

EXJECTION®

Injection Moulding in a new Dimension

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EXJECTION®
New at the
K 2 0 0 7

Hall 15 - Stand C58

As a technological novelty EXJECTION® combines the advantages of the common technologies extrusion and injection molding, avoids their disadvantages and makes it possible to manufacture long profiles and ledges on an injection moulding machine.

Mould in Motion

At the EXJECTION®-process the mold cavity is moved rectangular to the machine axis simultaneously with the injection of the melt. The developing free cavity volume is continuously filled by the injected melt. In the forming component a pressure profile emerges which ensures a defined compression of the melt as well as the holding pressure needed. This way the accurate reproduction of surface details and the avoidance of sink marks is guaranteed.

The EXJECTION®-technology is shown to the plastics world as a world premiere at the K2007 where the process is shown on an ENGEL servo-electric injection moulding machine E-MOTION 200/55 (clamp force 550 kN) with a mold for the production of a 930 mm long thin wall profile with a wall thickness of 1,2 mm .

Superior Technology

EXJECTION® offers convincing advantages to the plastics processor:

- Fabrication of long, thin walled profiles with only one gate and a minimum of clamp force required
- Continuous filling of the mold cavity without the formation of weld lines
- Geometrical and structural component features in three dimensions even rectangular to the flow direction
- Structured surface over the whole length of the component

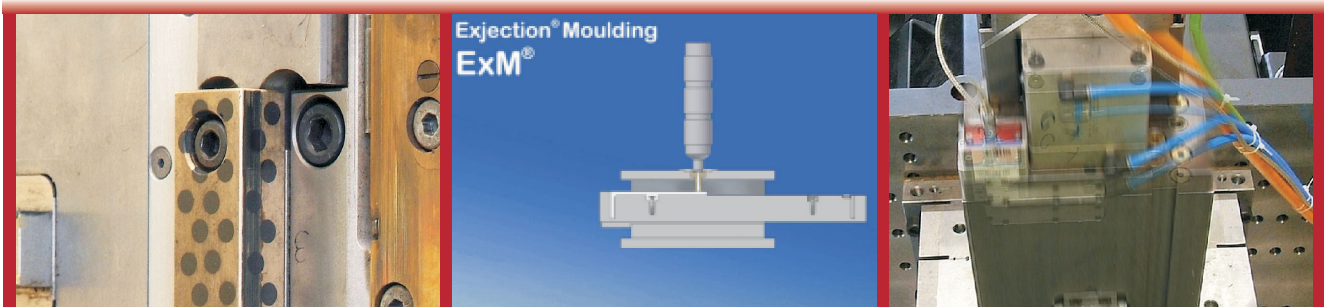
EXJECTION® Highlight PROFILE LEDGE



Technical Data

Materials:	SAN, PC, ABS, PP
Total Length:	930 mm
Wall Thickness:	1,2 mm
Volume:	48 cm ³
Injection Pressure:	ca. 300 bar
Applied Clamping Force:	ca. 50 kN

- Very low amount internal stresses due to minimal melt orientation
- Superior cost effectiveness at the production due to low investment and low operating costs



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