



BZKD42 Mining Dump Truck

BZKD42 is developed with payload capacity of 42 tons. This off-road truck is designed for use in open pit mining operation such as metallurgy, nonferrous metal, chemical engineering, coal industry, construction, hydroelectric industry and transportation. It has characters of pleasing interior and exterior decoration, advantage technology, outstand quality and low price.

Full-time hydrostatic power steering system, Drum brake on all four wheels actuated by air pressure, rear dump hydrostatic hoist system, variable rate nitrogen/oil cylinders , automatic hydraulic mechanical transmission, safety cab with deluxe interior, high yield strength frame with box section.

Main specification	
Overall dimensions	8330×3963×3871mm
Max. payload	42000kg
Net Machine weight	30000kg
Max.GMW	72000kg

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Drive style	4×2
Lowest oil consumption	206.7g/kWh
Max. brake distance	≤18m
Min. turning diameter	20m
Max. speed	56km/h
Max. Gradeability	35°
Body capacity	Struck (1:1) 21m ³ ; Heaped (2:1) 26m ³
Tire	21.00-33
Engine	
Model	KTA19-C525
Type	4 cycle, Aspiration, Turbocharged/ after cooled
Rated power	392kW/2100rpm
Max.Torque	2136 N.m/1500rpm
Min.steady speed	650±25rpm
Displacement	18.9L
Fuel system	Diesel, PT fuel system
Suspension system	
Front: King pin strut-type independent front wheel suspension by self-contained, variable rate, nitrogen/oil cylinders.	
Rear: Variable rate nitrogen/oil cylinders with A-frame linkage and lateral stabilizer bar.	
Transmission	
Hydraulicmechanical transmission with integral torque converter features automatic lockup in all ranges for improved fuel economy. Five forward speeds and two reverse speeds.	
Drive ratio: Forward Gears 1	3.84
Drive ratio: Forward Gears 2	2.27
Drive ratio: Forward Gears 3	1.50
Drive ratio: Forward Gears 4	1.055
Drive ratio: Forward Gears 5	0.625
Drive ratio: Reverse Gears 1	6.07
Drive ratio: Reverse Gears 2	1.67
Hoist	
One four-stage telescopic cylinder, the fourth stage is double-acting. A hoist stop is built into the cylinder.	
System relief pressure	13.5MPa
Body Hydraulic Pump Flow(2100 rpm)	2.9L/s
Hoist time	25s
Lower time	18s
Drive axle	
Drive bridge is cast welding structure, with single reduction spiral bevel gear differential, full floating axle	

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shafts, and planetary reduction at each wheel.	
Differential	3.727:1
Planetary gear	6:1
Total reduction, rear axle	22.362:1
Steering system	
Full-time hydrostatic power steering system using two double-acting cylinders. Supplementary steering provided by accumulator is manually controlled.	
Max. steering angle	35°
Electrical system	
Two 12V batteries connected in series with minus earth.	
Brake system	
Air-operated drum brakes on all four wheels. Include: service brakes, parking brake, danger brake etc. The brake pumps with accumulation energy compound braking cylinders make Service brakes and parking brake to one device	
Compressor capacity	5.7L/S
Total volume	80L
Actuate pressure	0.8MPa
Relief pressure	0.45MPa
When pressure below 0.45MPa, the alarm lamp lights and the truck auto brakes. The torque retarded helps brake when the truck falling long gradient.	
Cooling system	
The cooling system is double cycle system, including engine middle-cooling cycle system and integrative radiator-sheath cycle system. Medium in hydrodynamic mechanical transmission is refrigerated by heat exchange.	
Cab	
The cab used a frame design. Heat an	

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