

Industrial Robotic Arm for Material Handling

This industrial robot is designed for stacking, unstacking, transferring, stamping, loading, and unloading applications. It is suitable for use in the packing, drinking, chemical, and food industries.



Overview

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This high-performance industrial robotic arm is engineered for precise material handling, featuring a robust 4-degree-of-freedom design. It is optimized for versatile automation tasks, including stacking, unstacking, transferring, stamping, and loading/unloading across sectors such as food, chemical, and packaging industries. With a 50kg payload capacity and advanced AC servo drive technology, it delivers reliable efficiency and repeatable performance for demanding production environments.

Key Metrics

Payload Capacity

50 kg

Payload

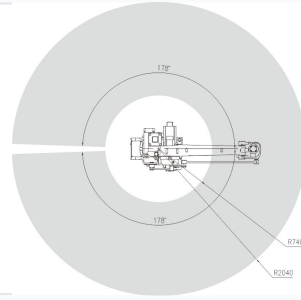
660 kg

Machine Weight

2040 mm

Motion Radius

Technical Specifications



Operational range diagram illustrating the 178-degree motion capability and reach dimensions.

Core Technical Details

| Feature | Value |
|------------------------------|-----------------------|
| Degrees of Freedom | 4 |
| Drive System | AC Servo Drive |
| Repeatability | ±0.2 mm |
| Wrist Allowable Load Inertia | 4.5 kg·m ² |
| Cycle Time | 1700 r/h |

Joint Motion Range

| Joint | Range (°) | Top Velocity (m/s) |
|-------|-----------|--------------------|
| J1 | ±178 | 171 |
| J2 | +90~-40 | 171 |
| J3 | +65~-78 | 171 |
| J4 | ±360 | 222 |

Applications

Automation Tasks

- Stacking
- Unstacking
- Transferring
- Stamping
- Loading and Unloading

Suitable Industries

Packaging, Beverage, Chemical, Food Processing