



## Run 24/7 'Lights Out'

Designed to tirelessly run 'lights out' shifts, OB7 loads blanks and unloads finished parts consistently 100% of the time. With zero breaks or distractions, OB7 minimizes down time and ensures consistent, quality output.

### Set Up in Under an Hour

Just roll OB7 up and go—no outside integration necessary. Your existing staff can set it up in minutes. Interfacing your machine is easy with dedicated machine tending packages. With OB7, you'll be running production in less than an hour.

## **No Programming**

No programming means no coding, classes or special training needed. Anyone can teach OB7 to do hundreds of complex automation jobs simply and quickly. Just 'show' OB7 and it learns.

## **Any Mix or Volume**

OB7 automates practically any job you can throw at it – from high volume production to short runs & high mix/low volume jobs. Automate as little as 5 parts, then switch to another job in no time. OB7 does it all, precisely every time.

## Less than \$5/Hour

OB7 operating cost is less than \$5/Hour (40 Hours/Week) or \$2.50/Hour (80 Hours/Week). All while producing consistent, reliable machine output, reducing scrap and optimizing part quality. OB7 productivity generates positive cash flow in less than 1 week

## **Tend Any Machine**

OB7 is versatile and operates any brand of CNC Mills, Lathes, Laser Cutters, Routers, Plasma Cutters, EDM and Grinders. Common compatible machine brands include: HAAS, Mori Seiki, Hurco, Doosan, Mazak, Okuma and others.

## MEET YOUR NEXT WORKER. **READY TO WORK IMMEDIATELY.**

There's an OB7 Robot to Automate Any Shop Task.



#### **Machine Tending**

CNC, Lathe, EDM, Injection Molding, and Others



#### Welding

Dual Station, Large Format, Robot Welder for Your Table and Welder



## **Deburring**

**Automated Parts** Deburring



#### Gluing

Bonding, Sealing, Fluid Dispensing



#### **Quality Control**

Testing, Inspection, Measuring



#### **Material Handling**

Packaging, Palletizing, Pick and Place



**Part Marking** 

Dot Pinning, Laser Engraving



Sanding

Polishing, Finishing and Sanding



**Assembly** 

Part Insertion, **Product Assembly** 











## 7-Axis Extreme Maneuverability **Unmatched by Any 6-Axis Robot**

Like a human arm, seven joints give OB7 robots the flexibility to operate in a confined space and reach around obstructions, such as a machine tool's sliding door. It allows the operator access to do maintenance, setups and tool changes without blocking access to the machine.



## **OB7**

- The Perfect Automation Cobot
- 7-Axis Extreme Maneuverability
- No Programming

### **OB7 Stretch**

- Most popular for lathes, offering slightly more reach than OB7.
- 7-Axis Extreme Maneuverability
- No Programming

