



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. To meet the most stringent demands, a stainless wash-down version is available.

The reliable, market leading IRC5 controller is an integral part of the FlexPicker robot. The IRC5 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.

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TECHNICAL DATA, IRB 340 INDUSTRIAL ROBOT

SPECIFICATIONS

Robot versions	Handling capacity	Remarks
IRB 340	1 kg	Standard
IRB 340SA	1 kg	Wash-down version
IRB 340SAS	1 kg	Stainless Wash-down
IRB 340/2	2 kg	Standard
IRB 340SA/2	2 kg	Wash-down
IRB 340SAS/2	2 kg	Stainless Wash-down

Supplementary load	
on upper arm	350 gram
on lower arm	350 gram
Number of axis	
robot manipulator	4
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 (967 mm)
Height	250 mm (300 mm)
Rotation	Unlimited
Max speed	10 m/s
Max acceleration (approx.) 1 kg version	100 m/s ²
Max acceleration (approx.) 2 kg version	60 m/s ²
Max torque axis 4	1 Nm (angular acceleration depending on moment of inertia)

Typical robot cycle times (robot only) 1 kg version

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

Typical robot cycle times (robot only) 2 kg version

Cycle [mm]	Payload [kg]	Cycle time [s]
25/305/25	2	0.65
25/700/25	2	0.83

For optimum process performance, see PickMaster datasheet.

Conveyor tracking	
Max conveyor tracking speed	350 mm/s
Conveyor speed	Payload
[mm/s]	[kg]
150	0.1
250	0.1
Repeatability [mm]	
1.0	
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
IRB 340 manipulator stainless	165 kg

ENVIRONMENT

Degree of protection	
IRB 340 manipulator	IP55
IRB 340SA and SAS manipulator	IP67
Ambient temperature	
IRB 340 manipulator	±0°C to +52°C
Relative humidity	Max. 95 %
Noise level	< 70 dB(A)
Clean room	IRB 340 are classified for cleanroom class 10
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

