

Articulated Off Road Mining Dump Truck DAT40



- 1) DAT40 is with CUMMINS CRDI (Common Rail Direct Injection) diesel engine, which is powerful, durable, and with low emission and low maintenance cost.
- 2) DAT40 is with big capacity cooling system for constant temperature control of variable radiator, and lower the noise level. It cost energy only as the fan runs, so it reduce the energy loss and save fuel.
- 3) DAT40 is good visibility and comfortable air conditioning cab. It is with human design, pneumatic suspension seat and adjustable steering wheel. Vibration isolation rubber pad reduce the vibration and noise in cab.
- 4) DAT40 is with box design, and with weight-optimized strong frame for long lifetime. Articulated connection, is for better rough terrain flexibility, and lowering back force to the truck frame as it is with heavy load working. High articulated connection is for bigger ground clearance and stability.
- 5) DAT40 is with maintenance-free suspended system. Big girder span over the rear axle for better wheel movement, and lowering back force to the truck frame. Lower support is for better stability. With help of 3-point suspended system, the front axle can move the wheel independently.
- 6) DAT40 is with 2 steering cylinder, and it accord with standard ISO5010 as it is with full load. The hydraulic mechanical auto-compensation articulated steering is for safe, accurate, high speed running.
- 7) All axle are with hydraulic, closed, compulsive oil-cooled multi damper brake. Each axle is with double loop, and individual brake cooling. DAT40 accord with standard ISO3450 and SAE1473, as it is with full load.
- 8) Electronic control, full-automatic planetary gear transmission Allison HD4560, is with 6 forward shift and 1 reverse shift. 100% inter-axle differential lock, planetary wheel edge speed reducing, full suspended half axle.
- 9) All cable, socket, and plug are with mark. The cable are in plastic hose, and fixed with truck frame. The connection accord with waterproof standard IP67.
- 10) DAT40 is with easy maintenance, and it is not necessary to maintenance every day or every week.

Main Parameter	Payload		38t
	Machine Weight		30.8t
	Max Gross Weight		68.8t
	Capacity	struck (SAE)	17.4m3
		2:1 heaped (SAE)	23.3m3
	Max travel speed		50.4 km/h
	Min turning radius		9.2m
	Max turning angle		45°
	Wheelbase		4300*1950mm
	Wheel track		2595/2595mm
	Loading height		3140mm
Dimension	Length		11055mm
	Width		3315mm
	Height		3945mm
Engine	Model		Cummins QSX15-C
	Type	in line, 6 cylinder, 4-stroke, water-cooled, electronic injection	
	cylinder * stroke	137*169mm	
	Power	440hp/323kw	
	Emission	15L	
	Max torque	2237N.m	
	Emission standard	Tier 3	
Trans- mission	Model		Allison HD4560
	Shift		Forward 6 / Reverse 1
Axle	Power transmission type		单级主减速器+行星齿轮式轮边减速器
	Total reduction ratio		23.5:1
	Drive Mode		6X6
	Tyre		standard 29.5
suspend system	Front		独立油气悬挂缸
	Rear		油气缸与橡胶减震器混合
Brake	Type		Disc
	Mode		Full hydraulic
Turning system	Type		independant hydraulic system
	Structure	hydraulic	mechanical auto-compensation articulated steering
Frame	Frame Mode		主梁与扭力横梁构成整体，高应力部位采用高强度合金铸钢件过渡
Lifting system	Type		independant 2 hydraulic cylinder
	Position		Inside the frame
	Lifting angle		66°
	Lifting up speed		12 s
	Lifting down speed		10 s
Box	Type		Duck tail up
	wearable material yield strength		1200Mpa
	wearable material hardness		450
Cab	Structure		full vision, low noise, luxury cab
	Safety		FOPS
	Noise		with muffler