



Articulated Multi-Axis H5

Take-Out & Deburring Automation



Easy Set up and Operation

Existing multi-axis robots require extensive knowledge and training. H5 multi-axis robot requires simple training.



Multi Tasking

H5 enables various processes for full automation with high-precision operation.



4.0 Smart Option

- Weight detection
- Temperature detection
- Removal electrostatics on products
- Real time monitoring system
- Remote service access

Multi-axis Robot H5



EASY TO SET UP

ICON BASED USER INTERFACE
USER FRIENDLY PROGRAMMING



DESIGNED FOR INDUSTRY

OPTIMIZED FOR LOW CEILING HEIGHT
SUCTION UNIT EQUIPPED



COST BENEFIT

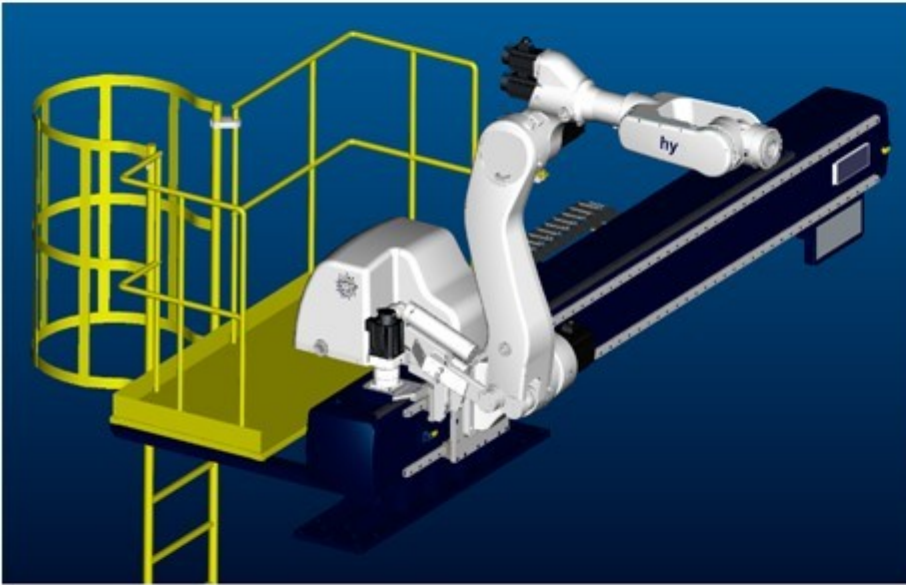
EASY COMMUNICATION WITH OTHER ROBOTS
NO NEED AN EXPERT'S SUPPORT



THE INDUSTRY 4.0 SMART OPTION

WEIGHT DETECTION
TEMPERATURE DETECTION
REMOVAL ELECTROSTATICS
REAL-TIME MONITORING
REMOTE SERVICE ACCESS

From Our R&D center
**Development of Multi Axis Robot for
Injection Molding Manufacturing.**



WHY did we develop?

- Increased Needs of Multitasking Robot (Deburring, Gate-cutting, Palletizing. Etc.)
- Limitations of Traditional Multi-axis Robots
- Space Utilization for Automation

You will get...

- **35% more height space utilization** compare to traditional traverse robots
- **Reduced labor cost** through simplified process
- **Improved quality and productivity** with automation
- **Easy set up** by an operator without an expert



Why H5?

Comparing to existing multi-axis robots

Perfect design for Injection Molding Manufacturing

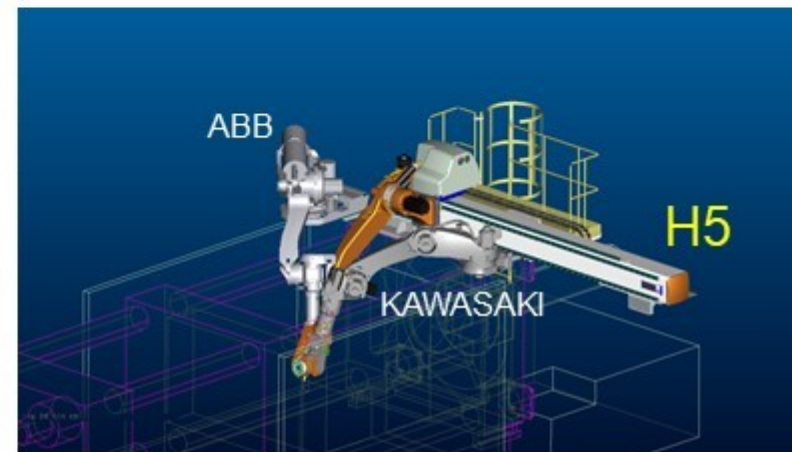
- Existing multi axis robots have limited range due to the fixed base.
- High-end model needed for the longer range.
- H5 has a wider operation range thanks to the traverse rail.

