

BW30S Articulated Wheel Dumper

3-Ton Payload, **Unmatched Performance**



PRODUCT OVERVIEW

BW30S Articulated Wheel Dumper

A 3-ton capacity articulated 4WD diesel dumper engineered for seamless material transport across rough, unpaved terrain. Its robust build and agile design make it indispensable for construction, agriculture, and municipal projects requiring superior off-road capability.

KEY FEATURES



Articulated Frame

Exceptional maneuverability for navigating tight, congested worksites with ease.



4WD Traction

Superior grip on slippery, muddy, or uneven ground for reliable performance.



Hydraulic Tipping

Fast, efficient unloading to minimize cycle times and boost productivity.



Compact Design

Easy transportation between sites and access to confined, hard-to-reach areas.



3-TON PAYLOAD | 4WD | HYDRAULIC TIP

KEY ADVANTAGES



Superior Terrain Adaptability

The articulated frame and 4WD system ensure exceptional performance on muddy, uneven, and sloped terrain, solving the "last mile" transport challenge where larger trucks cannot go.



High Efficiency & Productivity

With a 3-ton payload capacity, the BW30S significantly reduces the number of trips compared to smaller wheelbarrows or tracked carriers, replacing extensive manual labor with a single operator.



Easy Maintenance & Low Cost

Powered by a reliable, domestically produced Xinchai diesel engine with widespread availability of parts and service networks, ensuring low maintenance costs and minimal downtime.

TECHNICAL SPECIFICATIONS

01 VEHICLE

Model: **BW30S**
Payload: 3000 kg (3 tons)
Weight: 2350 kg
Dimensions: 4170×1650×2935 mm
Turning Radius: 4.6 m (Compact)
Drive: 4-Wheel Drive (4WD)
Gradeability: 30% Max

02 ENGINE

Model: **Xinchai 4N27G-002**
Rated Power: 30 kW / 2300 r/min
Max Torque: 140 Nm / 1600 rpm
Emission: China II Standard
Type: 4-Cylinder Diesel
Cooling: Water-Cooled System
Fuel Efficiency: Highly Optimized

03 WHEELS & CHASSIS

Tires: 295/80-15.3 (Heavy-duty)
Wheelbase: 1950 mm (Stable)
Track Width: 1355 mm
Brakes: Hydraulic Disc Brakes
Suspension: Leaf Spring Type
Frame: Heavy-duty Articulated
Max Speed: 16 km/h

PERFORMANCE HIGHLIGHT: Engineered for superior traction, stability, and maneuverability to tackle the most demanding work environments.

CORE CONFIGURATION

Powerful & Reliable Engine

The BW30S is equipped with the Xinchai 4N27G-002 four-cylinder diesel engine, a proven workhorse in the construction machinery industry, delivering exceptional power and durability.

High Torque

140 Nm at 1600 rpm, providing ample power for heavy loads and steep climbs.

Electronic Shutoff

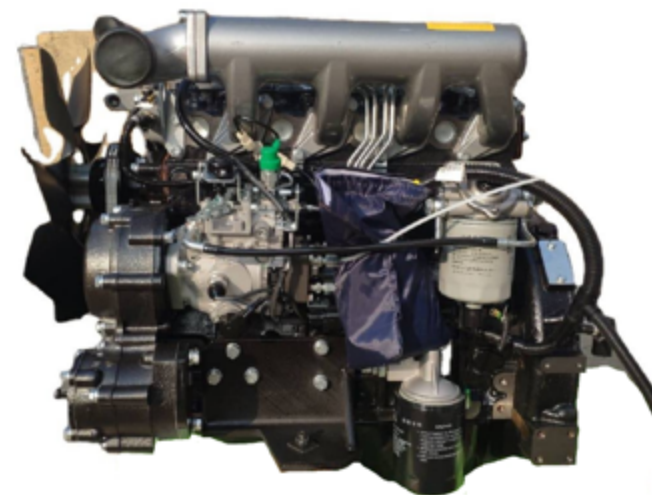
Ensures safe, convenient, and immediate engine operation control.

Air Filtration

Efficient multi-stage filter protects against dust in harsh environments.

Easy Maintenance

Widely available spare parts and accessible layout for low-cost upkeep.



Xinchai 4N27G-002 Diesel Engine Assembly

CORE CONFIGURATION

Articulated Frame & 4WD System

The BW30S combines a central articulated frame with a full-time 4WD system, delivering unbeatable agility and traction for navigating tight spaces and challenging terrain.

01. Articulated Frame



Maneuverability

4.6m tight turning radius for narrow orchards and tunnels.



Stability

Flexes with terrain to reduce torsion and rollover risk.

02. 4WD System



Continuous Traction

Max grip on slippery, muddy, or uneven surfaces.



Equal Speed Ratio

26.26 ratio prevents spin for smooth power.



Engineered for durability, the robust articulated frame structure allows the chassis to flex and adapt, ensuring consistent ground contact for optimal stability.

