNIK-II-200S	2470 (2670)	762	1500 (1700)	188	20	400	95	1288	552	165	-	-	-	640	-	-	286	514	530	1027	46	686	244	1579
UNIK-II-200D	[2870]		[1900]								62	124	500	500	353	498					186			
UNIK-II-300S	2470 (2670)	762	1500 (1700)	188	20	400	95	1388	552	165	-	-	-	820	-	-	286	664	530	1027	46	686	244	1759
UNIK-II-300D	[2870]		[1900]								62	124	680	680	353	598					186			
UNIK-II-400S	2714 (3014)	762	1700 (2000)	188	65	400	95	1438	552	165	-	-	-	940	-	-	138	962	530	1327	46	986	392	1879
UNIK-II-400D											62	124	800	800	209	891					186			
UNIK-II-600S	3025 (3225)	782	2000 (2200)	138	105	400	197	1747	552	165	-	-	-	1110	-	-	178	1322	632	1487	46	1151	454	2039
UNIK-II-600D											62	129	960	960	228	1272					191			
UNIK-II-800S	3710	855	2500	335	21	400	229	1986	581	235	-	-	-	1150	-	-	84	1516	620	1686	99	1249	536	2267
UNIK-II-800D											102	187	960	960	130	1470					289			
UNIK-II-1300S	4201	780	3000	320	102	400	476	2125	605	265	-	-	-	1585	-	-	140	1661	755	2155	124	1709	616	2761

All information subject to change without notice for quality improvements.

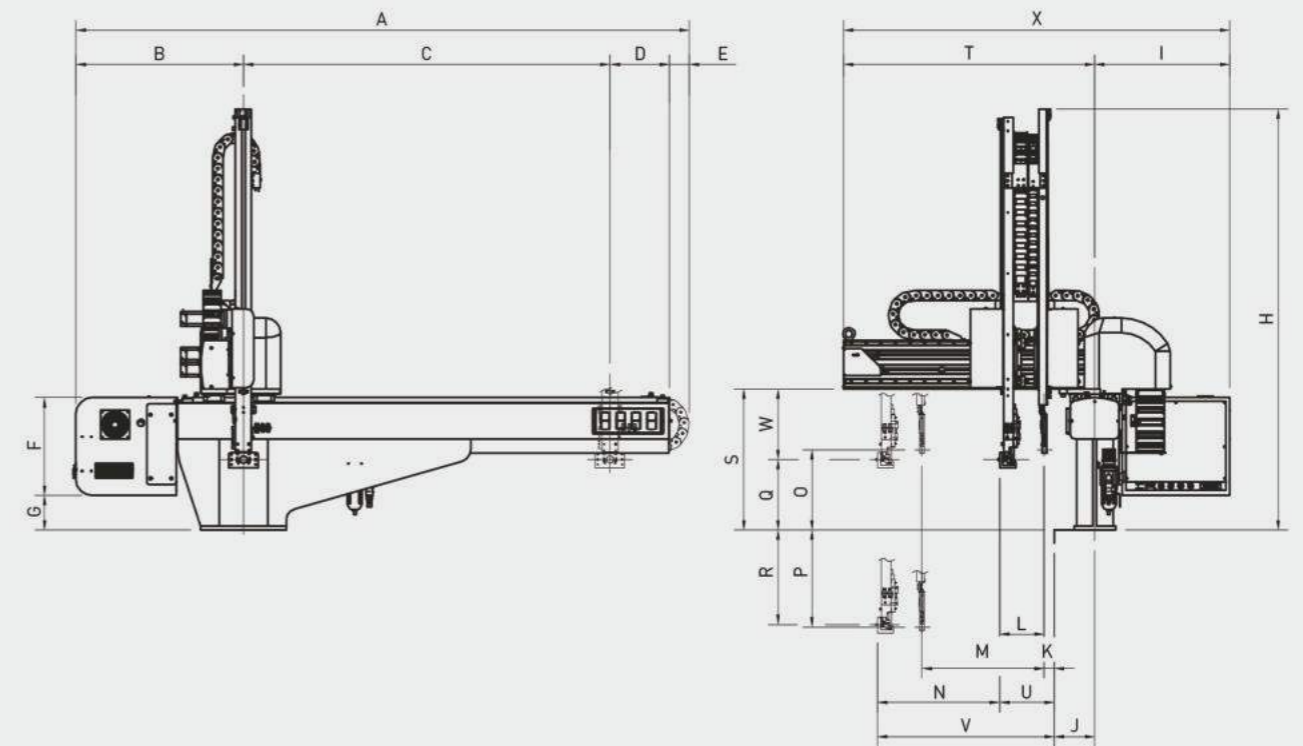
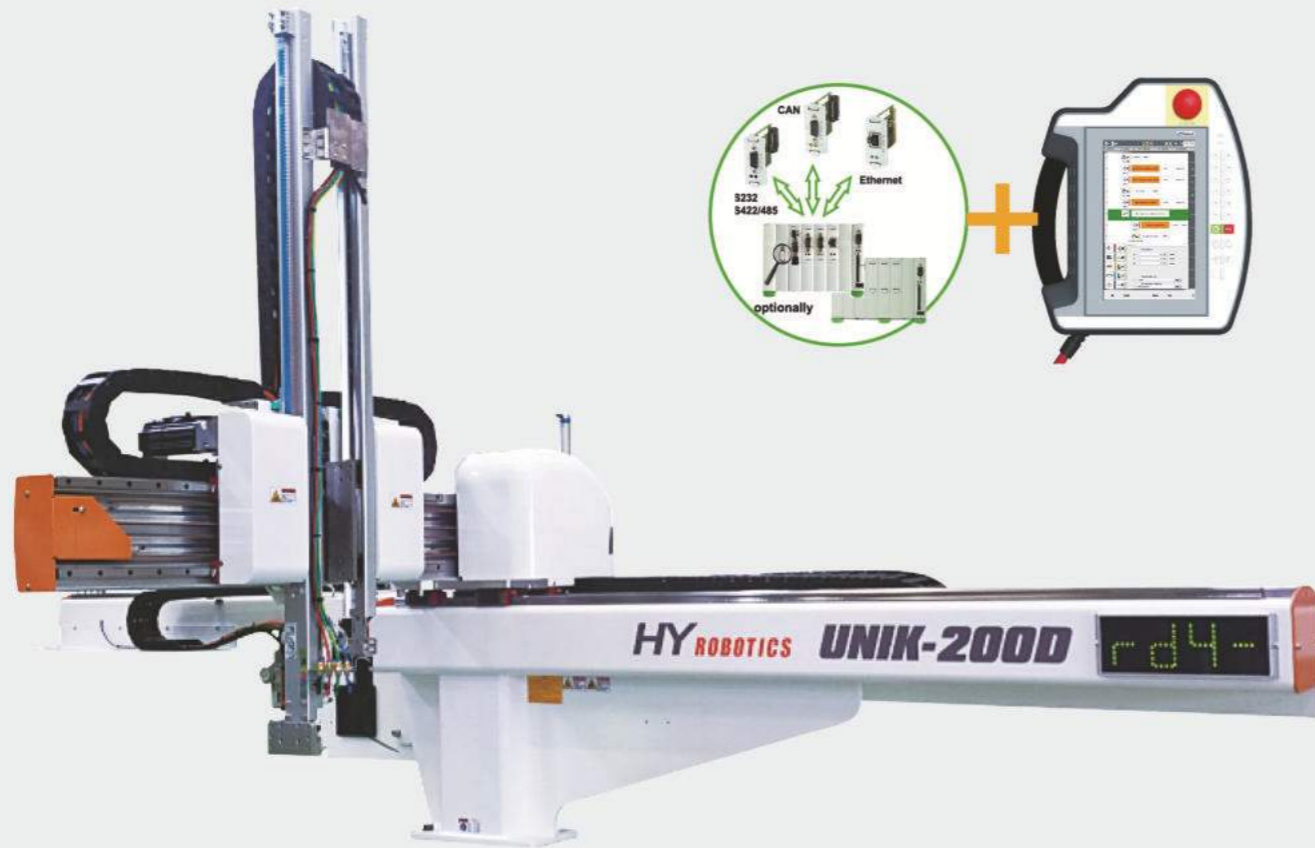


# UNIK Series

30~650 Ton

- Feature**
- Injection Molding Machine : 30~450Ton
  - Servo Motor Axis : Max. 5 axis
  - Motion Guide : High Strength and Low noise LM
  - Vertical Arm Structure : Non Telescopic Arm
  - Controller : Body Attached Controller

Power : 1Phase AC220V(50/60Hz)  
 Driving Method : Digital Servo Motor  
 Control Method : Micro Computer  
 Air Pressure : 6 kgf/cm<sup>2</sup>  
 Max. Air Pressure : 8 kgf/cm<sup>2</sup>  
 Chuck Rotation : 90°



## Technical Specification

Model	Traverse (mm)			Vertical (mm)		Crosswise (mm)		Max. Electric Consumption	Air Consumption [l(normal)/Cycle]	Max. Payload (Chuck Included)	I.M.M (Ton)
	Standard	L-Type	LL-Type	Main Arm	Sub Arm	Main Arm	Sub Arm				
UNIK-80S	1200	1400	-	650	-	585	-	1 Phase / AC 220V S: 6.8A D: 10.9A	6	3 kgf	30~80
UNIK-80D					700	450	450				
UNIK-200S	1500	1700	1900	800	-	660	-	1 Phase / AC 220V S: 6.8A D: 10.9A	6	5 kgf	100~250
UNIK-200D					850	500	500				
UNIK-300S	1500	1700	1900	950	-	835	-	1 Phase / AC 220V S: 6.8A D: 10.9A	7	5 kgf	180~300
UNIK-300D					950	675	675				
UNIK-400S	1700	2000	-	1100	-	835	-	1 Phase / AC 220V S: 6.8A D: 10.9A	7	5 kgf	280~450
UNIK-400D					1100	675	675				

All information subject to change without notice for quality improvements.

## Dimension

Unit : mm / ( ) mark signify L Type, [ ] mark signify LL type.

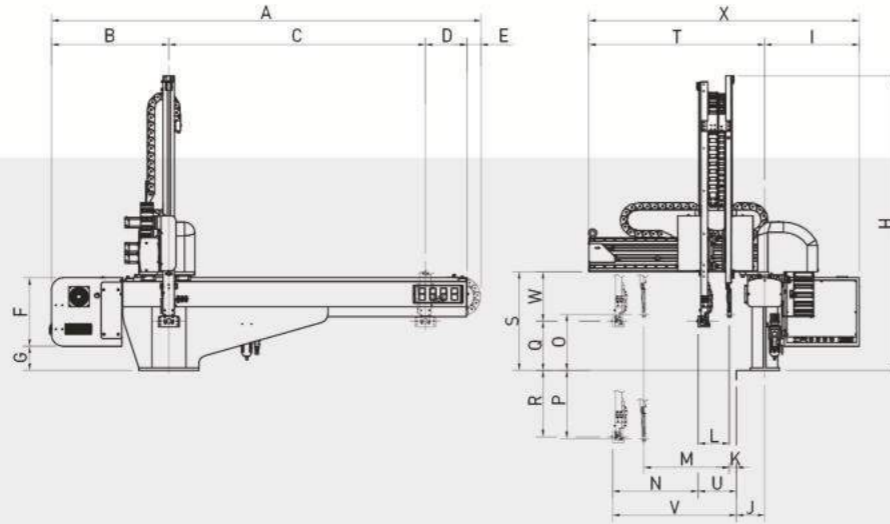
Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X
UNIK-80S	2114 (2314)	600	1200 (1400)	218	96	350	234	1356	442	100	-	-	-	585	-	-	150	500	419	928	80	665	269	1370
UNIK-80D											81	134	450	450	175	526					215			
UNIK-200S	2509 (2709)	686	1500 (1700)	244	80	400	141	1722	552	165	-	-	-	660	-	-	288	512	576	1027	64	724	288	1579
UNIK-200D											42	182	500	500	328	522					224			
UNIK-300S	2509 (2709)	686	1500 (1700)	244	80	400	141	1822	552	165	-	-	-	835	-	-	288	662	576	1207	64	899	288	1759
UNIK-300D											42	182	675	675	328	622					224			
UNIK-400S	2714 (3014)	686	1700 (2000)	244	85	400	141	1972	552	165	-	-	-	835	-	-	288	812	576	1207	64	899	288	1759
UNIK-400D											42	182	675	675	328	772					224			

All information subject to change without notice for quality improvements.

# UNIK-H Series

30~650 Ton (high-cycle type / speed 30% improved)

Power : 1Phase AC220V[50/60Hz]  
 Driving Method : Digital Servo Motor  
 Control Method : Micro Computer  
 Air Pressure : 6 kgf/cm<sup>2</sup>  
 Max. Air Pressure : 8 kgf/cm<sup>2</sup>  
 Chuck Rotation : 90°



## Dimension

Unit : mm / ( ) mark signify L Type, [ ] mark signify LL type.

Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X
UNIK-80SH	2114 (2314)	600	1200 (1400)	218	96	350	234	1356	442	100	-	-	-	585	-	-	150	500	419	928	80	665	269	1370
UNIK-80DH											81	134	450	450	175	526					215			
UNIK-200SH	2509 (2709)	686	1500 (1700)	244	80	400	141	1722	552	165	-	-	-	660	-	-	288	512	576	1027	64	724	288	1579
UNIK-200DH	[2909]		[1900]								42	182	500	500	328	522					224			
UNIK-300SH	2509 (2709)	686	1500 (1700)	244	80	400	141	1822	552	165	-	-	-	835	-	-	288	662	576	1207	64	899	288	1759
UNIK-300DH	[2909]		[1900]								42	182	675	675	328	622					224			
UNIK-400SH	2714 (3014)	686	1700 (2000)	244	85	400	141	1972	552	165	-	-	-	835	-	-	288	812	576	1207	64	899	288	1759
UNIK-400DH											42	182	675	675	328	772					224			

## Technical specification

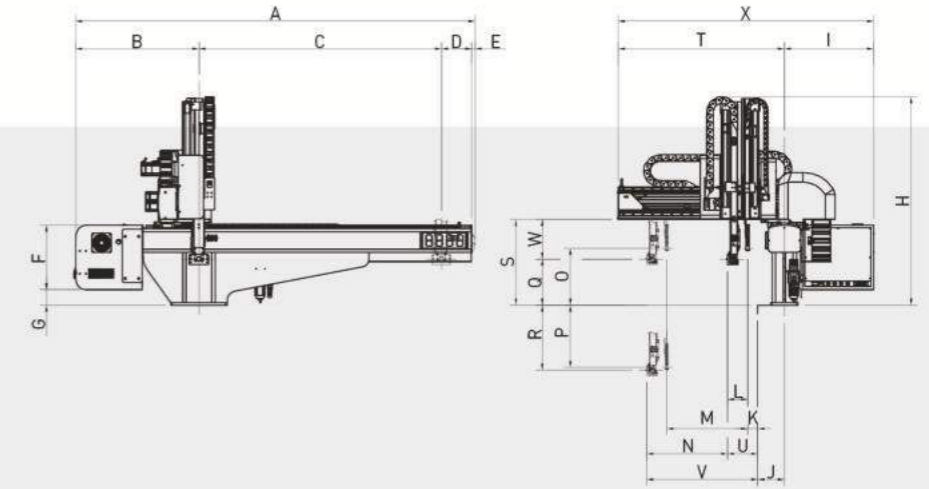
Model	Traverse (mm)			Vertical (mm)		Crosswise (mm)		Max. Electric Consumption	Air Consumption [ℓ(normal)/Cycle]	Max. Payload (Chuck Included)	I.M.M (Ton)
	Standard	L-Type	LL-Type	Main Arm	Sub Arm	Main Arm	Sub Arm				
UNIK-80SH	1200	1400	-	650	-	585	-	1 Phase / AC 220V S: 6.8A / D: 10.9A	6	3 Kgf	30~80
UNIK-80DH					700	450	450				
UNIK-200SH	1500	1700	1900	800	-	660	-	1 Phase / AC 220V S: 6.8A / D: 10.9A	6	5 Kgf	100~250
UNIK-200DH					850	500	500				
UNIK-300SH	1500	1700	1900	950	-	835	-	1 Phase / AC 220V S: 6.8A / D: 10.9A	7	5 Kgf	180~300
UNIK-300DH					950	675	675				
UNIK-400SH	1700	2000	-	1100	-	835	-	1 Phase / AC 220V S: 6.8A / D: 10.9A	7	5 Kgf	280~450
UNIK-400DH					1100	675	675				

All information subject to change without notice for quality improvements.

# UNIK-II-H Series

100~1800 Ton (high-cycle type, telescopic arm (2 step) / speed 30% improved)

Power : 1Phase AC220V[50/60Hz]  
 Driving Method : Digital Servo Motor  
 Control Method : Micro Computer  
 Air Pressure : 6 kgf/cm<sup>2</sup>  
 Max. Air Pressure : 8 kgf/cm<sup>2</sup>  
 Chuck Rotation : 90°



## Dimension

Unit : mm / ( ) mark signify L Type, [ ] mark signify LL type.

Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X
UNIK-II-200SH	2470 (2670)	762	1500 (1700)	188	20	400	95	1288	552	165	-	-	-	640	-	-	286	514	530	1027	46	686	244	1579
UNIK-II-200DH	[2870]		[1900]								62	124	500	500	353	498					186			
UNIK-II-300SH	2470 (2670)	762	1500 (1700)	188	20	400	95	1388	552	165	-	-	-	820	-	-	286	664	530	1027	46	686	244	1759
UNIK-II-300DH	[2870]		[1900]								62	124	680	680	353	598					186			
UNIK-II-400SH	2714 (3014)	762	1700 (2000)	188	65	400	95	1438	552	165	-	-	-	940	-	-	138	962	530	1327	46	986	392	1879
UNIK-II-400DH											62	124	800	800	209	891					186			
UNIK-II-600SH	3025 (3225)	782	2000 (2200)	138	105	400	197	1747	552	165	-	-	-	1110	-	-	178	1322	632	1487	46	1151	454	2039
UNIK-II-600DH											62	129	960	960	228	1272					191			
UNIK-II-800SH	3710	855	2500	335	21	400	229	1986	581	235	-	-	-	1150	-	-	84	1516	620	1686	99	1249	536	2267
UNIK-II-800DH											102	187	960	960	130	1470					289			
UNIK-II-1300SH	4201	780	3000	320	102	400	476	2125	605	265	-	-	-	1585	-	-	140	1661	755	2155	124	1709	616	2761

## Technical Specification

( ) is optional.

Model	Traverse (mm)			Vertical (mm)		Crosswise (mm)		Max. Electric Consumption	Air Consumption [ℓ(normal)/Cycle]	Max. Payload (Chuck Included)	I.M.M (Ton)
	Standard	L-Type	LL-Type	Main Arm	Sub Arm	Main Arm	Sub Arm				
UNIK-II-200SH	1500	1700	1900	800	-	640	-	1 Phase / AC 220V S: 9.2A D: 13.3A	6	8 Kgf	100~250
UNIK-II-200DH					850	500	500				
UNIK-II-300SH	1500	1700	1900	950	-	820	-	1 Phase / AC 220V S: 9.2A D: 13.3A	7	8 Kgf	180~300
UNIK-II-300DH					950	680	680				
UNIK-II-400SH	1700	2000	-	1100 (1300)	-	940	-	1 Phase / AC 220V S: 9.2A D: 13.3A	7	8 Kgf	280~450
UNIK-II-400DH					1100	800	800				
UNIK-II-600SH	2000	2200	-	1500	-	1110	-	1 Phase / AC 220V S: 9.2A D: 13.3A	8	10 Kgf	400~650
UNIK-II-600DH					1500	960	960				
UNIK-II-800SH	2500	-	-	1600	-	1150	-	1 Phase / AC 220V S: 13.0A D: 17.1A	22	15 Kgf	550~900
UNIK-II-800DH					1600	960	960				
UNIK-II-1300SH	3000	-	-	1800	-	1585	-	1 Phase / AC 220V 13.0A	25	20 Kgf	1000~1800

All information subject to change without notice for quality improvements.

# NEXIA HYNC-700 CONTROLLER

User friendly controller with smart technology.



## Convenience

### Convenience and durable design

- Easy control with touchscreen.
- Protect the case with rigid plastic cover and corner guards.
- Minimizes the space through body-attached controller.

### User-friendly controller

- Easy to program 4 basic steps.
- Up to 80 steps can be added by putting in positions and motions.
- The speed control and multi-axis control.

## Functionality

### Multi-function

- Easily linked to other facilities.
- Stacking, palletizing, and insert are easily done by simple inputs.
- Possible to program sprue picking position while driving.
- Programmable along with mold sides.
- Cycle time reduction with J motion.
- Separate defected products from the good ones.

## Control Manual

**Origin position** Setting the origin position by handling with jog buttons to avoid obstacles.

No need to worry about batter runout and robot can be moved in manual mode.

**Take-out** Suction, chucking and gripper can be chosen on the screen and either user or spare output can be chosen in the next step.

**Main screen** There are manual, auto, mold management program, error record, alarm and system time.

**Position input** Compare initial and newly entered positioning values after manually controlling the robot. Delay time and robot speed can also be inputted.

**Mold management** Maximum 99 molds storage. when opening the new mold, max. 80 steps can be set.

**Stacking automation** Robot automatically stacks the products in order. Also programmable for multi-cavity

**Insert automation** Picking up the insert part and insert the part to the mold.

**Manual mode** Manually controlling suction, chucking, gripping and nipper. User input/output and interlock with IMM can be checked.

**Step** Max. 80 steps can be added when opening new mold file.

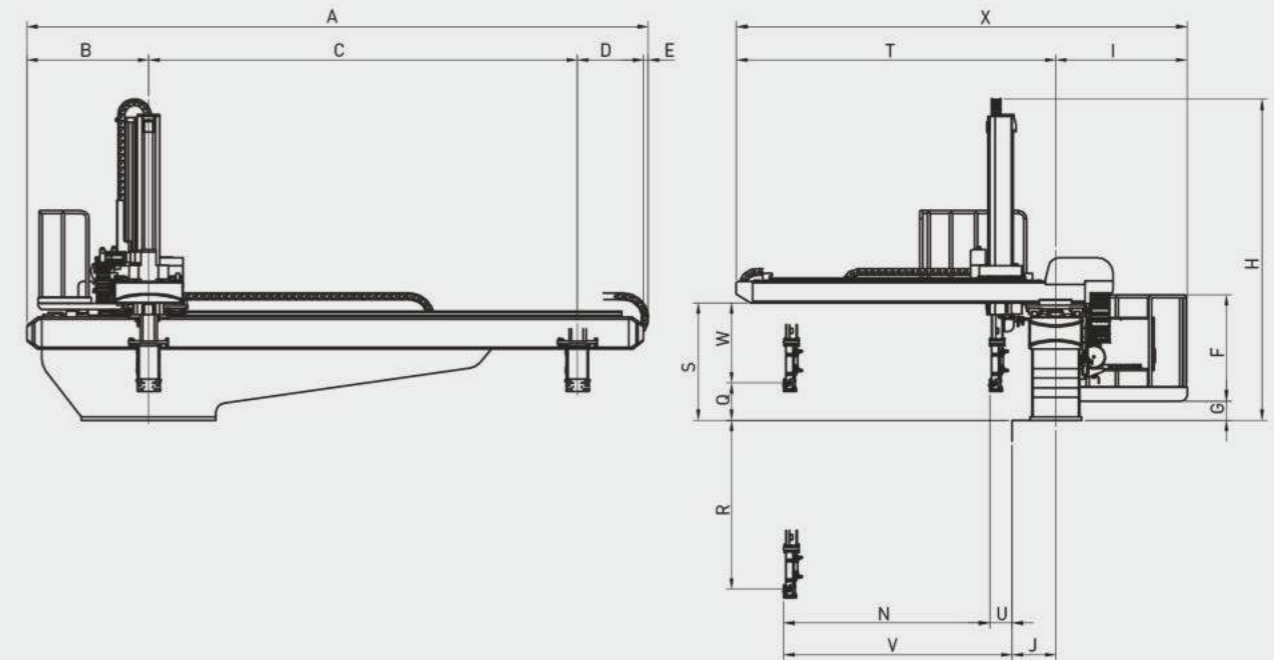
**Delay time** Delay time can be entered for optimized take-out cycle time.

# NEXIA Series

1500~4000 Ton (large tonnage)

- Feature**
- Injection Molding Machine : 1500~4000Ton
  - Servo Motor Axis : Max. 7 axis
  - Motion Guide : High Strength and Low noise LM
  - Crosswise Frame : Double Support Type
  - Vertical Arm Structure : Telescopic Arm(2 step)
  - Controller : Body Attached Controller
  - All Axis : Digital Servo Motor

Power : 1Phase/3Phase AC220V(50/60Hz)  
 Driving Method : Servo Motor  
 Control Method : Micro Computer  
 Air Pressure : 6 kgf/cm<sup>2</sup>  
 Max. Air Pressure : 8 kgf/cm<sup>2</sup>  
 Chuck Rotation : 90°



## Technical Specification

Model	Traverse (mm)		Vertical (mm)	Crosswise (mm)	Max. Electric Consumption	Air Consumption [ℓ(normal)/Cycle]	Max. Payload (Chuck Included)	I.M.M (Ton)
	Standard	L-Type						
NEXIA-2000S	3500	4000	2100	1680	3Phase / AC 220V S : 11.4A	54	40kgf	1500~2000
NEXIA-2500S	4000	4500	2500	1900	3Phase / AC 220V S : 16.7A	92	50kgf	2000~2500
NEXIA-3000S	4000	4500	3000	2240	3Phase / AC 220V S : 20.6A	100	80kgf	2000~4000
NEXIA-4000S	4500	5000	3500	2240	3Phase / AC 220V S : 20.6A	100	100kgf	2000~4000

All information subject to change without notice for quality improvements.

## Dimension

Unit : mm / ( ) mark signify L Type.

Model	A	B	C	D	E	F	G	H	I	J	N	T	Q	R	S	U	V	W	X
NEXIA-2000S	5015 (5515)	963	3500 (4000)	553	-	1194	160	2781	1175	290	1680	2676	300	1800	1092	286	1966	792	3851
NEXIA-2500S	5821 (6321)	1135	4000 (4500)	615	72	1194	180	3009	1225	340	1900	2977	325	2175	1101	289	2189	776	4202
NEXIA-3000S	5899 (6399)	1068	4000 (4500)	628	203	1194	230	3549	1275	385	2240	3605	417	2583	1257	377	2617	840	4880

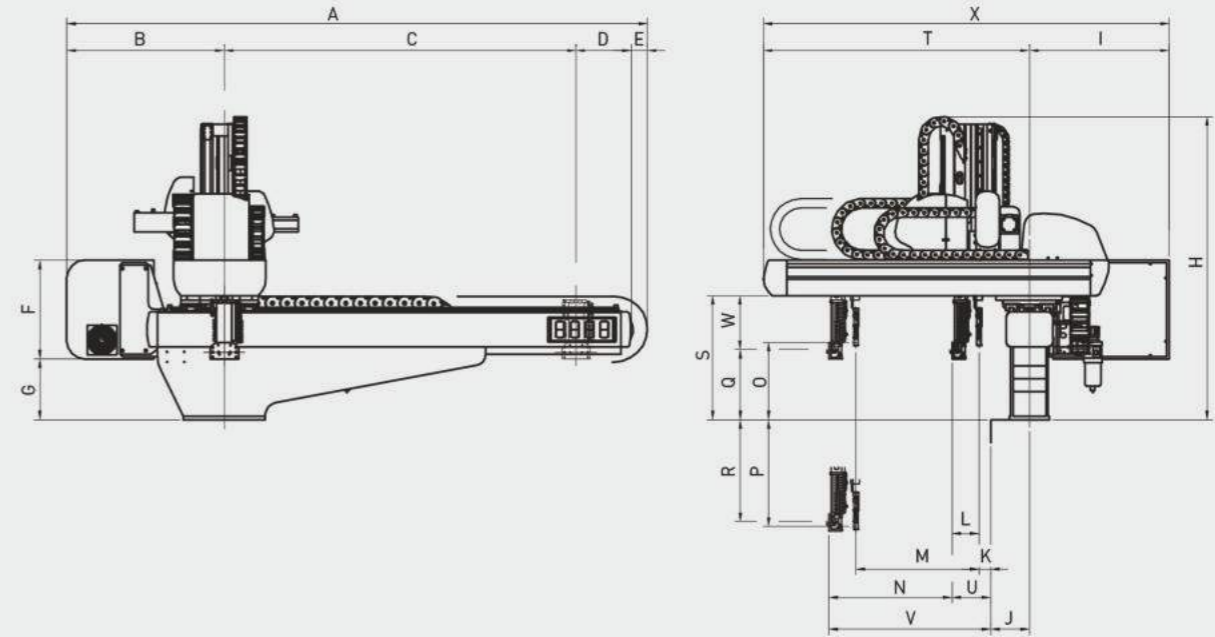
All information subject to change without notice for quality improvements.

