



SERVOMOLD® UNSCREWING DEVICE



FULL SERVICE ENGINEERING

System solutions from Servomold® convince because of precision, reliability and durability. To achieve this, despite the large number of complex parameters in the injection molding process, we leave nothing to chance.

Our project engineers will accompany you from the beginning in the development and design process of your injection molding tool – they ask the right questions and work out the best possible solution – individually and tailored to your requirements.

The design of the servo systems in injection molds is a complex process with many parameters. We want to support you in this design phase from the very beginning to ensure that your application works with 100% safety.

- Unscrewing concepts from 1x to 96x and more gearbox concepts with calculations.
- Design with calculation of the drivetrain.
- Lifetime calculation of bearings, gearwheels and timing belts.



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 the innovative servo-electrical alternative for every injection mold.

With our experience in the areas of injection molding, mold-making and automation, we are both interface and guarantee for a successful implementation of servo technology in the injection molding tool.

Our servo controllers are adapted to the special requirements of injection molding companies and convince by universal applicability, implemented security technologies and ease of use.



HIGH PERFORMANCE UNSCREWING DEVICES FOR MULTI-CAVITY MOLDS

The servo unscrewing device “multi” (SAM) 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

In Servomold system solutions servo-electrical drives are used exclusively. 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.

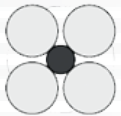


SAMPLE LAYOUTS

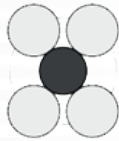
GEARBOX LEVEL 1 & 2

SAM SAMPLE LAYOUTS 1

4X SYMMETRICAL



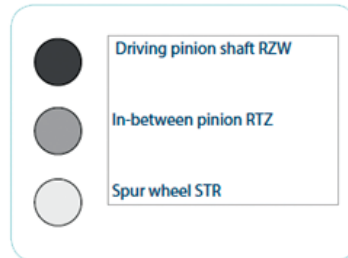
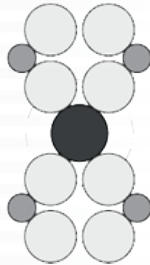
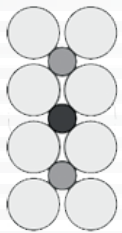
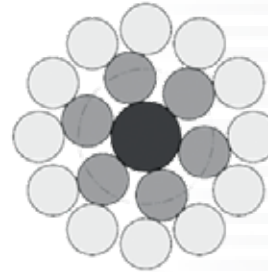
4X ASYMMETRICAL



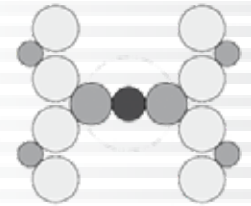
6X SYMMETRICAL



8X CIRCULAR



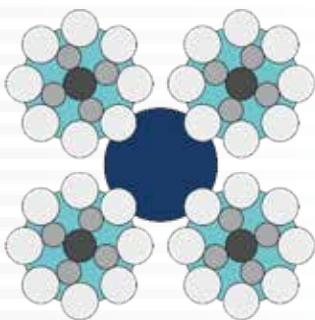
8X ASYMMETRICAL



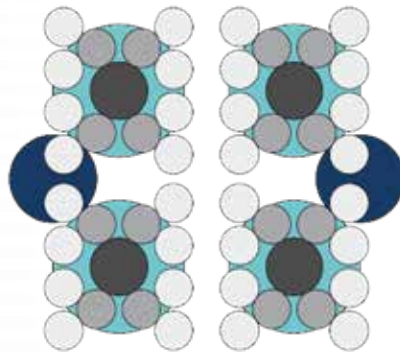
8X ASYMMETRICAL

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.

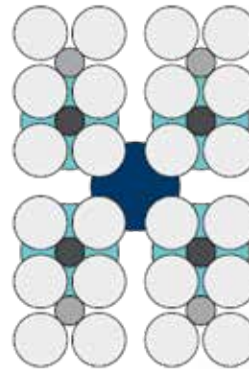
SAM SAMPLE LAYOUTS 2



32X CIRCULAR

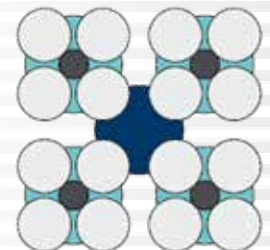


32X-8x4 ROWS



24X SYMMETRICAL

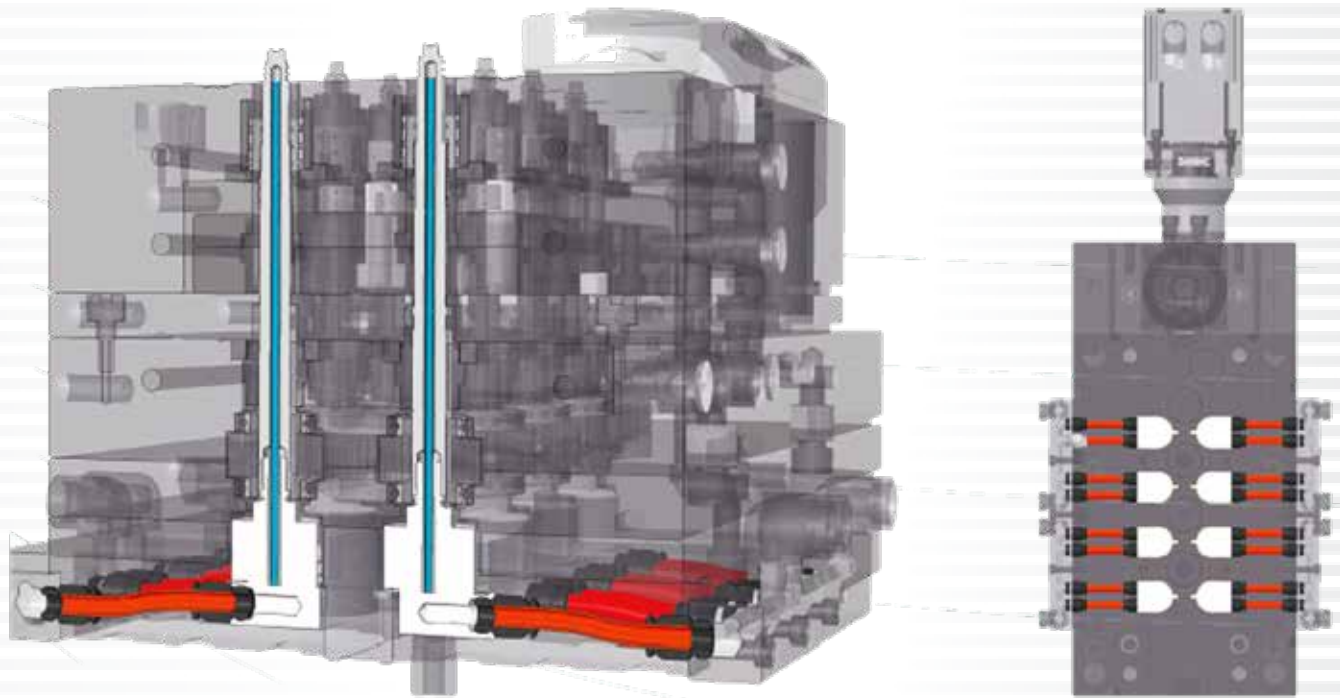
16X SYMMETRICAL



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.

Security is one of the main aspects in the development of our controllers – security for the user – process safety during injection molding and safety for the injection mold.



Your One-Stop-Shop!

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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