

# PIPE HANDLING SYSTEMS

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Foremost designs and manufactures a series of pipe handling systems to suit your requirements, for safe and efficient handling of tubulars. Foremost's patented Pipe Handling system has been used on a variety of drilling rigs, in various applications around the world for the past twenty years to greatly increase drilling productivity and safety.

- Semi-automatic mechanical arm
- Directly mounted to the mast
- Pipe Handling operations are controlled by the driller with no other assistance
- Less time per connection - typical connection times of less than 45 seconds
- Compatible with most mast designs
- Capable of handling various lengths, weights and diameters of drill pipe (up to range III)
- Can be used in vertical, angle or horizontal directional drilling applications



**FOREMOST**

**DESIGN. BUILD. PERFORM.**

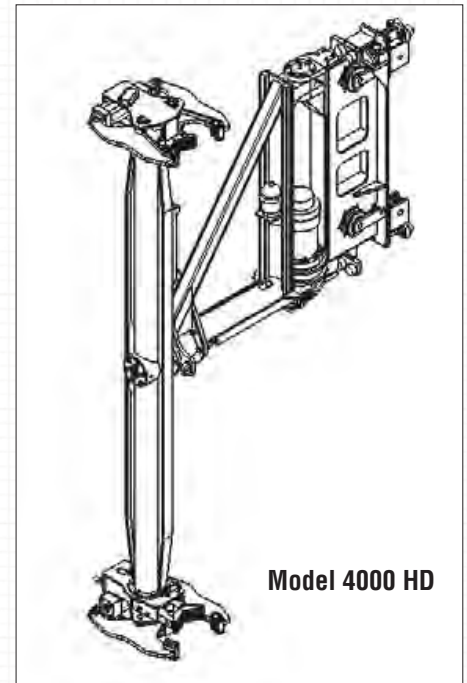
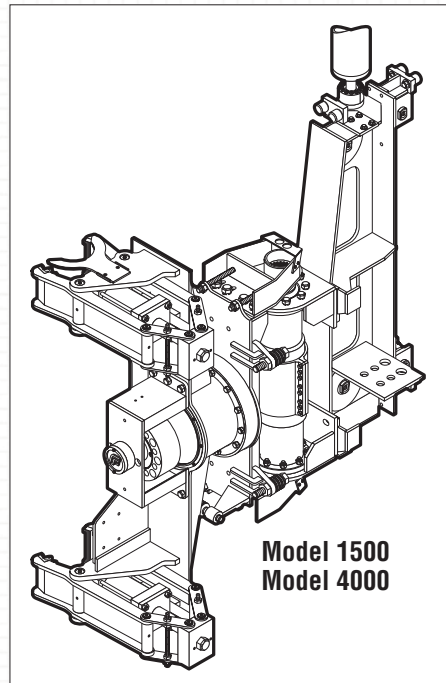
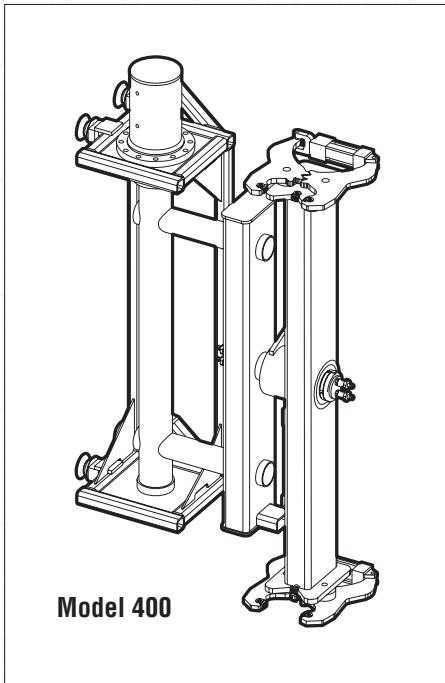
Engineered solutions for the resource industry.



# FOREMOST PIPE HANDLING SYSTEMS

SERIES	400	1500	4000	4000HD
Lifting Capacity	400 lbs	1500 lbs	4000 lbs	4000 lbs
Jaw Range	4 ½"	*2 ⅞" - 8 ⅝"	3 ½" - 10 ¾"	3 ½" - 10 ¾"
Pipe Length Capacity	Range 1	Range 2	Range 3	Range 3
Breakout Torque Capacity	N/A	12,000 ft-lbs	12,000 ft-lbs	12,000 ft-lbs
Estimated Weight	1000 lbs	3500 lbs	3800 lbs	3800 lbs

\* A special set of jaws are required for larger diameter tubulars up to 10 ¾"



## TYPICAL PROCEDURE FOR PIPE HANDLING OPERATION

The Foremost Pipe Handler is mounted directly to and parallel to the mast of the rig. Pipe Handlers are designed to engage drill pipe and collars that are positioned on a horizontal plane parallel to the drill rig and within reach of the pipe handler jaw assembly. The rod handler jaw assembly and easing firmly clamps the outside diameter of the drill pipe in two positions and once engaged, the carriage assembly is raised along the length of the mast to a point where the drill rod can be positioned perpendicular with the mast. The drill rod is then articulated directly under the spindle of the rotary drive. With the rod held stationary in the clamped position, the rotary drive is lowered until the spindle engages with the thread at the top of the drill pipe. The spindle is rotated to make up the threaded connections utilizing the pipe handler jaw assembly as a back up. With the connections made up to the proper specification, the jaw assembly is disengaged, articulated back to the side of the mast and repositioned to the loading height at the base of the mast.

