

# 6-Jaw Top-Loading Short Crimper Model GQD



Blockwise Engineering, LLC  
<http://www.blockwise.com>

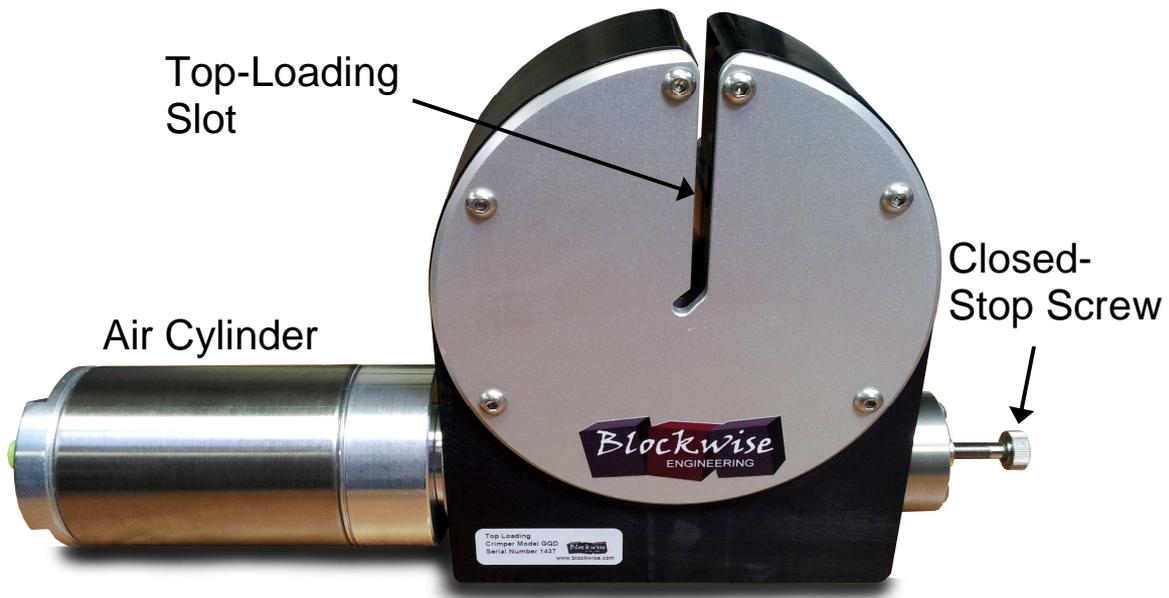
The **Blockwise Top-Loading Crimper** (patented) is a 6-jaw radial compression mechanism with a slot that allows the parts to be loaded radially. The slot opens automatically as the crimper is actuated beyond the fully-open position. The crimper is used to radially compress parts such as marker bands, electrical or mechanical ferrules, or steel tubing or bands as part of an assembly process. Parts are formed into a hexagonal shape by the 6 jaws. Compared to collet crimpers, the Blockwise top-loading short crimpers cover a wide diameter range without tooling changes and provide a crimp with less flash. The mechanism uses Blockwise "Zero-G™" technology, eliminating gaps between the dies.

We define a "short crimper" as one with short working length (typically less than 10 mm), while a "stent crimper" has a longer working length, and typically also more dies.



Because the length of the dies is only 6.4 mm (0.25 inch) on the model GPC, the compression force is concentrated in a small area and the pressures can be high. Dies are made from hardened stainless steel. The mechanism provides a precise center opening even at very small diameters.

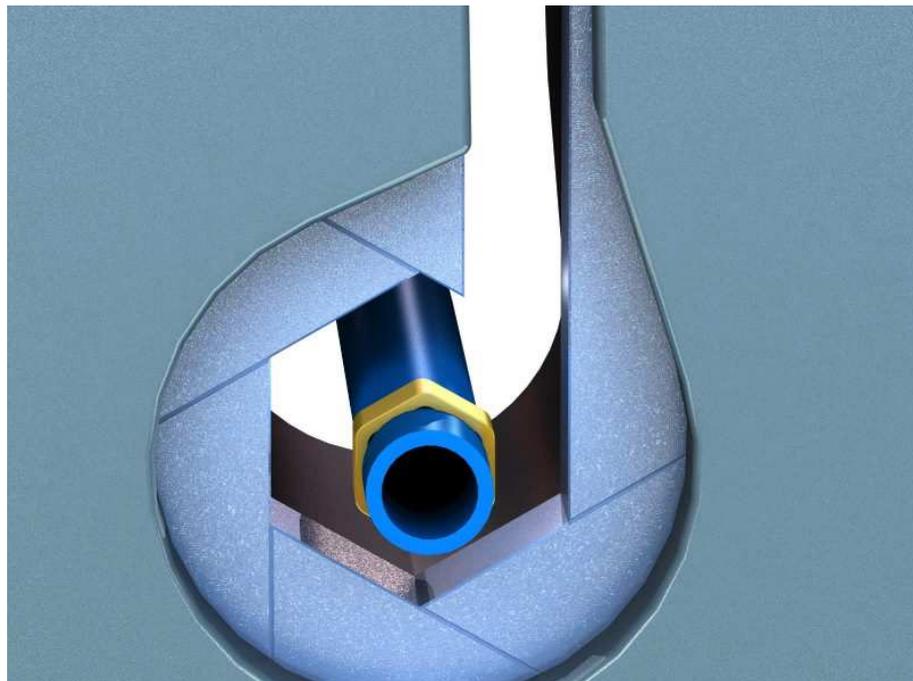
The model GQD is an air-actuated crimper that includes an air cylinder. The crimper may be diameter-controlled using the closed-stop screw, or force-controlled using a pressure regulator and gage. The customer should provide a pneumatic valve to open and close the mechanism, and adjustable orifices to limit the closing and opening speed.



Special versions of the Blockwise short crimper are available such as: bare mechanisms for incorporation into your equipment, or special automated machines with extra fixturing such as depth stops for product insertion.

**Specifications:**

|                       |                             |
|-----------------------|-----------------------------|
| Die Length:           | 6.3 mm (0.25 inch)          |
| Diameter Range:       | 0 to 6.0 mm                 |
| Top Load Slot Width   | 5 mm                        |
| Number of Dies:       | 6                           |
| Die Material:         | Hardened Stainless Steel    |
| Maximum Radial Force: | 3500 N (790 lbf)            |
| Service Connections:  | Compressed air 5 to 8.5 bar |



To increase the pressure applied to the product, the dies may be ground to a customer-specified working length. This is sometimes used to place a short, hexagonal crimp on a longer, round hypotube.

