



Locomotive Sanding Systems

for
Locomotive Maintenance Facilities



Transportation Products



The Macton Corporation's approach to rail vehicle sanding is unique in the Industry. Our line of sanding equipment does not have a standard product that utilizes one process for sand transfer and requires a specific predetermined facility design. We recognize that one solution does not address all sanding issues. Macton's sanding systems are engineered to meet a specific customer's preferences as well as site requirements including the facility plan. For this reason Macton sanding systems may utilize one or more methods of transporting sand in the system including; gravity, pressure, and mechanical conveyance. Macton designs each total system configuration to meet the specific requirements of an application regardless of the method of sand transfer.

Common to all of Macton sanding systems is a sand storage silo or tank. While the configuration and capacity of the sand storage silo will vary from each specific project, certain aspects of the storage silo remains constant. These items include; method of filling, dust filtration, sand level monitoring, pressure control, and access to the top of the silo.

Engineered & Built to Last

Typical Sanding System Installations



Pressurized Sanding System

The pressure system has a 30 ton storage capacity and is equipped with two sand transporters for delivery of sand to the locomotive. Sanding stations are located on opposite sides of the service track at rail level. The service technicians place the sanding wand into the locomotive sand box and open a manual valve on the sanding wand to transfer sand.



Sand Towers with sand storage capacity from 10 to 40 tons. The tower can be supplied with 1 to 4 sanding spouts each controlled by electric winch, incorporating a backup safety device to control the spouts. Towers are equipped with filters to contain dust as well as a sand level monitoring system for low-level warning. Optional stairs, lighting and platforms are available for safe locomotive access by service personnel. Each tower is equipped with OSHA approved caged ladders and platforms with railings.



Sand Gantry Cranes

are the safest method available for sanding locomotives on multiple tracks. Operators ride in a cab on the crane which eliminates the danger of climbing on the locomotive. The sand storage silos are designed to suit site requirements.

Indoor Sanding Systems may use both pressure and gravity sand transfer processes for sand delivery. Sand may be stored silo located outside of the maintenance facility. Sand from the storage silo is pumped by a transporter to sand bins mounted to the inside of the maintenance facility. Sand flow from the storage silo to each bin is performed automatically on demand. Each bin is equipped with sanding spouts that attach to swivel valves. With the sand spout lowered, sand flows from the bin to the locomotive sand box via gravity through a hose and nozzle.



Please call Macton for more information on a specific type of Sanding System . Macton combines over 30 years of Rail Shop Equipment experience with extensive in-house engineering capability to provide our customers with the option of custom-engineered systems to accommodate special applications or site requirements.

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