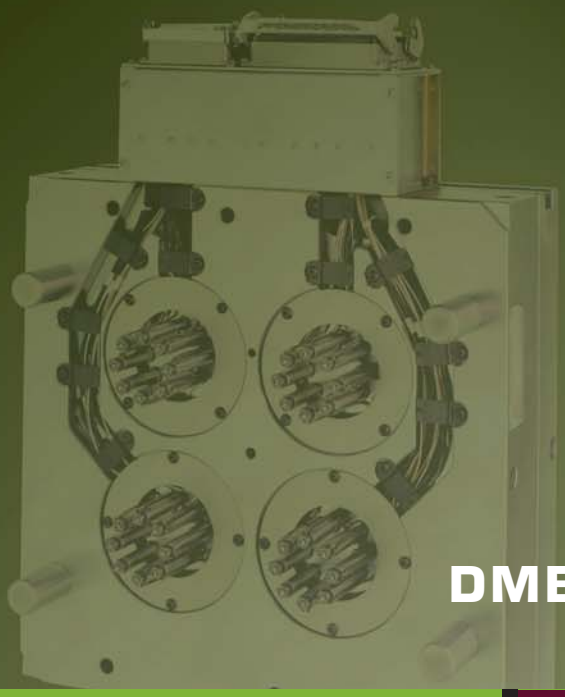
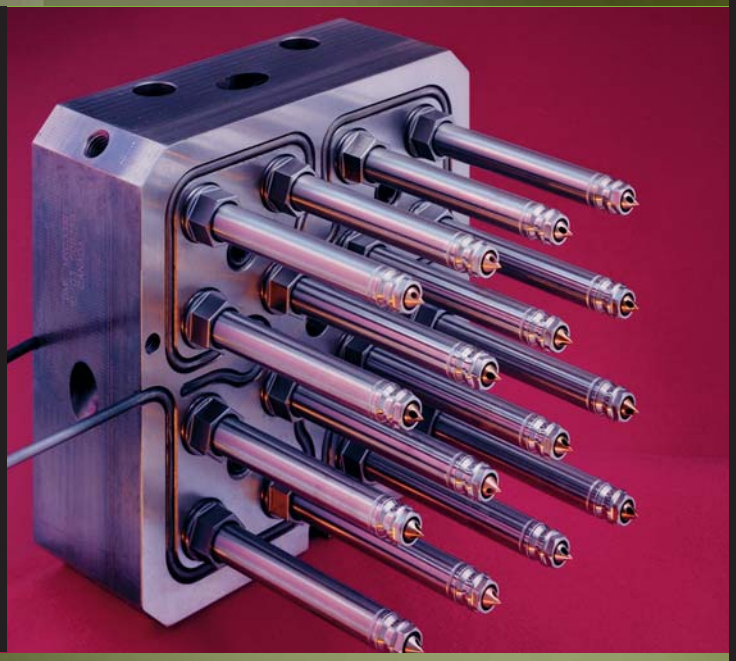
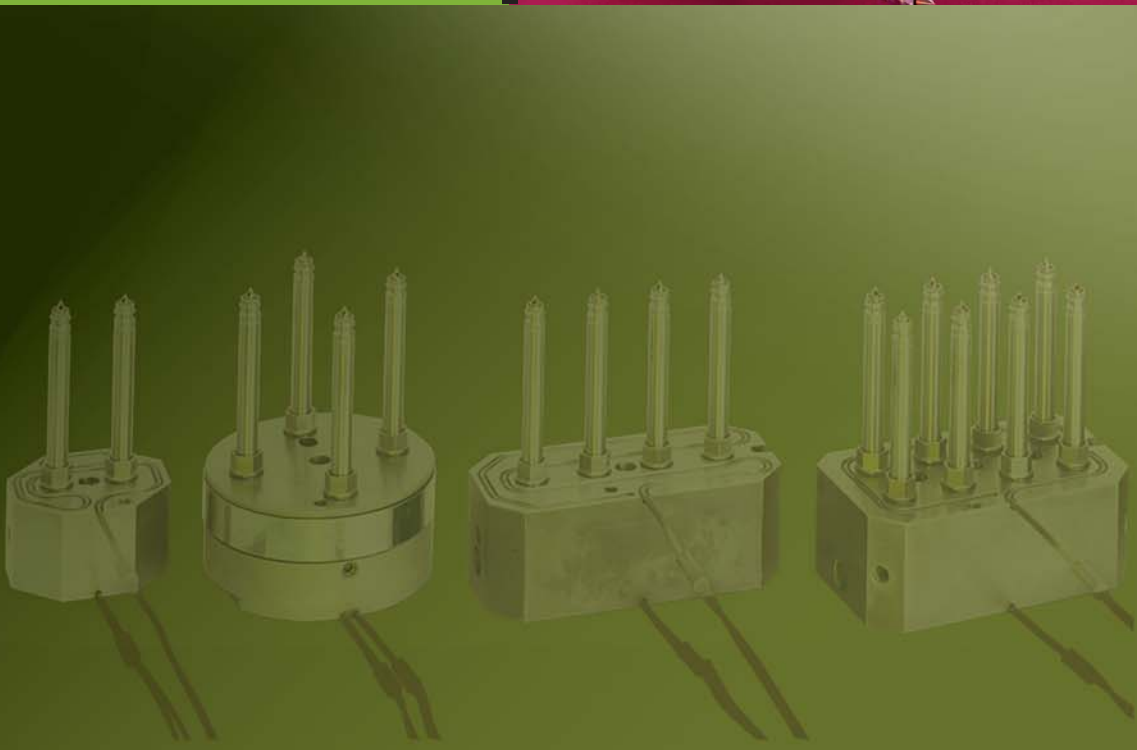