#### **OB7 Max 16**

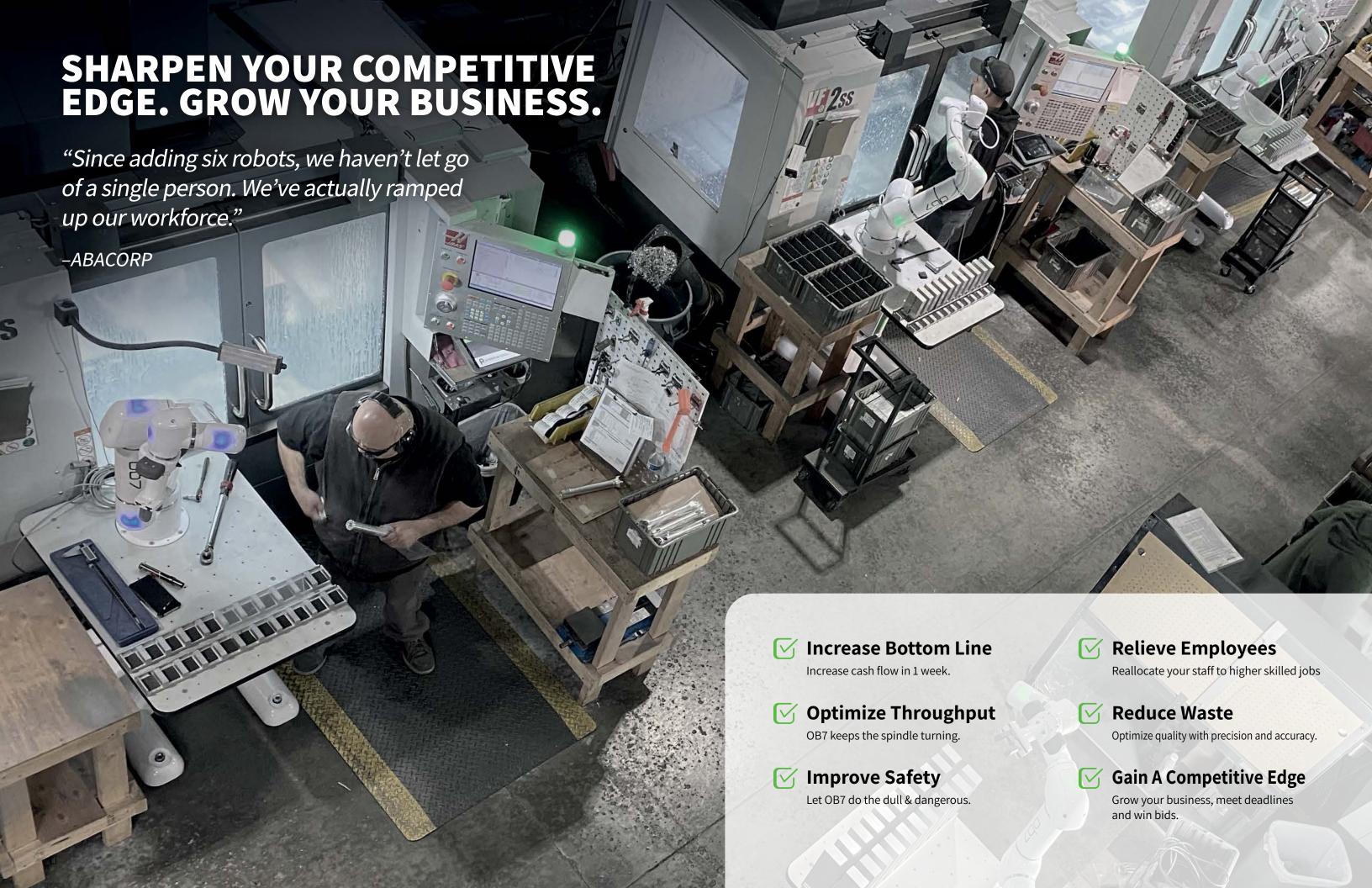
- Highest weight capacity in the OB7 series cobots.
- 7-Axis Extreme Maneuverability
- No Programming

#### OB7 Max 12

- Middle weight capacity, ideal for handling heavier parts.
- 7-Axis Extreme Maneuverability
- No Programming

#### OB7 Max 8

- Longest reach capacity in the OB7 series cobots.
- 7-Axis Extreme Maneuverability
- No Programming



## LATHE TENDING PACKAGE



## COMPLETE OUT-OF-THE-BOX ROBOTIC MACHINE TENDING

OB7 installs on your CNC machine in under an hour. Package includes an OB7 robot with all controls plus all the necessary equipment to add robotic machine tending to your CNC Lathe.

#### **ALL-INCLUSIVE PACKAGE:**

- OB7, Stretch, Max 8, Max 12, or Max 16 Robot
- Controller & Tablet
- Robot Stand
- Assembly & Staging Table

39" x 28" (OB7, Stretch Robots)

- 47" x 47" (MAX Robots)
- DUAL PG2 Parallel Programmable Electric Gripper (reduces wait time during part reloading)
- DUAL Gripper Interface and Adapter
- Robot Machine Interface
- All Necessary Cables
- Remote Interface Relay (x3)

