

servo mold®

SERVOMOLD®

UNSCREWING DEVICE

SIMPLIFY AND AUTOMATE YOUR MOLD

FULL SERVICE ENGINEERING

The Servomold® Unscrewing Device system combines precision, reliability, and durability into a single package to deliver the most advanced and proven unscrewing device in the industry today. The smart digital nature of servomold helps automate and simplify the molding process, keeping your area clean while maximizing production output.

Despite the large number of complex parameters in the injection molding process, and specifically in servo systems, nothing is left to chance. Our project engineers will accompany you in the development and design process, asking the right questions to obtain the best possible solution, individually tailored to your requirements.

servomold offers:

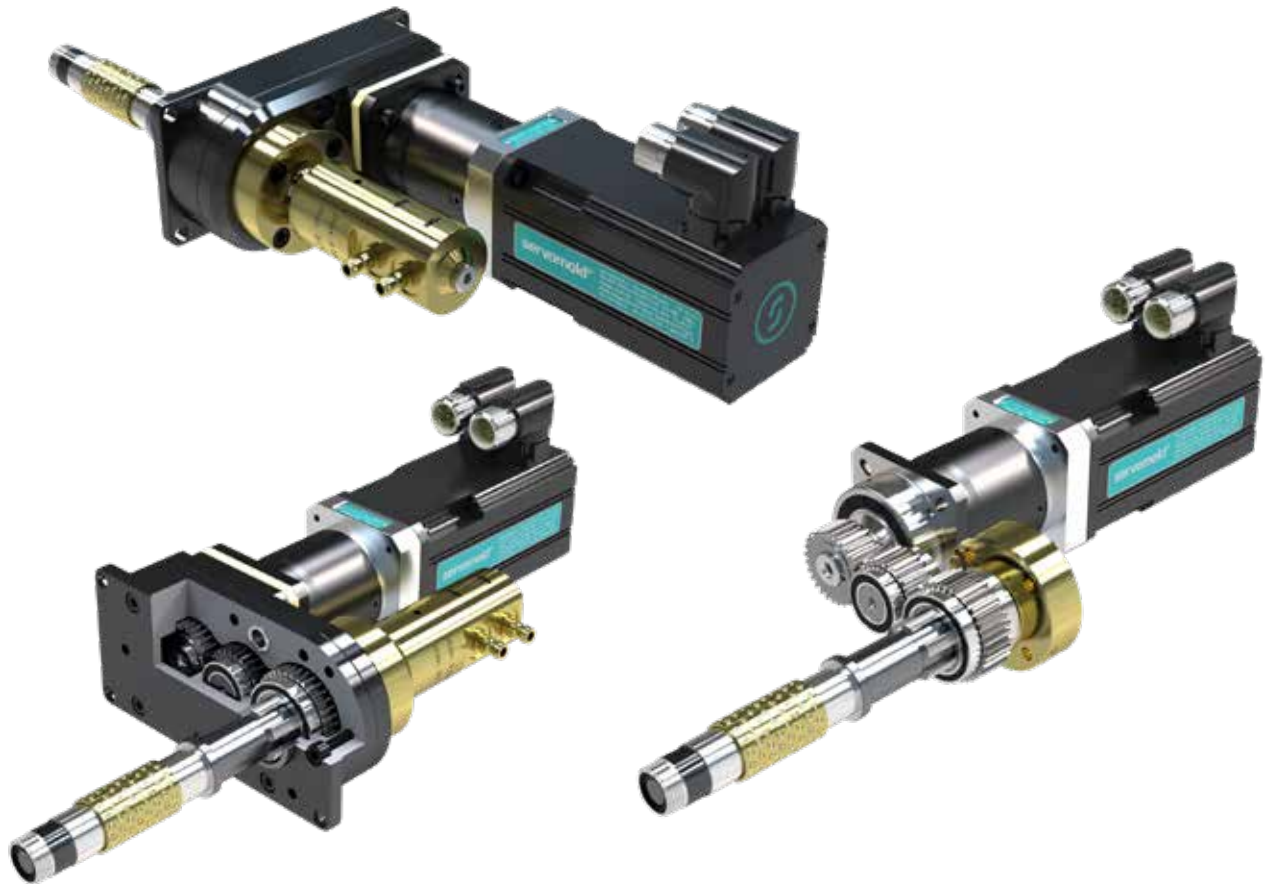
- Wide range of cavities (from 1 to 128) can be controlled
- Simple sizing of the motors required provided with torque calculation for the drivetrain
- Warranty with recommended maintenance guidelines
- Precision, speed and torque with Industry leading controller



