

April 3, 2012

For Immediate Release

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Brown's New Quad Rail Assembly Design Solves Industry Challenges

Brown Machine has eliminated the stress of getting material to the form station. Both to the station and to the operator! Brown's new rail assembly design provides more flexibility, rigidity and stability with less tension.

Brown has reduced the stresses of thermoforming by adding a series of new features. The first is the addition of hinge points along the index rails to allow for easy material re-positioning and thereby eliminating tension

on the chain and chain slides. This new design prevents the excess binding and torque on the index system commonly found in "V" process applications.

Brown has also replaced the traditional, single motor and drive shaft combination in the sheet index system with two independent servo motors. Located at the exit end of the thermoformer, the motors pull material through the rails, insuring sheet flatness and minimizing index variation. This dual-motor design eliminates index shaft wrap-up for greater positioning accuracy and reduces overall motor inertia providing faster index time and increased torque. The motors are also located in an outboard position where they allow easier access to the form station and don't interfere with tooling during changeover.

Brown's integral pneumatic chain tensioning system has also been redesigned. It has been relocated to compensate for a greater degree of chain stretch, while providing more rigidity and positioned to prevent sheet wrap up. All of these new design features still allow the tooling to be loaded on the rails without a separate tool cart.

With the introduction of Smart Control, Brown's new process control software, rail protection circuitry is now embedded in the process recipe to prevent inadvertent rail and mold damage. During setup, the circuitry insures the rails are positioned outside of the mold area and confirmed against the process setting. If the positioning is not correct, the form station will not actuate. During operation, the circuitry prevents the operator from inadvertently adjusting the rails too far inward so they come into contact with the mold.



Brown Machine LLC, Beaverton, MI, is the global leader of thermoforming solutions. Brown engineers and manufactures a complete line of continuous and cut-sheet thermoforming equipment and related tooling/peripheral equipment. Brown has designed and produced numerous thermoforming innovations since 1952 and has machines operating in over 65 countries worldwide.

To learn more, visit our website: www.brownmachine.com and/or talk to your Brown Machine representative about the new Brown rail and index system.