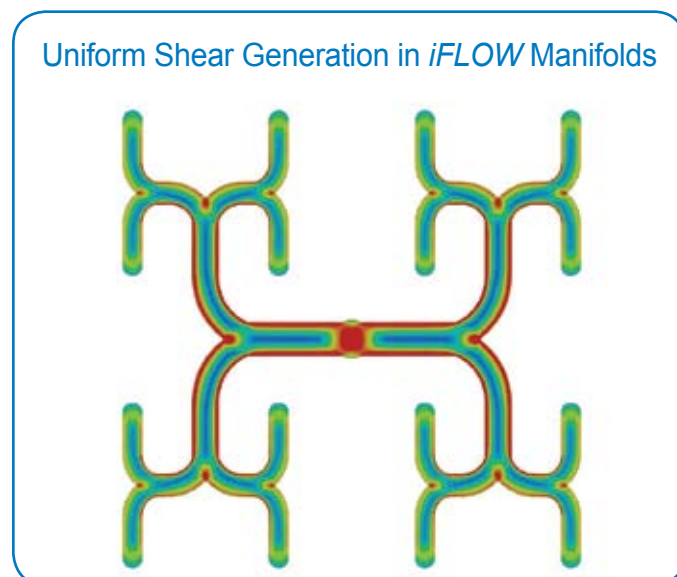
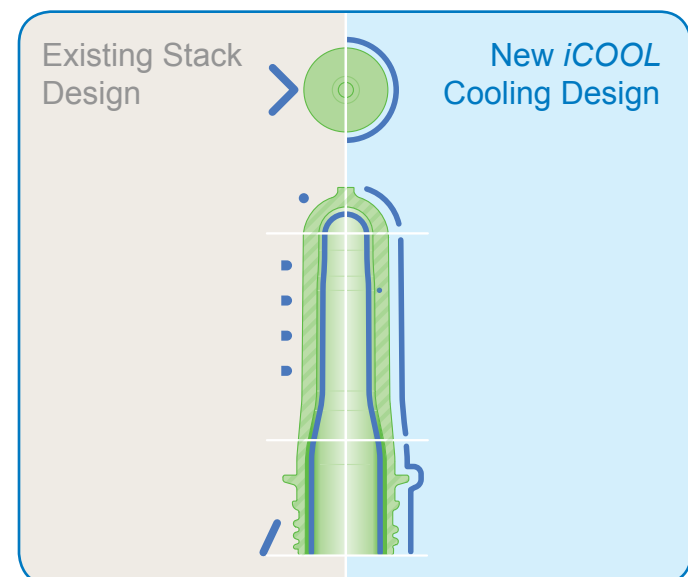


iCOOL

The patented *iCOOL* technology provides more extensive and uniform cooling over the entire preform surface as compared to standard systems. This eliminates traditional hot spots and allows for significant cycle reduction.

iFLOW

The proprietary design of *iFLOW* manifolds for PET reduces shear heat generation, improves balance and reduces pressure drops resulting in improved output.



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▶ GLOBAL PREFORM MOLD SOLUTIONS

iPET is an alliance of *ABBA Systems* and *Mold-Masters* created to provide PET preform producers with leading edge mold and hot runner technology from a single global source.

iPET systems supplies:

- Complete preform molds
- PET hot runners
- New cold halves
- Conversions
- Refurbishing of competitive cold halves and hot runners
- Mold stack parts
- Hot runner spare parts

iPET's solutions are based on the combination of *ABBA's* experience in high precision stack manufacturing and *Mold-Masters'* leading edge global hot runner solutions.



ABBA Systems is a leading supplier of precision machining solutions and has over 17 years experience in preform insert manufacturing. *ABBA's* reputation for quality, precision and capacity have made them a supplier of choice for some of the world's largest preform molders.

Mold-Masters is the global leader in hot runner technology. The company has invested heavily in research and development with more than 1,600 granted and pending international patents. *Mold-Masters* designs and manufactures the plastic industry's most advanced hot runner systems, temperature controllers and complete preform moldbase solutions. Their support network spans more than 40 countries, with manufacturing in North America, South America, Europe and the Pacific Rim.