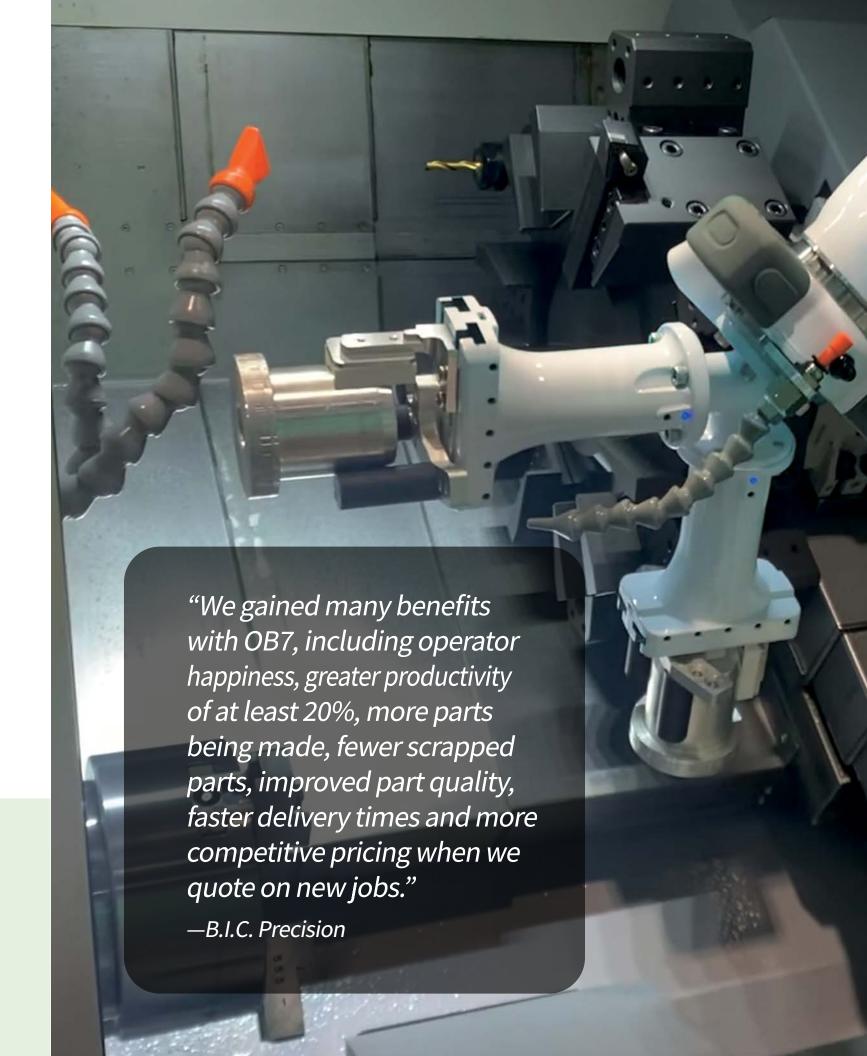
#### **PACKAGE OPTIONS**

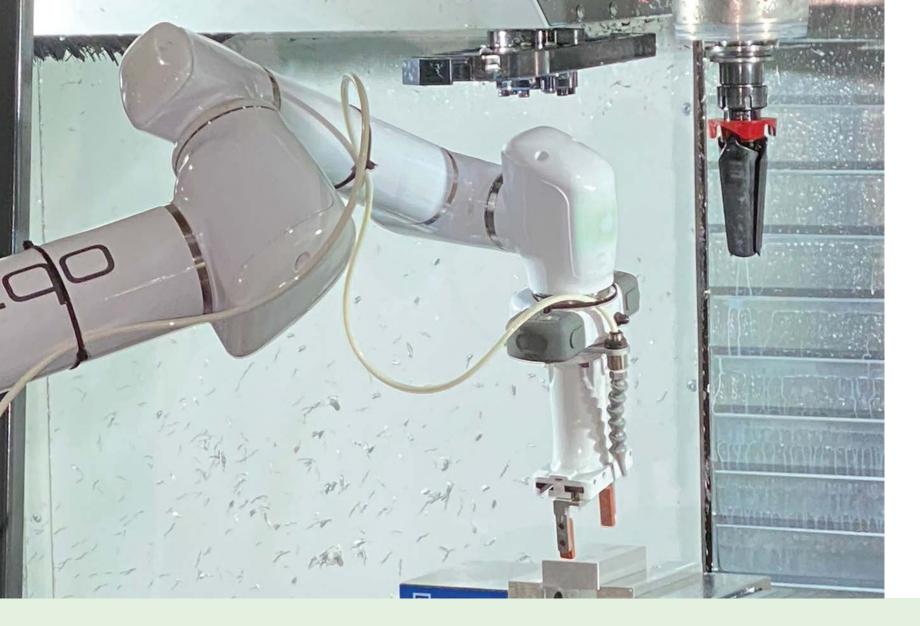
- OB Vision
- Air Blow Off Kit
- Remote Interface Relay Module-Single
- Remote Interface Relay Module-Double
- Pneumatic Controller
- Laser Safety Scanner

## **Run Lights Out**

OB7 cobots stand in front of your machine, loading blank parts and unloading finished parts, any shift you need.







"Working 'lights out' with OB7 allows us to go home and return the next morning with a job completed, ready to start the next. OB7 has saved us significant time and money, while increasing

—Swiss Productions

quality and precision."

