AUTOMATING YOUR SUCCESS

ARI
OUR HISTORY

The latest edition to the Absolute Group of Companies, Absolute Robot, was founded on the same customer focused mindset that has allowed Absolute Machinery and Absolute Haitian to establish themselves as industry leaders. By providing our injection molding customer base with a quality and cost efficient solution to their automation needs, we continue to show that your success is our passion.

When Absolute Robot partnered with Well-Lih of Ningbo, China it allowed us to provide our North and Central American market a robot line that ranges from pneumatic pickers through to full servo robots that may be equipped on machines up to 3300 tons. This partnership allows Absolute Robot to provide the new and used machinery market with a quality automation solution while providing the valued level of support our customer base has grown to expect.
Absolute Robot’s reliable service engineers are ready to help all over the United States, Canada and Mexico. If you require maintenance and/or field services, we send specialists who are experienced and trained to repair your robot effectively and efficiently. Our service engineers have strong mechanical, electrical, electronic, hydraulic, and, most importantly, customer relation skills. They are committed to one mission: Your uptime.

For service requests please email: service@absoluterobot.com.

**Services We Provide:**
- Technical support / troubleshooting over the phone
- Scheduling for field service
- Robot start-up
- Preventive maintenance
- Calibration / settings tune-up
- Customized service contracts
- Robot repair
- Retrofits

**SERVICE BEYOND THE SALE**
SMALL SERVO

FEATURES

- 3 axis movement
- Patented fixed/moveable side mount
- Release or grip inside the mold area – defective parts can be dropped inside our outside the mold area or on a conveyor
- 2 vacuum 2 grip circuits standard
- C Axis 0-90° flip
- Beam carriage
- Large easy to read LED lights on all prox switches and vacuum sensors eliminate guesswork when troubleshooting
- Fully expandable I/O 4 inputs and 4 outputs standard
- 2 vacuum and 2 pressure standard expandable up to 16 to meet almost any application need
- Beam mounted control box saves valuable floor space
- Power requirements 220VAC 3 phase

### MAXA02
30-120 Tons

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<th>Model</th>
<th>Type</th>
<th>I M M Range</th>
<th>Stroke</th>
<th>Gripper Angle</th>
<th>Max Load</th>
<th>Drive System</th>
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FEATURES

- 3 axis movement
- Patented fixed/moveable side mount
- Release or grip inside the mold area – defective parts can be dropped inside our outside the mold area or on a conveyor
- 2 vacuum 2 grip circuits standard
- C Axis 0-90° flip
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- Beam mounted control box saves valuable floor space
- Power requirements 480VAC 3 phase

<table>
<thead>
<tr>
<th>Model</th>
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<th>I M M Range</th>
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<th>Gripper Angle</th>
<th>Max Load</th>
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**Model**

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SMALL SERVO

FEATURES

- 3 axis movement
- Patented fixed/moveable side mount
- Release or grip inside the mold area – defective parts can be dropped inside our outside the mold area or on a conveyor
- 2 vacuum 2 grip circuits standard
- C Axis 0-90° flip
- Beam carriage
- Large easy to read LED lights on all prox switches and vacuum sensors eliminate guesswork when troubleshooting
- Fully expandable I/O 4 inputs and 4 outputs standard
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<th>Working Air Pressure</th>
<th>Air Consumption</th>
<th>Power Consumption</th>
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<td>3.4</td>
<td>480 VAC 3 Phase 60 Hz</td>
<td>370</td>
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FEATURES

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FULL SERVO UP TO 1600 TON BOX CARRIAGE

FEATURES

• Size ranges from 320-1600 tons
• Payload capacity from 26 to 66 pounds
• Fixed full forward enclosed carriage strip axis frame suitable for machines with rear obstructions
• Reliable rigid design coupled with flexible software suppressed vibration ensures maximum acceleration with minimum vibration
• High precision linear guide system with hardened steel rails and Bosch Rexroth bearings
• Patented fixed/moveable side movement
• Release or grip inside the mold area – defective parts can be dropped inside or outside the mold area or on a conveyor
• 2 vacuum 2 grip circuits standard
• 4 spare input 4 spare outputs
• Bright LED lights on all prox switches and vacuum sensors eliminate guesswork when troubleshooting
• Telescoping vertical arm for low overhead ceiling clearance and faster cycle times
• Lube system standard with programmable auto-lube option
• Beam mounted control box saves valuable floor space
• C Axis 0-90° flip
• Box carriage
• Simple end of arm tool kit with vacuum cups: Included