▶ INCREASED UPTIMES, FASTER CYCLES

COLD HALF FEATURES

- 100% compatible to existing PET mold and hot runner platforms
- Suited for multiple machine platforms
- Standard interface for water, air and electric connections
- Range of pitch layouts with cavity lock and core lock design options
- Stainless steel mold base
- Post mold cooling technology available for 1, 2, 3 or 4 position take off scenarios
- Optional patented "iCOOL" stack design for optimum cooling efficiency
- Optional "Long Life" stack designed for extended cycles between refurbishment

CONVERSIONS / REFURBISHING

- Precision stack components are produced in Canada and the exchange and rework of the mold base is done locally to reduce costs and downtime
- Typical Conversions / Refurbishments:
 - Weight conversions by core change
 - Thread conversions to PCO 1881
 - Complete preform design conversions
 - Complete mold refurbishing including all stack components
 - Single face PET molds from 2-192 cavity molds for a variety of OEM mold builders



▲ 144 cavity mold conversion

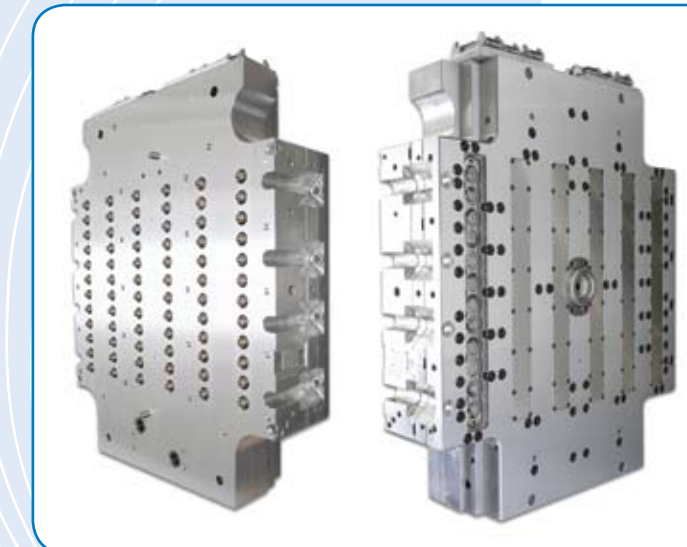


▲ precision core and cavity lock stack parts

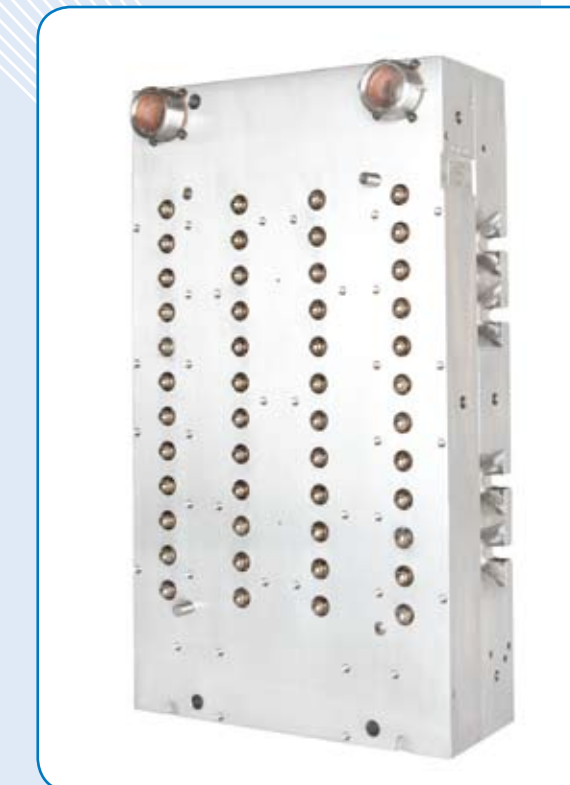
▶ LONGER TOOL LIFE, REDUCED SERVICE COSTS

HOT RUNNER FEATURES

- **Improved performance:**
 - Superior balancing technology (*iFLOW*)
 - Less shear with faster fill rates
 - Uniform fill balance and AA levels
 - Rapid color changes
 - Fully balanced layouts for 2-192 drop layouts
 - Rigid hot half plate design with extra pillar support throughout
- **Increased uptime:**
 - 5 mm valve stem with 4 mm gate increases stem life
 - Brazed in nozzle and manifold heaters for improved uptime and precise temperature control
 - Optional group or individual tip control
- **Ease of service and operation:**
 - Valve stem access ports for easy in press removal
 - Directly interchangeable into existing competitive cold halves
 - Nozzle tip, seal and insulator are replaceable in the press
 - Patented valve disk and short stem stroke reduces PET dust



▲ 72 cavity preform hot half



▲ 48 cavity hot half