

**HQ :** Hyrobotics Co.Ltd  
41 Street, 9, Bodojin-Ro, Seo-Gu, Incheon, Korea  
T +82.32.582.5040 / +82.32.528.5046, F+82.32.524.7040, CS T +82.505.300.5040

**USA :** Hyrobotics Corp  
5319 Brown Ave  
St.Louis Mo, 63120  
Web Site [www.hyrobotics.com](http://www.hyrobotics.com)



# The First Time In Robot Industry!

## Articulated 5 Axis Robot For Plastics Injection Molding Take Out Application

# H5

Patent

### ✓ Easy Setting

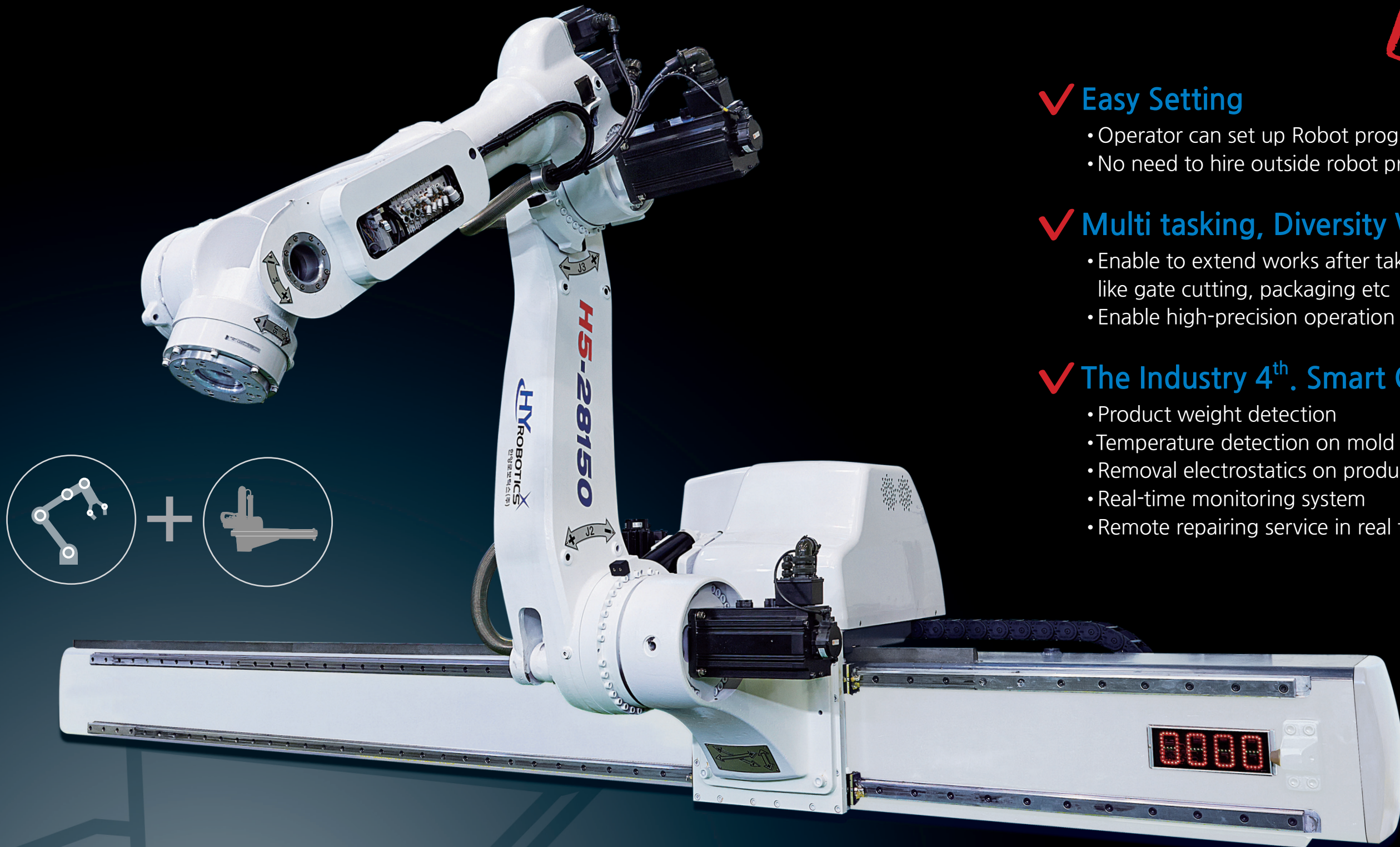
- Operator can set up Robot programming easily
- No need to hire outside robot programmer