# NEXIA Series

280~1300 Ton (small, medium tonnage)

- Feature**
- Injection Molding Machine : 280~1300Ton
  - Servo Motor Axis : Max. 7 axis
  - Motion Guide : High Strength and Low noise LM
  - Crosswise Frame : Double Support Type
  - Vertical Arm Structure : Telescopic Arm(2 step)
  - Controller : Body Attached Controller
  - All Axis : Digital Servo Motor

Power : 1Phase/3Phase AC220V(50/60Hz)  
 Driving Method : Digital Servo Motor  
 Control Method : Micro Computer  
 Air Pressure : 6 kgf/cm<sup>2</sup>  
 Max. Air Pressure : 8 kgf/cm<sup>2</sup>  
 Chuck Rotation : 90°



## Technical Specification

Model	Traverse (mm)			Vertical (mm)		Crosswise (mm)		Max. Electric Consumption	Air Consumption [ℓ(normal)/Cycle]	Max. Payload (Chuck Included)	I.M.M (Ton)
	Standard	L-Type	LL-Type	Main Arm	Sub Arm	Main Arm	Sub Arm				
NEXIA-400S	1700	2000	-	1100 (1300)	-	935	-	1Phase / AC 220V S: 11.6A	7	8 Kgf	280~450
NEXIA-600S	2000	2500	-	1300 (1600)	-	1110	-	1Phase / AC 220V S: 11.6A	16	12 Kgf	400~650
NEXIA-800S	2500	3000	-	1600	-	1150	-	1Phase / AC 220V S: 11.6A	22	18 Kgf	550~900
NEXIA-1300S	3000	3500	-	1800	-	1585	-	3Phase / AC 220V S: 8.5A	35	25 Kgf	1000~1300

All information subject to change without notice for quality improvements.

## Dimension

Unit : mm / ( ) mark signify L Type.

Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X
NEXIA-400S	2759 (3059)	760	1700 (2000)	285	14	400	280	1480	556	185	-	-	-	935	-	-	138	962	530	1435	32	967	392	1991
NEXIA-600S	3100 (3600)	785	2000 (2500)	315	-	400	314	1798	580	205	-	-	-	1110	-	-	178	1122	632	1686	51	1161	454	2266
NEXIA-800S	3585 (4085)	770	2500 (3000)	315	-	400	444	2071	606	235	-	-	-	1150	-	-	199	1401	753	1779	98	1248	554	2385
NEXIA-1300S	4295 (4795)	915	3000 (3500)	380	-	400	565	2466	631	255	-	-	-	1585	-	-	179	1621	927	2293	122	1707	748	2924

All information subject to change without notice for quality improvements.

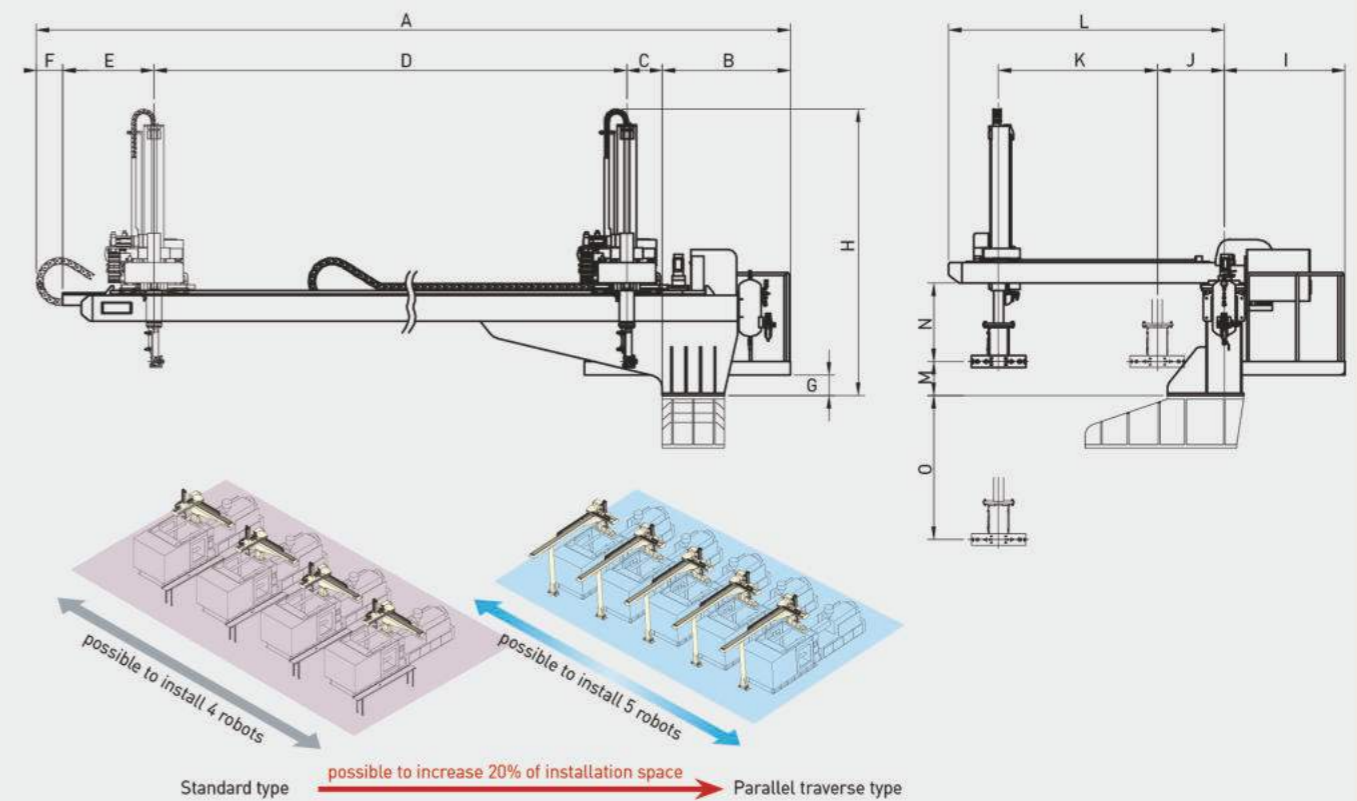
# NEXIA-SYCT Series

100~4000 Ton (parallel traverse type)



- Feature**
- Injection Molding Machine : 100~4000Ton
  - Servo Motor Axis : Max. 7 axis
  - Motion Guide : High Strength and Low noise LM
  - Crosswise Frame : Double Support Type
  - Vertical Arm Structure : Telescopic Arm(2 step)
  - Controller : Body Attached Controller
  - All Axis : Digital Servo Motor

Power : 1Phase/3Phase AC220V(50/60Hz)  
 Driving Method : Digital Servo Motor  
 Control Method : Micro Computer  
 Air Pressure : 6 kgf/cm<sup>2</sup>  
 Max. Air Pressure : 8 kgf/cm<sup>2</sup>  
 Chuck Rotation : 90°



## Technical Specification

( ) is optional.

Model	Traverse (mm)	Vertical (mm)	Crosswise (mm)	Max. Electric Consumption	Air Consumption [ℓ(normal)/Cycle]	Max. Payload (Chuck Included)	I.M.M (Ton)
NEXIA-200SYCT	3300	800 (950)	650	1Phase AC220V 11.6A	7	8 Kgf	100~250
NEXIA-400SYCT	3600	1100 (1300)	950	1Phase AC220V 11.6A	7	8 Kgf	280~450
NEXIA-600SYCT	4000	1300 (1600)	1085	1Phase AC220V 11.6A	16	10 Kgf	400~650
NEXIA-800SYCT	5000	1600 (1800)	1140	1Phase AC220V 11.6A	22	15 Kgf	550~900
NEXIA-1300SYCT	6000	1800 (2100)	1572	3Phase AC220V 8.4A	35	25 Kgf	1000~1300
NEXIA-2000SYCT	7000	2100 (2500)	1710	3Phase AC220V 11.4A	54	40 Kgf	1500~2000
NEXIA-2500SYCT	8000	2500 (3000)	1920	3Phase AC220V 16.7A	92	50 Kgf	2000~2500
NEXIA-3000SYCT	8000	3000 (3500)	2250	3Phase AC220V 20.6A	100	80 Kgf	2000~4000
NEXIA-4000SYCT	10000	3500	2250	3Phase AC220V 20.6A	100	100 Kgf	2000~4000

All information subject to change without notice for quality improvements.

## Dimension

Unit : mm / ( )mark can be changed by Injection Molding Machine full length.

Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
NEXIA-200SYCT	(4412)	645	100	(3300)	367	-	250	1318	656	205	650	1135	300	230	500
NEXIA-400SYCT	(4812)	695	150	(3600)	367	-	250	1477	656	205	950	1435	138	392	962
NEXIA-600SYCT	(5455)	935	200	(4000)	320	-	284	1798	681	275	1085	1627	178	454	1122
NEXIA-800SYCT	(6860)	1140	220	(5000)	400	100	414	2078	706	348	1140	1780	200	550	1400
NEXIA-1300SYCT	(7973)	1153	250	(6000)	420	150	135	2466	949	405	1572	2293	179	748	1621
NEXIA-2000SYCT	(9495)	1245	350	(7000)	700	200	160	2781	1175	556	1710	2676	300	792	1800
NEXIA-2500SYCT	(10695)	1245	400	(8000)	800	250	180	3009	1225	616	1920	2977	325	775	2175
NEXIA-3000SYCT	(10728)	1250	400	(8000)	828	250	230	3549	1275	747	2250	3605	417	843	2583

All information subject to change without notice for quality improvements.

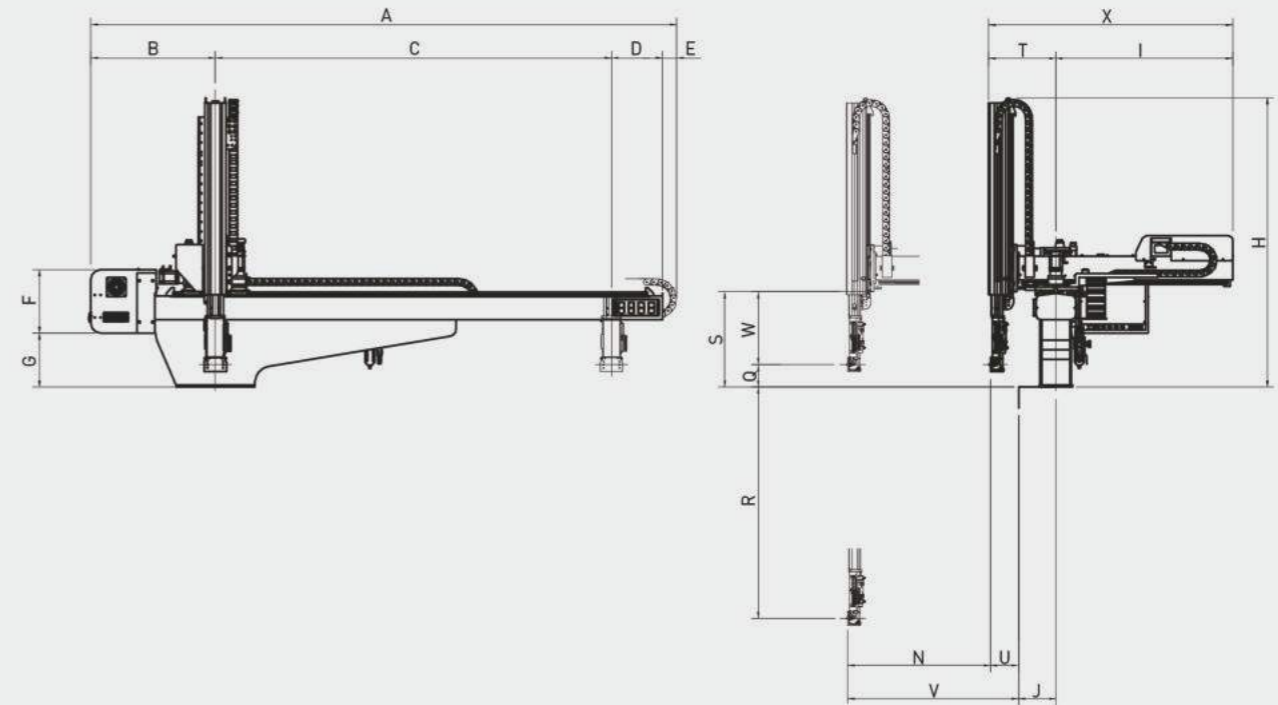
# NEXIA-SW Series

400~4000 Ton (integrated crosswise and vertical axis)



- Feature**
- Injection Molding Machine : 400~4000Ton
  - Servo Motor Axis : Max. 5 axis
  - Motion Guide : High Strength and Low noise LM
  - Crosswise Frame : integrated crosswise and vertical axis
  - Vertical Arm Structure : Telescopic Arm(2 step)
  - Controller : Body Attached Controller
  - All Axis : Digital Servo Motor

Power : 1Phase AC220V(50/60Hz)  
 Driving Method : Digital Servo Motor  
 Control Method : Micro Computer  
 Air Pressure : 6 kgf/cm<sup>2</sup>  
 Max. Air Pressure : 8 kgf/cm<sup>2</sup>  
 Chuck Rotation : 90°



## Technical Specification

Model	Traverse (mm)	Vertical (mm)	Crosswise (mm)	Max. Electric Consumption	Air Consumption [ℓ(normal)/Cycle]	Max. Payload (Chuck Included)	I.M.M (Ton)
NEXIA-600SW	2000	1300	900	3 Phase / AC 220V 10.4A	10	10 Kgf	400~650
NEXIA-800SW	2500	1600	900 (1200)	3 Phase / AC 220V 13.7A	10	20 Kgf	550~900
NEXIA-1000SW	3000	1800	900 (1200)	3 Phase / AC 220V 13.7A	10	20 Kgf	850~1000
NEXIA-1300SW	3000	1800	1200 (1500)	3 Phase / AC 220V 17.7A	19	20 Kgf	1000~1300
NEXIA-1800SW	3500	2100	1200 (1500)	3 Phase / AC 220V 17.7A	19	20 Kgf	1150~1800
NEXIA-2000SW	3500	2100	1500 (1800)	3 Phase / AC 220V 23.5A	27	40 Kgf	1500~2000
NEXIA-2500SW	4000	2500	1500 (1900)	3 Phase / AC 220V 31.4A	30	50 Kgf	2000~2500
NEXIA-3000SW	4000	3000	2000	3 Phase / AC 220V 33.3A	100	80 Kgf	2000~4000
NEXIA-4000SW	4500	3500	2240	3 Phase / AC 220V 33.3A	100	100 Kgf	2000~4000

( ) is optional.

