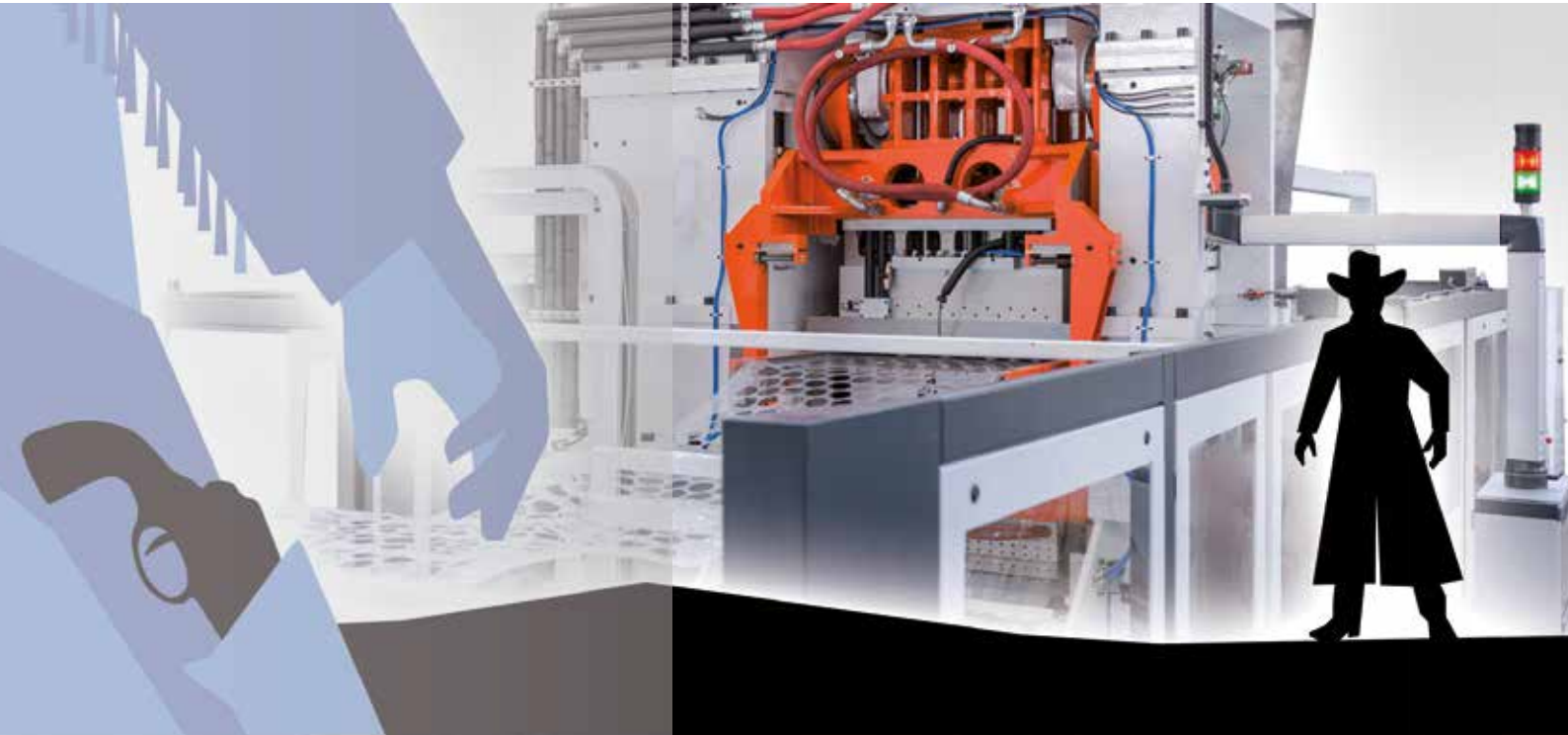


RM77 “Revolver” – the fastest on the draw



Revolving mould
thermoforming technology for
high production speed and
efficiency



High production speed and efficiencies, with any polymer or sheet structures

RM77 “REVOLVER” features a unique, patented “Rotating Mould System” for thermoforming, which allows for longer cooling times at very high speed, especially beneficial for materials like polyolefins that require longer cooling periods.

Its forming station and automatic product handling are designed for maximum output, utilizing the in-line and/or staggered cavity layouts.



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 extremely accurate servo motors. OMV's uniquely designed Air Savings device, ensure minimal use of compressed air and the regenerative braking system reduces energy demand

RM77 also features a quick mould changing system: When the tool change mode is selected, the stacking device, mounted on rails, effortlessly moves away and the lower platen rotation is positioned to allow safe and easy access to the tooling cavities and plug assists; the upper platen slides onto a special tooling changeover side table for effortless tool handling

Patented rotating mould system

Enhanced cycle time for high speed production of:

Thin and thick walled containers and materials which require longer cooling times Fast and efficient parts handling/stacking/conveying system for all kind of materials and products

Very low energy and compressed Air 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

Index drive

Servo motor driven by highly defined speed profile.

Oven

Six index steps using C-shape oven with top and bottom ceramic heating elements individually controlled via the operator oven control screens. Zones are arranged longitudinally and transversally to ensure equal index heat soaks. Special features are built into the oven to avoid sagging. Optional sheet edge pre-heaters, located at the oven entrance to reduce particulates from sheet penetration by pin chains

Forming station

Precision adjustment of Pre-Cutting and final cut penetration via operator Interface touch screen and effected by an finite adjustable eccentric device located in the upper press assembly.

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



Plug assist

Specially designed with air savings device capabilities to reduce compressed air consumption. Robust third motion servo-driven plug assist, independent from upper platen movement, capable of plugging with high velocity and power for advanced forming techniques - biaxial sheet stretching benefits

“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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