

# Zero-G Compression Station Model RZD & RZE



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

Blockwise's Zero-G™ (patent pending) radial compression station is sold independently for incorporation into your equipment. The Zero-G™ mechanism provides a wide diameter range with no gaps between the dies. The compression stations are available with either a pneumatic actuator or a stepper motor with position feedback.

Model RZD has pneumatic actuation cylinder mounted to the compression station. There is a mechanical closed-diameter stop screw with fine adjustment.

Model RZE has a rotor-nut stepper motor with an integrated encoder for precise control of the compression diameter. The motor has a built-in drive and motion controller. The actuator force is measured by a transducer with high-level output. The compression head ships with cabling providing RS-485 connectivity to the motor. Mating panel mount connectors are provided for all electrical connections.

Zero-G™ Compression Station  
Model RZE Shown With  
62mm Length



Available **Options** include:

**Compression Force Transducer**, measures actuator force with built-in signal conditioning and a .5 to 4.5 volt output.

**Digital Readout of Opening Diameter** by a dial indicator.

**Specifications:**

Compression Station Opening Diameter Range	0 to 31.0 mm
Die Lengths Available:	62 mm, 124 mm, 225 mm, 300 mm
Die Material	Ertalyte TX (PET with flouropolymer lubricant)
Die-to-Die Gap	Zero at all opening diameters
Die Heating	Not available
Maximum Total Radial Force Available	1200 N (270 lbf)
Number of Compression Dies	12
Station Dimensions	203 mm deep x 290 mm high, 53 mm+Die Length width



Zero-G™ Compression Station  
Model RZD Shown With  
62mm Length, Compression Force  
Transducer, Digital Readout of  
Opening Diameter