Pipe Handling

Challenges & New Solutions

RAM SPREADERS

The safety & efficiency of handling pipes is crucial.

In the majority of cases, pipes are handled manually with slings and chains by stevedores. This process is dangerous and slow.

As pipes come with a variety of external & internal diameters, lengths, and coatings, there are many challenges to overcome to automate the pipe handling process.

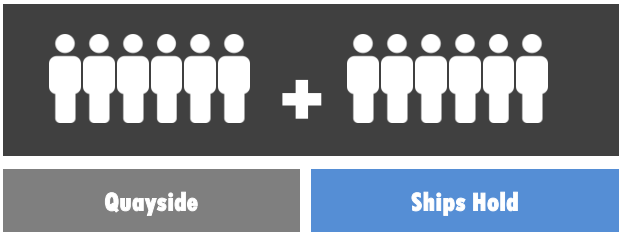
Conventional Load & Discharge

Pipe handling at ports is generally carried out conventionally with a combination of rudimentary fixed metal frames, slings, chains and hooks.

The same handling method applies when discharging pipes from a truck to yard, and then yard to ship, or vice versa.

Conventional pipe handling carries with its many operational and safety drawbacks:

- Only one or two large diameter pipes can be handled at once.
- Up to twelve workers in total are needed to handle pipes from a truck to frame handler and into the vessel's hold.
- An unstable long load in a ship's hatch can result in safety risks for employees.
- Pipe handling must be done as slowly as possible to reduce the safety risk to workers, trucks & vessels.



Pipe Handling

Challenges & New Solutions

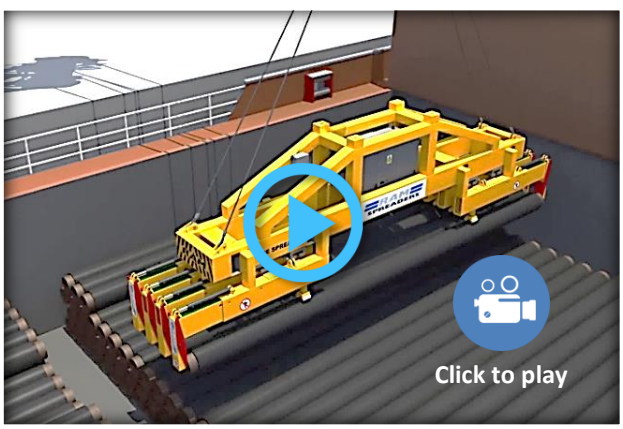
The RAM Pipe Handling Spreader

Designed for use on Ship Cranes and MHC Cranes and is capable of handling a variety of pipe diameters and lengths, thanks to its specially designed separating telescopic quad beam system.

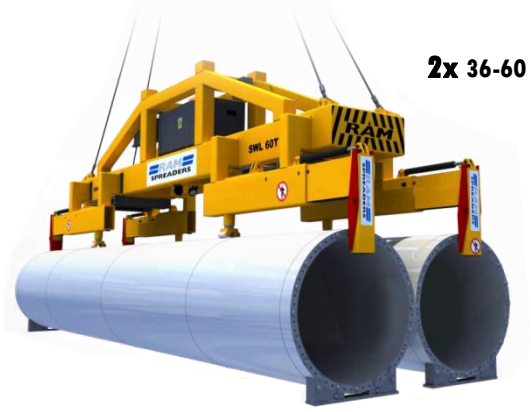
With Open Arms
At the end of each adjustable hydraulically operated telescopic beam, end grippers with pipe protection plates provide safe and secure handling of a wide variety of pipes, during lifting operations.

Lights - Camera - Action
Optional features include the very latest innovative technology to provide the crane operator vital data and information during lifting and maneuvering operations. These include a height indication system, diagnostic display, camera monitoring system, LED lighting for low light operations and a gyroscope sensor detecting angular rate and velocity.

Power Up
The RAM Pipe Handling Spreader is powered from the crane's power supply, or as an option, it can be supplied with a self-contained diesel power unit. The controls for the spreader can be performed either by remote control or from the crane operators cabin.



Lifting Configurations



Technical Specifications

Type: Pipe Handling Spreader
Application: MHC/Ship Crane/Offshore Crane
Power: Electro-Hydraulic
Control: Wireless Remote Control
SWL: 60 tonnes
Beam Type: 8 Detachable Telescopic Beams
Pipe Diameter: 4 x 14-18inch | 3 x 19-35inch | 2 x 36-60inch