SYSTEM SOLUTIONS

We see ourselves as the leading supplier of system solutions for the realization of servo-electric rotary and linear movements in injection molding tools. From single threads in technical plastic parts, linear slider- and core pull movements to high-cavity cap molds – servomold has an innovative servo-electrical alternative for every injection mold. With our experience in the areas of injection molding, moldmaking and automation, we guarantee a successful implementation of servo technology in your tool.

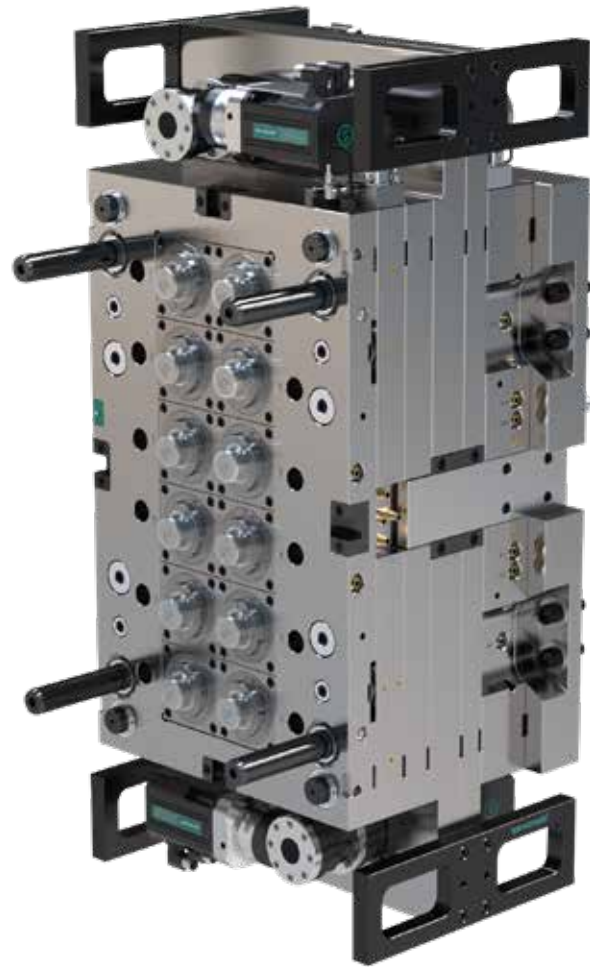
Additionally our servo controllers are adapted to the special requirements of injection molding companies and offer universal applicability, implemented security technologies and ease of use.



HIGH PERFORMANCE UNSCREWING DEVICES FOR MULTI-CAVITY MOLDS

The servo unscrewing device is our answer to the demands made on high performance injection molds with unscrewing function:

- Highest precision and process reliability
- Shortest cycle times and highest availability
- Clean and oil free operation => Cleanroom suitable
- Long service intervals and maintenance friendly design
- Compact design - no protruding parts



Servo-electrical drives are used exclusively in Servomold system solutions. The advantages of these drives are mainly the control of the angular position of the motor shaft and the controllability of the speed, acceleration and deceleration. Thus an outstanding positioning is achieved. In connection with a planetary gearbox a drive unit is formed, which is perfectly suited in terms of torque and speed for the use in injection molding tools.

