

FORJEN 前进

TRACKED HIGH-ALTITUDE
LIFTING PLATFORM-31M

COMPREHENSIVE UPGRADE



CANGZHOU FORWARD ROLL FORMING MACHINERY MANUFACTURING CO., LTD.

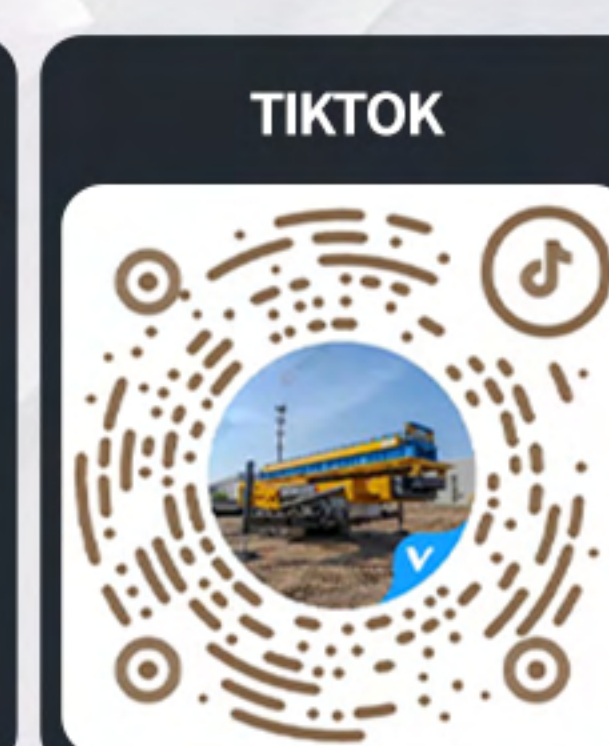
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114m²
FULLY EXTENDED

31m
LIFTING HEIGHT

3T LOAD CAPACITY;
CAPABLE OF LIFTING A 15T ROLL FORMING MACHINE.
RATED LOAD

5t
TRUCK CRANE DATA

PRODUCT INTRODUCTION

The JSFDD31-8-25-15LD is a crawler-type multifunctional heavy-duty aerial work platform featuring a precise design and stable structure. The working platform area is 114 m², with a maximum lifting height of 25 m and a maximum load capacity of 3 tons.

The working platform is equipped with six sets of high-strength hydraulic cylinders. The wing-supported triangular structure provides enhanced stability, with a diagonal span exceeding 15 meters and a load capacity of 3 tons, enabling safer and more efficient high-altitude operations.

The crawler travel system adopts industry-leading engineering design and integrated customization. It offers high precision, a large ground contact area, and strong power, with a travel speed of up to 30 m/min, making it well-suited for diverse construction environments such as hills, sandy terrain, rain, and snow.

It comes standard with a 13.5 m, 5-ton truck-mounted crane. The boom height is 380 mm. The octagonal high-strength boom structure ensures stability, strong load-bearing capacity, durability, and reliable performance, supporting independent lifting operations with assisted hoisting for safer and more efficient use.

APPLICATION SCENARIO

Reverse-suspended roofing
Wall panel installation
High-altitude roll forming
High-altitude construction
Tunnel repair
Photovoltaic (PV) installation



Performance Section

Advanced Technology · Strong and Durable

- The lifting boom arm is made of high-strength T700 steel, precisely milled and bored with advanced manufacturing processes. It offers strong resistance to wind load and shear force, making it well-suited for harsh environments such as high-altitude and coastal regions.
- Equipped with a 190 HP Yunnei diesel engine, it features advanced technology and strong power output, delivering excellent climbing capability. The machine is lightweight with high fuel efficiency, low carbon emissions, and ensures safe and reliable operation.
- Key components are carefully selected for premium quality. The whole machine is fitted with copper bushings, imported sensitive multi-way valves, and high-precision oil seals. This significantly improves stability, reduces failure rates, and ensures efficient and safe high-altitude operations.
- The entire structure undergoes shot blasting for rust removal, followed by four layers of industrial-grade paint spraying. The coating thickness reaches 150–180 μm , effectively resisting environmental corrosion, improving platform safety, extending service life, and reducing maintenance and failure rates.



Performance Section

Powerful Performance · Boosted Efficiency

- The JSFDD31-8-25-15LD is a crawler-type multifunctional heavy-duty aerial work platform. It features a precise design and stable structure. The platform working area is 114 m², with a maximum lifting height of 31 m and a maximum load capacity of 3 tons (or up to 15 tons when lifting roll forming machines during sheet forming operations).
- The working platform is equipped with six sets of high-strength hydraulic cylinders. The wing-span supporting triangular structure provides enhanced stability, with a maximum diagonal span of 9.2 meters and a load capacity of 3 tons, ensuring safer and more efficient high-altitude operations.
- The crawler travel system adopts industry-leading design technology and integrated customization services. It offers high precision, a large ground contact area, and strong driving power, with a travel speed of up to 30 m/min, making it well-suited for complex environments such as hills, sandy terrain, rain, and snow.
- It comes standard with a 13.5 m, 5-ton truck-mounted crane. The boom height is 380 mm. The octagonal high-strength boom structure ensures excellent stability, strong load-bearing capacity, durability, and long service life. It supports independent lifting and auxiliary hoisting operations, ensuring safer and more efficient construction performance.

Performance Section

Intelligent Safety · High-Altitude Protection

- The lifting boom arm is made of high-strength T700 steel, with precision milling and boring processes and advanced manufacturing technology. It features strong wind resistance and shear resistance, making it well-suited for high-altitude and coastal environments.
- The machine is equipped with a 190 HP Yunnei diesel engine. It adopts advanced technology with strong power output and excellent climbing capability. It is lightweight, fuel-efficient, has a high fuel-to-power ratio, and is environmentally friendly, safe, and reliable.
- High-quality selected components are used throughout the machine. It is equipped with copper bushings, imported sensitive multi-way valves, and high-precision oil seals. This improves overall stability, reduces failure rates, and ensures safe and efficient high-altitude operations.
- The whole machine undergoes shot blasting for rust removal, followed by four rounds of industrial-grade painting. The paint thickness reaches 150–180 μm , effectively resisting environmental impact, extending service life, enhancing platform safety, and reducing maintenance frequency.

Equipment Specifications

Project	Specification
Equipment steel plate material	T700
Structural steel material of equipment	T700
Crawler chain	Pitch: 190
Travel motor	TM70; Torque: 65,000 N·m
Diesel engine	190 HP Yunnei diesel engine
Hydraulic pump	Constant-power variable piston pump + Kawasaki double pump
Pump motor	Dual 15 kW motors
Hydraulic oil pipe	Galvanized high-pressure bright steel oil pipes
Main control valve	Load-sensitive electromagnetic valve system
Rated personnel load capacity	15 persons capacity

Physical Parameters of Main Structure

Wind resistance rating: Level 4 wind	Platform load capacity: 3 tons
Machine static dimensions: 13.5 m × 2.8 m × 3.2 m	Machine weight: 45 tons Lifting height: 31 m
Maximum platform span: 12 m × 9.5 m	Outrigger span: 8 m × 8 m