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<tr>
<th>Model</th>
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<th>Range</th>
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**FULL SERVO UP TO 1600 TON BOX CARRIAGE**

### FEATURES
- Size ranges from 320-1600 tons
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- Lube system standard with programmable auto-lube option
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- C Axis 0-90º flip
- Box carriage
- Simple end of arm tool kit with vacuum cups: Included

### MAXBW10
500-800 Tons

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### MAXBW10-1500P Model Specifications

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FEATURES

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- Box carriage
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<th>I M M Range</th>
<th>Stroke</th>
<th>Gripper Angle</th>
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<th>Power Supply</th>
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FEATURES

- Size ranges from 320-1600 tons
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- Fixed full forward enclosed carriage strip axis frame suitable for machines with rear obstructions
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<th>Model</th>
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<th>Gripper Angle</th>
<th>Max Load</th>
<th>Drive System</th>
<th>Working Air Pressure</th>
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<th>Power Consumption</th>
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FULL SERVO UP TO 3300 TON OPEN CARRIAGE

**FEATURES**

- Reliable rigid design coupled with flexible software suppressed vibrations ensure maximum acceleration with minimum vibration
- High precision linear guide system with hardened steel rails and Bosch Rexroth bearings
- Moveable strip axis ensures removal of the tallest parts without obstruction
- Heavy duty rack and pinion gear drive on all three axis
- Patented fixed/moveable side movement
- Release or grip inside the mold area-defective parts can be dropped inside or outside the mold area or on a conveyor
- 2 vacuum 2 grip circuits standard
- 4 spare input 4 spare outputs
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- Beam mounted control box saves valuable floor space
- C Axis 0-90° flip
- Open carriage
- Simple end of arm tool kit with vacuum cups: Included

<table>
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<tr>
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FULL SERVO UP TO 3300 TON OPEN CARRIAGE

MAXCW15
650-1300 Tons

FEATURES

- Reliable rigid design coupled with flexible software suppressed vibrations ensure maximum acceleration with minimum vibration
- High precision linear guide system with hardened steel rails and Bosch Rexroth bearings
- Moveable strip axis ensures removal of the tallest parts without obstruction
- Heavy duty rack and pinion gear drive on all three axis
- Patented fixed/moveable side movement
- Release or grip inside the mold area-defective parts can be dropped inside or outside the mold area or on a conveyor
- 2 vacuum 2 grip circuits standard
- 4 spare input 4 spare outputs
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- C Axis 0-90° flip
- Open carriage
- Simple end of arm tool kit with vacuum cups: Included

<table>
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<tr>
<th>Model</th>
<th>Type</th>
<th>Range</th>
<th>Stroke</th>
<th>Gripper Angle</th>
<th>Max Load</th>
<th>Drive System</th>
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<td>AC Servo Motor</td>
<td>5-8</td>
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**FEATUES**

- Reliable rigid design coupled with flexible software suppressed vibrations ensure maximum acceleration with minimum vibration
- High precision linear guide system with hardened steel rails and Bosch Rexroth bearings
- Moveable strip axis ensures removal of the tallest parts without obstruction
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- C Axis 0-90° flip
- Open carriage
- Simple end of arm tool kit with vacuum cups: Included

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**MODEL**

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<tr>
<th>Model</th>
<th>Type</th>
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<th>Stroke</th>
<th>Gripper Angle</th>
<th>Max Load</th>
<th>Drive System</th>
<th>Working Air Pressure</th>
<th>Air Consumption</th>
<th>Power Consumption</th>
<th>Power Supply</th>
<th>Weight</th>
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<td>Vertical</td>
<td>1600-2400</td>
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**DIAGRAM**

