

KODIAK CUB

RIG WALKING SYSTEM



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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 Kodiak Cub rig components can be disassembled into trailer-sized loads for transportation, helping to simplify system movement and delivery.

DEDICATED HPU

The Kodiak Cub can be powered by the rig's existing hydraulic system or by an optional electrical hydraulic power unit. All of the hydraulic power options are easily mounted to the side of the substructure for ease of operation.

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 KODIAK CUB RIG WALKING SYSTEM

The Kodiak Cub Rig Walking System is designed to move drilling rig substructures. This system uses rollers paired with proprietary oversized lift cylinders and a low-pressure hydraulic system to lift and move the entire rig substructure. The Kodiak Cub Rig Walking System can be engineered to fit and attach to your rig.

Additional system features include:

- + Scalable to meet any lifting requirement
- + Safe, low pressure hydraulic lift and roll system
- + Accurate and easily-adjustable steering
- + Can be retrofitted to existing rig substructures
- + Easily moved in trailer-sized loads



VERSATILE STEERING

This system allows for several steering modes, including spin mode. Manual steering is easily accomplished with just one operator, and corrections are made in 5° increments.

BATCH DRILLING

The Kodiak Cub enables your rig to move quickly from well to well with a full load of pipe in your setback. Multiple rig travel speeds and the use of hydraulic cylinders allow you to simply and accurately position your rig over the well.

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SPECIFICATIONS

CAPACITY

Capacities from 1,200,000 lbs. up to 3,000,000 lbs. are available.

CYCLE TIME

Approximately 120 seconds to travel 30 inches allows for precise positioning of the entire structure within 1/16".

SAFETY FEATURES

The Kodiak Cub 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 wireless control unit. The E-stops shut down the hydraulic power unit motors and valves.

WALKING CYCLE

Four lift cylinders raise the rig. Then, travel cylinders push the substructure along the walking feet on the rollers. The lift cylinders then lower the load and the travel cylinders retract for another pushing cycle. Steering adjustments are made manually while the load is off of the rollers.

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.

PAINT

We prepare surfaces for the paint process with a thorough 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