

PET PREFORM MOLDS



MHT – Who We Are

- MHT was founded by 11 partners in December 1996
- In 2006 MHT has more than 140 employees.
- Our staff has over 20 years of experience in the PET mold and hotrunner business.
- MHT's business focuses on PET molds and hotrunners.
- Over the past ten years MHT has a average annual growth of over 25 percent. Within this short period of time, MHT has emerged as one of the leading PET mold suppliers. The key to this successful growth is: our experience, dedication, product quality, and short lead times.
- Today MHT serves customers in more than 40 countries worldwide

We Offer

- Advanced preform molds with up to 192 cavities
- Optimized mold design for all PET machines
- Variety of preform designs, i.e., standard, technical, widemouth,...
- Global support & service

Customer Support

- Our PET group provides an experienced team ready to support in implementing preform mold and hotrunner solution. Our service starts with individual assistance.

Perfectly Balanced Hotrunner

Design

- Engineering design forms the heart of any mold manufacturing operation and is the point where all information from the customer flows together.
- At MHT, Sales and Design cooperate as early as providing clients with cost estimates – this ensures optimal feedback of engineering data to the customer.
- Our engineering design group uses EDS' Unigraphics software for 3 D design work

- Perfectly balanced hotrunners ensure uniform melt cavities.
- Highly uniform thermal expansion
- Reduced impact of thermal expansion
- Improved exchangeability of components



Hotrunner



- Pneumatically actuated gates
- Long-life O-ring packages for valve pistons
- Individual tip control



Mold Preforms

- Close tolerances
- Long lifetime
- Perfectly balanced hotrunner system
- High productivity
- Maximised cooling
- Energy saving

High-Quality Preform

- No crystallinity
- No scratches
- High surface quality
- Low acetaldehyde (AA) levels
- Minimum eccentricity
- Strong dimensional stability
- Consistent weight
- Flashless split-lines



MHT molds meet these criteria as a result of our long-standing experience in designing and manufacturing PET molds.

Mold Inserts



- Cores: stainless steel with titanium-nitrate core surface finish
- Locking rings: with air-assisted preform ejection (blow out)
- Neck rings: stainless steel, water cooled
- Cavities: highly polished and chromed surfaces
- Gate inserts: stainless steel with highly polished surfaces

MHT PET Expertise

- Preform geometry
- Preform surface modifications
- Hotrunner design and rheology
- Temperature controllers configured to customer specifications
- Draft designs for cost estimates
Prototyping preforms
- Complete conversion-kits for molding
new preform designs in existing molds
- Retrofit kits for new closure threads, such as
PCO, BPF, 30/25, Oil, Milk, Beer, etc.
- Mold repair and optimization
- Split line refurbishment of mold parting surfaces
- Mold spare parts, such as cores and cavities,
threaded neck rings, locking rings, etc.
- PET hotrunner spare parts, such as nozzle
 housings, nozzle tips, valve stems, band
 heaters, etc.
- Service and installation of preform molds
- Customer training

Close Cooperation The Key To Success

- Only through close and detailed cooperation with the customer can we achieve together the common objective of staying competitive with high-quality products.

Your Benefit

- Apart from quality and price, the market shows a growing need for faster order-to-delivery. To meet these requirements, our mold operations have been purpose designed and equipped for maximum precision at minimized machining times.

High Mold Availability

- Manufactured to very high standards with corrosion-resistant steel plates and optimized for preform production, MHT molds have a long service life before refurbishing becomes necessary.
- The mold design guarantees fast and easy servicing and maintenance.
- MHT molds are very operator-friendly. Regular maintenance work can be carried out directly at the machine with minimum down time.
- The cavity parts are easy to exchange and enable production of different preforms from the same mold.
- Hardened mold parts with deeply engaging tapers support the lifetime of the mold and minimize maintenance.



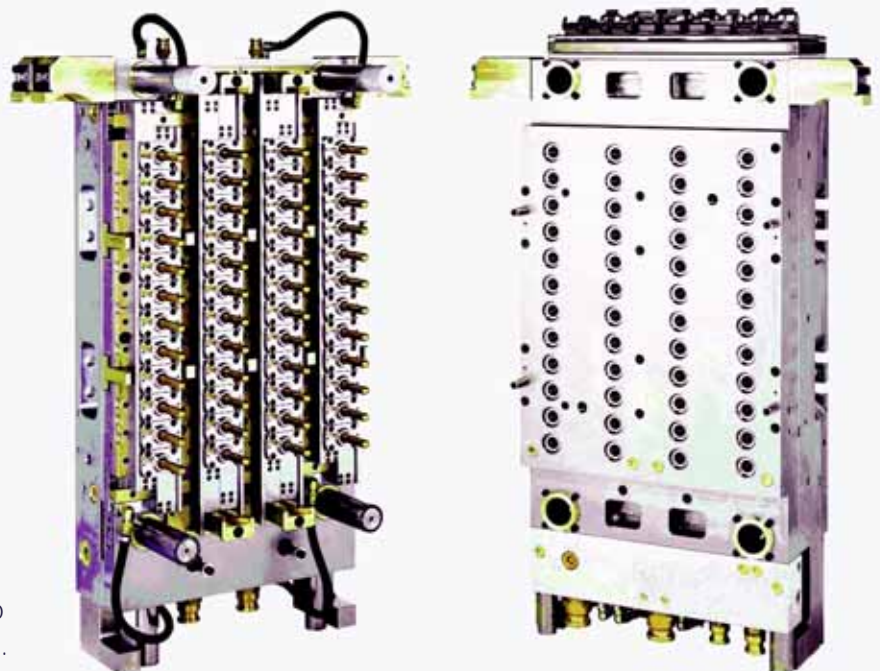
Precision Machined

- State-of-the-art engineering, machines and finishing techniques are a guarantee of high quality molds and short lead times.

