

Twin-Cam™ Compression Station Model RTD & RTE



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

Blockwise's Twin-Cam™ (patent pending) radial compression station is sold independently for incorporation into your equipment. The Twin-Cam™ mechanism provides a wide diameter range with minimized gaps between the dies. The compression stations are available with either a pneumatic actuator or a stepper motor with integrated motion controller and drive.

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

Model RTE 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.



Twin-Cam™ Compression Station
Model RTE Shown with 124mm Length

Available **Options** include:

Compression Force Transducer, measures actuator force with built-in signal conditioning and a .5 to 4.5 volt output (Standard on RTE).

Digital Readout of Opening Diameter by a dial indicator (RTD only).

Heaters and Temperature Sensor – station is wired for used with your temperature control system; includes cartridge heaters, temperature sensor, and over-temperature switch installed in the dies, and electrical connector for compression station.

Specifications:

Compression Station Opening Diameter Range	0 to 30.0 mm
Die Lengths Available:	62 - 310 mm, (in 62 mm increments)
Die Material	Hardened Stainless Steel
Die-to-Die Gap	Approx. .07 mm to .09 mm (0.0026" to 0.0035")
Die Heating Temperature Range (Optional)	Room temperature-100° C
Maximum Total Radial Force Available	1460 N (330 lbf)
Number of Compression Dies	10
Station Dimensions	210 mm deep x 375 mm high, (54 mm + die length) width