

Swager Models SFA and SFB



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

The Blockwise band swaging machines models SFA (standard) and SFB (high-force) are designed to swage metal bands onto plastic tubes. Swaging is defined as shaping a material by forging or squeezing. The machine uses a rotating die with a round opening to reduce the diameter of the metal band while keeping it round with a fine surface finish. These machines do not position or pre-crimp the bands.

Model SFA (standard) is typically used for soft precious-metal radiopaque marker bands, while model SFB (high force) is typically used for strong stainless steel bands.

Both machines are very productive because they have a fixed swaging frequency that exceeds competitive machines by a factor of three. The proprietary, flexure-based die is designed to fully close with every blow. By eliminating swaging frequency as a process setting, setup is simplified and swaged band diameters are incredibly consistent. The machine is very simple to set up and use, and the flexure-based die is much cleaner than competing mechanisms with sliding die segments.

Shortest Process Time Model SFA swages at 100 Hz with no drop in force. Model SFB swages at 73 Hz with 300 lbs force nominally.

Most Consistent Band Diameter Because the die fully closes on every blow, the diameter depends only on die geometry, not on any "force" or "pressure" settings, resulting in extremely low diameter variability.

Excellent Surface Finish Continuous 360 degree die rotation at 500 rpm for excellent band surface finish.

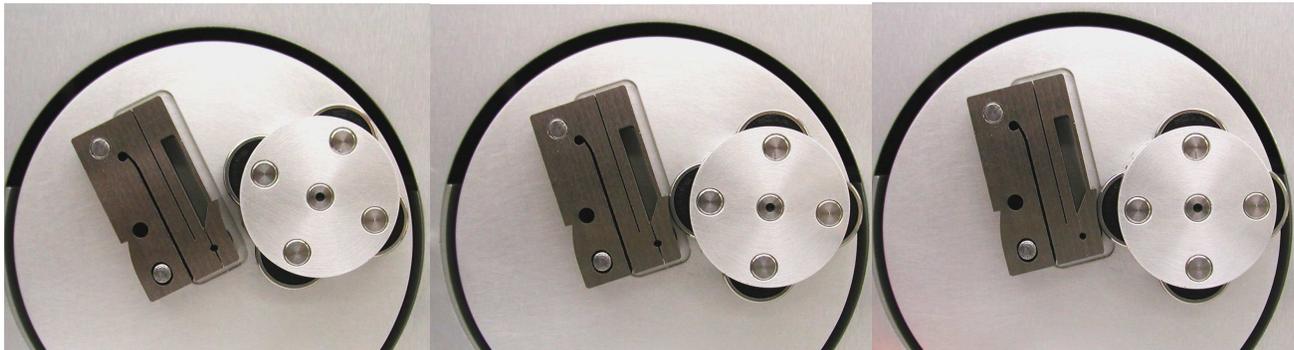
Compact design 2' wide by 1' deep.

Ergonomic Product loaded just above level of worktop.

Quick Adjustments Easy to read dials, head cover with no hardware, easily changed die.

Automatic feed Product fed into head at user-defined speed and distance.

Clean room ready



Specifications:

Size Range	.018" - .157"
Swaging frequency, Model SFA	100hz
Swaging frequency, Model SFB	73hz with 300 lbs force nominally
Automatic feed	up to 150mm
Machine Foot Print	1' deep x 2' wide
Rotation	360 Degrees
Die Rotation Speed	500 rpm
Connections:	Air - 50 - 100psi
	Electrical - 110 -220 vac, 2A

