Bump-Off Molds
Special materials (BeCu) for enhanced cooling Bump-off mold technology produces plastic caps and lids, or any plastic part, with internal undercuts requiring the need of a mechanical push to eject the part from the core. Bump-off mold designs concentrate on achieving the best cooling possible through the use of multiple inserts, and specialized materials.

Unscrewing Molds
Unscrewing molds are designed for caps and closures with detailed threads which cannot be ejected using bump-off methods. When these parts are molded they must be unscrewed from the mold to avoid thread damage. StackTeck has developed proven designs for unscrewing molds with optimized cooling allowing short cycle times.

Compact Slide Action Molds (CSAM)
CSAM molds enable slide actions to be incorporated into the mold design without compromising the number of cavities for a given machine size. Examples of products produced with CSAM molds include tamper evident carbonated and non-carbonated closures. CSAM technology enables the tamper evident tear band to be molded in high cavitation molds eliminating post mold slitting operations.
Collapsing Core Molds
Collapsing core technology enables the molding of creative packaging solutions, including 360 degrees of internal threads or undercuts as well as containers or closures with smaller neck diameters than the core or body (e.g., cosmetic jars). These capabilities enable the injection molding of part designs that would traditionally have been molded via injection-blow or extrusion-blow methods.

Flip Top Molds
Flip-top molds enable a hinge to be incorporated in the plastic part design. Parts are typically molded in the open position and may be ejected “open” or in the “closed” position. We make a variety of flip top closures with multi-point hinges, butterfly hinges and in-mold closing technologies for household, personal care, food, pharmaceutical, and beverage customers.

In-Mold Closing Systems (IMC)
In-mold closing systems are used to automatically assemble molded parts prior to ejection from the molding surface. These systems operate during the opening time of the mold to minimize the impact on cycle time.

StackTeck uses proprietary, proven IMC designs to integrate the closing rack and maximize mold cavitation. Mechanisms can be actuated through pneumatic, hydraulics or mechanical/servo driven sources.

Multi-Material Molds
Multi-material and multi component molding has grown significantly. The advantages of applying this technology are not only esthetics, but may be driven by part functionality, or to enhance part design features, or simply to add quality to the part or reduce downstream part assembly cost.