Blockwise Engineering
Model RSS “Squeeze Buddy”
Molded Crimping Tool

Leading-Edge Equipment for Catheter, Balloon, Stent, and Heart Valve Makers

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The Blockwise Model RSS “Squeeze Buddy” Molded Crimping Tool is sized for crimping of prosthetic heart valves, but is suitable for many other applications. Model RSS provides high crimping forces, with plastic dies, simple hand-crank operation, and a low price. Almost all parts are made of injection molded plastic. It is suitable as a single-use, disposable crimper. Large discounts are available for high-quantity orders.

There are four products in the Molded Crimper product line:

“Squeeze Buddy” is a crimper with almost all parts made of injection molded plastic. It is suitable as a single-use, disposable crimper. It uses the same molded POM/PTFE dies as the Press Pal, and has the same function and specifications: Maximum diameter is 36 mm; working length is 50 mm; radial force capability is about 3000 N. We have molded dies in stock, but the molds are currently being developed for the other parts. The price for the Squeeze Buddy could be very low for high-quantity purchases. For high-quantity orders, we may offer variations with customer-specified minimum closing diameters.

Model RKS “Press Pal” is a crimper with the same injection-molded dies, same size, and performance as RSS. Besides the dies, RKS is made by CNC machining (aluminum and plastic) and by 3D printing (nylon material). With special tooling and training, the dies are replaceable.

Model RKSS “Autoclavable Press Pal” Similar to RKS, using stainless steel and polysulfone plastic (except for the dies) to help the crimper withstand steam sterilization.

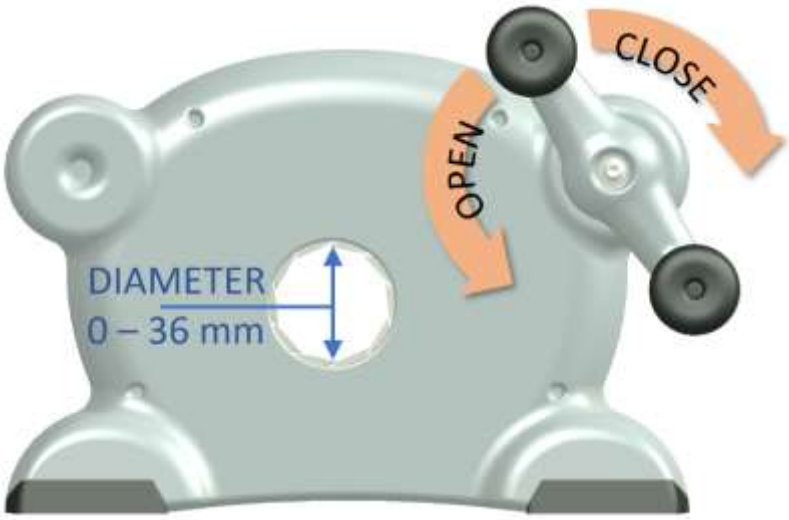
Model TQP “Torque Buddy” machine module allows the RSS, RKS, or RKSS crimping tools to be electrically actuated and controlled by the Blockwise model CX crimping machine base, providing better process control. The model CX crimping machine base allows the user to create a sequence of process steps that control the diameter or crimping force.
machine module provides a torque-controlled input to a crimper from an electric motor, instead of a hand crank, providing better process control.

Specifications:

Compression Station Diameter	0 - 36 mm (appx)
Die Length	50 mm
Maximum Total Radial Force Available	2700 N
Number of Compression Dies	10
Die Material	POM plastic blended with PTFE lubricant
Compression Station Actuation Power	Hand Crank *(standard),* Torque Wrench *(optional),* Stepper Motor *(optional)*
Die Heating Temperature Range	Not heated
Machine Dimensions	Appx. 25 cm x 16cm x 12 cm

The radial force applied to the specimen is about 66 times the total force applied to the knobs. For example, if 5 N is applied to both knobs simultaneously, then the total knob force is 10 N, and the resulting radial force is about 660 N. At the 40 N rated force input limit, the resulting radial force is about 2700 N.

A ratchet mechanism allows the crank to rotate in the closing direction, but not in the opening direction. The ratchet is engaged by moving the black toggle on the side of the crimping tool.



Optional Torque Wrench Adapter

Model TQP "Torque Buddy" mounted on Crimping Machine Base