



Truck-Mounted Stripers

System Comparison and Information

Pressure Pot Air-Atomized System

Air pressure moves paint from ASME-certified tanks to the paint guns, without the need for a pump during striping. Diaphragm pump used to fill tanks from the paint source.

Advantages

- Simple to operate and maintain
- Highest level of reliability
- Control of paint and atomizing pressure
- Lowest cost to maintain
- Wide range of vehicle speeds and paint viscosities

Disadvantages

- Paint tank layout on platform is limited
- Tanks require de-pressurization prior to opening
- Weight distribution options are limited

Pumper Air-Atomized System

Pumpers utilize a non-pressure square, round or paint-manufacturer-supplied tote tank. Pressure is generated by an air diaphragm pump that pressurizes the paint throughout the system. Because of lower weight, more paint can be stored on a chassis of equal GVW than on a unit with pressure tanks. Using paint manufacturer tote tanks, loading can be done by lifting the tote into a set of guides, then connecting the paint discharge directly to the diaphragm pump.

Advantages

- Simple to operate and maintain; easy to clean tank
- Wide range of vehicle speeds and paint viscosities
- Either permanent or tote tanks
- Allows good optimization of platform layout
- Excellent control of paint and atomizing pressure

Disadvantages

- More maintenance compared to a Pressure Pot System
- More wear in the low-pressure pumps
- Diaphragm pump is used during striping

Airless System

High pressure (800-2000 psi) piston (hydraulic- or air-operated) pump delivers paint to a special airless paint gun. A low-pressure pump is used to “charge” the high-pressure pump moving the paint from the paint tank or heat exchangers. The high-pressure and small tip produce a sharp pattern.

Advantages

- Excellent paint line definition
- Optimization of platform layout
- Either permanent or tote tanks

Disadvantages

- Paint gun elevators may be needed
- High-cost repair and replacement parts
- Highest degree of maintenance
- More complicated to operate
- Two separate paint systems required: filling and striping

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