#### **ALL-INCLUSIVE PACKAGE:**

- OB7, Stretch, Max 8, Max 12, or Max 16 Robot
- Controller & Tablet
- Robot Stand
- Assembly & Staging Table

39" x 28" (OB7, Stretch Robots) 47" x 47" (MAX Robots)

- PG2 Parallel Programmable Electric Gripper
- Robot Machine Interface
- AirVise Table Vise AVT4 with 6"Jaws

Kurt Pneumatic Vise Optional

- Chip Fan
- Air Blow Off Kit
- Remote Interface Relay Module-Single

#### **PACKAGE OPTIONS**

- OB Vision
- Air Blow Off Kit
- Remote Interface Relay Module-Single
- Remote Interface Relay Module-Double
- Pneumatic Controller
- Laser Safety Scanner





# Machine Tending Without Programming. OB7 Learns by Doing. Not Coding.

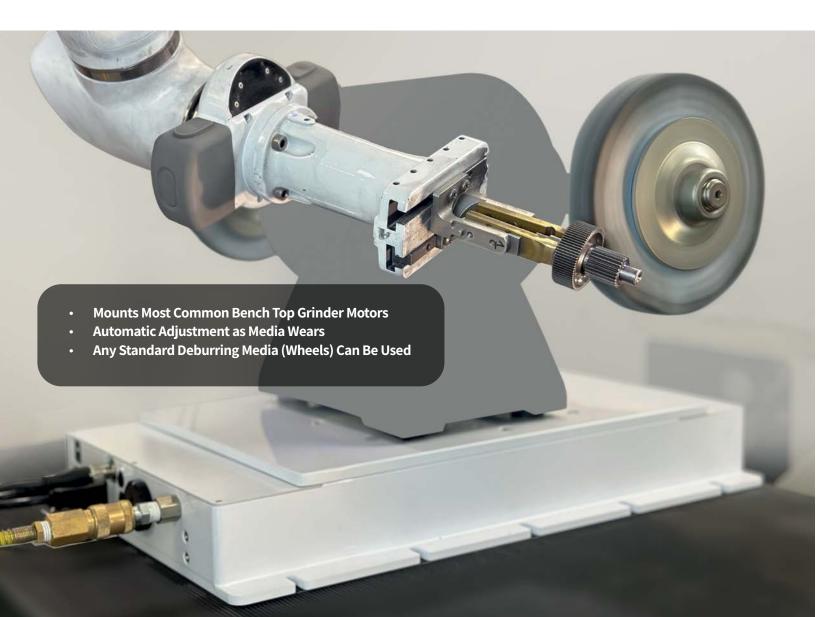
Use the control handle to physically teach OB7 robots without programming or learning any techie jargon. Set details on the Control Tablet with Productive Robotics' famous drag and drop display. Productive Robotics' "No Programming" system allows anyone to easily and quickly automate any shop task, regardless of robotics experience.

# DEBURRING PACKAGE

# AUTOMATE DEBURRING IN MINUTES

OB7 provides consistent, nonstop operation in your deburring operations. Begin work in minutes, re-allocate manpower and resources elsewhere and let OB7 run 24/7 if needed.

In operation, the Deburring Stage applies constant force to the part while the OB7 robot guides it along the deburring media. Constant force is maintained as the deburring wheels wear. The deburring motor is controlled by the OB7 robot.



#### PACKAGE INCLUDES

- OB7 Robot
- Controller & tablet
- Robot Stand
- 47" x 47" Work Table
- PG2 Parallel Programmable Electric Gripper
- Deburring Stage
- Robot Machine Interface
- All Necessary Cables

#### **TECHNICAL SPECIFICATIONS**

Force RangeAir Pressure0-14.9 lb0-60 psi

Max Supply Pressure 145 p
 Air Consumption (at max supply pressure) 4.4 L

Adjustment Range

Weight Capacity of Deburring Motor

Dimensions

Parts Weight Capacity

• **Deburring Force** adjustable from:

145 psi 4.4 L/min 50 mm (2")

332 mm x 594 mm x 73 mm

4 kg (dependent on gripper)

1.5 lb to 14.9 lb

22.6 kg (50 lbs)

OB7 picks unprocessed parts from grid stages and returns deburred parts to the grid when complete.

As the deburring wheels wear, the Deburring Stage adjusts automatically while continuing to apply a constant force as parts are processed. Multiple density deburring media can be installed for multi step deburring or doing different areas of a part with different media.

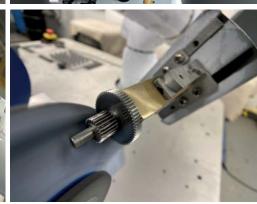












From simple to complex parts, OB7 robotic deburring removes inconsistency and drudgery.

