1. **Tandem Stanchions**: When two or more Heavy Duty Rack Stanchions are used in tandem, an arm can jump the joint between the stanchions, i.e., the upper hook of an arm can engage the bottom rectangular hole in the upper stanchion while the lower hook in the same arm engages the top rectangular hole in the lower stanchion. (See Figure 1)

2. **Arm Locks**: The Heavy Duty Stanchion incorporates a friction lock that secures the arms in the stanchions. The friction lock works well for applications that have little upward force on the arm. A positive lock, catalog number HDL, is available. The HDL lock should be used in applications where there is upward force on the arms. The HDL lock can be used with all Heavy Duty Rack Arms.

   The HDL lock is installed as follows:
   
   A) Place the lock on the arm with the locking barbs facing up. (See Figure 2)
   B) Push the lock into the rectangular hole in the stanchion.
   C) When the stop flanges on the lock hit the stanchion, the lock will click into place. (See Figure 3)

   The HDL lock can be removed as follows:
   
   A) Push down on the upper surface of the lock.
   B) Pull the lock out of the stanchion. (See Figure 4)
3. **Cable Tie Slots:** Cable tie slots are located on the right rear of the stanchion. These cable tie slots may be used to secure small cables to the stanchion without the need for an arm (See Figure 5). The cable tie slots may also be used to lock an arm in place (See Figure 6).

![Figure 5: Chain cable ties to secure a small cable.](image1)

![Figure 6: A cable tie being used as an arm lock.](image2)

4. **Mounting Holes:** The stanchions have the number of elongated mounting holes necessary for proper stanchion installation. It is imperative that a fastener set is installed in every elongated stanchion hole. (See Figure 7)

![Figure 7: Location of mounting holes.](image3)

5. **Installation Details:** Complete installation instructions and drawings are available at [www.udevices.com](http://www.udevices.com).

6. **Arm Engagement:** There are rectangular frames molded on the front face of the stanchions that can be used to visually determine if an arm is fully seated. When the top surface of an arm is aligned with the top of the corresponding stanchion frame, the arm is fully seated. (See Figure 8)

![Figure 8: Arm engagement.](image4)
7. **Heavy Duty Rack Components:** Currently there are nine (9) stanchions and ten (10) arms of varying lengths and configurations, as well as drop-in and cast-in-place mounting hardware components available for the Heavy Duty Nonmetallic Cable Rack family. These component parts are shown at www.udevices.com and in the UDI Heavy Duty Cable Rack brochure.

8. **Field Cutting:** Stanchions may be field cut to selected lengths with a carbide tipped cut-off saw. Field cuts should only be made at the frame breaks molded onto the front face of the stanchion as shown in Figure 9. Lengths that can be cut from stock stanchions are shown in Table 1.

<table>
<thead>
<tr>
<th>MAKE FROM</th>
<th>MAKE INTO</th>
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<tbody>
<tr>
<td>CATALOG NUMBER</td>
<td>LENGTH</td>
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<tr>
<td>CR16-B</td>
<td>16&quot;</td>
</tr>
<tr>
<td>CR20-B</td>
<td>20&quot;</td>
</tr>
<tr>
<td>CR24-B</td>
<td>24&quot;</td>
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<tr>
<td></td>
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</tr>
<tr>
<td>CR28-B</td>
<td>28&quot;</td>
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<td>36&quot;</td>
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<td>44&quot;</td>
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Figure 9: Stanchions may be field cut at frame breaks.

9. **Samples:** FREE SAMPLES of Heavy Duty Rack components may be obtained by emailing samples@udevices.com or by calling a UDI Sales Engineer at 800-800-2118.

10. **Custom Drawings and Data:** UDI will provide custom ACAD and pdf drawings and guide specifications of Heavy Duty Rack components to power and communications engineers and consulting engineers for inclusion in their standards and specifications. Contact a UDI Sales Engineer at 800-800-2118.