

D-M-E Hot Runner Systems

 **Stellar**[™]
Hot Runner Systems

The best solution for precision
thermoplastic micromolding



Engineered for the challenges of tight pitch molding

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

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 the most

demanding engineering

resins without property

degradation. Stellar performs

well with filled or unfilled

materials, with additives such

as flame retardants, and with

fiber reinforcements such as

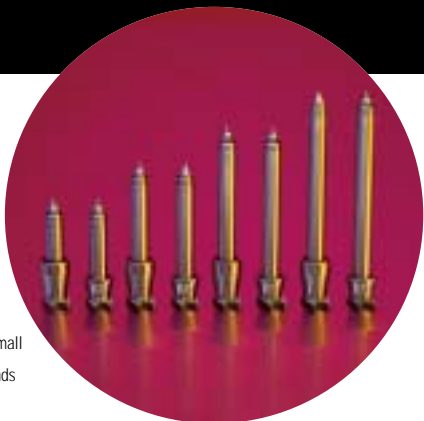
carbon or glass.





Excellent results with engineering thermoplastics

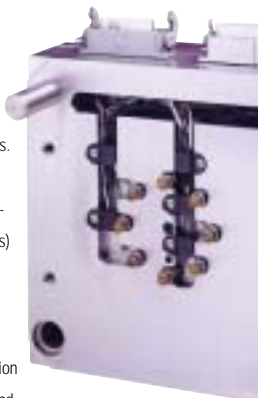
The complexity of today's very small part molding applications demands the added properties of high performance engineered materials. Stellar was designed for outstanding processing of these materials. Challenging amorphous materials such as PC, PET and PEI, or crystalline materials including PPS, PBT, LCP 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 D-M-E 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
- Eight different "A" dimensions from 35-105 mm are available
- Four interchangeable tip styles — wear-resistant point gate, wear-resistant thru hole, sprue gate and extended point gate



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, front seals, mini-tubular heaters and thermocouples are all front-loaded and easily replaced with the mold in the press.



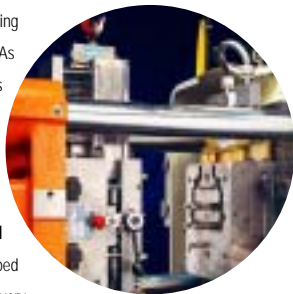
Multi-nozzle assemblies

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.



A winning combination — Stellar hot runners and Master Unit Die quick-change™ systems

If you need maximum molding productivity with frequent tooling changes, Stellar standard MNAs fit MUD quick-change systems for plastics tooling, enabling mold insert changes in less than five minutes.



Tested — for the real world

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



Demand the best—demand D-M-E

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

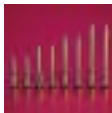
Get the modular advantage

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



Stellar is just one of a family of D-M-E hot runner solutions. From components to turnkey hot halves, all D-M-E hot runner systems feature best-in-class components, application engineering expertise and our 100% satisfaction guarantee.

Serving customers in over 70 countries worldwide, no one equals D-M-E for injection molding solutions and support. D-M-E operates manufacturing and distribution locations in North America, South America, Europe and Asia.



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