

R o b o R o l l



Hawkeye Pedershaab
Concrete Technologies Worldwide TM

- Robotically Unstack and Unload Concrete Pipe

RoboRoll

Robotically Unstack and Unload Pipe.

RoboRoll mechanizes the entire concrete pipe unstacking and unloading process, including transporting the pipe to the rear-mounted concrete pipe unloader. A hydraulically powered carriage secures the pipe and transports it to the pipe unloader. There's no need for the truck driver to bar, jack, or roll the pipe. Several available control packages allow the truck driver to unload pipe from the convenience and safety of the cab, or outdoors with remote radio controls. The RoboRoll is designed to mount to any flatbed trailer and is powered from a standard wet kit and 12V DC service.

System Benefits

Eliminates manual operations. The entire unloading process is mechanized. There's no need to pry, jack, or roll pipe down the trailer to the unloader. The RoboRoll's powered carrier quickly and safely transfers the pipe to the rear-mounted Pipemaster for unloading.

Unstacks vertical rows of pipe. Haul more pipe with each load. The RoboRoll can unstack and unload double or triple-stacked pipe. The RoboRoll's variable speed carrier secures the pipe and creeps the lower pipe forward as the upper pipes gently unstack

Efficiently unloads and places pipe. Available operating modes allow pipe to be closely stacked or strung out at the job site. Cab-mounted or radio-controls allow the truck driver to precisely and efficiently place pipe.



Two Operating Modes

Model JIC

The JIC operating mode allows pipe to be unloaded from the cab of the truck. All unstacking and unloading motions are controlled with cab-mounted controls. As pipe are unloaded, the driver can advance the truck and continue unloading without leaving the truck's cab. Strategically placed cameras monitor the pipe rolling action and the area behind the trailer's Pipemaster unloader.



Model RRC

To reduce equipment requirements, pipe can be robotically unloaded with remote radio controls instead of inside the cab. This provides the benefits of robotic pipe unloading at a lower investment cost. The driver operates the RoboRoll outside of the cab, with direct visibility of the unloading operation. With remote unloading, cameras are not required and unloaded pipe are manually chocked.



1. Powered Pipe Chock

A powered chock secures the unloaded pipe until they are released for unloading. Device is always in the "chock mode" until next pipe needs to be unloaded. Powered chock is available for JIC Model only.

2. Pipemaster Concrete Pipe Unloader

Pipe are delivered to a rear-mounted Pipemaster for unloading. RoboRoll system requires an unloader with a minimum capacity of 11,000 lbs., similar to the Pipemaster models 100, 2100, or 3100W. Recommended model is the Model 3100W with a fork width of 45".



3. Powered Pipe Transport Carrier

Hydraulically powered pipe carrier securely transports pipe to the Pipemaster concrete pipe unloader. Carrier is variable speed to permit precise creep control for unstacking multiple rows of pipe. Four rollers contact the bottom outside of the pipe for secure transport. Rollers adjust to accommodate 12" through 54" diameter concrete pipe. JIC installations include steel carrier transport rails with rubber skid pads. RRC installations utilize traditional wooden stringers provided by user.



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At HawkeyePedershaab we deliver more than machines.

We deliver solutions.



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