

# BELAZ-75585 mining dump truck with 90 tonnes payload capacity

It's designed for transportation of rock in severe mining conditions of deep mines, at open pit mines on roads under various climatic operating conditions (at ambient temperature from -50 to +50°C)



BELAZ

## Engine

Rated power at 1900 rpm, kW (hp)	783 (1050)
Maximum torque at 1300 rpm, N*m	4630
Number of cylinders	12
Cylinder displacement, l	30
Cylinder diameter, mm	140
Piston stroke, mm	165
Specific fuel consumption at rated power, g/kW*h	199
Air is cleaned by three-stage filter with dry-type elements.	
Engine exhaust is routed through dump truck body.	
Circulating and pressurized lubrication system with «wet» sump.	
Single-loop fluid cooling system with forced circulation.	
Oil is cooled by oil-to-water heat exchanger.	
Fluid preheating system.	
Electric starting system.	
Electric system voltage, V	24

## Transmission

AC drive with traction alternator, two traction motors, motor-in-wheel reduction units, adjustment and control devices.

Maximum dump truck speed, km/h	64
Motor-in-wheel reduction unit ratio	30.36

Traction alternator	SGT 700-8UHL2
Traction motor	TAD-320-6V3

## Suspension

Conventional suspension for front and rear wheels with pneumohydraulic (nitrogen and oil) cylinders with inbuilt hydraulic shock absorber; two cylinders are on the front axle and two cylinders are on the rear axle.

Cylinder piston stroke, mm:

front	260
rear	210

## Steering

Hydrostatic steering with steerable front wheels.

Steering angle, degree	38
Turning radius, m	11
Overall turning diameter, m	24

The steering meets ISO 5010 requirements.

## Hydraulic system

Combined hydraulic system for body dumping gear, steering and brakes. Three-stage telescopic body lifting cylinders with one stage of double action. Variable-displacement axial-piston oil pump.

Body lifting time, s	21
Body lowering time, s	19
Maximum pressure in hydraulic system, MPa	18
Maximum pump delivery at 1900 rpm, dm <sup>3</sup> /min	474
Filtration degree, µm	10

## Cab

Two-man two-door cab with air-sprung adjustable driver seat, additional trainee seat. The cab meets EN 474-1 and EN 474-6 requirements for in-cab noise, vibration, content of hazardous substances and dust. Driver's workplace meets ROPS safety requirements. In-cab noise level is not more than 80 dB(A).

