

TRUFLO®

AUTOMATIC MOLD HANDLING SYSTEM



The dynamic capabilities of this system can be designed to fit specific requirements. We can engineer, manufacture, and install a mold handling system to work with your system.

TRUFLO®

Automatic Mold Handling Systems

Truflo® has meant reliable, efficient mold handling for over 40 years. Vulcan has installed over 150 Loop Series systems worldwide, as well as incorporated numerous recent upgrades. Now **Truflo®** takes mold handling to the next step. **Truflo®** offers more flexibility no matter what type of mold or flask handling you require.

Truflo® employs in-line pouring to simplify the pouring monorail, so alignment is easier and faster for the pourer. In-line pouring also increases the production rate and decreases temperature loss and fade.

Truflo® offers configuration and performance advantages that allow for easier integration into your existing foundry location. The simplicity of the design eliminates the need for extra equipment including hydraulic cylinders, valves, limit switches and electrical controls. **Truflo®** provides a simplified design and approach to mold handling. Each system is assembled, piped and tested in our facility to speed start-up. The simple design reduces excessive equipment and provides easier access to components for inspection and maintenance.

We offer 2 configurations, the L Series and the H series as standard models. The dynamic capabilities of the **Truflo®** are not limited to these two configurations however. We can work with you to engineer, manufacture and install a **Truflo®** mold handling system that fits your specific requirements.

Special Features

Hydraulic System

- Continuous Recycling kidney loop 5 micron filter
- Easy to maintain air-heat exchanger
- Heavy-duty industrial brand cylinders
- Pre-assembled piping and manifolds
- Pressure compensating pump with variable displacement for operating efficiency
- Modular prepackaged power pack
- In-tank heater with built-in thermostat
- Overload monitoring system
- System overload protection with an Internal pressure switch



Molding Sand/ Over-pour/ Tramp Protection

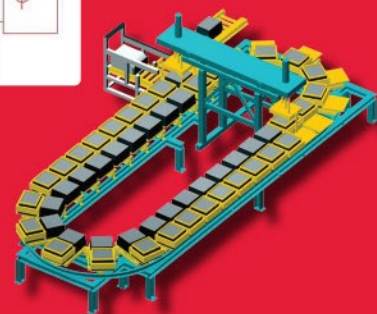
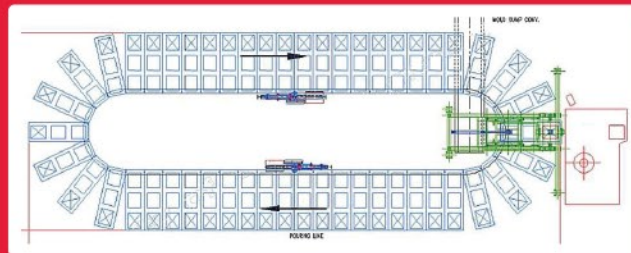
- Continuously sweeps drive links
- Optional "trip" device to sense obstructions

Sensor to detect if cope gets stuck in jacket

Floating counterweighted jacket setting device

L Series or "Loop" Advantages

- Simple, Trouble-free design
- Only 2 drivers required for the entire system
- Minimal moving parts
- Hardened Heavy-duty rail for long life & reduced maintenance.
- Components are designed for long life
 - Sealed for life Mast Bearings
 - Hardened Heavy-duty rail
 - Heavy-duty structural components
- All units are fully assembled and tested at our facility



*Features and options subject to change without notice.

**The product(s) quoted herein are protected by the following U.S. or multinational patent and/or other patents pending: 6216767



Heavy-duty cars and track

- Heavy-duty cars with containment feature
- Heavy-duty car wheels to provide accuracy and long-life
- Symmetrical AR end radius tracks
- Allows flipping of tracks for an even longer life

Positive Mold Load

- Position lock will pre-position the car for precise mold loading



Heavy-Duty Railing



Car Wheels



Mold Loader



Cope Detector

Positive Lock Drivers

- Replaceable sacrificial jaws
- Mounted inside the loop for easy access and protection
- Equipped with proportional valves for smooth control of acceleration/deceleration of entire line

Operator Interface Module

- Allows operator to monitor system and make adjustments to the equipment
- System modem for remote access/debugging
- Alarm messages and system overview of field devices to aid the operator in troubleshooting system faults
 - Index driver position
 - Hydraulic pump stats
 - Mold Loader status
- Screens provided for Start/Stop of equipment and system status
- Manual control of the different parts on the equipment can be controlled and status of the equipment monitored
- Speed, ramp, and position set points can be adjusted on various moving parts to provide smooth operation
- Step sequence logic shows operational sequences of various parts of the equipment to aid in troubleshooting



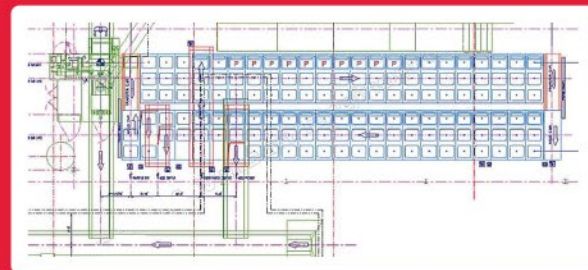
Lock Jaw



Positive Lock Drivers

H Series or "Horizontal" Advantages

- Simple, Trouble-free design
- Hardened Heavy-duty rail for long life & reduced maintenance.
- Ability to save space by being more compact
- Components are designed for long life
 - Sealed for life Mast Bearings
 - Hardened Heavy-duty rail
 - Heavy-duty structural components
- All units are fully assembled and tested at our facility





AUTOMATIC MOLD HANDLING SYSTEM

Truflo® Configurations

Truflo® 2L

- Loop layout with 2 molds per car
- Loop layout with 2 molds per car with Jackets on interior and exterior molds.

Truflo® 1H

- Horizontal layout with 1 mold per car

Truflo® 2H

- Horizontal layout with 2 molds per car

Truflo® 3H

- Horizontal layout with 3 molds per car



ADDITIONAL SYSTEMS & EQUIPMENT



Sand Systems



Complete Projects



Robots & Manipulators



Finishing Equipment