All information subject to change without notice for quality improvements.

## Dimension

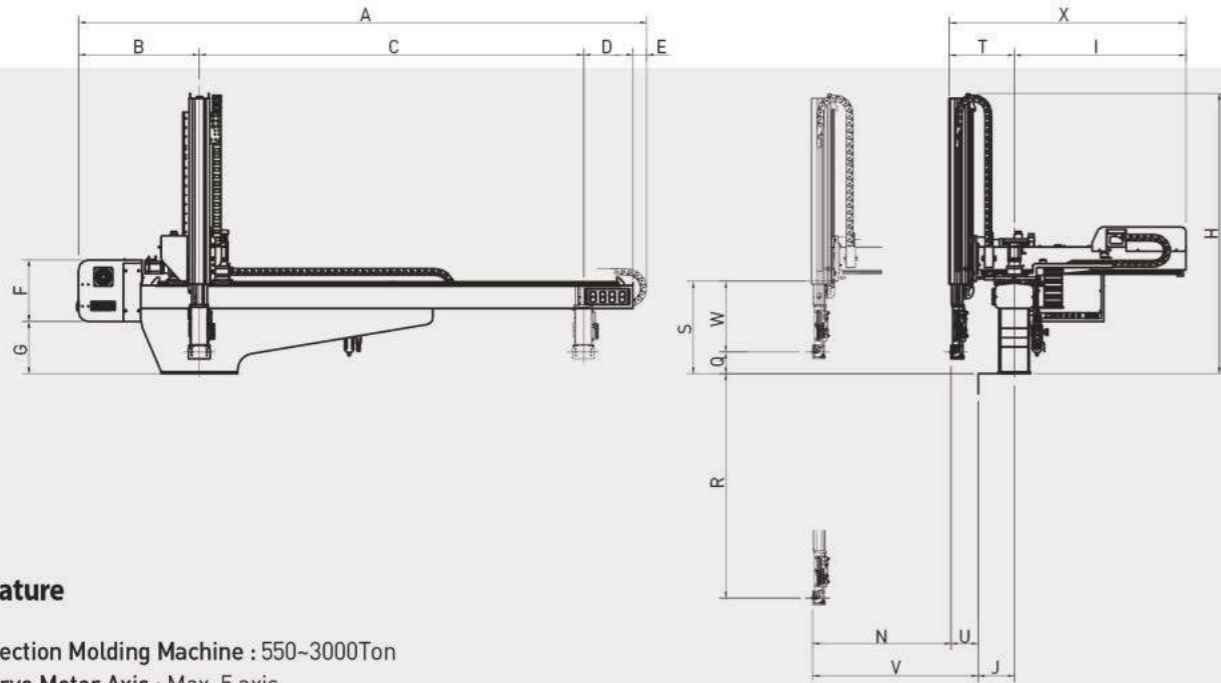
Model	A	B	C	D	E	F	G	H	I	J	N	Q	R	S	T	U	V	W	X
NEXIA-600SW	3390	840	2000	405	145	400	391	1608	1124	205	900	178	1122	578	425	221	1121	400	1549
NEXIA-800SW	3697	785	2500	322	90	400	340	1812	1115	235	900	140	1460	602	423	177	1077	462	1538
NEXIA-1000SW	4219	797	3000	422	-	400	340	1912	1115	235	900	140	1660	602	422	177	1077	462	1537
NEXIA-1300SW	4510	1015	3000	495	-	400	241	2269	1551	255	1200	180	1620	597	511	252	1452	417	2062
NEXIA-1800SW	4990	1015	3500	475	-	400	241	2393	1553	290	1200	180	1920	597	511	217	1417	417	2064
NEXIA-2000SW	5015	963	3500	553	-	400	526	3071	1975	290	1500	400	1700	932	677	374	1874	532	2652
NEXIA-2500SW	5882	1026	4000	813	44	400	625	3163	1988	340	1500	446	2054	1141	705	363	1863	695	2693
NEXIA-3000SW	6550	1665	4000	885	-	540	957	4076	2558	385	2000	844	2157	1503	855	449	2449	660	3413

Unit : mm

All information subject to change without notice for quality improvements.

# NEXIA-E-SW Series

550~3000 Ton (integrated crosswise and vertical axis / Slim type)



Power : 1Phase AC220V[50/60Hz]  
 Driving Method : Digital Servo Motor  
 Control Method : Micro Computer  
 Air Pressure : 6 kgf/cm<sup>2</sup>  
 Max. Air Pressure : 8 kgf/cm<sup>2</sup>  
 Chuck Rotation : 90°

### Feature

- Injection Molding Machine : 550~3000Ton
- Servo Motor Axis : Max. 5 axis
- Motion Guide : High Strength and Low noise LM
- Crosswise Frame : integrated crosswise and vertical axis
- Vertical Arm Structure : Telescopic Arm(2 step)
- Controller : Body Attached Controller
- All Axis : Digital Servo Motor

### Dimension

Unit : mm

Model	A	B	C	D	E	F	G	H	I	J	N	Q	R	S	T	U	V	W	X
NEXIA-E-800SW	3890	840	2500	405	145	400	391	1953	1124	205	900	178	1422	578	425	221	1121	400	1549
NEXIA-E-1300SW	4219	797	3000	422	-	400	340	1912	1315	235	1200	140	1660	602	422	177	1077	462	1537
NEXIA-E-2000SW	4990	1015	3500	475	-	400	241	2415	1853	290	1200	180	1920	597	511	217	1417	417	2064
NEXIA-E-2500SW	5515	963	4000	553	-	400	526	3271	1975	290	1500	400	1700	932	677	374	1874	532	2652
NEXIA-E-3000SW	5751	1034	4000	578	139	400	744	3557	2538	390	2000	417	2583	1260	768	388	2388	843	3306

### Technical Specification

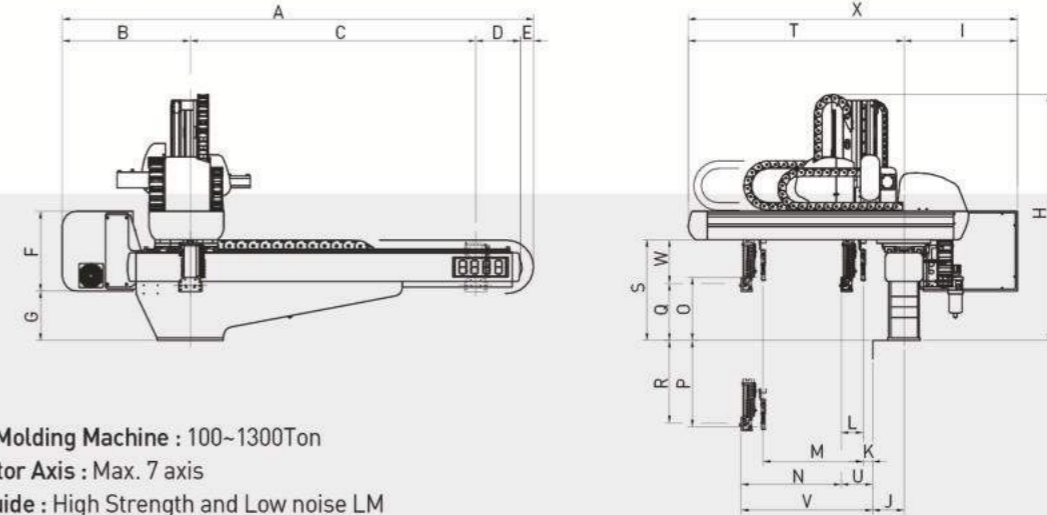
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Model	Traverse (mm)	Vertical (mm)	Crosswise (mm)	Max. Electric Consumption	Air Consumption [l(normal)/Cycle]	Max. Payload (Chuck Included)	I.M.M (Ton)
NEXIA-E-800SW	2500	1600(1800)	900	3 Phase / AC 220V 10.4A	10	10 Kgf	550~1300
NEXIA-E-1300SW	3000	1800(2100)	1200	3 Phase / AC 220V 13.7A	10	20 Kgf	850~1800
NEXIA-E-2000SW	3500	2100(2500,2700)	1500	3 Phase / AC 220V 17.7A	19	35 Kgf	1000~2500
NEXIA-E-2500SW	4000	2500(2700,3000)	1800	3 Phase / AC 220V 23.5A	27	50 Kgf	1500~3000
NEXIA-E-3000SW	4000	3000	2000	3 Phase / AC 220V 33.3A	90	65 Kgf	2000~4000

All information subject to change without notice for quality improvements.

# NEXIA-V Series

100~1300 Ton (for automation / high-precision type)



### Feature

- Injection Molding Machine : 100~1300Ton
- Servo Motor Axis : Max. 7 axis
- Motion Guide : High Strength and Low noise LM
- Crosswise Frame : Double Support Type
- Vertical Arm Structure : Telescopic Arm(2 step)
- Controller : Body Attached Controller
- All Axis : Digital Servo Motor

Power : 1Phase/3Phase AC220V[50/60Hz]  
 Driving Method : Digital Servo Motor  
 Control Method : Micro Computer  
 Air Pressure : 6 kgf/cm<sup>2</sup>  
 Max. Air Pressure : 8 kgf/cm<sup>2</sup>  
 Chuck Rotation : 90°

### Dimension

Unit : mm / ( ) mark signify L Type. [ ] mark signify LL type.

Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X
NEXIA-V-200S	2557 (2757) [2957]	745	1500 (1700) [1900]	275	37	400	280	1318	556	165	-	-	-	634	-	-	286	514	530	1135	52	686	244	1691
NEXIA-V-300S	2557 (2757) [2957]	745	1500 (1700) [1900]	275	37	400	280	1397	556	165	-	-	-	814	-	-	286	664	530	1315	52	866	244	1871
NEXIA-V-400S	2780 (3080)	785	1700 (2000)	295	-	400	314	1668	581	205	-	-	-	1050	-	-	258	842	632	1626	51	1106	374	2207
NEXIA-V-600S	3120 (3620)	785	2000 (2500)	335	-	400	444	1908	606	235	-	-	-	1085	-	-	291	1009	753	1719	98	1183	462	2325
NEXIA-V-800S	3705 (4205)	825	2500 (3000)	380	-	500	485	2331	811	255	-	-	-	1160	-	-	368	1232	927	1873	127	1287	559	2684
NEXIA-V-1300S	4502 (5002)	963	3000 (3500)	523	17	-	-	2657	866	290	-	-	-	1550	-	-	361	1439	1092	2546	286	1836	731	3412

### Technical Specification

( ) is optional.

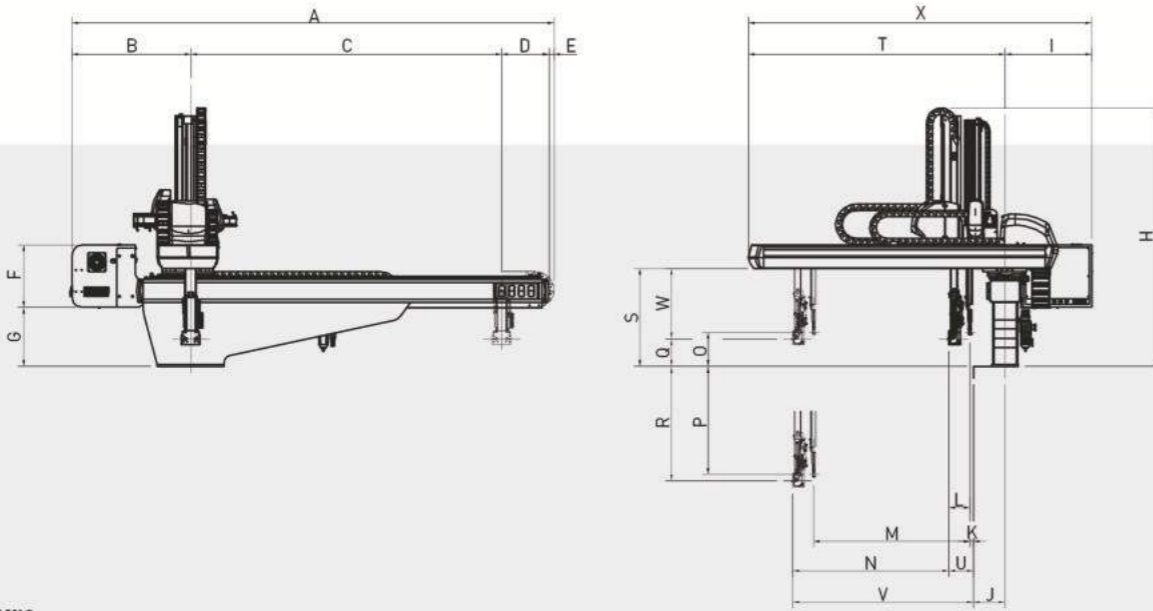
Model	Traverse (mm)			Vertical (mm)		Crosswise (mm)		Max. Electric Consumption	Air Consumption [l(normal)/Cycle]	Max. Payload (Chuck Included)	I.M.M (Ton)
	Standard	L-Type	LL-Type	Main Arm	Sub Arm	Main Arm	Sub Arm				
NEXIA-V-200S	1500	1700	1900	800 (950)	-	634	-	1Phase / AC 220V S: 11.6A	7	8 Kgf	100~250
NEXIA-V-300S	1500	1700	1900	950	-	814	-	1Phase / AC 220V S: 11.6A	7	8 Kgf	180~300
NEXIA-V-400S	1700	2000	-	1100	-	1050	-	1Phase / AC 220V S: 11.6A	16	10 Kgf	280~450
NEXIA-V-600S	2000	2500	-	1300	-	1085	-	1Phase / AC 220V S: 11.6A	22	15 Kgf	400~650
NEXIA-V-800S	2500	3000	-	1600	-	1160	-	3Phase / AC 220V S: 8.5A	35	20 Kgf	550~900
NEXIA-V-1300S	3000	3500	-	1800	-	1550	-	3Phase / AC 220V S: 11.4A	56	30 Kgf	1000~1300

All information subject to change without notice for quality improvements.



