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For Immediate Release

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Brown Increases Performance With the Tougher, Beefier New Quad Series for 2012

Brown Machine is proud to announce the 2012 Quad Series with 180 tons of coining tonnage, 260 tons of maximum station strength and virtually no platen deflection. To withstand the increased tonnage power, Brown has increased the thickness and height of the upper and lower

forming heads, increased the thickness of the platens and redesigned the geometry of the drive arms. This new performance level has been achieved without sacrificing any deflection ratings and provides the same infinite service life as previous Quad designs. These new increases in coining tonnage and station strength clearly exceed the requirements of even the most demanding thermoforming applications. As important, with a maximum of 260 tons and 180 tons of coining force the design incorporates a **30% service life safety factor** to provide an infinite durable life design.

The 2012 Quad design came about based on field data from the several Quad installations. Having the benefit of real-life experience and data from the last three years has provided Brown invaluable information about what this design technology brings to the thermoforming process. For example, it is now known the highest coining tonnage requirement for a 54" x 54" platen area that is forming 0.120 inch thick polypropylene is 140 coining tons— well within the design specification of the Quad Series. Given this proven application knowledge, Brown is now providing customers a comfort factor when running their most demanding applications.

In 2009, Brown launched the revolutionary Quad Series. This innovative machine technology introduced a new element into the thermoforming process— **coining at high-tonnage with virtually zero deflection**. This achievement has given Quad owners incredible new forming capabilities. It was the first high-speed continuous thermoformer to be able to hold consistent, close tolerance material thickness across the entire forming area. This innovation made the Brown Quad Series an immediate success within the thermoforming industry, and it remains the most demanded model across the entire Brown product line.