Pneumatic units for several EOAT installation

- Existing robots need additional pneumatic units.
- H5 has pneumatic units installed. Easy to install EOATs.

Molding Machine Interface and Connectivity.

- IMM Interface and connection module included.
- Cost effective.



Multi-tasking & Various tasks

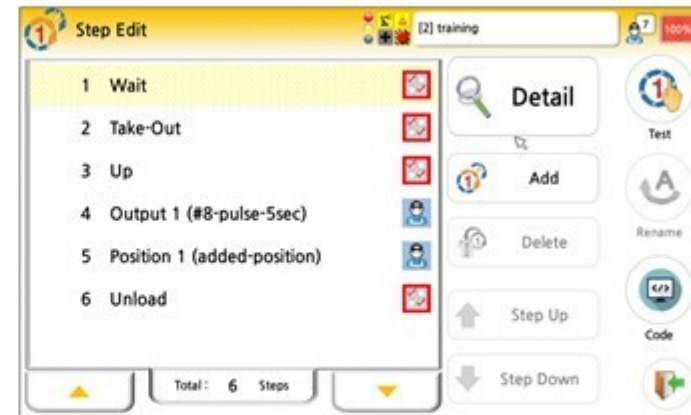
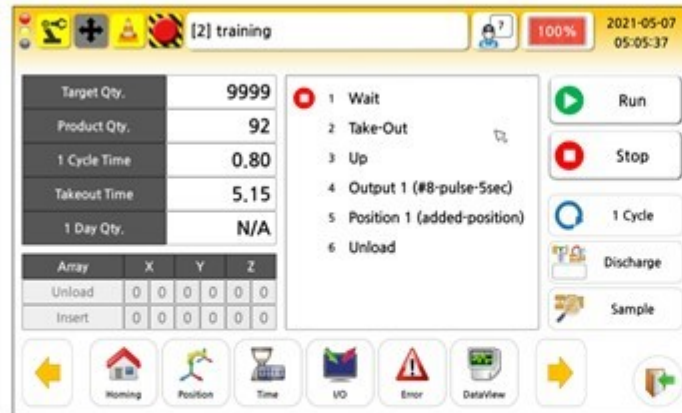
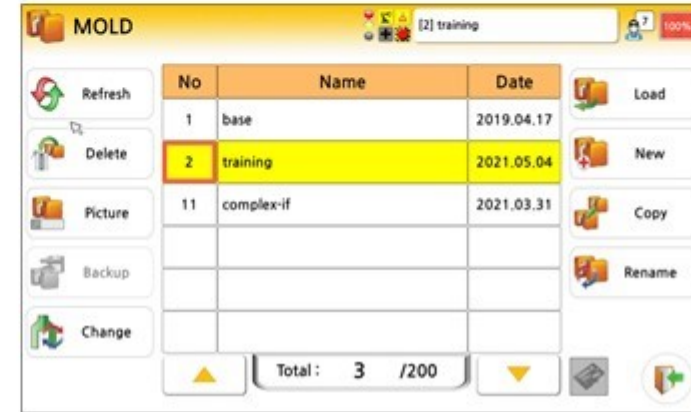
Perform various tasks over simple take-out operation

- Gate-cutting, Burr-removal, Quality inspection, Palletizing, Etc.
- No more additional automation robots needed
- Save labor cost for automations