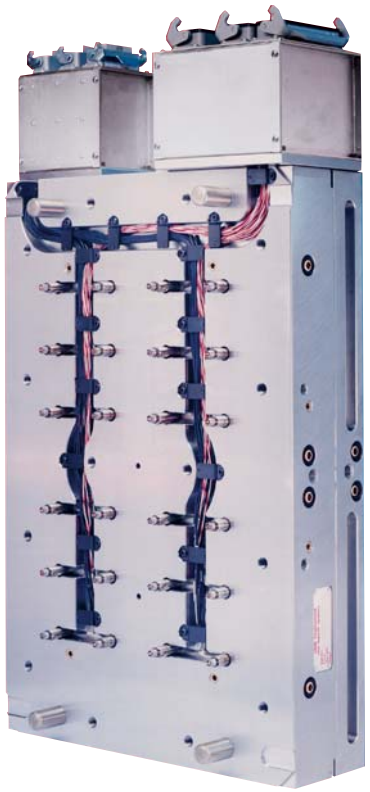
DME Stellar Micromolding Hot Runner Systems

PROVEN SOLUTIONS FOR PRECISION THERMOPLASTIC MICROMOLDING





Stellar Hot Runner Systems – Benefits



Engineered for the Challenges of Tight Pitch Molding

The DME Stellar™ Hot Runner System brings high performance, exacting precision and flexible, cost-effective modular construction to very small part molding. With as little as 17mm between centers, Stellar is also ideal for high-cavitation molding.

Demand the Best – Demand DME

DME has been a leader in mold technologies for seven decades. Nobody beats DME for quality products, quality service and quick delivery. Like all DME products, Stellar Hot Runner Systems come with your satisfaction 100% guaranteed.

Get the Modular Advantage

Stellar is based on new DME hot runner system architecture to deliver tremendous flexibility. Five different "A" dimensions, two interchangeable tip options, and a choice of manifold styles enable DME to easily configure a Stellar solution that matches your application. Quickly, cost-effectively and with optimal results.

For a Wide Range of Applications

Stellar is perfect for today's rapidly expanding array of micromolding projects. Stellar was designed to perform in a broad spectrum of applications – including electrical, electronic, medical, and cosmetic packaging. And, Stellar was designed to process demanding engineering resins without property degradation.