# NEXIA-E Series

400S~2000 Ton (slim type)



### Feature

- Injection Molding Machine : 400~2000Ton
- Servo Motor Axis : Max. 7 axis
- Motion Guide : High Strength and Low noise LM
- Crosswise Frame : Double Support Type
- Vertical Arm Structure : Telescopic Arm(2 step)
- Controller : Body Attached Controller
- All Axis : Digital Servo Motor

Power : 1Phase/3Phase AC220V(50/60Hz)  
 Driving Method : Digital Servo Motor  
 Control Method : Micro Computer  
 Air Pressure : 6 kgf/cm<sup>2</sup>  
 Max. Air Pressure : 8 kgf/cm<sup>2</sup>  
 Chuck Rotation : 90°

### Dimension

Unit : mm / ( ) mark signify L Type.

Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X
NEXIA-E-600S	3102	765	2000	305	32	400	382	1662	556	205	-	-	-	1110	-	-	178	1122	632	1653	52	1162	454	2209
NEXIA-E-800S	3580	785	2500	295	-	400	314	1955	581	235	-	-	-	1150	-	-	81	1519	632	1806	98	1248	550	2387
NEXIA-E-1300S	4145	770	3000	375	-	400	444	2199	606	255	-	-	-	1585	-	-	139	1662	753	2259	122	1707	615	2865
NEXIA-E-2000S	4765	825	3500	440	-	400	545	2593	631	290	-	-	-	1640	-	-	179	1921	927	2548	287	1927	748	3179
NEXIA-E-2500S	5505	963	4000	543	31	400	525	3025	786	325	-	-	-	1800	-	-	300	2200	1092	2796	258	2058	792	3582
NEXIA-E-3000S	5749	1135	4000	615	71	400	674	3450	836	375	-	-	-	2000	-	-	418	2583	1238	3087	279	2279	821	3923

### Technical Specification

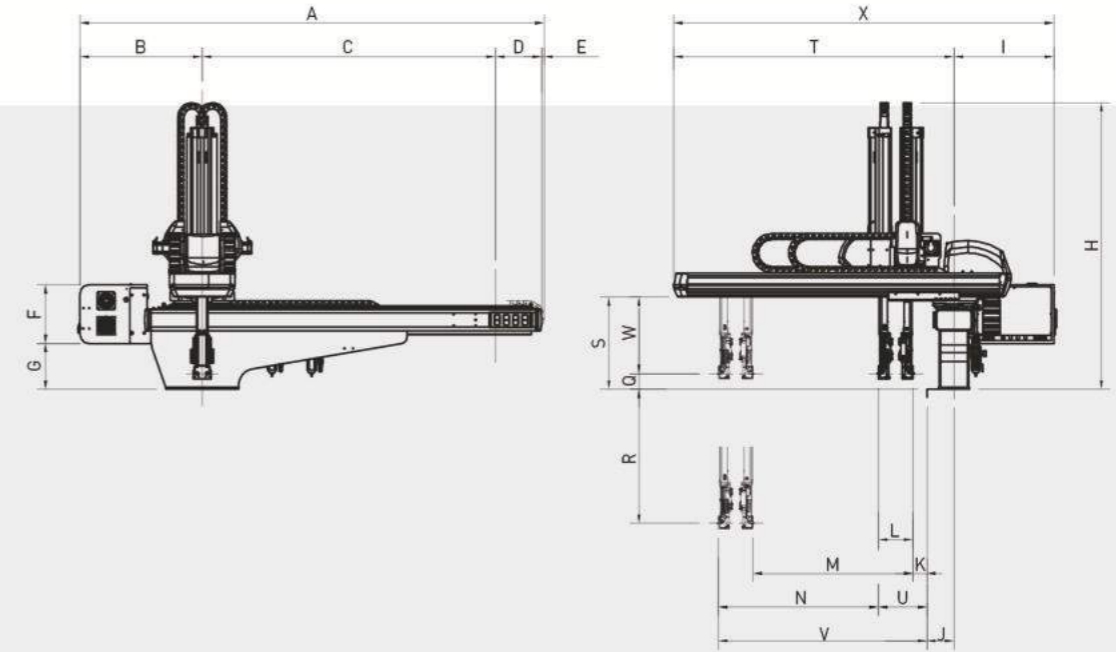
( ) is optional.

Model	Traverse (mm)	Vertical (mm)		Crosswise (mm)		Max. Electric Consumption	Air Consumption [ℓ(normal)/Cycle]	Max. Payload (Chuck Included)	I.M.M (Ton)
		Main Arm	Sub Arm	Main Arm	Sub Arm				
NEXIA-E-600S	2000	1300 (1500)		1110		1Phase / AC 220V S: 11.6A	16	10 Kgf	400~650
NEXIA-E-800S	2500	1600 (1800)		1150		1Phase / AC 220V S: 11.6A	22	15 Kgf	550~900
NEXIA-E-1300S	3000	1800		1585		1Phase / AC 220V 11.6A	25	18 Kgf	1000~1300
NEXIA-E-2000S	3500	2100		1640		3Phase / AC 220V 8.5A	38	30 Kgf	1500~2000
NEXIA-E-2500S	4000	2500		1800		3Phase / AC 220V 16.7A	54	50 Kgf	2000~2500
NEXIA-E-3000S	4000	3000		2000		3Phase / AC 220V 20.6A	140	65 Kgf	2000~4000

All information subject to change without notice for quality improvements.

# NEXIA-E-SM Series

400~2000 Ton (for stack mold / Slim type)



### Feature

- Injection Molding Machine : 400~2000Ton
- Motion Guide : High Strength and Low noise LM
- Crosswise Frame : Double Support Type
- Vertical Arm Structure : Telescopic Arm(2 step)
- Controller : Body Attached Controller
- All Axis : Digital Servo Motor

Power : 1Phase/3Phase AC220V(50/60Hz)  
 Driving Method : Servo Motor  
 Control Method : Micro Computer  
 Air Pressure : 6 kgf/cm<sup>2</sup>  
 Max. Air Pressure : 8 kgf/cm<sup>2</sup>  
 Chuck Rotation : 90°

### Dimension

Unit : mm / ( ) mark signify L Type.

Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N	Q	R	S	T	U	V	W	X
NEXIA-E-600D-SM	3102	765	2000	305	32	400	382	1662	556	205	15	202	945	945	178	1122	632	1653	217	1162	454	2209
NEXIA-E-800D-SM	3580	785	2500	295	-	400	314	1955	581	235	45	236	967	967	81	1519	632	1806	281	1248	550	2387
NEXIA-E-1300D-SM	4145	770	3000	375	-	400	444	2199	606	255	36	342	1329	1329	139	1662	753	2259	378	1707	615	2865
NEXIA-E-2000D-SM	4765	825	3500	440	-	400	545	2593	631	290	40	382	1505	1505	179	1921	927	2548	422	1927	748	3179

### Technical Specification

( ) is optional.

Model	Traverse (mm)	Vertical (mm)		Crosswise (mm)		Max. Electric Consumption	Air Consumption [ℓ(normal)/Cycle]	Max. Payload (Chuck Included)	I.M.M (Ton)
		Main Arm	Sub Arm	Main Arm	Sub Arm				
NEXIA-E-600D-SM	2000	1300 (1500)		945		3 Phase / AC 220V 16.3A	32	10 Kgf	400~650
NEXIA-E-800D-SM	2500	1600 (1800)		967		3 Phase / AC 220V 17.1A	44	15 Kgf	550~900
NEXIA-E-1300D-SM	3000	1800 (2100)		1329		3 Phase / AC 220V 17.1A	50	20 Kgf	1000~1300
NEXIA-E-2000D-SM	3500	2100 (2300)		1505		3 Phase / AC 220V 23.5A	76	30 Kgf	1500~2000

All information subject to change without notice for quality improvements.

# MACH·HIT HYNC-200 CONTROLLER

Handy teaching pendant with easy control.



## Convenience

### User-friendly interface

- Easy control with soft-key and LCD screen
- Easily holdable with the ring on the back panel.

### Smart controller

- Developed and verified by people with expertise in injection molding industry.
- Easy to hang on the hook by using the ring on the back panel.
- Durability improved controller which is made of high strength plastic
- Products with various sizes can be taken out by EOAT rotation(optional).
- Ejector control and alarm setting

## Economic benefit

### Customer can increase productivity with robot.

- User can teach the robot motions through simple mode selection
- Products and sprue are released at separate places so that simple repetitive job can be eliminated
- Programmed to set take-out position and releasing (or stacking) position.

## Functionality

### Various settings for injection molding site

- Time setting for each step → step modification in either Auto or Manual mode
- All-in-one LCD screen Counter, I/O, Interlock, Steps, and Timer]
- Max. 99 mold files

## Control manual

**Origin position** When the power is on, the robot gets the origin position from up/down to traverse stroke.

**Main screen** Manual, auto, mold management program, error record, alarm, and system time

**Mold management** Maximum 99 molds storage when opening the new mold, max. 80 steps can be set.

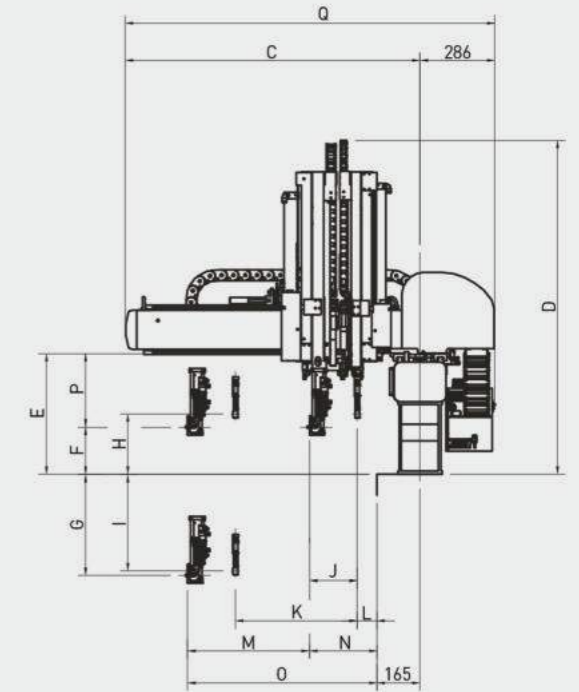
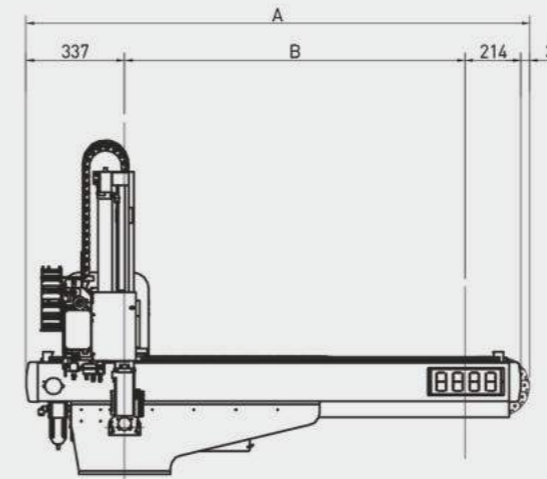
**Manual mode** Manually controlling suction, chucking, gripping and nipper. User input/output and interlock with IMM can be checked.

# MACH-II Series

100~650 Ton

- Feature**
- Injection Molding Machine : 100~650Ton
  - Servo Motor Axis : Max. 5 axis
  - Motion Guide : High Strength and Low noise LM
  - Vertical Arm Structure : Telescopic Arm(2 step)
  - Controller : Body Attached Controller
  - Traverse Structure : Digital Servo Motor
  - Vertical Structure : Pneumatic Actuator
  - Crosswise Structure : Pneumatic Actuator

Power : 1Phase AC220V(50/60Hz)  
 Driving Method : Digital Servo Motor  
 Control Method : Micro Computer  
 Air Pressure : 6 kgf/cm<sup>2</sup>  
 Max. Air Pressure : 8 kgf/cm<sup>2</sup>  
 Chuck Rotation : 90°



## Technical Specification

( ) is optional.

Model	Traverse (mm)			Vertical (mm)		Crosswise (mm)		Max. Electric Consumption	Air Consumption [l/(normal)/Cycle]	Max. Payload (Chuck Included)	I.M.M (Ton)	
	Standard	L-Type	LL-Type	Main Arm	Sub Arm	Main Arm	Sub Arm					
MACH-II-200S	1300	1500	1700	800	-	150	-	1Phase / AC 220V 2.7A (Max.)	25	5 Kgf	100~250	
MACH-II-200D				800	850	150	100		35			
MACH-II-300S	1500	1700	-	1100	-	250	-		30		180~300	
MACH-II-300D				1100	1100	250	150		40			
MACH-II-400S	1700	2000	-	1300	-	350	-		32		10 Kgf	280~450
MACH-II-400D				1300	1300	350	150		42			
MACH-II-600S	2000	-	-	1300 (1500)	-	450	-	45	10 Kgf	400~650		

All information subject to change without notice for quality improvements.