CORE CONFIGURATION

Heavy-Duty Tires

The BW30S is fitted with large-section off-road tires, meticulously engineered to deliver maximum traction, stability, and durability across the most challenging construction and agricultural terrains.



Aggressive Tread Design

Deep, interlocking grooves create superior grip on mud, sand, or uneven ground, eliminating slippage and ensuring control even in extreme conditions.



Maximized Flotation & Stability

The 295/80-15.3 tire size ensures a large contact patch, distributing weight evenly to prevent sinking in soft soil, mud, or loose terrain.



Industrial-Grade Durability

Constructed with heavy-duty rubber compounds to resist cuts, punctures, and abrasion from sharp rocks and debris on job sites.



“Built to conquer the harshest off-road conditions, these tires are the foundation of the BW30S’s exceptional mobility.”

CORE CONFIGURATION

Hydraulic Tipping System

The BW30S integrates a high-performance hydraulic system designed for rapid, hassle-free unloading of construction materials. This engineered solution prioritizes speed, safety, and operational efficiency on every job site.



Efficient Unloading

High-angle skip elevation enables fast, complete discharge of sand, gravel, and concrete, minimizing downtime.



Labor & Cost Savings

Eliminates manual shoveling, reducing workforce needs and cutting operational labor expenses effectively.



Zero Residue

Optimized tilt geometry ensures minimal material remains in the skip, maximizing load utilization.



Smooth Operation

Precision hydraulic controls deliver stable, jerk-free lifting and lowering for safe, reliable handling.



45° +

Max Tipping Angle

12s

Unload Cycle Time

APPLICATION SCENARIOS

The BW30S redefines efficiency in construction logistics, seamlessly adapting to diverse site challenges with unmatched versatility—from heavy material transport to navigating the tightest of job site corridors.

01 TYPICAL USES



Material Transport

Efficiently moves sand, gravel, concrete, and construction waste across uneven terrain.



Indoor/Confined Spaces

Navigates narrow building interiors and tight construction zones with precision.



Foundation Work

Transports soil and aggregate for excavations, backfilling, and ground preparation.



Demolition Projects

Hauls away debris and rubble quickly, keeping sites clean and operations smooth.

02 KEY ADVANTAGES



Exceptional Maneuverability

Articulated design enables access to tight, hard-to-reach areas that larger vehicles can't navigate, ensuring productivity in congested job sites.



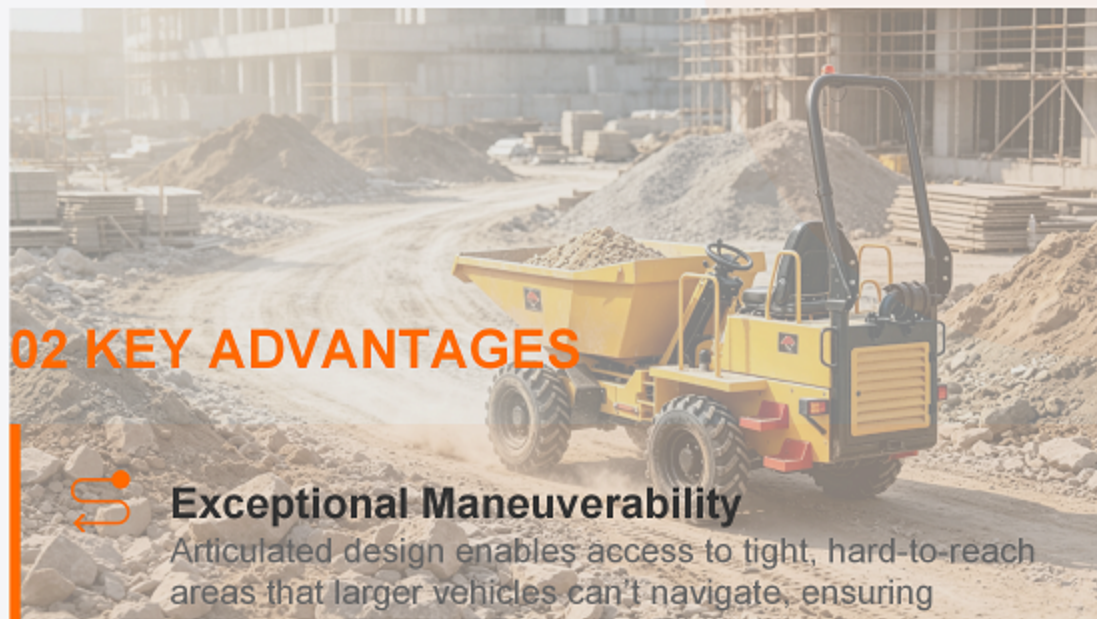
Industrial-Grade Durability

Built with heavy-duty components to withstand harsh impacts, vibrations, and rough terrain, ensuring long-term reliability and minimal downtime.



Unmatched Efficiency

High payload capacity minimizes the number of trips needed, cutting fuel costs and accelerating project timelines significantly.