16-Cavity Preform Mold



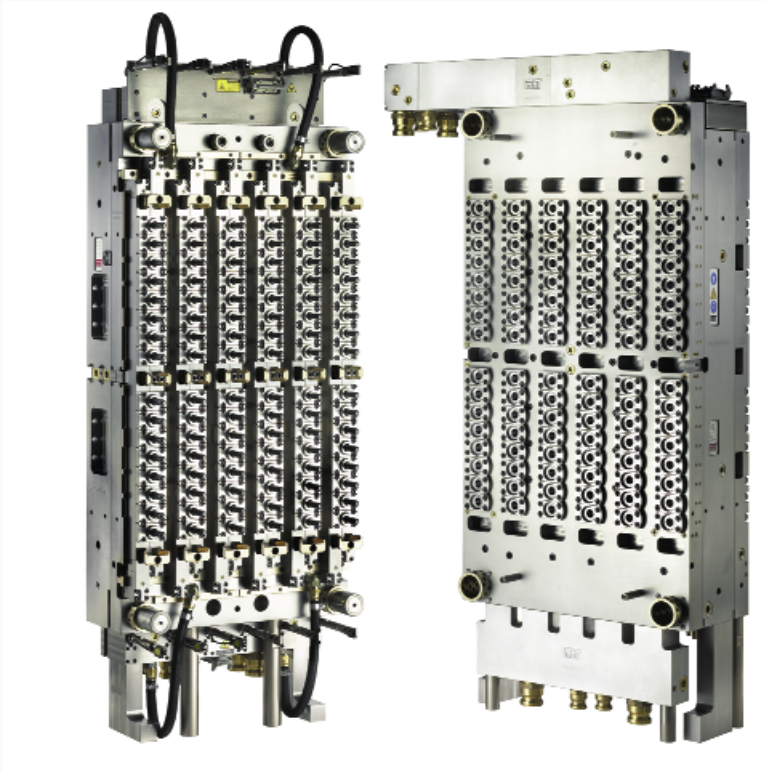
48-Cavity Preform Mold



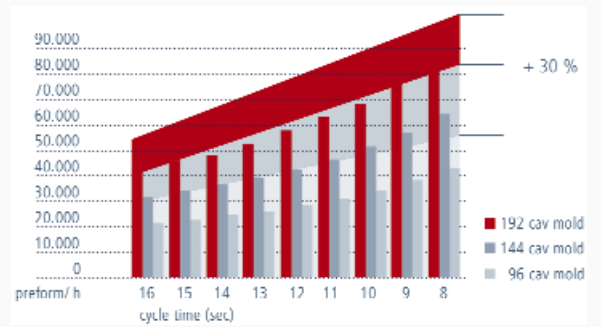
Low Crystallinity

- Hotrunners with valve gates developed for PET processing expedite the effective heat transfer to the nozzle tips and offer a wide processing window with consistently high product quality. This results in short start-up times and minimizes crystallinity in this area.

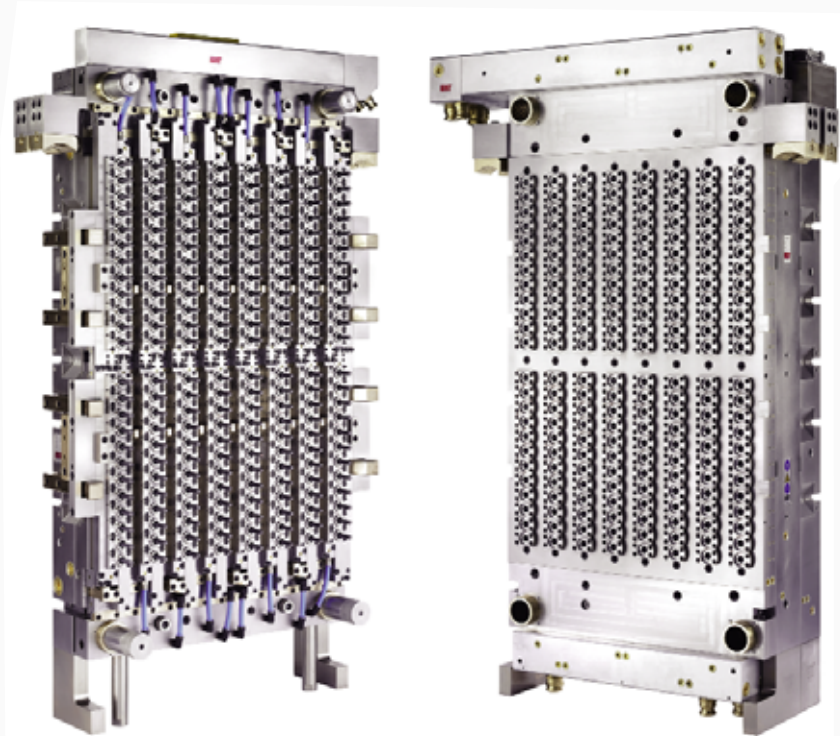
96-Cavity Preform Mold



New HP-Stack +
New Postmold Cooling



192-Cavity Preform Mold



Short Cycle Times

- Well-balanced cooling channel layout and turbulent water flow ensure very consistent cooling and efficient heat transfer away from the preforms. Separately cooled neck rings lead to high preform quality and short cycle times.

Special core surface treatment permits early ejection of preforms.



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