Easy Operation

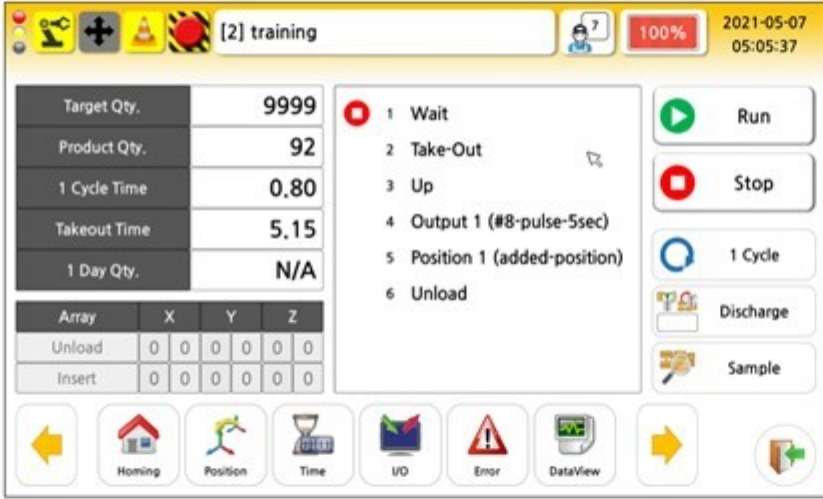
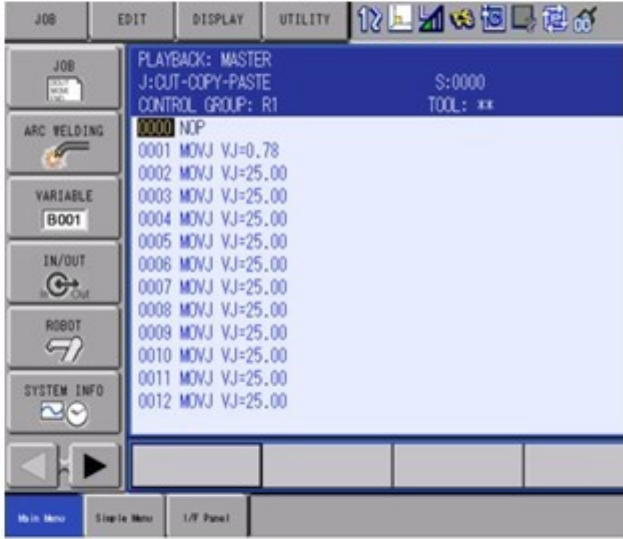
Icon Based User Friendly Interface



Programmable just like existing cartesian traverse robots (Wait, take out, up, release, etc.)

Easy Operation

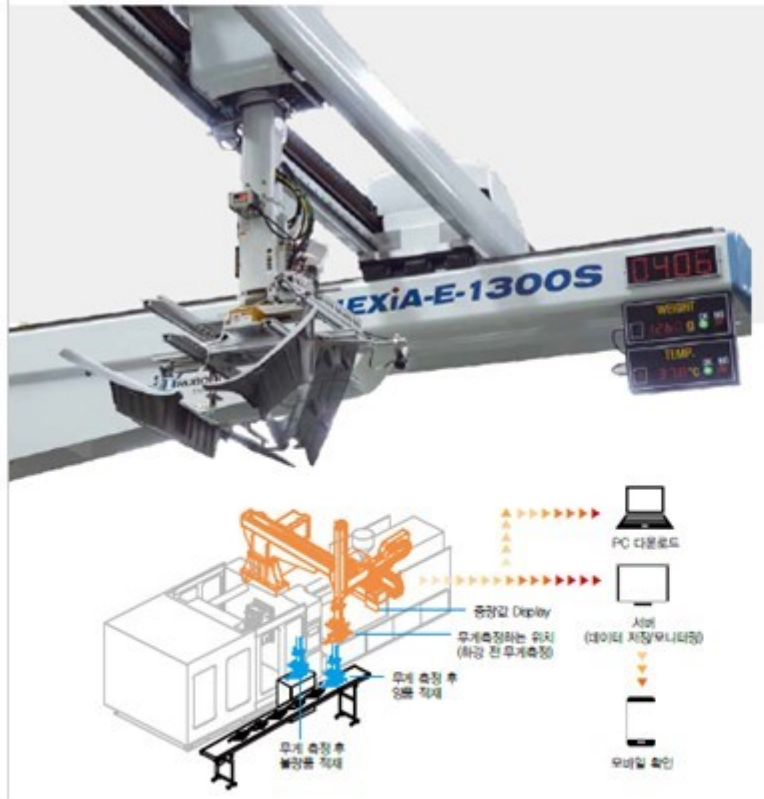
Easy to learn without any expertise

	H5 Teaching Pendant Screen (Icon Based)	Yasukawa Teaching Pendant Screen (Text based)
Screen	 <p>The screenshot shows an icon-based interface with a top status bar, a central list of steps (1-6), and various control buttons like Run, Stop, 1 Cycle, Discharge, and Sample. It also includes a data table for 'Array' with columns X, Y, Z and rows Unload/Insert.</p>	 <p>The screenshot shows a text-based interface with a menu on the left and a main display area showing playback details and a list of G-code commands (e.g., 0001 MOVJ VJ=0.78, 0002 MOVJ VJ=25.00).</p>
Training Hour	2 Hours	2 Days [Need and expert support for additional cost]
Required time for programming simple operation with gate-cutting	An operator can do it in 30 min.	1 day Need an expert to come

