

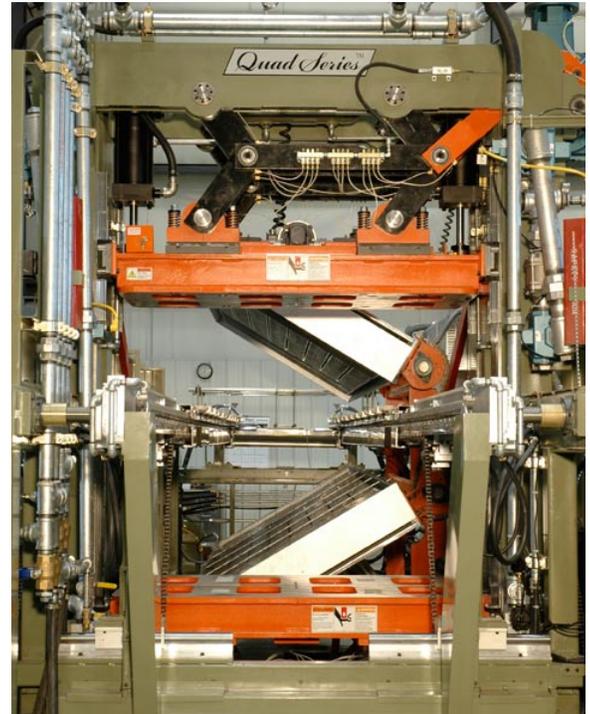
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For Immediate Release

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Brown's New Quad Series Thermoformers Set a Higher Benchmark in Productivity and Consistency

Brown's Quad Series Thermoformers are the pinnacle of the Brown Machine product line in technology and performance. The new Quad Series comes fully equipped with a variety of premium features that raise the bar of performance capabilities and production. The cornerstone of this line is a new forming station that provides thermoformers more precise and consistent thermoformed product than ever thought possible. With up to 260 tons of holding force and 150 tons of coining force, this new forming station ensures virtually zero deflection across the entire mold area.



This innovative Quad Series form station design (with patent pending features from Brown) combines continuous thermoforming technology with stamping (coining) technology to produce highly detailed parts at high speed with greater consistency. The system is also available with Brown's patented roller screw third motion technology that improves material distribution, reduces starting gauges, and provides a greater process window. Add all of these benefits together and you get better parts, faster, with less scrap material.

The Quad Series frame, toggles, platens and drive assemblies can withstand tremendous force without deflection. Each platen is driven by a servo motor and has four mechanical toggle assemblies that are corner-guided by four linear bearings. The toggles are strategically positioned on a honeycomb platen design to eliminate deflection and guarantee consistent material distribution across the complete mold area. This ensures consistent product dimensions for integration with automated downstream applications like lip rolling, printing, heat sealing, and many more. Extended platen depth on all models provides for additional tool support. Symmetrical drive loads throughout the toggle linkages and drive system eliminate all over-hung loads.

Models are available in varying mold area sizes up to 64" x 64", with the capabilities to produce parts with depths of 4" up to 12". A 74" x 74" form station version is also available for shallow draw containers. Custom sizes are available upon request.

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.