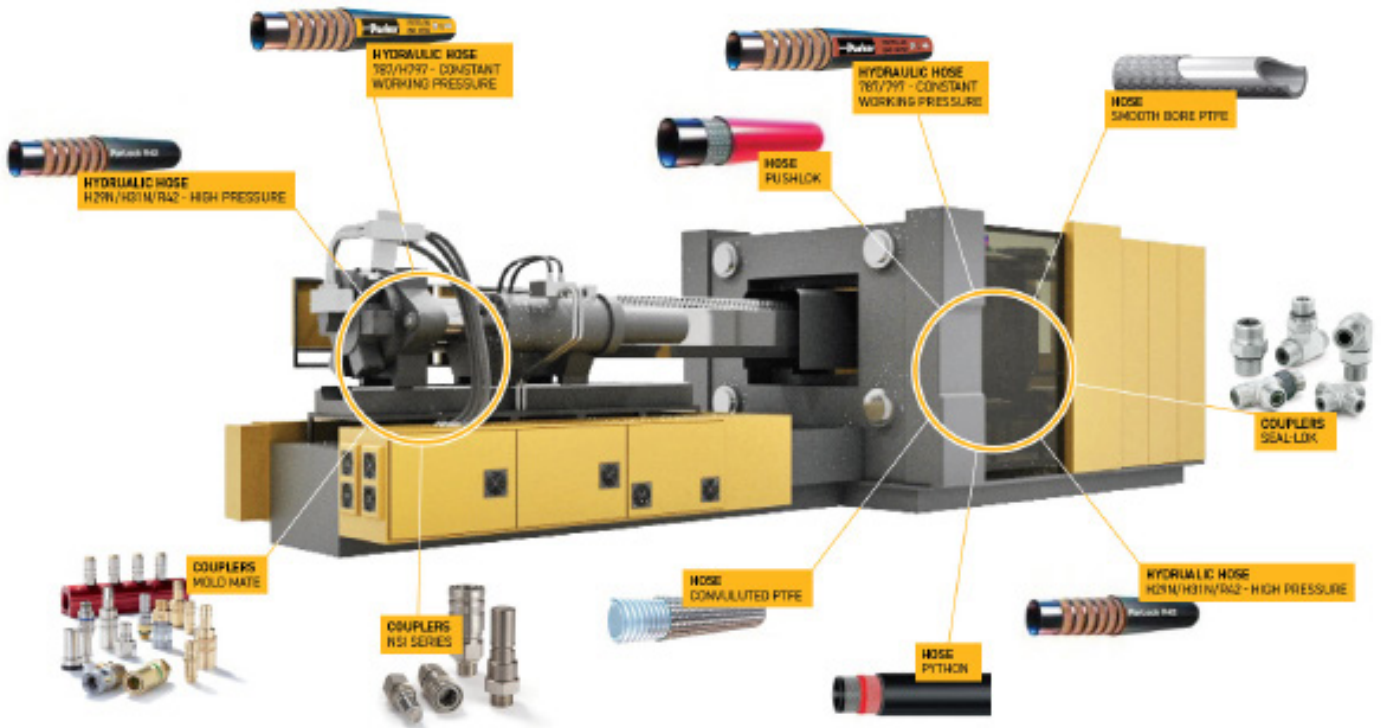
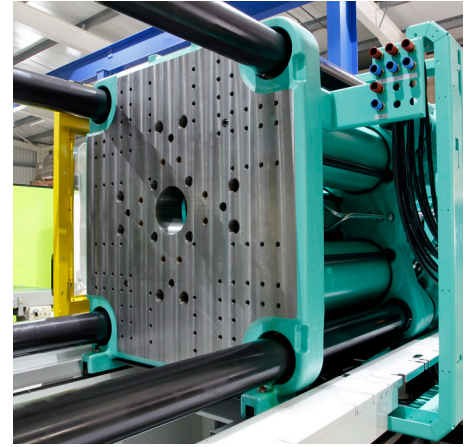


Injection Moldings

Industrial

Application Overview

Injection Molding Machines with increased power and decreased space require innovative solutions. Traditional manufacturing techniques capable of achieving these two desires would be prohibitively expensive.



Innovative Products for Injection Moldings

Injection Molding Machines are used for production of plastic parts. Plastic is melted and injected into a mold through injectors. After tempering it is finally cooled down and rejected.

Relevant machine parts are:

- Hydraulic unit: which is used for closing and opening the mold as well as to keep the mold closed during injection process.
- Hot Runner System unit: which includes the hydraulic/pneumatic control of the injectors as well as the temper management of the mold.
- General cooling and tempering: of different components of the machine



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Customer Challenges

In all parts of the machine the manufacturer is looking for products which can be easy assembled and mounted. Due to high temperature, high pressure and heavy work load manufacturer must fulfil high standards of safety requirements. That's why manufacturers ask for tested, qualified and approved components which comply to high safety regulations

- Hydraulic Unit Needs hoses which complies to high safety standards due to high pressure and which provide long life cycles. These hoses must manage dynamic pressure (impulse stability) and provide abrasion, UV/Ozone as well as oil resistance
- Hot Runner System High temperature small bore hoses with compact design due to very limited space
- General Cooling and Tempering Thermoplastic and rubber hoses with tight bend radius, ability to handle high temperature and provide chemical stability.



Application Differentiators

Hydraulic Unit:

- Broad rubber hose portfolio with different pressure classes and different cover material which fits perfectly customer requirements.
- Tested and qualified hose fitting combination which complies to high safety standards
- Easy assembly with KarryKrimp system
- World wide availability through Parker distribution network
- Parker Tracking System which enables easy machine maintenance

Hot Runner System:

- Reliable and safe PTFE hose assembly with tight bend radius and compact fitting design which is optimized to the limited space in the application
- Complies to high safety standards

General cooling and tempering:

- Reliable and safe large bore PTFE hose assembly with tight bend radius and tested hose fitting combination. Large bore industrial rubber hoses
- Insulation which is abrasion resistant