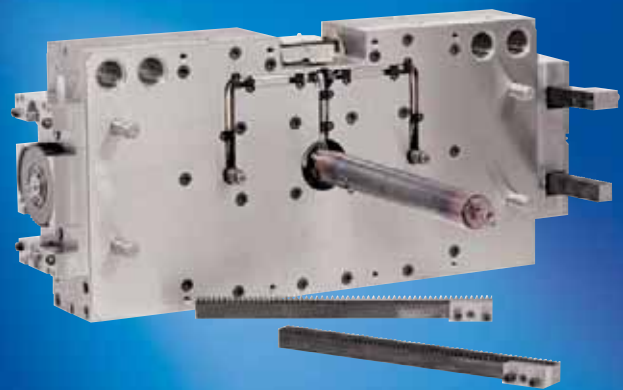


D-M-E Multi-Parting Line Systems

COST-EFFECTIVE SOLUTION
FOR INCREASING CAPACITY



Multi-Parting Line Systems

Comprehensive Options

When you choose D-M-E as your partner for MPL Systems, you are choosing a total solution.



We can deliver:

- Mold bases
- Complete hot runner systems, their components and temperature controllers
- Functional subassemblies such as centering devices, center supports and their components
- Flexibility and scalability in assisting in your program
- System assembly
- Engineering expertise and design service
- Outstanding, unparalleled service

Comprehensive Options for High Productivity

Today's plastics processor has to do more with less – less labor, less capital investment, less floor space, and less time. Multi-Parting Line (MPL) systems double the cavitation of a standard single-face mold without an increase in machine tonnage. Key benefits of MPL systems include:

- Cost-effective solution for increasing capacity
- Optimum use of shop floor space and machine capacity
- Expanded molding capacity without capital expenditures
- More output per unit of shop floor labor – higher productivity in your operation

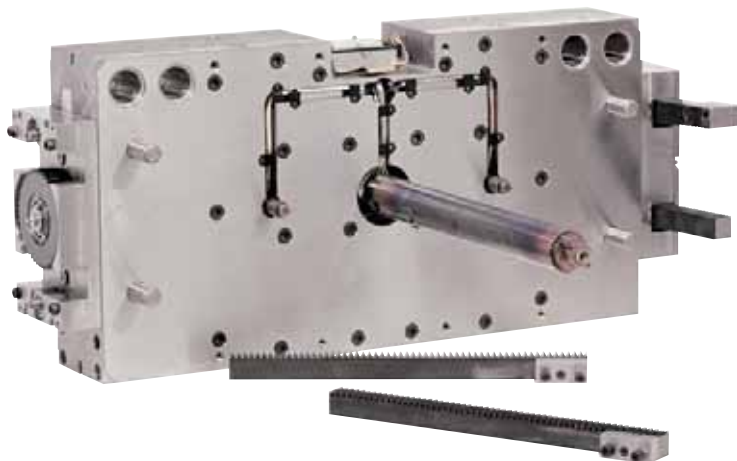
Multi Parting Line systems are ideally suited for automotive, housewares, caps and closures, cutlery, and electronic parts.

D-M-E, in collaboration with Milacron, offers an industry-leading range of MPL systems, including the following centering devices:

- Stack Molds
 - Rack & Gear (pre-engineered design)
 - Helical Gear (pre-engineered design assemblies and standard off-the-shelf components)
 - Harmonic Arms (custom and engineered to suit your requirements)
- Injection molding presses specifically designed for MPL mold systems
- Design Services – design assistance or complete system design



Comprehensive Options



With D-M-E MPL systems – the choice is yours. Our systems feature complete flexibility – built around a family of product standards that simplify implementation. Only D-M-E gives you this wide range of choices. And, because they're from D-M-E, you can expect reliability, advanced engineering, and outstanding performance.

D-M-E delivers critical expertise with mold technology, while Milacron offers high-performance injection molding machinery when the application demands it. The combination is unbeatable.

Turnkey Systems Deliver a Total Solution

When you choose D-M-E as your partner for MPL systems, you're choosing a total solution. How big that solution is, will be your choice. We can deliver a turnkey molding system (excluding the cores and cavities) including a molding machine.

