

# J-Crimp for Radial Force Testing



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

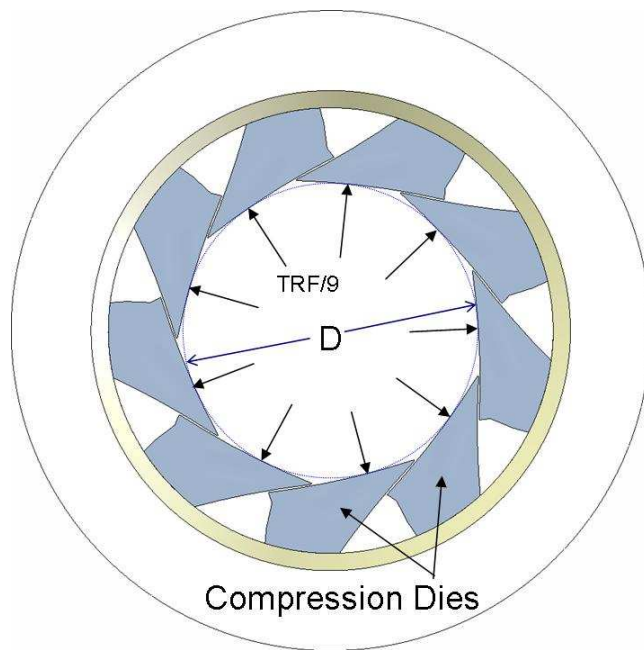
The Blockwise **J-Crimp Radial Compression Station** can easily be used with your tensile testing machine to measure the total radial force versus diameter of your devices.

J-Crimp radial compression station, used with a tensile testing machine, can control and vary the diameter of a cylindrical object such as a stent, and simultaneously measure the radially outward force of the object.

With the object placed in the cylindrical opening in the compression station, the tensile testing machine controls the position of its head and measures the force applied to the head. With simple equations that we provide, this is equivalent to controlling the diameter of the opening and measuring the radial force applied to the compression dies by the object being tested.

The adapter includes a force-limiting clip that prevents accidental damage to the compression station.

Diameter (D) is defined as the diameter of a circle tangent to the faces of the nine dies. Total radial force (TRF) is defined as the sum of the forces on the nine dies applied by the object in the station, assuming that the force is applied at the point of tangency of the circle. Simple equations may be used to readily convert from total radial force to hoop force or pressure.



J-Crimp Station Diameter Range	0.5 to 16mm
Working Lengths Available	62 mm or 124 mm
Temperature range	10 to 150°C
Maximum total radial force	150 lbf (higher force available)
Maximum linear force applied to arm	55 lbf (force limiter is included)
Typical Friction of Empty Compression Station	+/- 0.1 N of total radial force