---

**TABLE**

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FULL SERVO UP TO 3300 TON
OPEN CARRIAGE

FEATURES

- Reliable rigid design coupled with flexible software suppressed vibrations ensure maximum acceleration with minimum vibration
- High precision linear guide system with hardened steel rails and Bosch Rexroth bearings
- Moveable strip axis ensures removal of the tallest parts without obstruction
- Heavy duty rack and pinion gear drive on all three axis
- Patented fixed/moveable side movement
- Release or grip inside the mold area-defective parts can be dropped inside or outside the mold area or on a conveyor
- 2 vacuum 2 grip circuits standard
- 4 spare input 4 spare outputs
- Bright LED lights on all prox switches and vacuum sensors eliminate guesswork when troubleshooting
- Telescoping vertical arm for low overhead ceiling clearance and faster cycle times
- Lube system standard with programmable auto-lube option
- Beam mounted control box saves valuable floor space
- C Axis 0-90° flip
- Open carriage
- Simple end of arm tool kit with vacuum cups: Included

<table>
<thead>
<tr>
<th>Model</th>
<th>Type</th>
<th>I M M Range</th>
<th>Stroke</th>
<th>Gripper Angle</th>
<th>Max Load</th>
<th>Drive System</th>
<th>Working Air Pressure</th>
<th>Air Consumption</th>
<th>Power Consumption</th>
<th>Power Supply</th>
<th>Weight</th>
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FEATUERS

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<tr>
<th>Model</th>
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<th>Gripper Angle</th>
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<th>Air Consumption</th>
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<th>Power Supply</th>
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<td>5–8</td>
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<td>6.7</td>
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<td>2360</td>
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## FEATURES

- Simple swing adjustment between 50-90°
- Easy changeover between operator or non-operator side
- Dual rail strip axis allows for fast and stable movement with low vibration
- Linear vertical rails with Bosch Rexroth bearings ensure smooth operation
- Sprue grip with unique pressure differential detection switch eliminates verification switch adjustment
- Easy to read bright red LED’s for machine interface and position proximity switches eliminate troubleshooting guesswork
- Locking cylinder prevents the main arm from drifting into the mold area in the event of pressurized air loss
- Large shock absorber for arm descent
- Pivoting base allows for easy mold changes
- Four second dry cycle time
- Vacuum circuit with confirmation: Included
- Simple end of arm tool kit with vacuum cups: Included
- Arm slow down on descent

### Model Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>Type</th>
<th>I M M Range</th>
<th>Stroke</th>
<th>Gripper Angle</th>
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<th>Power Consumption</th>
<th>Power Supply</th>
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### Model Dimensions

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PNEUMATIC PICKERS

FEATURES

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• Easy changeover between operator or non-operator side
• Dual rail strip axis allows for fast and stable movement with low vibration
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• Pivoting base allows for easy mold changes
• Four second dry cycle time
• Vacuum circuit with confirmation: Included
• Simple end of arm tool kit with vacuum cups: Included
• Telescoping main arm for faster cycle times and low ceiling requirements
• Arm slow down on descent

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<tr>
<th>Model</th>
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Absolute Robot offer special configurations for applications that require a unique automation need. Each special configuration robot is manufactured on an as-needed basis and will have a slightly longer lead time.

Please ask your Absolute Robot rep for more details.

**OFFERING:**
- Inline
- Dual Arm
- 5-Axis
- Extended Traverse
- Side Entry
- In-Mold Labeling
TOUCH SCREEN CONTROLLER

FULL SERVO CONTROLLER

FEATURES

• Open software based touch screen controller
• Create any unique motion sequence at the pendant without the need for factory assistance, special programming or off-line software
• Large storage space
• Simple uploading and downloading of programs with a standard USB stick
• Lightweight, easy to operate handheld controller
• Bright colorful split screen to show simple line by line programs on the left and programming information on the right
• Free edit mode
• 3 axis synchronized movement

House Screen

Teach Screen

Stacking/Indexing

On-the-Fly Changes