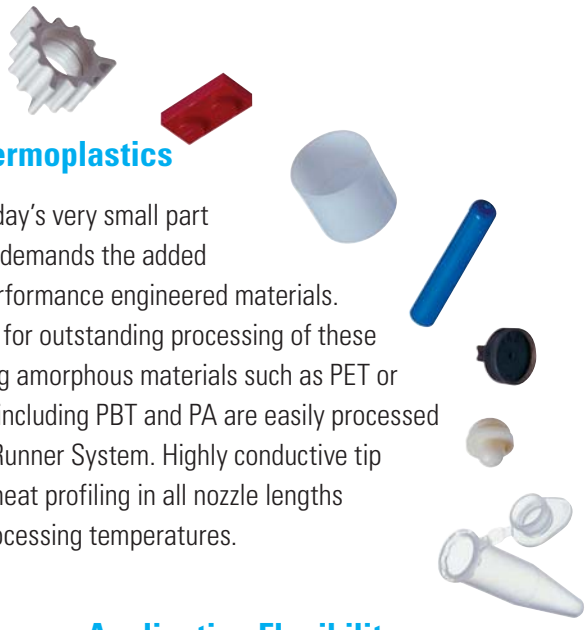
Stellar Hot Runner Systems – Benefits

CUSTOMER DESIGN CRITERIA FORMS

CDC

To provide your Stellar® application specifications, visit www.dme.net/cdc

Excellent Results with Engineering Thermoplastics



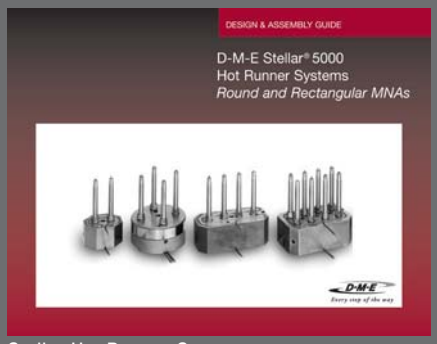
The complexity of today's very small part molding applications demands the added properties of high performance engineered materials. Stellar was designed for outstanding processing of these materials. Challenging amorphous materials such as PET or crystalline materials including PBT and PA are easily processed with the Stellar Hot Runner System. Highly conductive tip designs and precise heat profiling in all nozzle lengths ensure consistent processing temperatures.

Modularity Increases Application Flexibility

The Stellar Hot Runner System from DME is built on a standardized architecture of modular components. Key features include:

- Choice of balanced multi-nozzle assemblies (MNAs) for stand-alone use or under a manifold for higher cavitation molds
- Threaded nozzle connection for standard manifolds and compression nozzle connection for custom manifolds
- Five different "A" dimensions from 65-145mm are available for threaded style nozzles
- 11 different "A" dimensions from 45-145mm are available for compression style nozzles
- Three interchangeable tip styles – Point Gate, Thru Hole Gate and Sprue Gate
- Two heater choices, Standard Coil Heater and High Performance Heater
- Two tip material choices, standard and high performance

Stellar Hot Runner Systems – Technical Guides



Stellar Hot Runner Systems
Round & Rectangular MNAs – Quick Reference Guide

Stellar Hot Runner Systems
Round MNAs – Design and Assembly Guide

Stellar Hot Runner Systems
Rectangular MNAs – Design and Assembly Guide

Stellar Hot Sprue Bushings –
Design and Assembly Guide

Detailed Design and Assembly Guides

Stellar Hot Runner Systems are supported by detailed application guides that assist users in applying proven DME micromolding technology to a variety of applications. The Stellar Quick Reference Guide is intended to provide options for gating, nozzle selection and layout. The Stellar Round MNA Design and Assembly Guide and the Stellar Rectangular MNA Design and Assembly Guide provide more precise information, including item numbers and machining specifications.

The Stellar Quick Reference Guide overviews the gate details for DME Point Gate and Sprue Gate Tips. In addition to assisting with nozzle selection, the document provides manifold options for both Stellar Round and Rectangular MNAs, as well as general assembly information for the systems.

The Stellar Round MNA Design and Assembly Guide offers detailed pre-assembly and machining guidelines, and provides both inch and metric dimensional information. The Stellar Rectangular MNA Design and Assembly information offers similarly detailed pre-assembly and machining guidelines for both inch and metric. The document provides these guidelines for 2-drop, 4-drop, 6-drop, 8-drop, 12-drop and 16-drop multi-nozzle assemblies.

Stellar Hot Runner Systems Benefits

High Process Temperature Capability with Precision Heat Profiling

Today's engineered materials challenge hot runner systems with high processing temperatures – often with very narrow operating windows. Stellar hot runner nozzles utilize reliable profiled mini-tubular heaters to ensure optimal heat distribution. In addition, Stellar nozzles are engineered with low conductivity heads and high conductivity tips for consistent thermal performance.

Easy Serviceability – Right in the Machine

Productivity is especially critical when micromolding thousands of parts per hour. Every Stellar Hot Runner System can be rapidly serviced for maximum uptime. Nozzle tips, retainers, mini-tubular heaters and thermocouples are all front-loaded and easily replaced with the mold in the press.

Tested – for the Real World

DME operates a fully equipped testing laboratory to ensure every Stellar hot runner system performs at its peak. The DME hot runner laboratory thoroughly verifies system design and tests applications with a wide range of thermoplastics.

Multi-Nozzle Assemblies

Stellar offers the industry's broadest line of standard manifolds. A wide variety of Multiple Nozzle Assemblies (MNAs) is available in standardized configurations of 2, 3, 4, 6, 8, 12 and 16 drops. MNAs are flow balanced and can be used either as stand-alone systems or underneath custom manifolds.