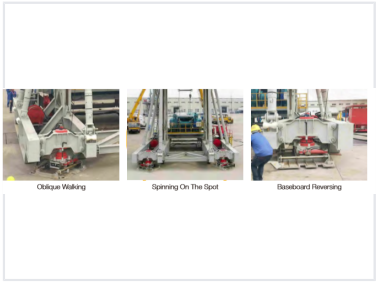
Multi-Directional Walking System for Heavy Structures

This walking system is designed for moving heavy structures using a walking device, control box, hydraulic pipeline, and HPU. It facilitates multi-directional movement and rotation around a center point, accommodating cluster well operation requirements.



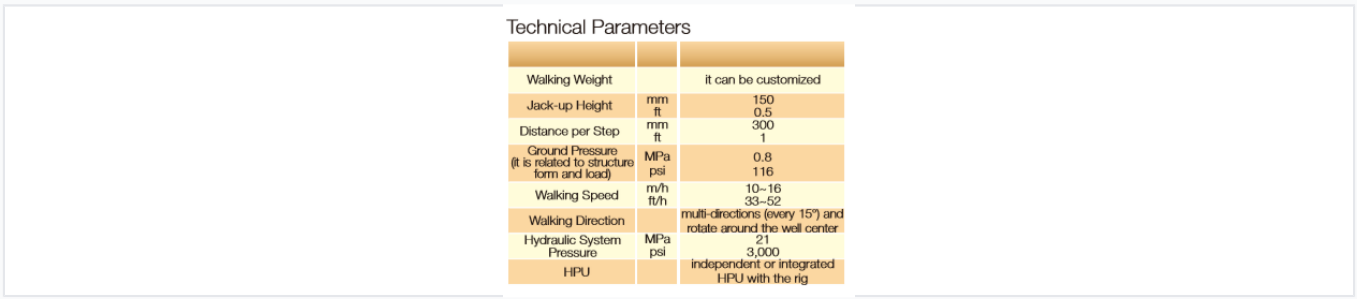
ADDITIONAL IMAGES

Product Overview

Heavy-Duty Multi-Directional Walking System

This advanced walking system is engineered for the precise relocation of heavy structures such as drilling rigs. It features a multi-directional movement capability, allowing for navigation in any direction at 15° increments and rotation around the well center. Designed for safety and stability, the system incorporates a double roller chain design to minimize ground pressure and a rotary support structure for seamless maneuvering.

Operational Metrics


Technical Parameters

Walking Weight		it can be customized
Jack-up Height	mm ft	150 0.5
Distance per Step	mm ft	300 1
Ground Pressure (it is related to structure form and load)	MPa psi	0.8 116
Walking Speed	m/h ft/h	10~16 33~52
Walking Direction		multi-directions (every 15°) and rotate around the well center
Hydraulic System Pressure	MPa psi	21 3,000
HPU		independent or integrated HPU with the rig

System schematic illustrating multi-directional walking capabilities and hydraulic system layout.

Walking Performance

150 mm	300 mm	16 m/h
Jack-up Height	Step Distance	Max Walking Speed

Technical Specifications

Parameter	Value
Ground Pressure	0.8 MPa (116 psi)
Hydraulic Pressure	21 MPa (3,000 psi)
Walking Increment	15 degrees
Walking Speed	10-16 m/h

System Design

Deployment Options

- Integrated into substructure base
- Hung on substructure ends
- Independent or rig-integrated HPU operation

Key Design Features	Double Roller Chain Structure, Multi-Directional Movement, Rotary Support Structure, Integrated HPU, Baseboard Reversing