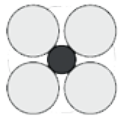
The Servomold threaded core technology is based on a separation of the forming components of the torque steer from the drivetrain. The spur wheel and thread core are guided freely movable by a splined shaft – radial driving forces are absorbed through thin section bearings at the spur wheel. Simultaneously, the rotational movement of the spur wheel is transferred via the splined shaft to the threaded core and enforced by a guide thread nut a helical motion which corresponds to the pitch of the form thread.

SAMPLE LAYOUTS

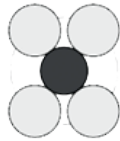
GEARBOX LEVEL 1 & 2

SAM SAMPLE LAYOUTS 1

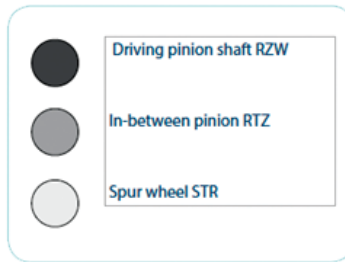
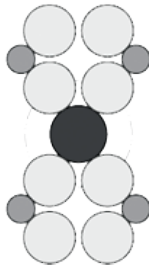
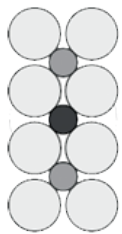
4X SYMMETRICAL



4X ASYMMETRICAL



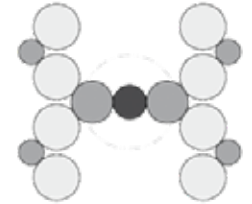
6X SYMMETRICAL



8X CIRCULAR



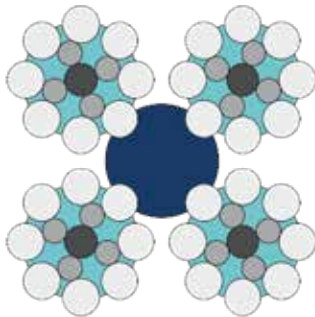
8X ASYMMETRICAL



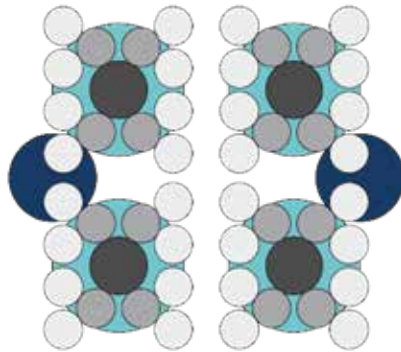
8X ASYMMETRICAL

The circular arrangement allows the ability to build very compact high cavity molds even with only one gearbox level. (8X, 16X). The gating is done via radial hot runner nozzles.