### ✓ Multi tasking, Diversity Works

- Enable to extend works after taking out parts like gate cutting, packaging etc
- Enable high-precision operation

### ✓ The Industry 4<sup>th</sup>. Smart Option

- Product weight detection
- Temperature detection on mold and products
- Removal electrostatics on products
- Real-time monitoring system
- Remote repairing service in real time





# Easy Setting

## Icon Based Controller

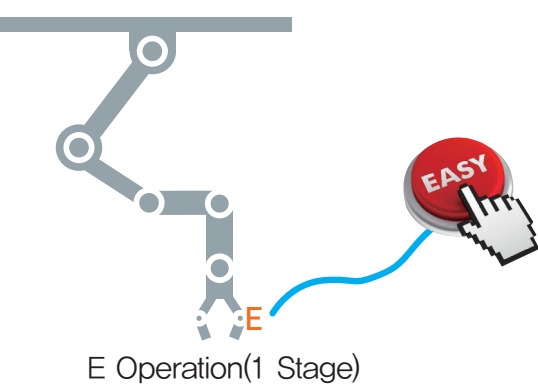
H5 Multi-axis robot can be operated easily through icon based. It is easy to programming take out application such as waiting, take out, up, down, etc., so anyone can operate it with simple training



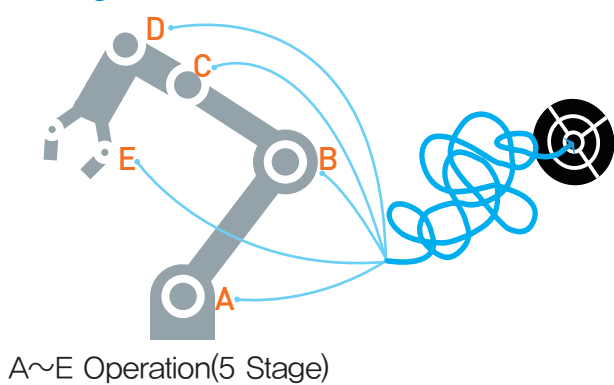
## Simple Operation

The existing multi-axis robots require four to five different stages of adjustment for each joint, but H5 multi-axis robot requires only one stage of operation. It can easily get desired operation with simple touch operation.

H5 multi-axis robot



Existing multi-axis robot



## Easy setting

Easy to operate like cartesian type robot for injection molding take out application

H5 multi-axis robot



Anyone can operate

Existing multi-axis robot

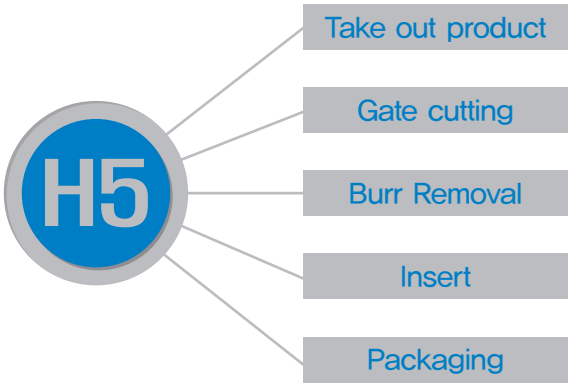


Need an expert's support

# Technical Information

## Multi Tasking & Diversity Of Operation

Enable diversity process for full automation with high-precision operation

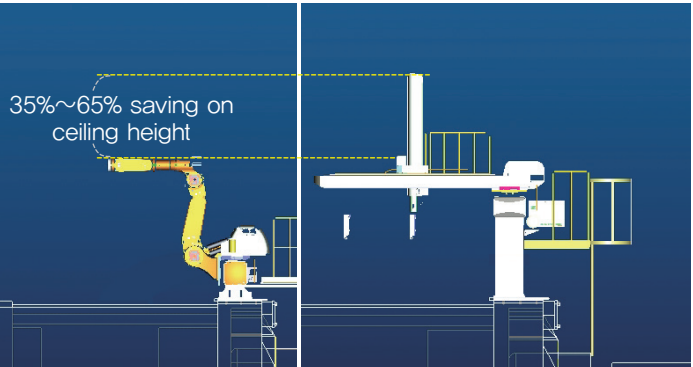


H5	Existing multi-axis robot	Traverse type
<b>Easy</b> operator can set the program easily for complicated Motion	<b>Difficulty</b> Only expert can set the program	Not easy to realize with straight-line operation (P2P method)Can't teach Precision curvature

## Advantages against traverse Robot

Enable 2ndary automation process for full-automation

- Gate cutting, flames, inspection, packaging etc
- Substitute dedicated automation equipment (cutting machines, flash cutting, etc.)