## Dimension

Unit : mm / ( ) mark signify L Type, [ ] mark signify LL type.

Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
MACH-II-200S	1923	1300	1126	1262	461	180	620	-	-	-	-	-	665	58	723	281	1412
MACH-II-200D	(2123)	(1500)		[2323]				[1700]	231	619	183	465	75	465			
MACH-II-300S	2123	1500	1426	1402	461	180	921	-	-	-	-	-	965	58	1023	281	1712
MACH-II-300D								(2323)	(1700)	231	869	183	765	75			
MACH-II-400S	2323	1700	1426	1628	558	206	1094	-	-	-	-	-	795	228	1023	352	1712
MACH-II-400D								(2623)	(2000)	277	1025	187	765	71			
MACH-II-600S	2668	2000	1546	1651	558	106	1194	-	-	-	-	-	800	349	1149	452	1852

All information subject to change without notice for quality improvements.

# MACH Series

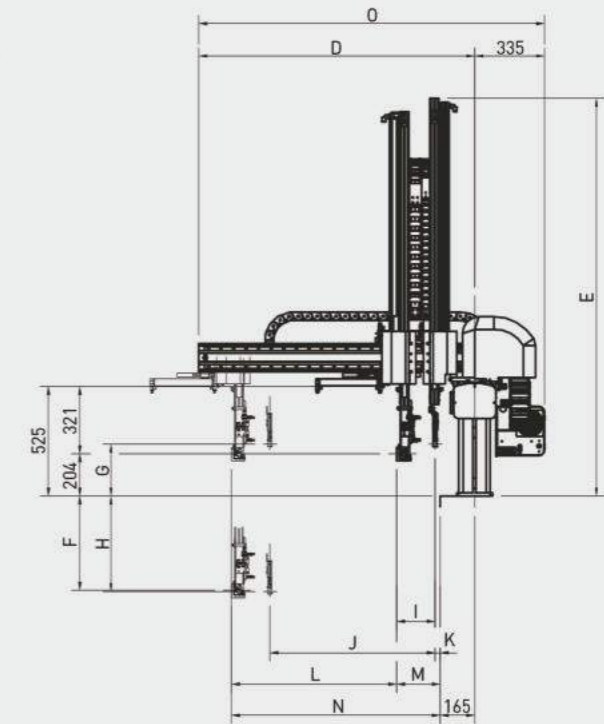
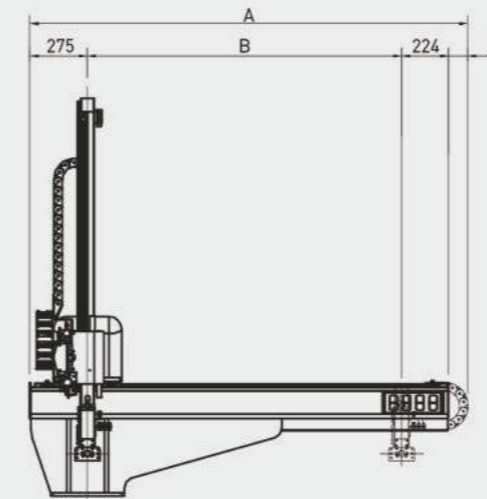
100~380 Ton



### Feature

- Injection Molding Machine : 100~380Ton
- Motion Guide : High Strength and Low noise LM
- Vertical Arm Structure : Non Telescopic Arm
- Traverse Structure : Digital Servo Motor
- Vertical Structure : Pneumatic Actuator
- Crosswise Structure : Pneumatic Actuator

Power : 1Phase AC220V(50/60Hz)  
 Driving Method : Digital Servo Motor  
 Control Method : Micro Computer  
 Air Pressure : 6 kgf/cm<sup>2</sup>  
 Max. Air Pressure : 8 kgf/cm<sup>2</sup>  
 Chuck Rotation : 90°



### Technical Specification

Model	Traverse (mm)			Vertical (mm)		Crosswise (mm)		Max. Electric Consumption	Air Consumption [ℓ(normal)/Cycle]	Max. Payload (Chuck Included)	I.M.M (Ton)	
	Standard	L-Type	LL-Type	Main Arm	Sub Arm	Main Arm	Sub Arm					
MACH-200S	1300	1500	1700	800	-	150	-	1Phase / AC 220V 2.7A (Max.)	25	5 Kgf	100~250	
MACH-200D				800	850	150	100		35			
MACH-300S	1500	1700	-	1050	-	250	-		32			180~380
MACH-300D				1050	1100	250	150		40			

All information subject to change without notice for quality improvements.

### Dimension

Unit : mm / ( ) mark signify L Type, [ ] mark signify LL type.

Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
MACH-200S	1891	1300	92	958	1586	596	-	-	-	-	-	592	45	637	1293
MACH-200D	[2291]	[1700]			1650							249	601		
MACH-300S	2091	1500	92	1318	1836	846	-	-	-	-	-	952	45	997	1653
MACH-300D					[2291]							[1700]	1900		

All information subject to change without notice for quality improvements.

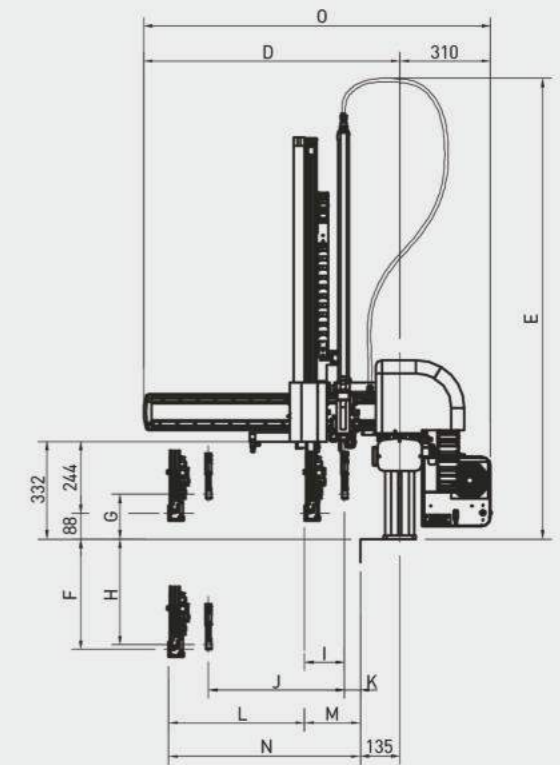
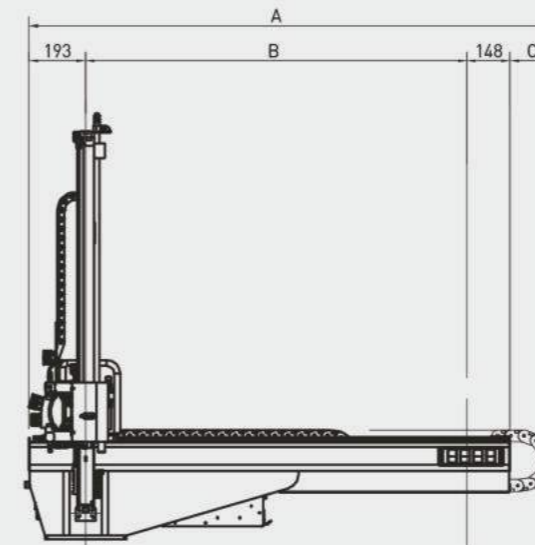
# HIT Series

30~250 Ton



- Feature**
- Injection Molding Machine : 30~250Ton
  - Motion Guide : High Strength and Low noise LM
  - Vertical Arm Structure : Non Telescopic Arm
  - Traverse Structure : Digital Servo Motor
  - Vertical Structure : Pneumatic Actuator
  - Crosswise Structure : Pneumatic Actuator

Power : 1Phase AC220V(50/60Hz)  
 Driving Method : Digital Servo Motor  
 Control Method : Micro Computer  
 Air Pressure : 6 kgf/cm<sup>2</sup>  
 Max. Air Pressure : 8 kgf/cm<sup>2</sup>  
 Chuck Rotation : 90°



## Technical Specification

() is optional.

Model	Traverse (mm)		Vertical (mm)		Crosswise (mm)		Max. Electric Consumption	Air Consumption [l(normal)/Cycle]	Max. Payload (Chuck Included)	I.M.M (Ton)
	Standard		Main Arm	Sub Arm	Main Arm	Sub Arm				
HIT - 100S	1100		700	-	150	-	1Phase / AC 220V 1.4A (Max.)	22	3 Kgf	30~80
HIT - 100D			700	750	150	90		30		
HIT - 200S	1300		800 (900)	-	150	-		25		
HIT - 200D			800 (900)	850 (950)	150	90	35			

All information subject to change without notice for quality improvements.

## Dimension

Unit : mm

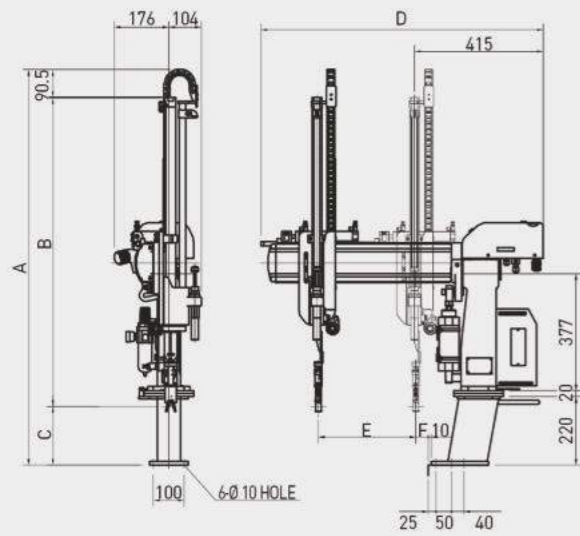
Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
HIT-100S	1583	1100	142	788	1270	612	-	-	-	-	-	380	189	569	1098
HIT-100D					1470		153	597	136	380	53	380	189		
HIT-200S	1783	1300	142	873	1370	712	-	-	-	-	-	465	189	654	1183
HIT-200D					1570		153	697	136	465	53	465	189		

All information subject to change without notice for quality improvements.

# TOPIV Series

80~350 Ton

Power : 100Vac~240Vac, 0.6A, 50/60Hz  
 Take-out Dry Cycle : 0.7sec(TOPIV-A550)  
 Control : Sequence Program  
 Total Dry Cycle : 3.2sec(TOPIV-A550)  
 Air Pressure : 0.4 to 0.5Mpa(70PSI)  
 Noise Level : 66dB / Max. Payload : 2kg



- Feature**
- CE Certified
  - ISO 9001 Quality Certified
  - Designed with a modern for a simple and new injection molding plant.
  - Minimized wire exposure for long time operation Safety and prevention of crane interference when changing molds.
  - Easy to adjust various positions.

## Dimension

Unit : mm

Model	A	B	C	D	E	F
TOP IV-A, X, XC 450	1175	896	188.5	910	320	40
TOP IV-A, X, XC 550	1275	996				
TOP IV-A, X, XC 650	1375	1096				
TOP IV-A, X, XC 750	1475	1196	1110	520		
TOP IV-A, X, XC 950	1675	1340			244.5	

- A-Type** : Sprue taking out only.
- X-Type** : When the product is put on the conveyor chute, the chuck is inverted by 90 degrees to prevent the molded product from being damaged.
- XC-Type** : Take out the non-chuckable product by suction. Chuck and 4 point suction pad standard specification. The robot head rotate 90 degrees.

## Technical Specification

Model	Injection Molding Machine	Descent Stroke (mm)	Crosswise (mm)	Swing Angle (Deg) (°)	Ascent Position (mm)	Air Consumption [ℓ(normal)/Cycle]	Net Weight (kg)
TOP IV-A, X, XC 450	80 Ton	450	90	50~80	100	7	34
TOP IV-A, X, XC 550	120 Ton	550				8	35
TOP IV-A, X, XC 650	180 Ton	650				9	36
TOP IV-A, X, XC 750	220 Ton	750	10			37	
TOP IV-A, X, XC 950	350 Ton	950	150			12	38

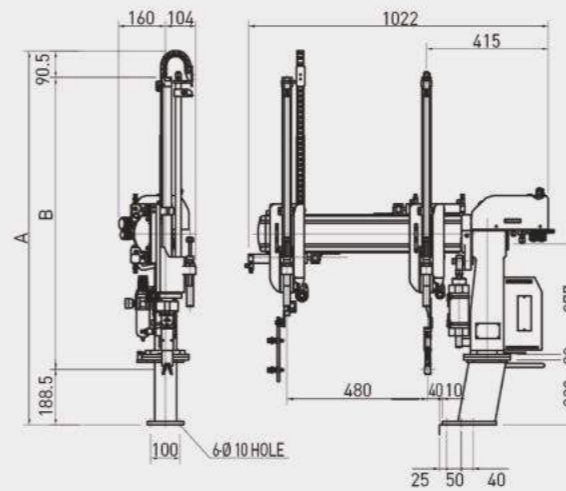
All information subject to change without notice for quality improvements.

