Articulated 5 Axis Robot for Injection Molding Application
Articulated 5 Axis Robot For Plastics Injection Molding Take Out Application H5

The First Time In Robot Industry!

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 4th. 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.

- **Easy setting**
  Easy to operate like cartesian type robot for injection molding take out application.

Technical Information

- **Multi Tasking & Diversity Of Operation**
  Enable diversity process for full automation with high-precision operation.

- **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.)

- **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

- **Take out product**
  - Gate cutting
  - Burr Removal
  - Insert
  - Packaging

- **H5**
  - Existing multi-axis robot
  - Traverse type

- **Difficulty**
  - Easy
  - Only expert can set the program
  - Not easy to realize with straight-line operation (P2P method Can’t teach Precision curvature)

- **35% Telescopic ~65% for non telescopic Low ceiling compared to traverse robots**
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
In provides temperature change notification to prevent the mass production of defective products (Water line break, Temperature control unit malfunction

Removal electrostatics on products
In minimizes electrostatics on the products and mold surface For Medical, Automotive lighting industry!

Remote Service Access
Find out error after accessing the robot’s current status remotely and also can be monitored

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

Technical Specification

Power
- Normal Pneumatic Pressure: 3 Phase AC220V(50/60Hz)
  - Max. Pneumatic Pressure: 3 Phase

Motion Control
- Servo Motor
- Micro Computer

Control Method
- Normal Pneumatic Pressure
  - Max. Pneumatic Pressure

Product Specification

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