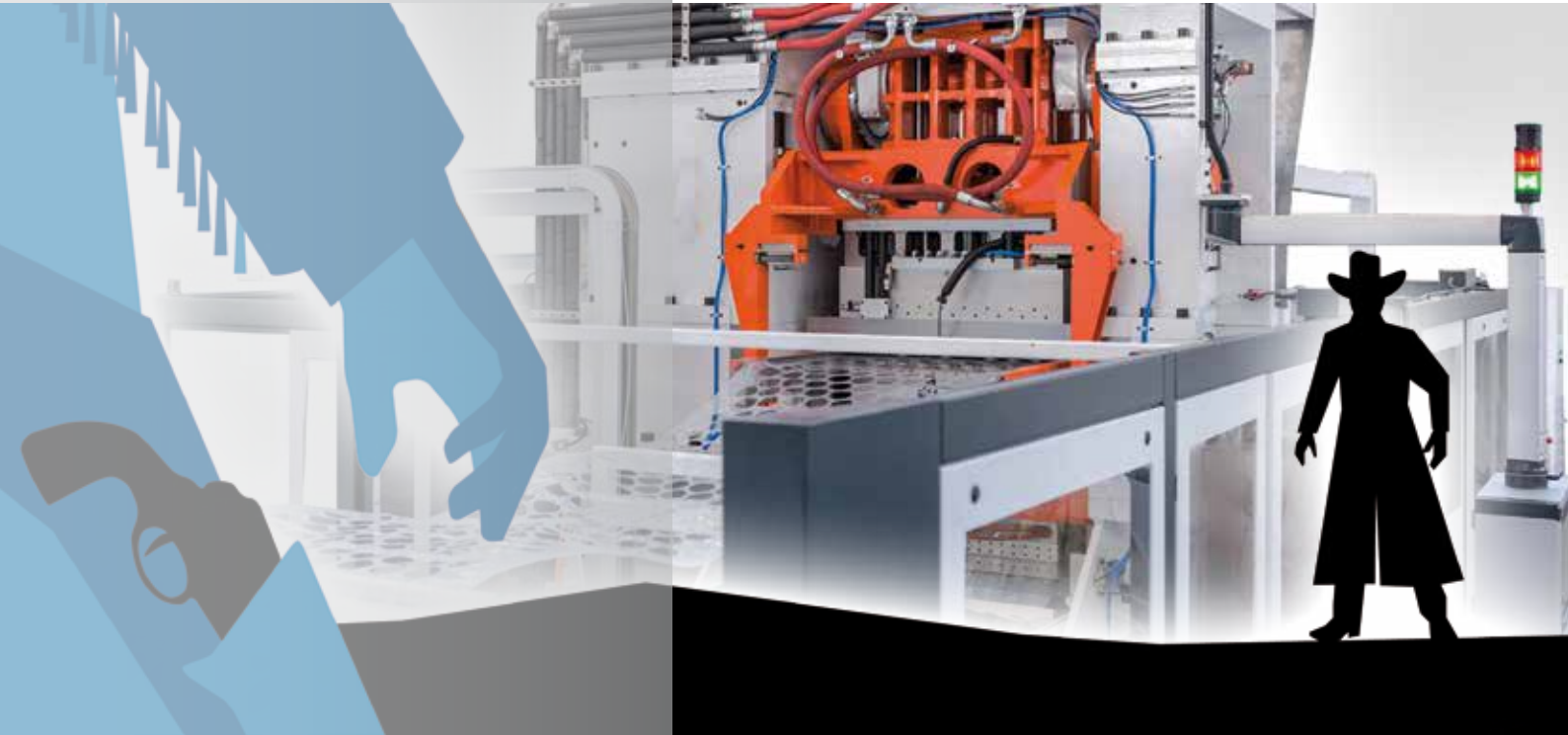


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RM77 "Revolver" – the fastest on the draw



Revolving mould thermoforming
technology for highest production
and best precision

High production speed and close tolerances, with any polymer

RM77 "REVOLVER" features a unique, patented "Rotating Mould System" for thermoforming, which allows much longer cooling process at very high speed, especially studied for materials like polyolefin that need longer cooling period. Its forming station and automatic product handling are designed for multiple row moulds, in-line and/or staggered layout.

- // Patented rotating mould system
- // Enhanced cycle time for high speed production of:
 - Thin and thick wall containers, products with critical tolerances and materials which need longer cooling time (PP, Multilayer)
- // Fast and friendly handling/stacking/conveying system for all kind of products
- // Low energy consumption



Technical Specifications of RM77 „Revolver“ Thermoformer – In Mould Trim		
Materials	PS - PP - PET - PE - PLA	
Max. forming area	mm	770 x 480
Max. sheet width	mm	830
Sheet thickness	mm	0,2 - 2,5
Max. forming depth	mm	180
Forming with compressed air	bar	6
Dry cycles	strokes/min	60
Oven length	mm	3000 (six index steps)
Mould closing/cutting force	daN	60000
Max. air consumption	NI/min.	6600
External dimensions	mm	8900 x 4600 x 4950
Total installed motor power	kW	290
Total installed heating power	kW	225

Achievable production rates			
Product (Data not binding)	Speed (cpm)	Cavities	Productivity (Pcs/h)
PP 30 oz. Fast Food drink cup @20g	30	24	43,200
PP Ø71 mm drink cup @2.4g	57	51	174,420
PP Ø73 mm yogurt cup @5g	33	45	89,100
PP "Eurotub" container @12g	27.5	18	29,700



The mould assembly includes one movable upper male part and two lower rotating female tools. The lower rotating platen features a high-power torque motor. The entire system is highly automated: indexing, platen movements, plug assists, stacking are all controlled by servo motors.

RM77 features also a quick mould changing system: the stacking device, mounted on rails, is effortlessly moved away and the lower platen rotation is exploited to grant easy accessibility; the upper platen slides onto a side table.

Index drive

Servo motor driven by high defined speed profile.

Oven

Six steps C-shape oven with top and bottom ceramic heating elements, arranged in longitudinal zones and electronically controlled. Special features are built into the oven to avoid sagging. Optional sheet edge preheaters, located at the entrance.

Forming station

Cutting penetration adjustable by an eccentric device placed in the upper press.

Plug assist

Specially designed to reduce compressed air consumption. Third motion servo-driven plug assist, independent from platen movement, assures optimum process window.

"Smart Drive" control system

Controlled access to all machine functions by HMI. Operator access to all machine functions via touch screen, including precise timing of key phases in the forming cycle. Recipe storage for accurate, repeatable settings, quick mould changes and production information.

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