

KNOW-HOW

NEW ENERGY MINE EQUIPMENTS



KNOW-HOW Technology (Tianjin) Co., LTD





Company profile

Know-How Group founded in 1998 year,which is the times practitioner for creating mining enterprise ecological civilization construction and forging green mine one-stop solution.Know-How group subsidiary companies include New Energy Equipment R&D and Energy Supply service,Mining Industry Investment,Mining Equipment Maintenance,Mining Engineering etc.

Know-How Technology (Tianjin) Co., Ltd. belongs to Know-How Group. Founded in 2015,which is an industry pioneer in the mining new energy equipment and energy supply development.Know-How brand has grown into a domestic new energy mine equipment leading brand.After many years of accumulation and precipitation,it has formed three R&D centers located in Tianjin, Shenyang and Shuozhou city,and Shuozhou new energy Equipment manufacturing base is more than 40000 square meters with more than 40 technical patents and intellectual property rights,its annual production capacity has reach up to more than 1000 sets new energy equipment.

Know-How Technology has gathered a group of mining equipment and new energy industry with more than 10 years, professional and experienced team,core members are from the domestic famous construction machinery,large mining enterprises.

Know-How Technology adheres to the cooperation concept of "One promise equal thousands golden,Vast sea embraces hundreds rivers",practices the strategic choice of "close to customers, service customers", and combining new energy equipment rich experience in the development and production is Know-How Technology development core advantage.



Know-How Technology
Mining New Engery Equipment
R&D+Energy Supply Service



Know-How Engineer
Mining Engineer Construction+Mining
Operation



Know-How Finance
Investment in mining industry chain



Know-How Electromechanical
Equipment maintenance + equipment
operation

KNOW-HOW new energy integration solutions

With the introduction of the "14th Five-Year Development Plan for Construction Machinery Industry" by the state, which strengthens the product life cycle Periodic green management, speed up the green transformation and upgrading of construction machinery enterprises. As a result, mining enterprises are under great pressure on environmental protection and high cost of operation and maintenance, anxiety about the mileage range of new energy equipment, difficulty for the government to collect carbon emission data, mining machinery and carbon emission Regulatory pain points, etc.

Aiming at its pain points, Know-How Group has a strong, independent and one-stop new energy mining equipment solution capability. Power, zero emissions, maintenance-free pure electric equipment can effectively solve the traditional mine construction machinery environmental protection pressure, High fuel cost and expensive maintenance problems.

At the same time, through independent research and development and in-depth cooperative development, Know-How has formed a service all scenario, full working conditions of energy supplement equipment, and making full use of Know-How cutting-edge new energy charging and swapping stations technology to promote market Layout, providing the 5-8 minutes quick battery-replacement solution, improving vehicle efficiency, and successfully solving new energy equipment mileage range anxiety issues.



Product introduction

Know-How New energy rechargeable & exchangeable main equipment;

Pure electric driven, Zero Emission, Reduce fuel consumption;

Abide by "14th Five-Year Development Plan for Construction Machinery Industry";

New Energy smart mining machinery, make mines greener, longer mileage range.



NKE105D Series

Electric off-highway wide-body dump truck

Environmental Friendly

80% energy saved compared with diesel trucks under downhill conditions

Reliable Performance

Upgrade Electrification, stable chassis NKE105 series

Triple E-system

Top domestic brands assembly resource Know-How construction method strategy

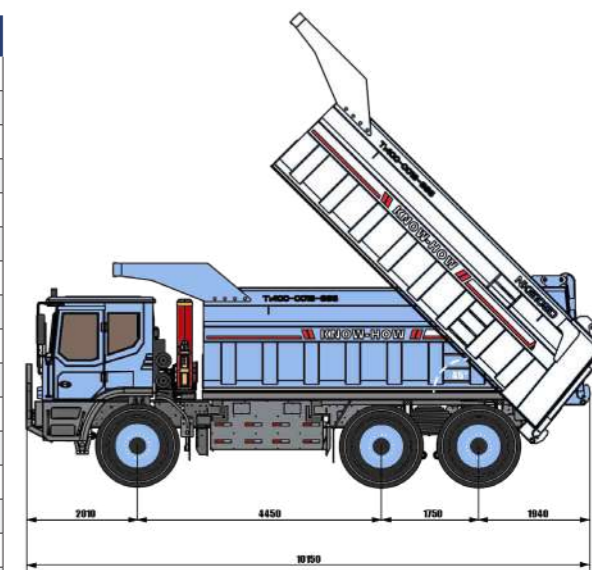
declared operating condition

OEM dynamic system , customized solution ,Premium battery mode with optimization parameter