# TOPIV TWIN Series

80~350 Ton

Power : 100Vac~240Vac, 0.6A, 50/60Hz  
 Take-out Dry Cycle : 0.7sec(TOPIV-A550)  
 Control : Sequence Program  
 Total Dry Cycle : 3.2sec(TOPIV-A550)  
 Air Pressure : 0.4 to 0.5Mpa(70PSI)  
 Noise Level : 66dB / Max. Payload : 2kg

- Feature**
- Possible to take out the product and runner of compact injection machine (80~350 TON) at the same time
  - Incorporates a 4-points suction head and suction confirmation circuit to safely take out the product



## Dimension

Unit : mm

Model	A	B
TOP IV-TWIN 450	1175	896
TOP IV-TWIN 550	1275	996
TOP IV-TWIN 650	1375	1096
TOP IV-TWIN 750	1475	1196

## Technical Specification

Model	Injection Molding Machine	Descent Stroke (mm)	Crosswise (mm)	Swing Angle (Deg) (°)	Ascent Position (mm)	Air Consumption [ℓ(normal)/Cycle]	Net Weight (kg)
TOP IV-TWIN 450	80 Ton	450	90	50~80	100	11	44
TOP IV-TWIN 550	120 Ton	550				13	46
TOP IV-TWIN 650	180 Ton	650				15	48
TOP IV-TWIN 750	220 Ton	750	17			49	

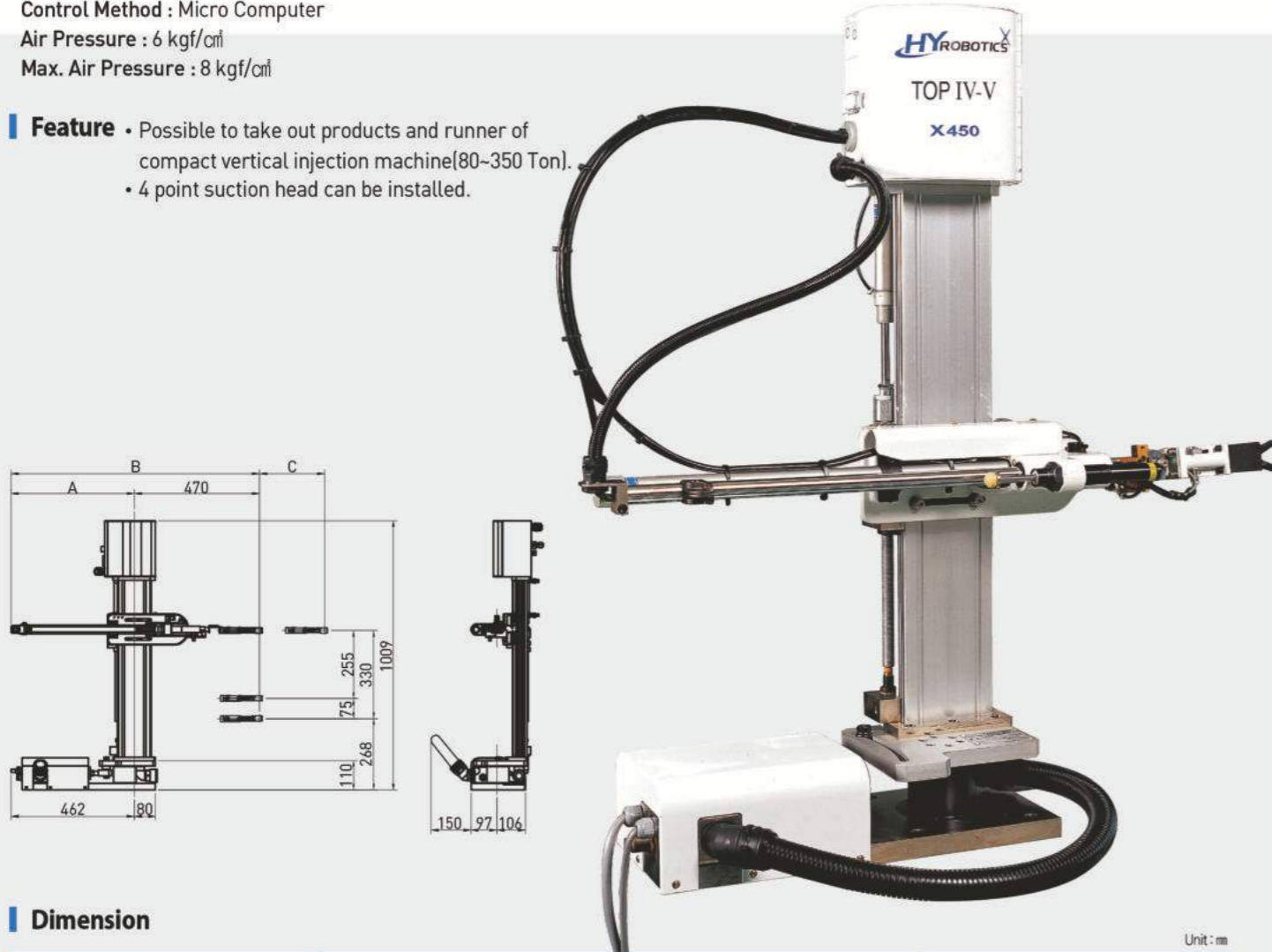
All information subject to change without notice for quality improvements.

# TOPIV-V-X Series

80~350 Ton

Power : 1Phase AC220V(50/60Hz)  
 Driving Method : Pneumatic Actuator  
 Control Method : Micro Computer  
 Air Pressure : 6 kgf/cm<sup>2</sup>  
 Max. Air Pressure : 8 kgf/cm<sup>2</sup>

- Feature**
- Possible to take out products and runner of compact vertical injection machine(80~350 Ton).
  - 4 point suction head can be installed.



**Dimension**

Model	A	B	C
TOP IV-V-X550	562	1032	550
TOP IV-V-X650	662	1132	650
TOP IV-V-X750	762	1232	750

Unit : mm

**Technical Specification**

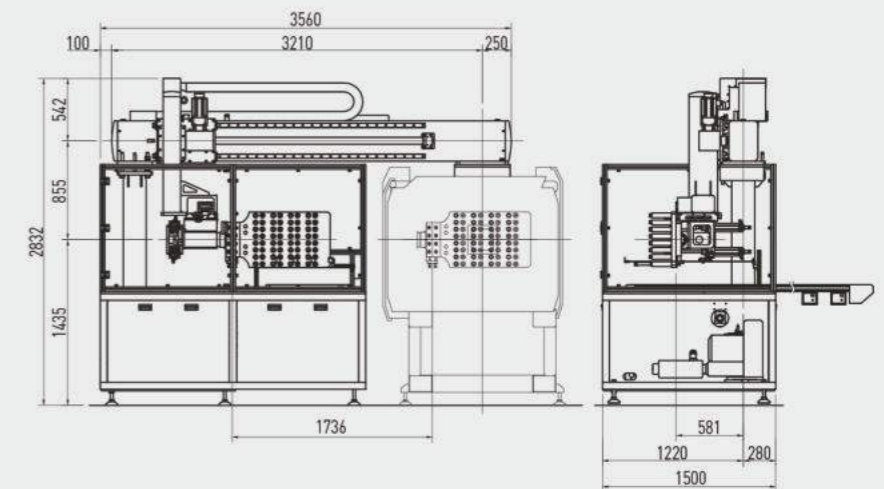
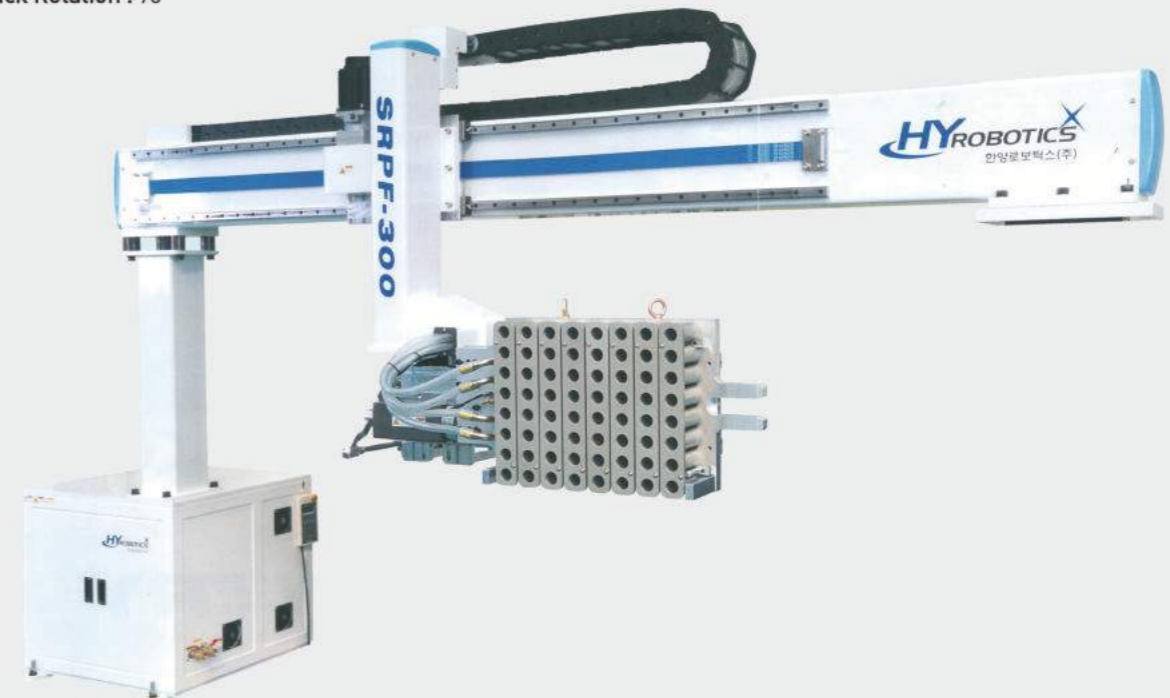
Model	Stroke (mm)			Reach Position	Air Consumption [l(normal)/Cycle]	Max. Payload (Chuck Included)	Net Weight (kg)
	Crosswise (mm)	Vertical (mm)	Swing				
TOP IV-V-X550	550	75	Min 60°	100	14	1.2 kgf	37
TOP IV-V-X650	650		~		16		38
TOP IV-V-X750	750		Min 90°		17		39

All information subject to change without notice for quality improvements.

# Side Entry Robot Preform (SRPF)

100~300 Ton

Power : 3Phase AC220V(50/60Hz)  
 Driving Method : Digital servo motor and pneumatic cylinder  
 Control Method : Micro Computer  
 Air Pressure : 6 kgf/cm<sup>2</sup>  
 Max. Air Pressure : 8 kgf/cm<sup>2</sup>  
 Chuck Rotation : 90°



**Feature**

- Target IMM : 100~300 Ton
- LM guide
- Low ceiling optimization
- Mold side stand-by

**Technical Specification**

Model	Traverse (mm)	Max. Electric Consumption	Air Consumption [l(normal)/Cycle]	Max. Payload (Chuck Included)
SRPF-300	1800	3Phase AC 220V 30A	7	120 Kgf

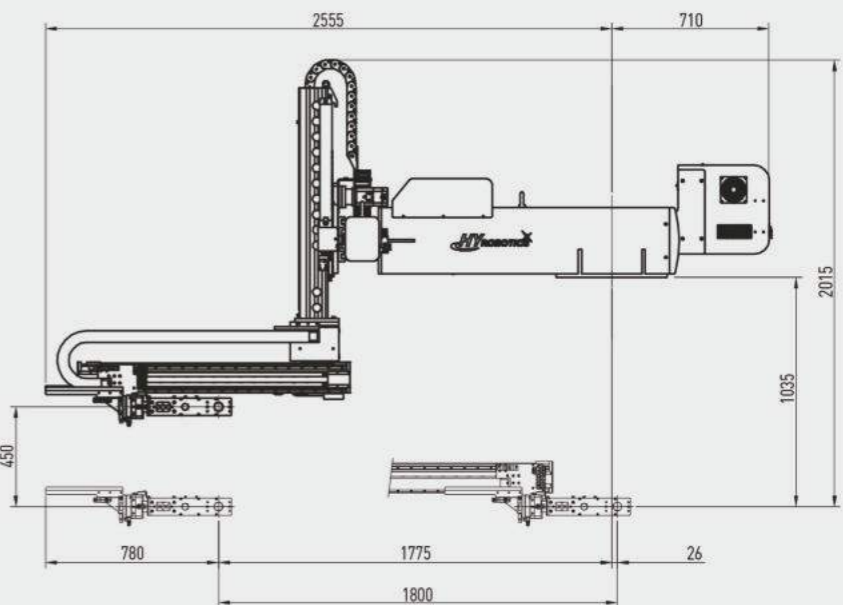
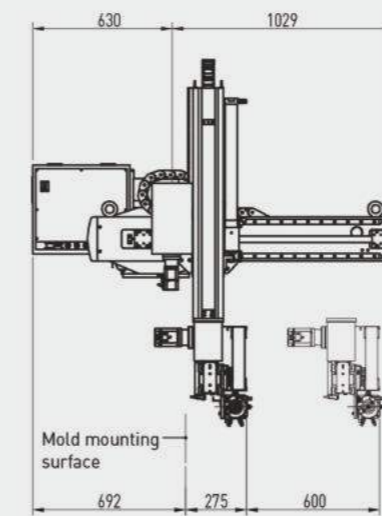
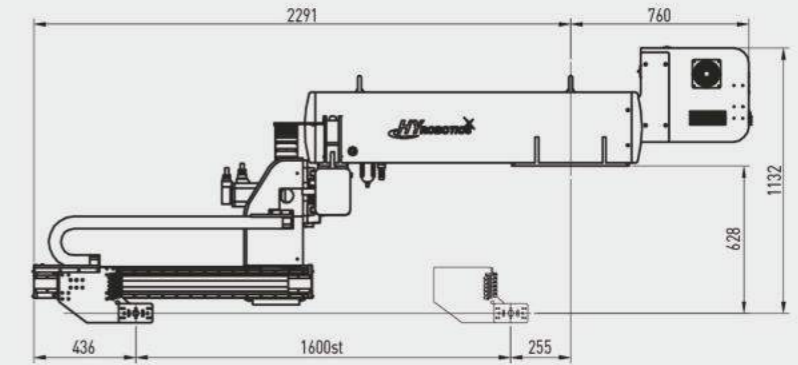
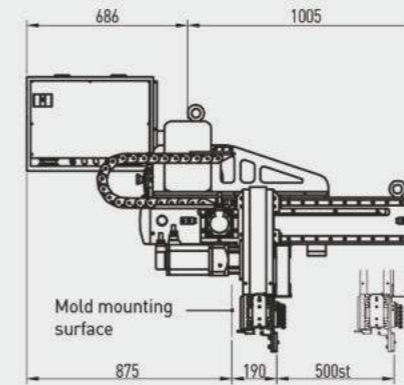
All information subject to change without notice for quality improvements.