35% Telescopic ~65% for non telescopic Low ceiling compared to traverse robots

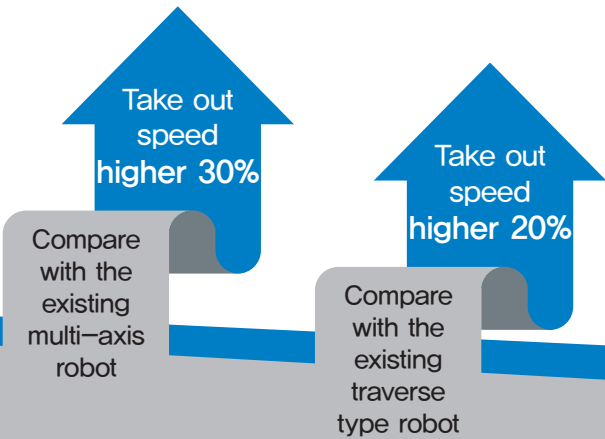
## Advantages over existing multi-axis robot

Designed to fit the Plastics injection Molding industry.

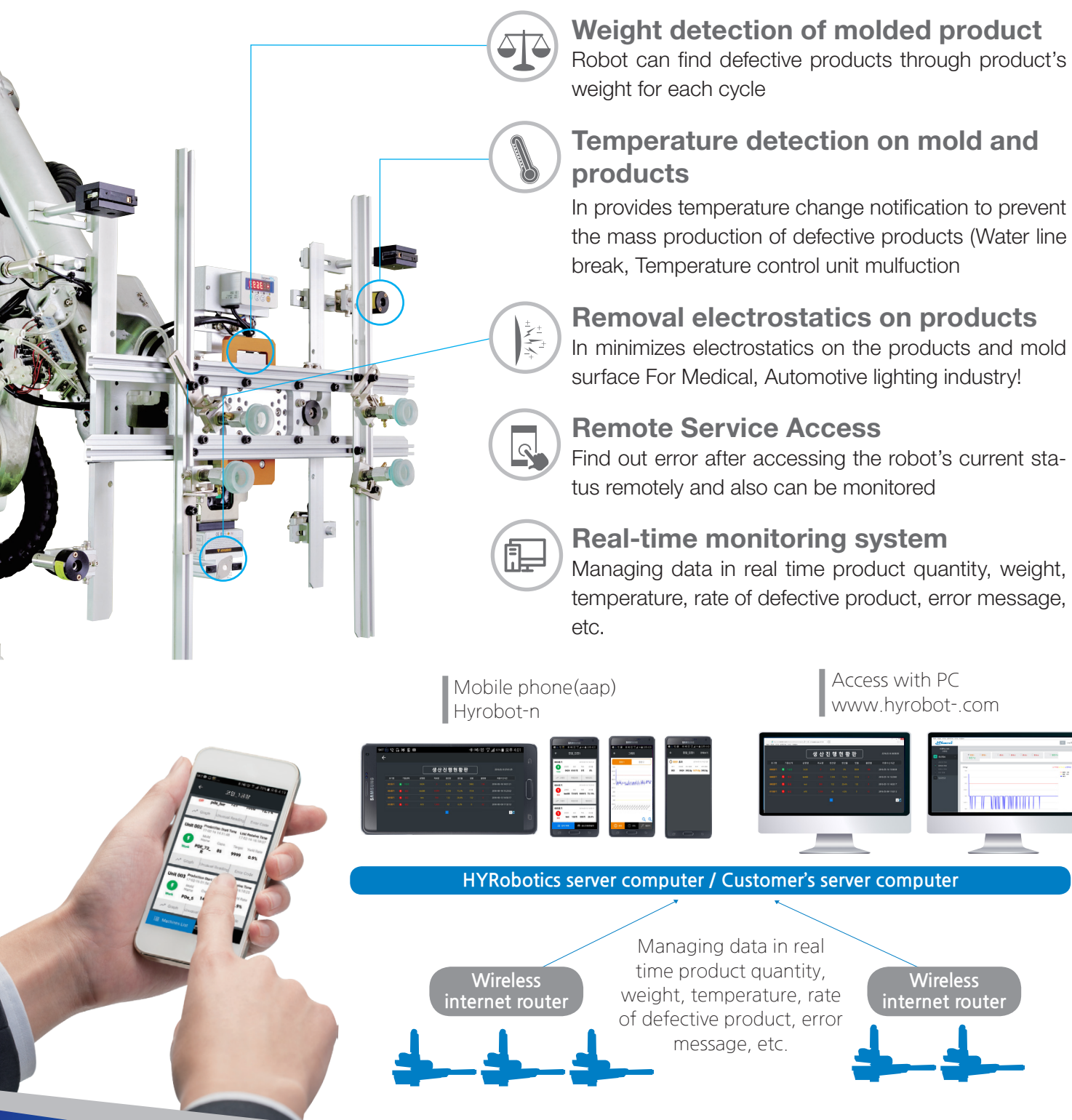
- 1 Axis Traverse + 4 Axis articulated multi-joint robot (optimal stroke for field)
- Designed for various take-out end of arm tooling
- Standard Interface module built in with Euromap 12 ( 32 pin ) , Euromap 67 ( 50 pin )