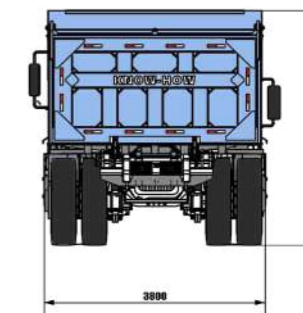
Main Technical Parameter

Item	NKE105D5 Parameter	NKE105D4 Parameter
Product specs	564 kw charging / replacing Mode	422 kw charging / replacing Mode
Best Working condition	Uphill	Downhill
Rated Power(kW)	2×225/2×300	2×225/2×300
Rated TorqueRated Torque(N.m)	2×460/2×700	2×460/2×700
Drive model	6×4	6×4
Gears	7+ 1	7+1
Transmission	AMT(Auto)	AMT(Auto)
Battery(°)	564	422
Battery model	Link Data	CATL / Link Data
Battery Type	LFP	LFP
Size(mm)	10150×3800×4150	10150×3800×4150
Buggy Capacity (m3)	42 (standard loading) 45 (Pile loading)	42 (standard loading) 45 (Pile loading)
Tyre	Radial Tyre	Radial Tyre
Max.Speed(km/h)	42	42
Gradeability	33%	33%
Min.Turning Radius(m)	12	12
Front suspension	hydro-pneumatic spring	hydro-pneumatic spring
Rear suspension	Balance shaft suspension	Balance shaft suspension



Dynamic performance

Item	NKE105D5 Parameter	NKE105D4 Parameter
Gross Weight (kg)	105000	105000
Tare Weight(kg)	38000	38000
Payload(kg)	70000	70000
Manufacturer	Hande	Hande
Axle Capacity Front / Mid / Rear (t)	25+40+40	25+40+40



Note: The above data are standard product data.The data may change with product improvement and configuration. The actual data is subject to the actual product .

NKE90C/90H

Electric off-highway wide-body dump truck



Environmental Friendly

Zero Emission , Zero Pollution , low consumption , more energy saving

Energy saving

Intelligent power output and energy feedback , energy saving 20% L/T

Safe and Trusted

Self-developed technology , multiple interlock , safe driving

Stable and reliable

Enhanced framework , overload capacity improve 20% , Average non-stop working time improve 50% than competing products

Powerful and Efficient

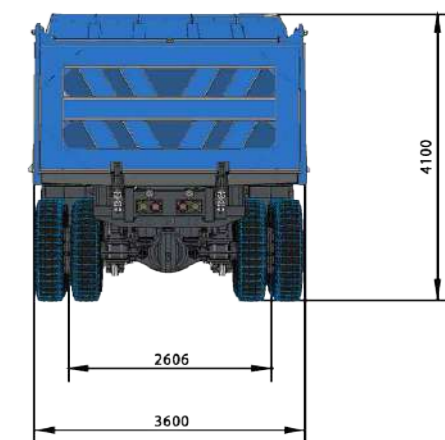
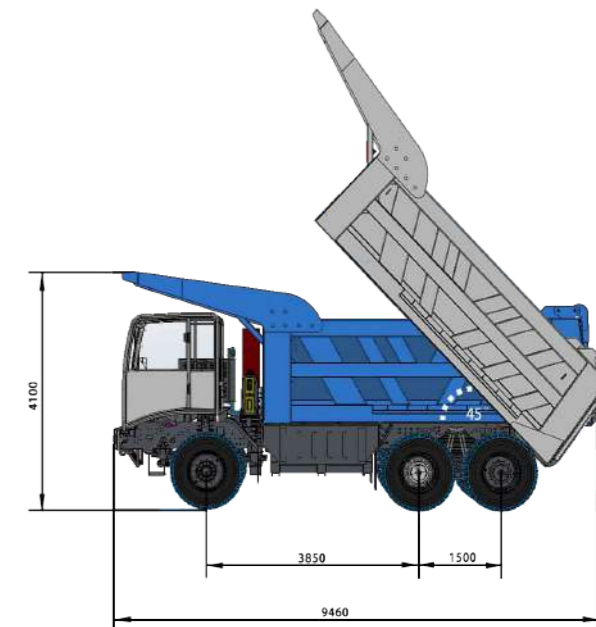
Integrated designed electric system , 1 hour to charge , 5 mins to replace

Main Technical Parameter

Item	NKE90C Parameter	NKE90H Parameter
Product specs	350 kw charging / replacing Mode	422 kw charging / replacing Mode
Best Working condition	Downhill	Downhill
Rated Power(kW/rpm)	2x225/2x300	2x225/2x300
Max.Torque (Nm/rpm)	2x460/2x700	2x460/2x700
Capacity(kwh)	350	422
Size(mm)	9460x3600x4100	9460x3600x4100
Drive model	6x4	6x4
Buggy Capacity (m³)	33(standard loading) 36 (Pile loading)	33(standard loading) 36 (Pile loading)
Tyre	Radial Tyre	Radial Tyre
Max.Speed(km/h)	43	43
Gradeability (%)	35	35
Min.Turning Radius (m)	11.5	11.5

Dynamic performance

Item	NKE90CParameter	NKE90HParameter
Gross Weight (kg)	90000	90000
Tare Weight(kg)	34000	34000
Payload (kg)	60000	60000
Axle Capacity Front / Mid / Rear (t)	20+35+35	20+35+35



Note: The above data are standard product data.The data may change with product improvement and configuration. The actual data is subject to the actual product .