

IRB 340

Industrial Robot

MAIN APPLICATIONS

Assembly
Material handling
Picking
Packing



Fast and flexible

The IRB 340 FlexPicker™, your ideal solution in applications where objects need to be moved quickly and precisely, one at a time, from one location to another. The IRB 340's outstanding feature is the speed at which it operates, handling more than 150 picks per minute.

The IRB 340SA wash-down features special paint finish, corrosion resistant material, sealed components, and a specially designed axis 4 with slide bearings, for easy cleaning using detergent and water at low

pressure. The IRB 340 wash-down version is especially suited for use in packaging applications with open food, such as meat, dairy products, ready-made meals.

The reliable, market leading S4Cplus controller is an integral part of the FlexPicker robot. The S4Cplus with TrueMove and QuickMove ensures the highest speed and path-following accuracy. It also enables the robot to track fast moving conveyor belts with high accuracy.

TECHNICAL DATA, IRB 340 INDUSTRIAL ROBOT

SPECIFICATIONS

Robot versions	Handling capacity	Remarks
IRB 340	2 kg *	Standard
IRB 340SA	2 kg *	Wash-down version
* 2 kg with maximum 60 m/s ² acceleration 1 kg with maximum 100 m/s ² acceleration		
Supplementary load		
on upper arm	350 gram	
on lower arm	350 gram	
Number of axis	4	
robot manipulator		
Integrated signal supply	12 poles 50V, 250mA	
Integrated vacuum supply	Max. 6 bar / max vacuum -0,9 bar	

PERFORMANCE

Position repeatability	0.1 mm
Angular repeatability	
IRB 340	0.4 °
IRB 340SA	1.5 °
Working range	
Diameter	1130 mm
Height	250 mm
Rotation	Unlimited
Max speed	10 m/s
Max acceleration (approx.)	100 m/s ²
Max torque axis 4	1 Nm (angular acceleration depending on moment of inertia)

Typical robot cycle times (robot only)

Cycle [mm]	Payload [kg]	Cycle time [s]
25/305/25	0.1	0.33
25/305/25	1.0	0.38
25/305/25	2.0	0.58
25/700/25	0.1	0.44
25/700/25	1.0	0.55
25/700/25	2.0	0.85

For optimum process performance, see PickMaster datasheet.

Conveyor tracking

Max conveyor tracking speed	350 mm/s	
Conveyor speed [mm/s]	Payload [kg]	Repeatability [mm]
150	0.1	1.0
250	0.1	2.0

Note: Higher conveyor tracking speeds (up to 750 mm/s) must be verified for each installation.

For optimum conveyor tracking performance, see PickMaster datasheet.

ELECTRICAL CONNECTIONS

Supply voltage	200-600 V, 50/60 Hz
Rated power	
Transformer rating	7.2 kVA

PHYSICAL

Robot mounting	Inverted
Dimensions	
Robot incl. upper arms	950 x 1050 mm
Weight	
IRB 340 manipulator	140 kg

ENVIRONMENT

Degree of protection	
IRB 340 manipulator	IP55
IRB 340SA manipulator	IP67
Ambient temperature	
IRB 340 manipulator	+5°C to +52°C
Relative humidity	Max. 95 %
Noise level	< 70 dB(A)
Safety	Double circuits with supervision, emergency stops and safety functions, 3-position enabling device
Emission	EMC/EMI shielded

Data and dimensions may be changed without notice.

WORKING RANGE

