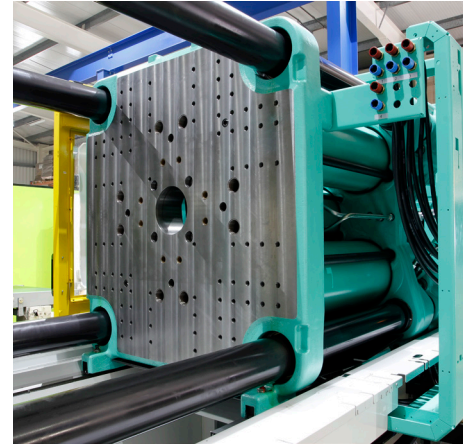


# Injection Moldings

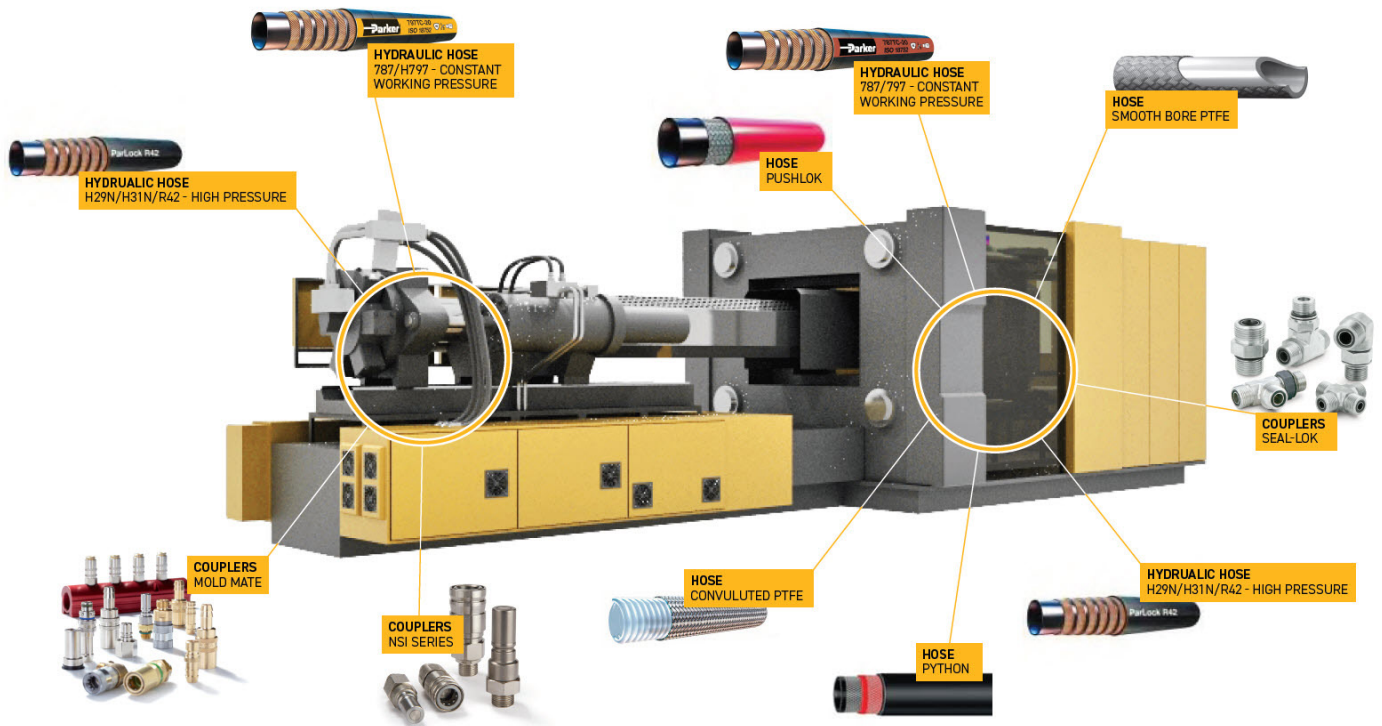
## Industrial

### 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.



Click the images below for additional information.



### Innovative Products for Injection Moldings

Injection molding machines are used for the production of plastic parts. Plastic is melted and injected into a mold through injectors. After the liquid plastic has cooled down and solidified, the mold is finally ejected.

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 easily assembled and mounted. Due to high temperature, high pressure and heavy work load the 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.

- The hydraulic unit requires hoses which comply to high safety standards due to high pressure ranges and long live cycles. These hoses must manage dynamic pressure (impulse stability) and provide abrasion, UV/ Ozone and oil resistance.
- Hot runner systems require high temperature, small bore hoses with a compact design due to very limited space.
- General cooling and tempering requires thermoplastic and rubber hoses with a tight bend radius and the ability to handle high temperatures while providing chemical stability.



## Application Differentiators

Hydraulic Unit:

- Broad rubber hose portfolio with several pressure classes and various cover material which fits many different customer requirements.
- Tested and qualified hose and fitting combinations, 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 small bore PTFE hose assemblies with a tight bend radius and compact fitting design optimized to fit the limited space within the application
- Complies to high safety standards

General Cooling and Tempering:

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