Industry 4.0 Smart Option

Optional features from HYRobotics

- Weight detection
- Temperature detection
- Real-time product quantity monitoring
- Remote Service Access



Mobil App for monitoring system



모바일앱: Hyrobot-n

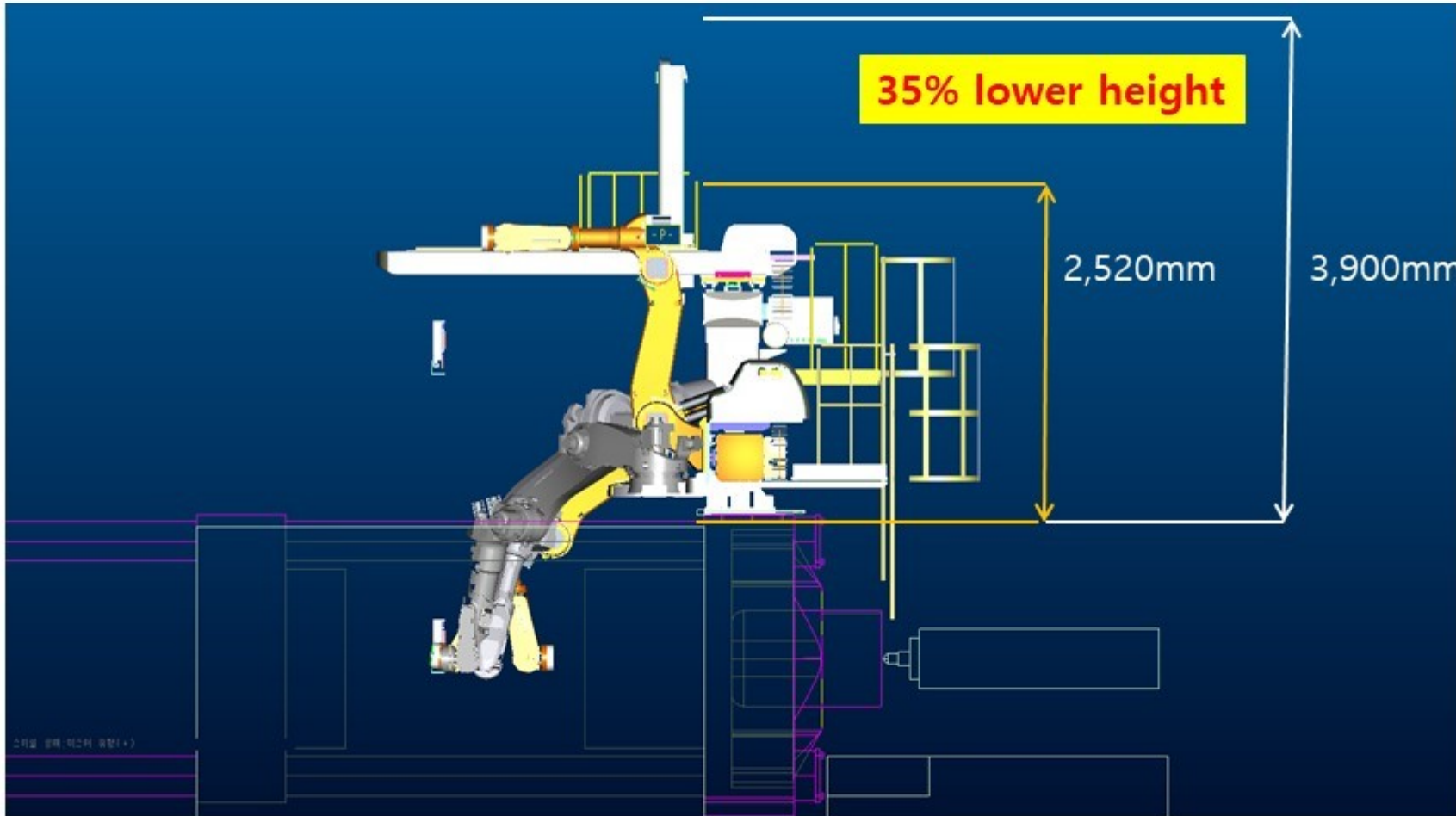


Remote Service Access



Low Minimum Ceiling Height

Comparison to cartesian robot (cartesian: 3,900mm, multi-axis: 2,520mm, 65%)

