

June 24, 2009

For Immediate Release

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Brown Machine's New Servo Treadle Option Provides More Precise Product Trim Concentricity

In a typical trimming operation the treadle movement is tied mechanically to the movement of the moving platen within the thermoforming trim press. The formed parts are carried into the die and piloted as the punch enters the die during final trim. Brown's new Servo Treadle option separates the movement into two independent motions, allowing the punch to pilot into the product prior to entering the die. Precise piloting prior to entering the trim die insures the highest levels of trim concentricity.



The sliding treadle is controlled through an independent servo motor, giving the treadle movement extreme flexibility in positioning the product for trimming. This capability to control the punch/pilot process separately provides a wider trim window with greater trim accuracy. Trim concentricity tolerances as low as $\pm .005$ " have been achieved utilizing this system.

Treadle speed is electronically matched to the press speed to insure precise timing as the speed of the press is accelerated or decelerated. The treadle is guided on linear bearings and rails for more precise movement, and the linkage incorporates rod locks for quick release. This advanced treadle system can interface with either Brown servo flex or servo nip wheel feed systems.

Brown Machine LLC, Beaverton, MI, is a global leader of thermoforming technologies, and engineers and manufactures a complete line of continuous and cut-sheet thermoforming equipment and related tooling/peripheral equipment. Brown has designed and developed numerous thermoforming innovations over the last 55 years and has machines operating in over 65 countries worldwide.