Speed, number of passes, and over 360 degrees of rotation can all be applied with ease, and with 7 axis, OB7 can maneuver to suit more complex shapes.

Tight spots, gears and more are all quick to teach OB7. Simply show OB7 the number of passes through it's learning mode.

## **Technical Specifications**

Specifications subject to change without notice.











	ОВ7	OB7 Stretch	OB7 Max 16	OB7 Max 12	OB7 Max 8
Payload	5 kg (11 lbs)	4 kg (8.8 lbs)	16Kg (35.2 lbs)	12 kg (26 lbs)	8 kg (17 lbs)
Reach	1000 mm (39.3")	1250 mm (49.2")	1000 mm (39")	1300 mm (51.1")	1700 mm (66.9")
Weight	22 kg (58 lbs)	22 kg (58 lbs)	58 kg (128 lbs)	58 kg (127 lbs)	58 kg (128 lbs)
<b>Robot Mounting Flange</b>	220 mm (8.6")	220 mm (8.6")	250 mm (9.8")	250 mm (9.8")	250mm (9.8")
<b>Power Consumption</b> speed/payload dependent)	90—650 W	90—650 W	90—1,000 W	90—1,000 W	90—1,000 W

#### **All OB7 Robots**

Maneuverability Unmatched 7-Axis flexibility

**Programming** No programming. All OB7 robots learn by demonstration.

 Repeatability
 +/- 0.1 mm (.004")

 Speed
 0-2+ m/sec

 IP Class
 IP 61

Joint Ranges +/- 360° (all)

Gripper Mounting Flange ISO 9409-1-5 0-4-M6
Working Temperature 0-37C (32-100F)
Power Source 100-240 VAC 50-60 Hz
Safety Speed and Force Limited
Linear Speed 2 m/sec Max (dependent on position)

Noise Level Quiet (dependent on speed and payload)

Mounting Orientation Vertical (table/ceiling). Horizontal (wall).

**Cable Length** 1 meter, 5 meters (3 ft, 16 ft)

#### **Control Computer**

IP Rating IP 30

**Dimensions** 123 mm x 396 mm x 373 mm

(4.8" x 15.5" x 14.6")

**Communication (Hardware)** Ethernet 100 MB

Protocols Ethernet IP, TCP/IP, Modbus
Power 100-240 VAC 50-60 Hz

#### **Control Tablet**

IP Rating IP 41

**Dimensions** 292 mm x 213 mm (11.5" x 8.4")

ConnectionEthernet 100 MBCable5 meters (15 ft)

#### **Robot Stand**

**Base Dimensions** 780 mm x 597 mm (30.7" x 23.5")

**Robot Base Mounting** 882 mm (32.7") Height

**Weight** 73.5 kg (162 lbs)

Casters 4
Leveling Feet 4

**Mounting** Included for Control Computer

#### **Assembly Table**

**Dimensions** 702 mm x 902 mm (27.6" x 35.5")

Table Height 914 mm (36")

**Work Fixture Registration Holes** 6 mm on 100 mm centers (metric model)

1/4" on 4" centers

Work Fixture Hold Down Holes M6 on 100 mm centers (metric model)

1/4-20 on 4" centers

**Table Surface Material** 6061-T6 Anodized Aluminum

Weight 23 kg (51 lbs)

#### **General Equipment Interface**

**Robot Connection** Ethercat RJ45

Power Supply 24V 2A

**Digital Input Ports** 8 Optically Isolated

**Digital Output Ports** 8 Relay isolated, NC & NO

Analog Input Ports

**Dimensions** 253 mm x 125 mm x 37 mm

(10" x 5" x 1.5")

#### **PG2 Gripper/Dual Gripper**

**Tool Plate** Standard ISO Mount

Travel 92 mm

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

**Grip Range** 92 mm Extendable to 175 mm

 PG2 Gripper Weight
 1 kg (2.31 lbs)

 DUAL PG2 Gripper Weight
 2.1 kg (4.62 lbs)

#### **Deburring Stage**

 Force Range
 0-14.9 lb

 Air Pressure
 0-60 psi

 Max Supply Pressure
 145 psi

Air Consumption

(at max supply pressure)4.4 L/minAdjustment Range50 mm (2")

Weight Capacity of Deburring Motor 22.6 kg (50 lbs)

332 mm x 594 mm x 73 mm

Parts Weight Capacity 4 kg

(dependent on gripper)

**Dimensions** 

**Deburring Force** Adjustable From; 1.5 lb to 14.9 lb

## **Direct Factory Support**

Our Robotics Experts are here to help with all your questions.

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