82M and TCC Series

Enclosed Power Clamps

Destaco Power Clamps are designed to meet the rigorous requirements of automotive and sheet metal processing applications, while lasting millions of cycles.

The 82M Series Power Clamps are built to withstand the harshest of manufacturing environments and designed to deliver superior clamping power with unparalleled flexibility.

The TCC Series adds greater flexibility by offering tolerance compensation, allowing the clamp to self adjust within three degrees of clamp arm moving without the need to use shims.

When it comes to holding and positioning workpieces perfectly in place, look no further than Destaco’s most flexible and complete family of enclosed power clamps to get the job done.

Product Highlights/Options

- Field adjustable arm opening angle
- Enclosed aluminum body
- Optional U-Arms and lateral arms available
- Available optional hand lever (82M-3E only)

Features, Markets and Applications

<table>
<thead>
<tr>
<th>Feature</th>
<th>Application</th>
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</thead>
<tbody>
<tr>
<td>LOW/NO MAINTENANCE</td>
<td>AUTOMOTIVE</td>
</tr>
<tr>
<td>PERFORMANCE</td>
<td>INDUSTRIAL</td>
</tr>
<tr>
<td>INTERCHANGEABLE</td>
<td>AEROSTRUCTURE</td>
</tr>
<tr>
<td>LANG</td>
<td>CONSUMER GOODS</td>
</tr>
</tbody>
</table>

- Easily adjust arm opening angle with one tool
- Hand lever is adjustable for better ergonomics
- Optional cylinders provides safe holding capabilities
- Infinite arm opening adjustment (up to 135°)
- Manual unlocking in case of air pressure loss
- Internal hold open device is available for safe opening operation
- Multiple mounting surfaces provide greater flexibility
- Conform to NAAMS and Euro mounting standards
- 40mm “B” mount shares same mount pattern as 50 and 63mm

Dimensions and technical information are subject to change without notice.
82M AND TCC SERIES

Enclosed Power Clamps  | Models

82M Series Enclosed Power Clamp

Shown with optional U-Arms and Cylinders with Internal Hold Open Device

- Tolerance compensation for variable part thicknesses within three degrees of arm movement
- There is no need for shimming

TCC Tolerance Compensating Power Clamp

Shown with optional U-Arms and Cylinders with Internal Hold Open Device

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<table>
<thead>
<tr>
<th>Size</th>
<th>Max Holding Torque</th>
<th>Max Clamping Torque</th>
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</thead>
<tbody>
<tr>
<td>80mm</td>
<td>3000 Nm</td>
<td>850 Nm at 5bar</td>
</tr>
<tr>
<td>63mm</td>
<td>1800 Nm</td>
<td>420 Nm at 5bar</td>
</tr>
<tr>
<td>50mm</td>
<td>1300 Nm</td>
<td>270 Nm at 5bar</td>
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<tr>
<td>40mm</td>
<td>880 Nm</td>
<td>120 Nm at 5bar</td>
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</tbody>
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<tr>
<th>Size</th>
<th>Max Holding Torque</th>
<th>Max Clamping Torque</th>
</tr>
</thead>
<tbody>
<tr>
<td>63mm</td>
<td>295 Nm</td>
<td>175 Nm at 5bar</td>
</tr>
<tr>
<td>50mm</td>
<td>175 Nm</td>
<td>175 Nm at 5bar</td>
</tr>
<tr>
<td>40mm</td>
<td>85 Nm</td>
<td>85 Nm at 5bar</td>
</tr>
</tbody>
</table>

“B” Front Mount available for 82M and TCC size 40mm

Same mounting pattern as size 50 and 63mm

NAAMS Lateral Mounting available on 82M and TCC in addition to narrow, wide and NAAMS Clamp Arm Shafts
Adjusting the Arm Opening Angle

Easily adjust arm opening angle with an M5 Allen wrench.
• Move clamp arm to full open position.
• Using Allen wrench, release mechanism (leave Allen wrench in place).
• Move clamp arm to desired opening.
• Tighten to 20 Nm.

Cylinder Options

Standard Cylinder
Available for 82M and TCC Series Clamps

Cylinder with Internal Hold Open Device
Securely holds clamp in the open position
Available for 82M and TCC Series Clamps

Cylinder with Unlock-able Return Valve
Pneumatically holds clamp arm in the closed position when air is released
Only available for TCC Series Clamps

Cylinder with Rod Locking Device
Uses friction to clamp rod at any point between open and closed positions
Enclosed Power Clamp Hand Lever (82M-3E Models Only)

Standard Adjustable Hand Lever

- Hand lever position can be adjusted 20° up or down
- Hand lever position is adjustable for improved ergonomics
- Handle can be mounted on the left or right side

Weldable Hand Lever

- Hand lever can be welded into a permanent position.
- Handle can be mounted on the left or right side

Clamping Arms Options (Ordered Separately)

- U-type arms can be mounted in 90° or 180° clamping position
- Lateral arms can be mounted in 90°, 180°, and 270° clamping position
- Lateral arms can be mounted on the right or left side
- Lateral arms can be mounted inverted for reversed clamping operation

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