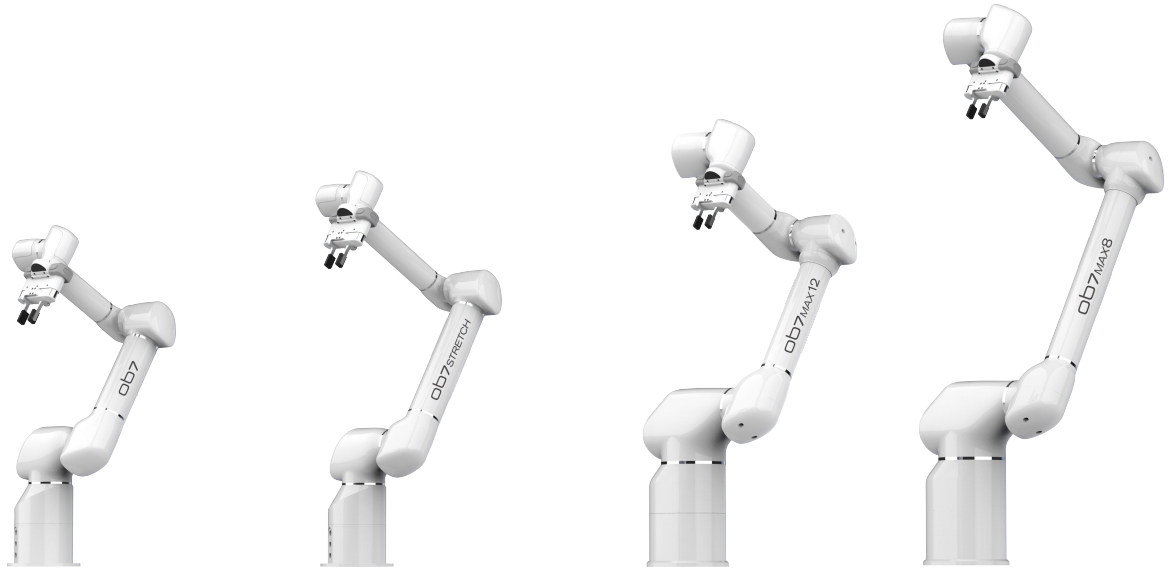


# OB7 Robot Comparison



**OB7**

**OB7-Stretch**

**OB7-Max 12**

**OB7-Max 8**

<b>Payload:</b>	11 lbs / 5 kg	8.8 lbs / 4kg	26 lbs / 12 kg	17 lbs / 8 kg
<b>Reach:</b>	1000 mm	1250 mm	1300 mm	1700 mm
<b>Weight:</b>	58 lbs / 22 kg	58 lbs / 22 kg	127 lbs / 58 kg	128 lbs / 58 kg
<b>Repeatability:</b>	+/- 0.1 mm, .004"	+/- 0.1 mm, .004"	+/- 0.1 mm, .004"	+/- 0.1 mm, .004"
<b>Flexibility:</b>	7 joints	7 joints	7 joints	7 joints
<b>Speed:</b>	0-2+ m/sec	0-2+ m/sec	0-2+ m/sec	0-2+ m/sec
<b>IP Class:</b>	IP 61	IP 61	IP 61	IP 61
<b>Joint Ranges:</b>	+/- 360° (all)	+/- 360° (all)	+/- 360° (all)	+/- 360° (all)
<b>Programming:</b>	No Programming, Learns by Demonstration	No Programming, Learns by Demonstration	No Programming, Learns by Demonstration	No Programming, Learns by Demonstration
<b>Safety:</b>	ISO 10218-1 Compliant	ISO 10218-1 Compliant	ISO 10218-1 Compliant	ISO 10218-1 Compliant



## OB7 Robot Models Specifications

### OB7 ROBOT:

**Robot Mounting Flange Dia:** 220 mm: OB7  
250 mm: OB7-Max

**Gripper Mounting Flange:** ISO 9409-1-5  
0-4-M6

**Working Temperature:** 0-37C 32-100F

**Power Source:** 100-240 VAC 50-60hz

**Uninterruptible Power:** 10 minutes (robot stopped) for moving robot to new location

**Power Consumption:** OB7: 90-650 W  
OB7-Max: 90-1,000 W  
dependent on speed and payload

**Safety:** Power and force limited, ISO 10218-1 compliant

**Linear Speed:** 2 m/sec max (dependent on position)

**IP Classification:** IP 61

**Noise Level:** Quiet, dependent on speed and payload

**Mounting Orientation:** Vertical: table/ceiling  
Horizontal: wall

**Cable length:** 1 meter, 5 meters

### CONTROL COMPUTER:

**Control Computer IP Rating:** IP 30

**Control Computer Dimensions:** 343 mm x 313 mm x 102 mm  
13.5" x 12.3" x 4"

**Communication (hardware):** Ethernet 100MB

**Protocols:** Ethernet IP pending

**Power:** 100-240 VAC 50-60 HZ

**Control Tablet IP Rating:** IP 60

**Control Table Connection:** USB

**Control Tablet Dimensions:** 292mm x 213mm  
11.5" x 8.4"

**Control Tablet Cable** 5 meters, 16 ft.

### ROBOT STAND for 5 Kg OB7:

**Base Dimensions:** 780 mm x 597 mm  
30.7" x 23.5"

**Robot Base Mounting:** 882 mm (32.75") height

**Weight:** 73.5 kg (162 lbs)

**Casters:** 4

**Leveling Feet:** 4

**Mounting:** Included for robot computer

### GENERAL EQUIPMENT INTERFACE:

**Connection to Robot:** Ethercat RJ45

**Power Supply:** 24V 2A

**Digital Input Ports:** 8 Optically Isolated

**Digital Output Ports:** 8 Relay Isolated, NC & NO

**Analog Input Ports:** 4

**Dimensions:** 253 mm x 125 mm x 37 mm  
10" x 5" x 1.5"

### ELECTRIC PARALLEL GRIPPER:

**Weight:** 1.8 lbs / .8 kg

**Gripping Force:** 25-140 N

**Full travel close/Open Time:** 1 second

**Force control:** Set by the robot

**Open/Close positions:** Set by the robot

### ASSEMBLY AND WORK TABLE:

**Assembly Table Dimension:** 702 mm x 902 mm  
27.6" 35.5"

**Work Fixture Registration Holes:** ¼- on 4" centers or 6 mm on 100 mm centers (metric model)

**Work Fixture Hold Down Holes:** ¼-20 on 4" centers or M6 on 100 mm centers

**Assembly Table Surface:** 6061-T6 Anodized Aluminum

**Assembly Table Weight:** 23 kg (51 lbs)