Compare with the existing multi-axis robot → Take out speed higher 30% & More working space with traverse stroke

Compare with the existing traverse type robot → Take out speed higher 20% & less foot print

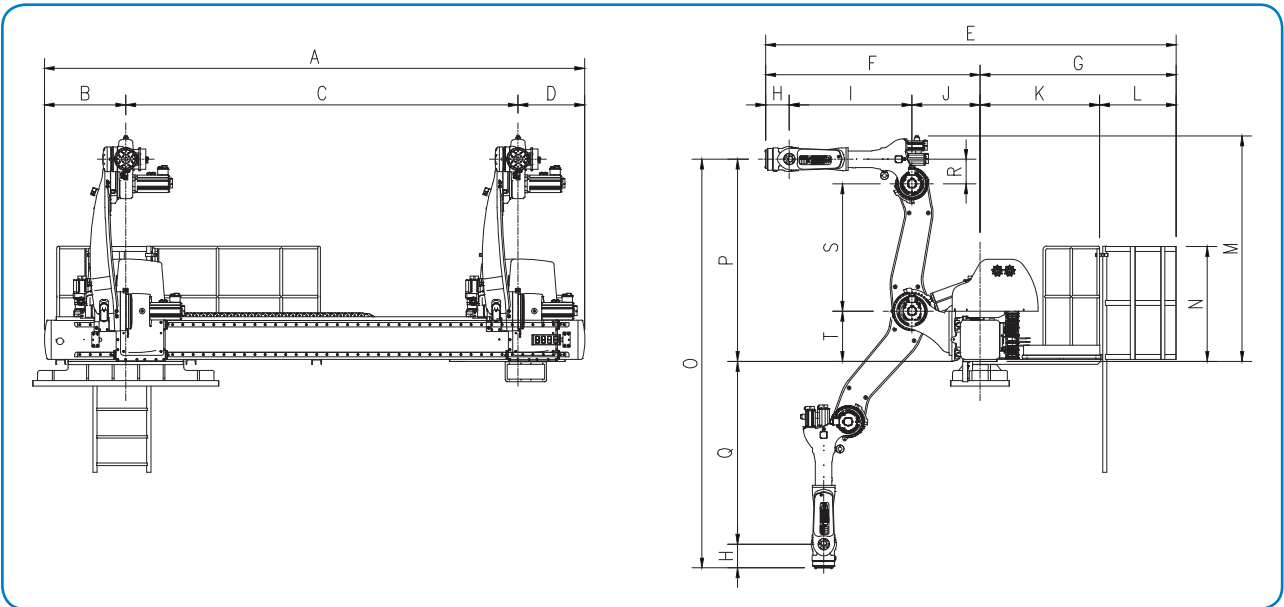


# The Industry 4.0 Smart Option



# Technical specification

## Dimension



## Product Specification

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