

# LITTLEFOOT RIG WALKING SYSTEM



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# LITTLEFOOT

## RIG WALKING SYSTEM



For over thirty years, Columbia Industries has been designing and manufacturing equipment for the oilfield industry.

We pride ourselves in commitment to our customers, our products, and our people. From the beginning, we have been known for superior innovation. These values, combined with our many years of manufacturing experience, have helped us grow to a position of leadership in the oilfield equipment design and manufacturing industries.



## FEATURES

### SITE-TO-SITE PORTABILITY

The entire Littlefoot system can be disassembled into truckable loads. Each of the beams has an integrated tail roll hitch making them easy to move with standard oilfield trucks. The system can be operated in poorly prepared locations and can be used to jack up the entire rig vertically for leveling if required.

### EFFICIENT ON-SITE SETUP

The Littlefoot system is easily assembled by a small crew with a crane and basic equipment. Although detailed setup instructions are provided to all customers, Columbia Industries setup assistance is readily available for interested customers to ensure a fast, efficient, and safe setup.

### WIRELESS PENDANT CONTROL

We offer the secure, encoded wireless pendant as the standard for your Columbia Rig Walking System. This allows the system operator the most freedom and visibility during rig moves. This unit also incorporates an easy access emergency stop. The E-Stop will shut down the HPU motors and valves when activated.



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# ABOUT THE LITTLEFOOT RIG WALKING SYSTEM

The Littlefoot Rig Walking System is a scalable-capacity drilling substructure and backyard moving system. The system employs the use of Hilman rollers paired with lift cylinders and a safe low pressure hydraulic system to lift the main walking beams that carry the rig weight. The Columbia walking beam is equipped with our signature jack assemblies to allow steering the load on tight pads, including transverse, crab, and even spin mode. Travel cylinders on the jack assemblies are used to accomplish the horizontal movement that moves the rig. The lift cylinders and travel cylinders actuate in sequence to move the rig at a very safe and controlled pace. This efficient design is field proven to be the safest, most reliable and precisely controlled rig moving system available. The jack assemblies are mounted in the walking beam to allow easy shipping of the walking system.

Littlefoot Rig Walking Systems are being used in several countries and climates around the world, from the sub-zero temperatures of Canada to the scorching heat of the Middle East. Columbia Industries can design a system to fit your operational environment and design constraints.

## DIVERSE STEERING MODES

With Columbia's specialized jack assemblies mounted directly into the walking beams, a full utilization of the 270 degrees of steering, including circular and lateral modes, can be achieved.

## SCALABLE CAPACITY & CUSTOM DESIGN

The design concepts employed by Columbia Industries in this design are customizable and scalable. Contact us for information and options regarding your specific application. Custom design and fabrication is our specialty.



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## SPECIFICATIONS

### CAPACITY

Standard beam lengths from 20' to 70'. Beams can be pinned together for increased lengths and capacities. Scalable capacity to 12,000,000 lbs. or more.

### WALKING SPEED

The standard configuration will move 50 feet per hour (15 meters per hour).

### SAFETY FEATURES

The Littlefoot Rig Walking System uses a safe, low-pressure hydraulic system. The main lift cylinder hydraulic circuit is equipped with counterbalance valves.

In the event of a hose rupture or breakage on the machine, these valves will hold the cylinders in position. Emergency stops are mounted on the power unit as well as the control pendants. The E-stops shut down the hydraulic power unit motors and valves.

### WALKING CYCLE

Lift cylinders raise the rig. Then, travel cylinders push the module along the foot plate on Hilman rollers. The lift cylinders then lower the load and the travel cylinders retract for another push cycle. Steering adjustments are made manually while the load is off the rollers. Automated steering is available.

### HYDRAULIC POWER UNIT

The system can be powered by a Columbia hydraulic power unit, requiring only a 3-phase power connection for operation. Or, your system can be configured to utilize existing rig hydraulics. The power unit can be located on top of the unit itself, near the rig modules, or within the rig structure. Optional diesel-powered units are available.

### PAINT

We prepare surfaces for the paint process with a thorough blast cleaning and apply a three-part epoxy paint system in the customer's choice of color.

Columbia Industries LLC reserves the right to make changes to specified features and components without notice.

# CUSTOMER SUPPORT

## 866.531.0600