Columbus JACK / Regent

“The Strength of Experience”

Bead Breakers
Bead Breakers

• Six models provide breaking capability for all aircraft models, both fixed and rotary wing.

• Breaking capacities from 2,000 lb to 60,000 lb (907 to 27,216 kg).

• No tire lifting required by the operator.
# Bead Breakers

<table>
<thead>
<tr>
<th>MODEL NUMBER</th>
<th>BREAKING CAPACITY (Lbs/kg)</th>
<th>RIM DIAMETER RANGE MIN - MAX (Inches/mm)</th>
<th>TIRE WIDTH CAPACITY (Inches/mm)</th>
<th>OVERALL DIMENSIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>5033-010</td>
<td>2,000</td>
<td>6.0 - 16.0</td>
<td>11.0</td>
<td>LENGTH 889, WIDTH 851, HEIGHT 330</td>
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<tr>
<td></td>
<td>907</td>
<td>152 - 406</td>
<td>279</td>
<td></td>
</tr>
<tr>
<td>5372-010</td>
<td>2,000</td>
<td>6.0 - 16.0</td>
<td>9.0</td>
<td>LENGTH 1,016, WIDTH 50.0, HEIGHT 13.25</td>
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<tr>
<td></td>
<td>907</td>
<td>152 - 406</td>
<td>229</td>
<td></td>
</tr>
<tr>
<td>9470-011</td>
<td>12,000</td>
<td>7.0 - 21.0</td>
<td>16.5</td>
<td>LENGTH 1,168, WIDTH 1,067, HEIGHT 330</td>
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<td></td>
<td>5,443</td>
<td>178 - 533</td>
<td>419</td>
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<tr>
<td>715J1000</td>
<td>25,200</td>
<td>16.75 - 35.0</td>
<td>28.0</td>
<td>LENGTH 1,351, WIDTH 1,753, HEIGHT 889</td>
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<td></td>
<td>11,431</td>
<td>426 - 889</td>
<td>711</td>
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<tr>
<td>7003-020</td>
<td>35,000</td>
<td>12.5 - 32.5</td>
<td>26.0</td>
<td>LENGTH 1,468, WIDTH 2,453, HEIGHT 762</td>
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<td>15,876</td>
<td>318 - 826</td>
<td>660</td>
<td></td>
</tr>
<tr>
<td>9323-020</td>
<td>60,000</td>
<td>12.0 - 40.0</td>
<td>22.0</td>
<td>LENGTH 1,524, WIDTH 2,794, HEIGHT 787</td>
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<tr>
<td></td>
<td>27,216</td>
<td>305 - 1,016</td>
<td>559</td>
<td></td>
</tr>
</tbody>
</table>
• Place tire on rollers.

• Adjust jaws to contact tire close to rim.

• Actuate foot pump to close jaws and break tire bead from rim.
Models 5033-010 & 5372-010

- Depress foot release pedal to retract jaws.

- Rotate tire on rollers and repeat until bead is broken completely from rim.

- For use on small tire assemblies (military fighters, helicopters and small nose wheels of commercial aircraft).
Models 5033-011 & 5372-011

With Air Pump Option
Model 9470-011

- Manually adjustable jaws fit multiple tire diameters.
- Dual mode unit:
  - Normal breaking of tire beads.
  - Special designed jaws allow for disassembly and assembly of split rim wheels.
- For use on commuter and other small tire applications.
Model 9470-011

- Manually Adjustable Spyder
- Adjustable Fingers
- Breaking Cylinder
- Hydraulic Tire Lift
- Wheel Ramp

Includes Separate Hydraulic Supply Not Shown.

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Model 9470-011

• To Operate:
  – Manually adjust jaws to clear rim diameter by 1-2 inches (25-50 mm).
  – Roll tire onto lift and lift tire until center of tire aligns with center of spyders, making sure jaws clear diameter or rim.
  – Manually adjust left spyder until jaws rest on sidewall of tire.
  – Operate breaking cylinder until tire bead is broken from rim.
Model 715J1000

- Manually adjustable jaws fit multiple tire diameters.
- 25,200 lb (11,431 kg) capacity provides breaking capability for all aircraft models, both fixed and rotary wing.
- Frame lifts to align with center of tire.
- Air or explosion proof electrically operated.
Model 715J1000

- Manually Adjustable Jaws
- Breaking Cylinder
- Manually Adjustable Spyder
- Foot Operated Control

© Columbus JACK Corp. 2013
Model 715J1000

• To Operate:
  – Manually adjust jaws to clear rim diameter by 1-2 inches (25-50 mm).
  – Roll tire into center of bead breaker.
  – Raise bead breaker until center of tire aligns with center of spyders, making sure jaws clear diameter or rim.
  – Manually adjust left spyder until jaws rest on sidewall of tire.
  – Operate breaking cylinder until tire bead is broken from rim.
Model 7003-020

- Manually adjustable jaws fit multiple tire diameters.
- 35,000 lb (15,876 kg) capacity provides breaking capability for all aircraft models, both fixed and rotary wing.
- Frame lifts to align with center of tire.
- Removable ramp for use on small diameter tires.
- Air or electrically operated.
Model 7003-020

Wheel Ramp Stowed

Manually Adjustable Jaws

Breaking Cylinder

Manually Adjustable Spyder
**Model 7003-020**

- To Operate:
  - Manually adjust jaws to clear rim diameter by 1-2 inches (25-50 mm).
  - Roll tire into center of bead breaker.
  - Raise bead breaker until center of tire aligns with center of spyders, making sure jaws clear diameter or rim.
  - Manually adjust left spyder until jaws rest on sidewall of tire.
  - Operate breaking cylinder until tire bead is broken from rim.
Model 9323-020

- Manually adjustable jaws fit multiple tire diameters.
- 60,000 lb (27,216 kg) capacity provides high production breaking capability for all aircraft models, both fixed and rotary wing with dual breaking cylinders.
- Frame lifts to align with center of tire.
- Removable ramp for use on small diameter tires.
- Electrically operated.
Model 9323-020

Manually Adjustable Jaws

Breaking Cylinder Each Side

Wheel Ramp

Separate Electrically Driven Hydraulic Power Supply Not Shown.
Model 9323-020

• To Operate:
  – Manually adjust jaws to clear rim diameter by 1-2 inches (25-50 mm).
  – Roll tire into center of bead breaker.
  – Raise bead breaker until center of tire aligns with center of spyders, making sure jaws clear diameter or rim.
  – Operate breaking cylinders until tire bead is broken from rim.
Model 7094-010

- Custom designed for F-16 Block 40 and later aircraft.
- Dual mode unit:
  - Breaking of tire bead.
  - Special designed jaws allow for disassembly and assembly of split rim wheel.
- Frame lifts to align with center of tire.
- Air operated.
Model 7094-010

Custom Designed Support Shaft
Mounts Wheel Hub

Custom Designed Two-Position
Jaws For Assy. & Dis-assy. Of
Split Rim

Breaking Cylinder
Columbus JACK/Regent

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