

Getting to grips with plastic mould removal

Simply ejecting parts from moulding machines can cause numerous issues, including contamination, part damage, part loss, and increased costs.



Industry Sector:
GENERAL ENGINEERING

Application:
MOULDING MACHINES



50% of a typical car's volume is made up of plastic parts. Every new model, or face lift, results in new plastic designs requiring new tooling to maintain product integrity and control costs. **Piab's End-of-Arm-Tooling systems can help reduce associated costs.**

Problem:

Multi-faceted, and with a diverse range of different shapes and sizes of moulds, the plastics industry is a particularly demanding customer.

Added to this, many of the products are fragile and easily damaged, meaning that handling these quickly and efficiently is always difficult, not to mention the downtime, and associated costs, required to specify, design and manufacture a suitable solution.

Any mould handling system, operating in such environments, must be flexible and offer a cost-effective solution.

Solution:

Following recent acquisitions, **Piab's End-of-Arm-Tooling (EOAT)**, gripper components and systems combine the best of two global and European manufacturer's ranges, allowing for the design of bespoke end of arm effectors, ergonomic tools or fixture tools for use on all types of automation equipment.

The range not only consists of both round and square profiling, and the advantages which both options offer, but also profile frame connectors, sprue/part grippers and cutters, gripper fingers, mounting arms and clamps, vacuum pumps, vacuum suction cups and quick change interfaces, offering full flexibility in the design of specific end of arm tools.

The vacuum ejector pumps in the range, and based on the latest COAX® technology, provide an advanced solution for creating vacuum with compressed air, offering multistage cartridge technology, which is smaller, more efficient and more reliable than conventional ejectors.

Through Piab's great expertise, tailor made solutions can also be provided for various applications and across all industries.