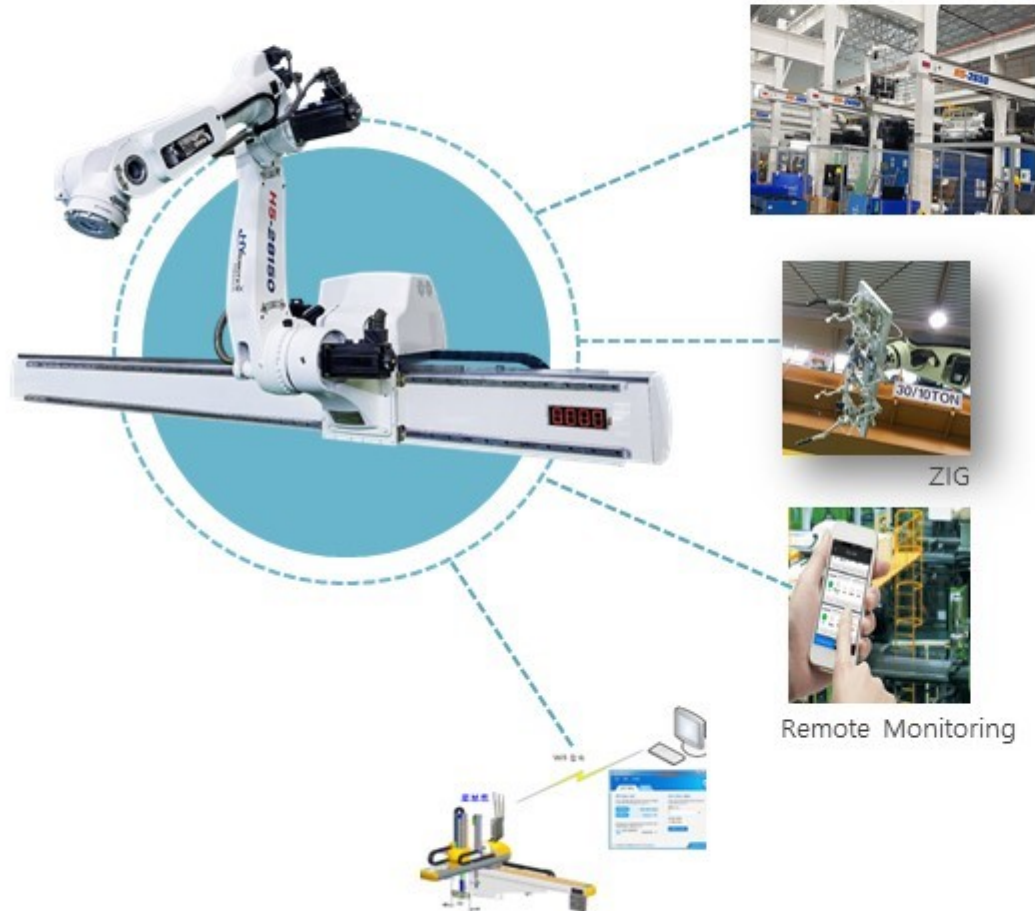


Speed Comparison 2500 ~ 3000 Ton. Size

Compare to Kawasaki **30% faster take out speed**
 Compare to cartesian robots **20% faster take out speed**

Robots	Maximum Joint Rotation Speed(Degree/sec)						Max Payload (kg)	Reach (mm)	Model
	J1	J2	J3	J4	J5	J6			
KAWASAKI	120	110	130	170	170	280	165	3,151	BT165L/3.15
	105	85	100	120	120	200	200	3,151	BT200L/3.15
YASKAWA	105	105	105	175	150	240	165	3,140	ES165RD II
FANUC	115	110	125	180	180	260	165	3,095	R-2000iC/165R
	110	90	110	120	120	190	100	3,500	R-2000iB/100P
KUKA	105	107	114	179	172	219	180	3,100	KR Quantek prime K 180 R3101
	105	107	114	179	172	219	150	3,300	KR Quantek prime K 150 R3301
ABB	110	90	90	150	120	235	125	3,485	6650S-125/3.5
	100	90	90	150	120	190	200	3,039	6650S-200/3.0
HYRobotics		144	143		177	225	150	2550	2500

Specification



Model	H5-3080
I.M.M	2500~3500 Ton
Strength	5 Axis Take Out Robot
	All Servo-Motors *Various Secondary Automated Applications Gate-cutting, Deburring, Inspection, Palletizing *Easy Set up and Operation No need experts anymore
Technical Specification	Power: 1Phase/3Phase AC220V(50/60HZ)
	Control: Micro Computer
	Pneumatic Pressure: 6~8kg/cm ² Reach:3,000mm, Payload: 80kg
Included	*IMM Interface (Standard, Euromap 12, 67 Included) *Robot Sub-Base *Ladders *Pneumatic Unit Included *Automated Grease dispenser system





Manufacturing Factory



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