# Side Entry SR II / SR III Series

100~350 Ton

- Feature**
- Target IMM : 100~300 Ton
  - Motion Guide : LM guide
  - Traverse Structure : Digital Servo Motor
    - SR II : Traverse / Crosswise parts - Servo motors
    - SR III : Traverse / Crosswise / Vertical parts - Servo motors

Power : 1Phase AC220V(50/60Hz)  
 Driving Method : Digital Servo Motor  
 Control Method : Micro Computer  
 Air Pressure : 6 kgf/cm<sup>2</sup>  
 Max. Air Pressure : 8 kgf/cm<sup>2</sup>  
 Chuck Rotation : 90°



## Technical Specification

( ) is optional.

Model	Traverse (mm)	Crosswise (mm)	Vertical (mm)	Max. Electric Consumption	Air Consumption [ℓ(normal)/Cycle]	Max. Payload (Chuck Included)
SR II-350	1600	500	-	3 Phase / AC 220V 17.6A	7	10 Kgf
SR III-350	(1800)	600	450	1 Phase / AC 220V 11.5A	16	10 Kgf

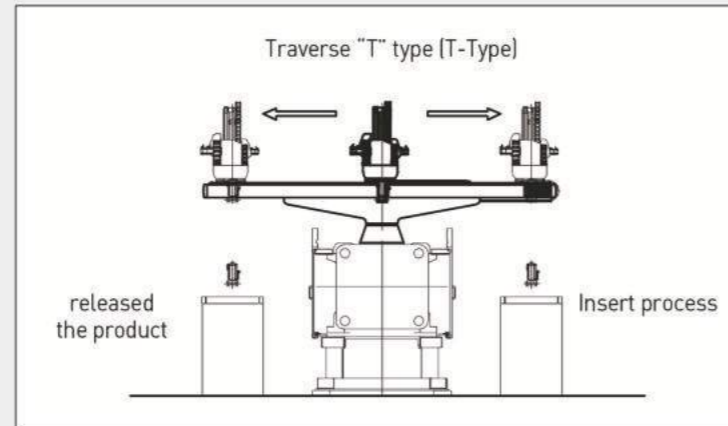
All information subject to change without notice for quality improvements.



# Special Type Robots

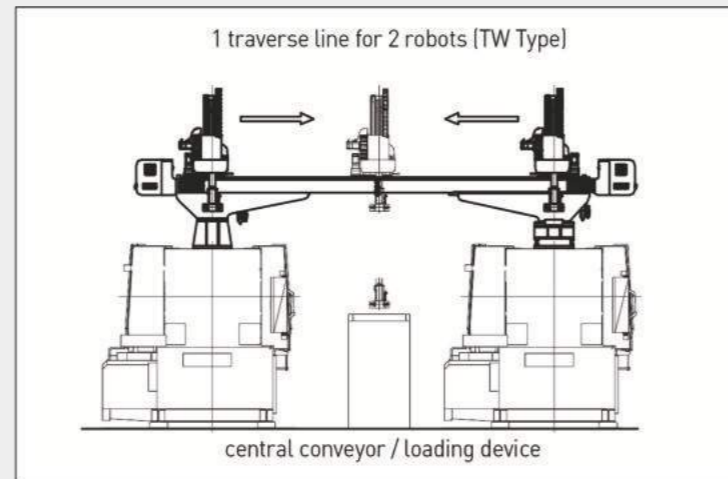
## T-Type

- Separate insert supply and product release position
- Workspace optimal management



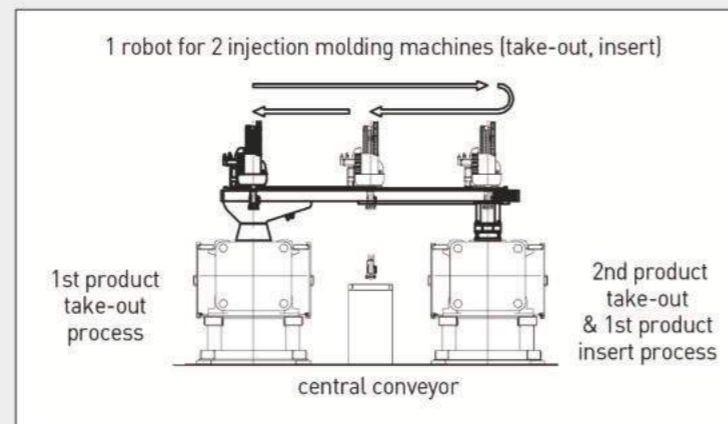
## TW-Type

- The products of two IMM are loaded on the central conveyor.
- Single line management of two different products.
- Two separate connectons can be used separately. [Traverse stroke reduced when disconnected]
- It can respond to the following tasks  
Take-out the product from 1st IMM → products loading → Take-out the other product from 2nd IMM and insert



## MM-Type

- One robot and two IMM interlocked.
- Take-out the product from 1st IMM → Insert the product to 2nd IMM and Take-out.
- High speed, High precision robot



## Application example of articulated robot



## cnc automation gantry type robot



## Take-out robot for Die casting



# Factory Automation

Increase productivity and maximize efficiency through automation system.



▲ Chemical Filling Machine



▲ gate cutting system



▲ Auto loading system



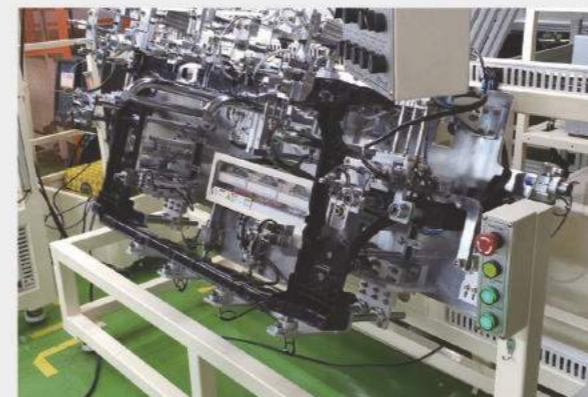
▲ Casino chip insert feeder



▲ Static electricity removal Conveyor (Light irradiation type)



▲ Nut insert feeder



▲ Carrier insert checker



▲ Cap assembler



▲ Glass insert feeder



▲ Inmold Labeling feeder



▲ Housing insert, check, loading system



▲ Hot stamping / loading system

# Conveyor System



▲ Assembly line bench and conveyor



▲ Main conveyor



▲ Main and sub conveyor



▲ Vertical injection sub conveyor



▲ 3 Stage stacking conveyor



▲ Escalator conveyor



# Hot runner & Sequence Timer



### Feature

- Excellent heat dissipation structure
- Easy operation – Multifunction
- Easy to modify wiring of fan and power supply
- Convenience and stability of users by applying soft trunks and input lines
- Apply Auto-Tuning function
- World-class PID control function (Temperature control speed is fast among SoftStart)
- 20A fuse applied / Stable function even at upper current limit.
- Temperature control function for universal injection, engineering and aluminum alloy injection molding realization. (-899°C/Max.)
- Handle application
- High performance TRIAC application (40A, 600V, Minimize TRIAC short)
- Sensor type and temperature unit always on display
- Composite cable applied



▲ frontside



▲ backside

▼ connecting cable IC(J) Red



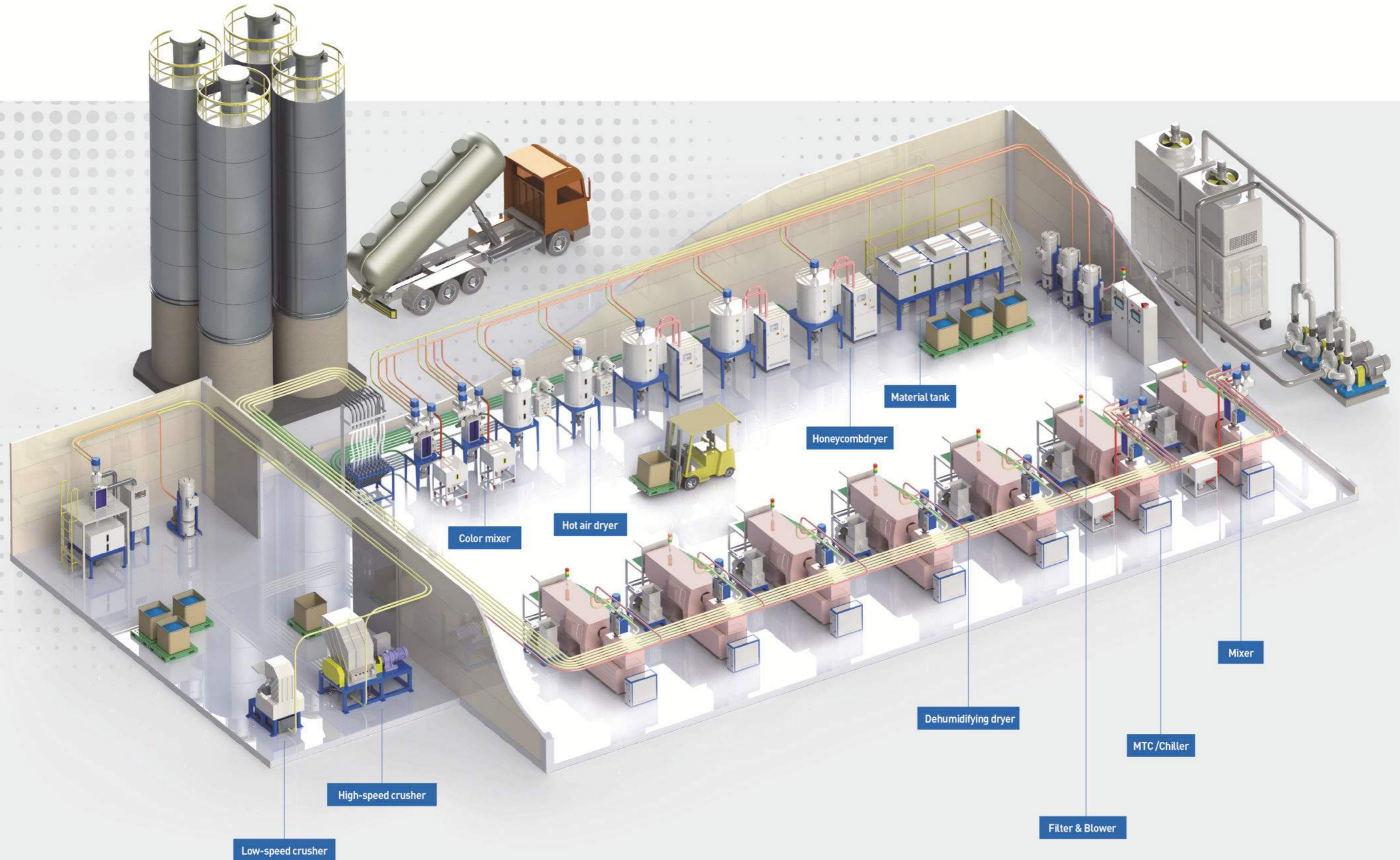
### Specification

- Input power : AC220V±10%
- Power frequency : 50/60Hz
- Output voltage : 3,600W, 20A/240Vac
- Power Consumption : 2.5W/Module
- Input resistance : 2MΩ
- Storage temperature : -20~70°C
- Ambient temperature : 0~50°C
- Ambient humidity : 10~80%RH anti-condensation
- Control accuracy : ±0.25% FS
- Measurement density : ±0.25% FS

### Standard frame

Ex) If customer orders 2 zone, then we put 2 components in 4 zone frame in order to put more module in case of buying additional module.

# Other Facilities



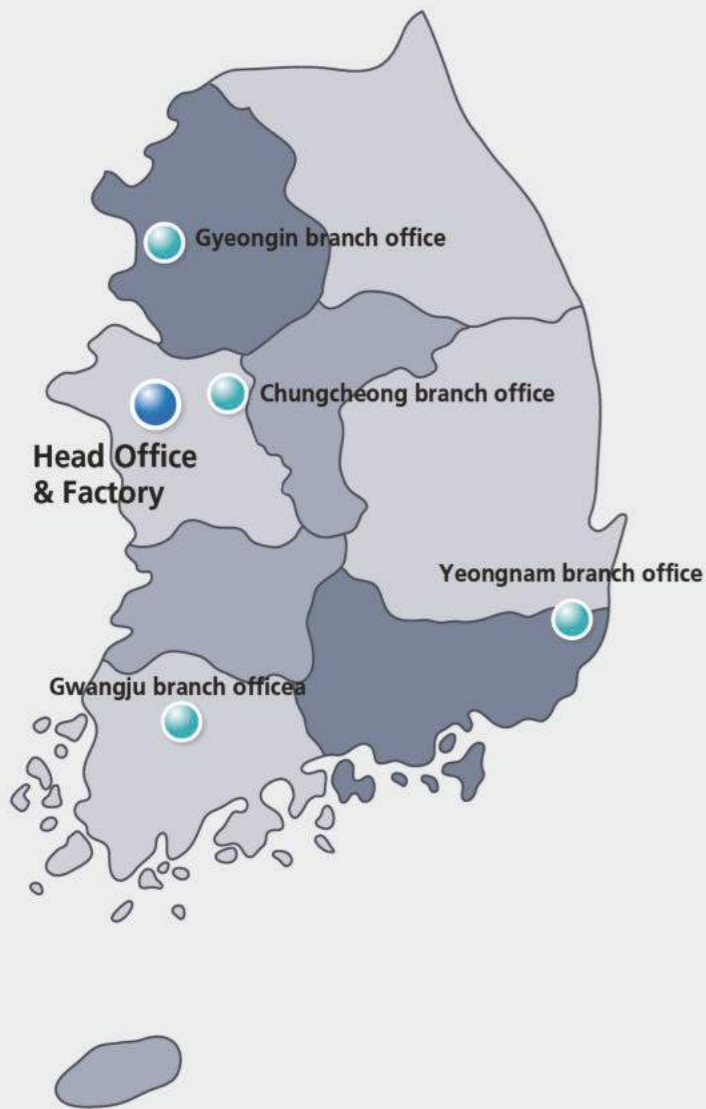
# Chuck parts



# GLOBAL NETWORK

Ceaseless research robotics to realize customers' dreams.

Customers are the reason why HYROBOTICS exists. HYROBOTICS will always work for its customers in injection molding with its excellent human resources and technology.



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