APPLICATION SCENARIOS

Agriculture & Landscaping

The BW30S is a versatile workhorse for agricultural and landscaping projects, delivering reliable transport across fields, gardens, and uneven terrain. Its design ensures efficiency and minimal environmental impact, making it a go-to solution for seasonal and year-round tasks.

01 / Typical Uses



Fertilizer Transport

Efficiently distributes bulk fertilizers and manure across orchards and farmland.



Harvest Logistics

Transports fresh produce from fields to storage safely and efficiently.



Landscaping Works

Moves soil, mulch, rocks, and plants for garden and park construction.



Irrigation Projects

Hauls pipes and materials to build and maintain water systems.

02 / Key Advantages



Low Ground Pressure

Wide tires distribute weight evenly, minimizing damage to delicate turf and soil—critical for preserving farmland integrity.



Superior Off-Road Performance

Exceptional traction navigates muddy fields, uneven terrain, and narrow paths with ease, rain or shine.



Year-Round Versatility

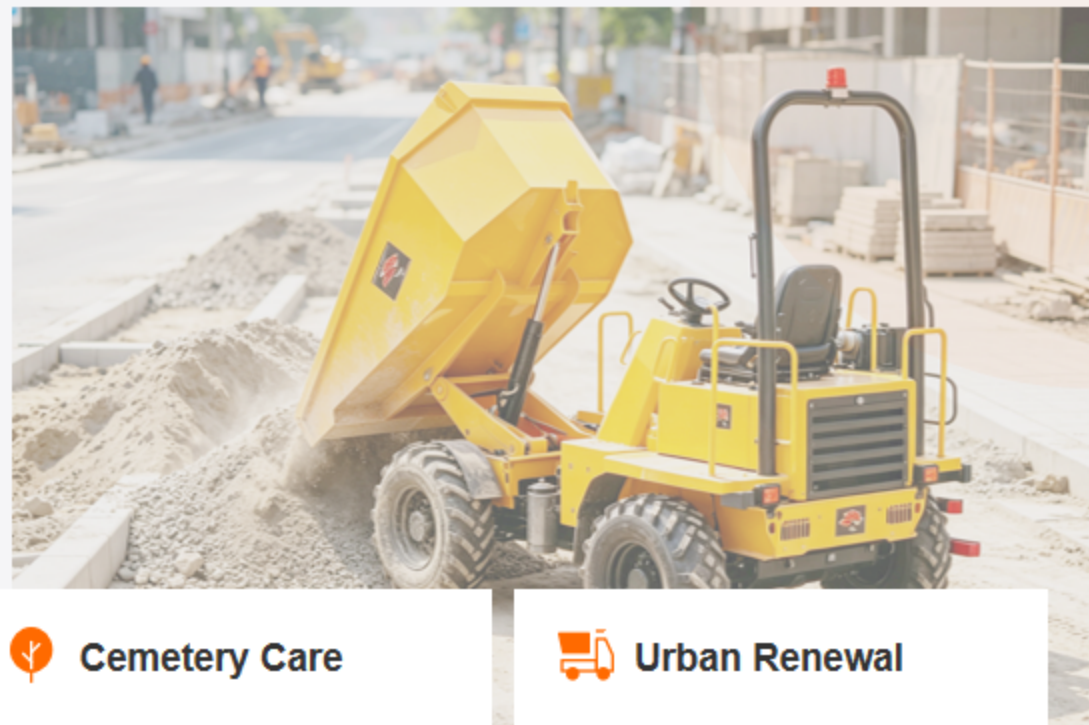
Adaptable to every season—from spring planting and summer harvesting to winter maintenance.



APPLICATION SCENARIOS

Municipal & Infrastructure

For municipal maintenance and small-scale infrastructure projects, the BW30S offers unmatched flexibility and efficiency, serving as a versatile workhorse for urban development and public service needs.



01 / Typical Use Cases



Road Maintenance

Efficiently transports asphalt, gravel, and repair materials directly to roadwork sites.



Park & Recreation

Moves materials for constructing paths, benches, and installing playground equipment.



Cemetery Care

Transports soil, gravel, and supplies for landscaping, grave digging, and upkeep.



Urban Renewal

Hauls construction debris and waste from small-scale demolition and renovation.

02 / Key Operational Advantages



Compact & Agile

Navigates narrow city streets and tight alleys with ease.



Rapid Transport

Quickly moves materials between work zones across urban areas.



Cost-Effective

A more economical alternative to large trucks for small-to-medium jobs.

CONTACT US

Tai'an Fuwei Heavy Machinery Manufacturing Co., Ltd.

We are ready to assist you with your heavy machinery needs. Contact us today for more information, technical support, or to request a customized quote tailored to your business requirements.

Address

No.56 Boyang Road,
Taishan Industrial Park,
Tai'an City, Shandong

Phone/Fax

+86 538 5056888

Mobile/IM

+86 15163850266
(WhatsApp/WeChat)

Email

info@tafwzg.com

Website

www.tafwzg.com



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