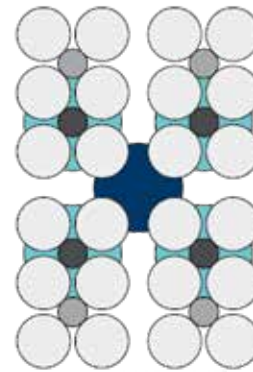
SAM SAMPLE LAYOUTS 2



32X CIRCULAR

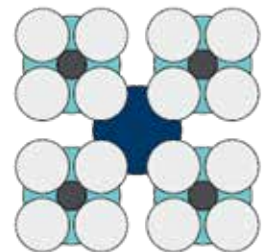


32X-8x4 ROWS



24X SYMMETRICAL

16X SYMMETRICAL

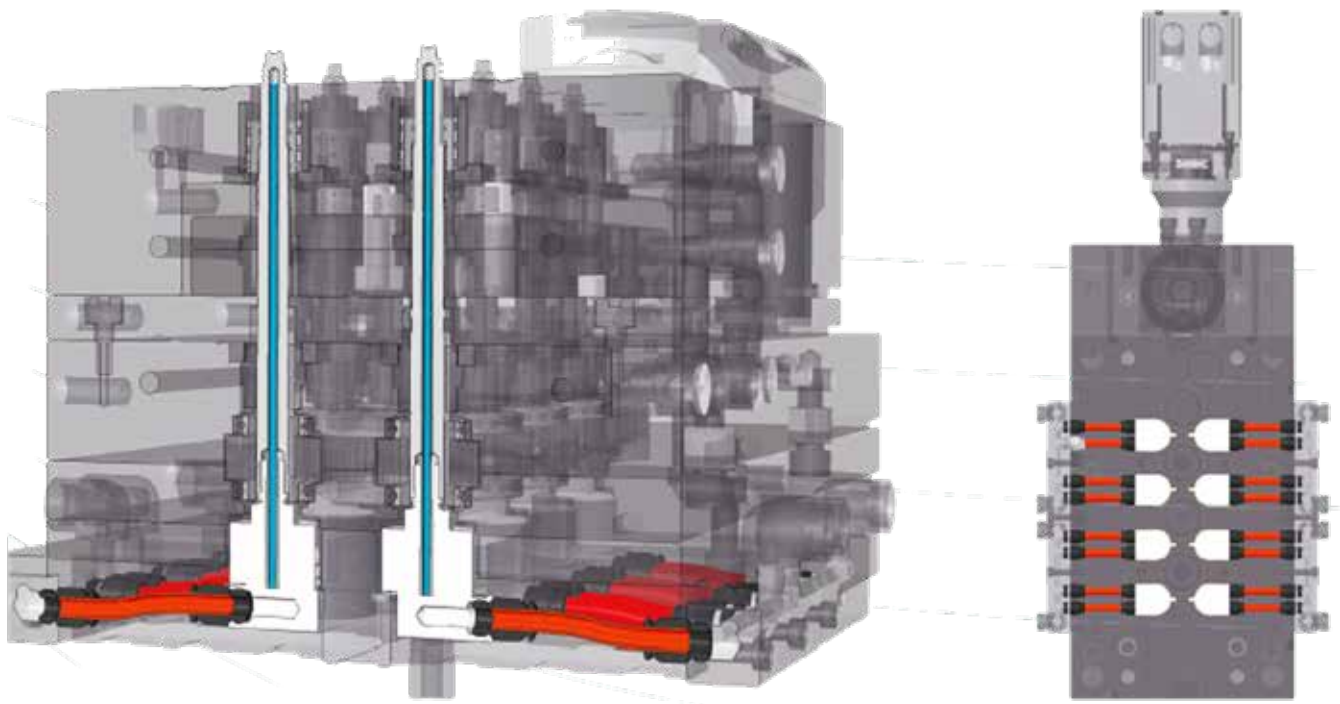


The circular arrangement allows the ability to build very compact high cavity molds (32X, 64X, 96X, 128X). The gating is done via radial hot runner nozzles.



COMPACT ROTARY COOLING

FOR ROTATING CORE



SERVO UNSCREWING DEVICE

QUOTE REQUEST FORM

To Request a Quote please click [HERE](#)



Servo Controller

Using servo technology in the automation of injection molding tools gives you 100% control.

development of our controllers – security for the user – process safety during injection molding and safety for the injection mold.



NOTE: It is the customer's responsibility to determine the necessary controller. DME recommends: 1) this be done well in advance of DME equipment delivery and 2) an IMM OEM technical representative reviews wiring options and specifies IMM connections to the customer. DME technicians will assist in this process but will not specify wiring or make physical connections to the injection molding machine.

With tens of thousands of products to choose from, DME is your one-stop shop for everything molding. From complex undercuts solutions and plate control to standard pins, bushings and interlocks, the DME line of mold components will help you build or rebuild your mold base inside out, top to bottom. Industrial Supplies, Mold Bases, MUD® Quick-Change, Control Systems, and Hot Runner solutions round out our extensive offering to truly be your one-stop shop.



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