Our turnkey systems may include:

- Mold bases
- Hot runner systems and controllers
- Components – including centering and actuation devices
- System assembly
- Injection molding machines

View D-M-E Stack Molds animation
at www.dme.net/stackmolds

D-M-E offers the following pre-engineered subassemblies for your MPL systems:

Centering Devices

Used for synchronizing two or more parting line openings.

Helical Gear Shaft and Nuts

- Available in 28mm and 38mm nominal gear diameters

Rack and Gear

- Available in 160mm and 120mm nominal gear diameters

Hot Runner Systems

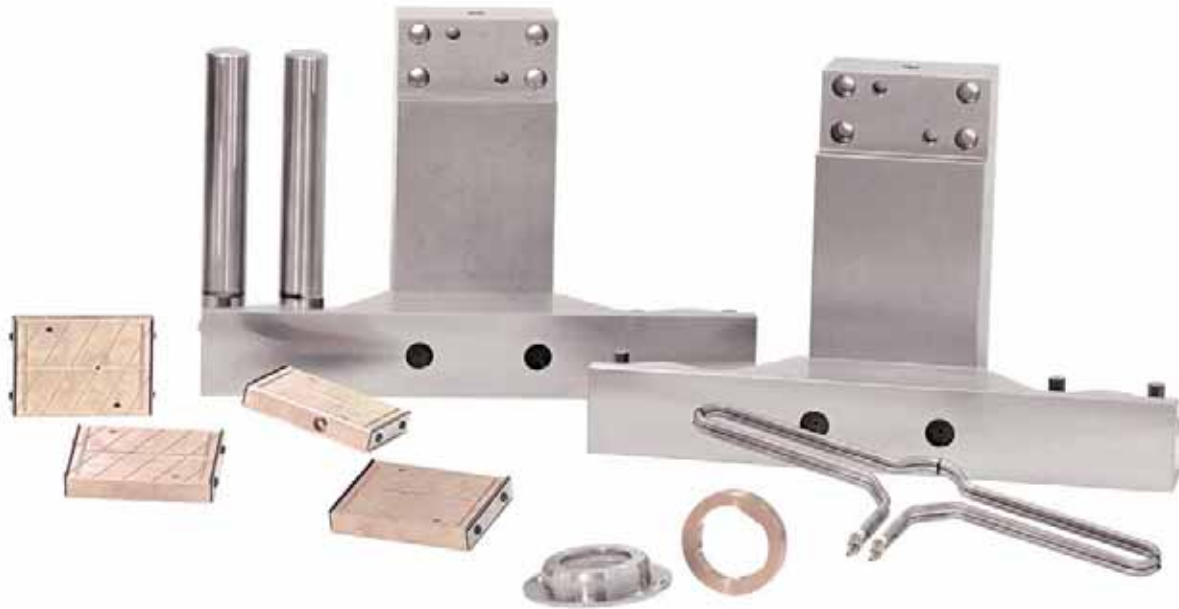
To deliver the plastics from the machine barrel to the cavities. They include sprue bars, stack manifolds, and nozzles optimized to your application.

Center Supports

To support the center portion of the stack mold while the mold is open. Adjustable to compensate for misalignment and wear, they can transfer the weight of the mold center portion to the:

- Top tie bars
- Bottom tie bars
- Both top and bottom tie bars
- Machine ways

Comprehensive Options



**Our designers
can assist in
the choice and
application of
our rigorously
engineered and
proven MPL
Components
and Hot Runner
Systems.**

Engineering Expertise Ensures Success

The D-M-E design and engineering team delivers over six decades of experience with injection molding, and injection mold design. Our engineering services can quickly scale to meet the specific needs of your program. Our designers can assist in the choice and application of our rigorously engineered and proven MPL Components and Hot Runner Systems. We can offer the hot runner package alone, or we can handle the entire stack mold design, configuration, and assembly – including the mold base, centering and actuating components, hot runner system, and temperature controller.

Stack Systems

Only D-M-E offers a choice of three centering actuation systems to suit your requirements – including Rack & Gear, Helical Gear, and Harmonic Arms. We also offer a choice of center support configurations – including support on the tie bars (top, bottom, or both), on the machine ways, or on both the ways and tie bars. Ejection can be accomplished via machine knock-outs (moving platen only), or using hydraulic, pneumatic, or mechanical actuation. In addition, D-M-E has extensive experience in hot runner systems and offers different types of stack mold melt-delivery systems.