APPLICATIONS
Achieve all the benefits of handling wider loads in your manufacturing and distribution operation with Cascade’s J-Series Double Wide Carton Clamps. Allowing efficient handling of a wide range of low-, medium- and high-density products including consumer paper products, appliances, consumer electronics, wine, packaged foods (canned or boxed), chemicals and plastics.

FEATURES
- Industry-leading visibility.
- Efficient hydraulic system which minimizes energy consumption and maximizes performance.
  - Clamp and backhand protection.
  - Flow divider for equal arm movement.
  - Top-mounted hydraulic cartridges and test port for ease of access and adjustment.
  - Sideshift circuit relief optimizes sideshift speed and performance.
- Rugged design for optimal strength, durability and performance.
  - High strength steel frame.
  - Lubrication-free, full length UHMW bearings.
  - High strength steel castings.
  - Maximum clamp force for secure handling.
- Efficient arm design.
  - Thin arm profile for manipulating tight loads between stacks.
  - Rubber-faced aluminum contact pads for secure handling of loads.
- Designed for convenience and performance.
  - Integrated true centering key for precise and secure installation.
  - Available in two pressure offerings to match attachment to truck hydraulic system.

OPTIONS
- Custom opening ranges and frame widths.
- Custom arm lengths, heights and pad surfaces. Application-specific contact pads (sizes & surfaces).
- Pallet strips on contact pads for pallet handling.
- Frame bumper for extra protection when handling loose loads.
- Various ISO mounting options including class III and quick-disconnect features.
- Independent arm control.
- Regenerative valve for increased arm speed on low flow electric trucks.
- External sideshift available.
- Alternate valve configurations for left hand or right hand third and fourth function hydraulic installation.
- Application-specific customization.

DAMAGE REDUCTION OPTIONS:
- Load cushion™
- Tilt control.
- Four-point tester.
- Touch Force Control – TFC™
Class II Bolt-On mounting is standard. Class III mounting is available (see page 7-1). Minimum truck carriage width equals hook spread (E). Quick Disconnect option available at no charge.

Published opening range limits are nominal clamp dimensions only and clamp may not accommodate loads with same or similar dimension. Consult Cascade for further assistance.

Front lower leading edge pad wear can be addressed by periodic replacement of the factory installed wear tiles. Contact Cascade Parts Department at 888-CASCADE (227-2233) for service kits. Cascade recommends using tilt control with all Carton Clamps.

External Sideshift Available: Consult Cascade
Class 2 External sideshift = ET + 25 mm (1.0")
Class 3 External sideshift = ET + 38 mm (1.5")

Hydraulic Flow & Pressure – Hydraulic Functions

<table>
<thead>
<tr>
<th>Model</th>
<th>Maximum Attachment Operating Pressure psi/bar</th>
<th>Maximum Deliverable Truck Pressure psi/bar</th>
<th>Attachment Pressure Protected Yes/No?</th>
<th>Min-Rec-Max Function 3 (sideshift) gpm</th>
<th>Min-Rec-Max Function 4 (clamp) gpm</th>
<th>Attachment Number of Functions</th>
<th>Truck Auxiliary Valves Required</th>
</tr>
</thead>
<tbody>
<tr>
<td>14J CCD</td>
<td>2,250/155</td>
<td>2,760/190</td>
<td>Yes</td>
<td>1-5-10</td>
<td>5-12-16</td>
<td>2</td>
<td>2</td>
</tr>
</tbody>
</table>

If the maximum deliverable truck pressure exceeds maximum clamp or rotate operating pressure and the attachment is not pressure protected, then auxiliary pressure protection is required.