

**ABSTRACT****A Form Locking Device for Injection Molding Machines**

In the case of a form locking device for an injection moulding machine, there are mounted in the fixed and in the movable mould clamping plates screw drives which are freely rotatable in the fixed mould clamping plate and are axially braced in one direction and which are mounted in the movable mould clamping plate in spindle nuts which are mounted therein. To actuate the screw drives for the closing and opening strokes of the movable mould clamping plate, a rotary drive is provided and similarly, for building up the closure force, a hydraulic piston-cylinder unit which is operatively connected to the screw drives. In order to ensure that while guaranteeing a high closure pressure by the hydraulic piston-cylinder unit, the propulsion drive of the drive screws need only be designed essentially to meet the demands of a rapid opening and closing movement, it is proposed that the hydraulic piston-cylinder unit consist of one or a plurality of pistons and hydraulic cylinders, pressurised medium being applied to it, in order to build up closure pressure, by piston-cylinder units adapted to be driven by drive screws, through the interposition of pressure transmitting means.

Fig. 1