

BELAZ SERIES 7530

MEXICO, LATIN AMERICA

220 mt/ 240 t payload capacity



Engine

Model MTU 16V4000
Four-cycle gas-turbocharged and intercooled direct injection diesel engine with V-type cylinders arrangement and electronic control system. Meets Tier 1 emissions requirements.

	Metric	SAE
Gross power @ 1800 rpm, kW/ hp	1715-1864	2300-2500
Maximum torque @ 1500 rpm, N.m/ ft lbs	9313-10931	6869-8060
Number of cylinders	16	16
Cylinders displacement, l/cu in	65	3967

Air cleaning is performed by three-stage filter with dry-type elements. Engine exhaust routed through body.

Circulating lubrication system is pressurized and designed with wet crankcase. Double-loop fluid cooling system with forced circulation. Oil cooling is performed by oil-to-water heat exchanger.

Cooling system impeller is actuated by fluid coupling with automatic control.

Pneumatic starter.

Air pressure in starting system, MPa/ psi 0.6-0.8/ 87-116
Electric equipment system voltage, V 24

Electric Drive

Drive options are AC/DC, GE AC/AC, and Siemens AC/AC. Planetary double-row gear reduction with AC/DC and Siemens; single row gear reduction with GE.

Transmission ratio 27.5:1
Maximum speed, km/h/ mph AC Drive 64/ 40
Maximum speed, km/h/mph DC Drive 43/27

Traction alternator	Belaz AC	GE AC	Electrosila AC
Traction motor	Belaz DC	GE AC	Electrosila AC
Reduction gear	Belaz	GE	Belaz

Suspension

Suspension is conventional for front axle and drive axle, equipped with trailing arms, central joints and transverse rods. Cylinders are pneumohydraulic (nitrogen and oil) and equipped with built in hydraulic shock absorber. Two cylinders are on the front axle and two cylinders are on the rear axle.

Cylinder piston stroke	Metric, mm	SAE, in
- front	320	13
- rear	290	11

Steering

Hydrostatic steering with steerable front wheels.

	Metric, m	SAE, ft
Steering angle, degree	39	39
Turning radius	15	49
Overall turning diameter	34	112

The steering meets ISO 5010 requirements.

Brakes

Dump truck brake system meets ISO 3450 international safety regulations and requirements. The system is equipped with service, parking, retarding and emergency brake systems.

Service brake system

Front wheel brakes- disc type with four brake calipers per one disc. Rear wheel brakes- double-disc type with two brake caliper per each disc and automatic slack adjustment. Discs are installed on the traction electric motor shafts.

Brake drive- hydraulic, separate for the front and rear wheels.

Parking brake system- with two brake units per side, normally closed.

Brake actuation- by spring.

Brake control- hydraulic.

Retarder system- retarding by traction electric motors in generator mode with forced air cooled resistors.

Emergency brake system- parking brake system combined with operating service brake system circuit.

Grid resistors
Power, kW/ hp

UVTR 2x600-2 units
2400/ 3218

Body

Welded bucket-type body with FOPS safety system, protective canopy, engine exhaust heating, device for mechanical fixing in raised position, rock-fenders and rock-ejectors.

Body capacity, m³:

struck		heaped 2:	
Metric, m ³	SAE, yd ³	Metric, m ³	SAE, yd ³
92.0	120	130	170
100	131	138	181
103	135	141	184
80	105	112	147
117	153	147.4	193



Frame

Frame is welded of high-strength low-alloy steel with castings at the maximum loading points with box-section variable-height side-members interconnected by cross-members.

Hydraulic Drive

Hydraulic system is combined for body dumping gear, steering and brakes actuator. The system is equipped with two-section variable-displacement axial-piston oil pump and three-stage telescopic body lifting cylinders with one stage of double action.

Body lifting time, sec	22
Body lowering time, sec	33
Maximum pressure in hydraulic system, MPa	18
Maximum pump delivery @ 1900 rpm, dm ³ /min/ gal/min	698/ 184
Filtration degree, mcm	10

Cab

Two-man two-door cab is equipped with air suspension adjustable driver seat, additional trainee seat and adjustable steering column. The cab meets EN 474-1 and EN 474-6 requirements for levels of in-cab noise, vibration, and dust.

Cab meets ROPS safety requirements.

In-cab noise level is not more than 80 dB(A).

Local vibration level is not more than 126 dB(A).

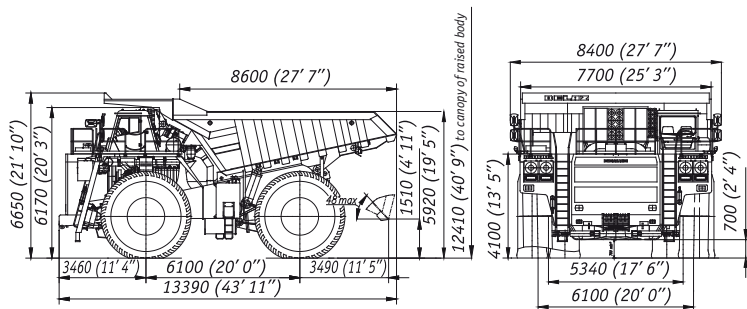
Overall vibration level is not more than 115 dB(A).

Tires

Radial or diagonal tubeless air tires with quarry tread pattern.

Tire designation	40.00R57; 46/90-57
Inflation pressure, MPa/ psi	0.7; 0.605/ 90
Rim designation	29.00-57/6.0

Overall dimensions, mm*



*Overall dimensions are specified for truck with standard options

Capacities

	Metric, l	SAE, gal
Fuel tank	2900	766
Engine cooling system	600	158
Engine lubrication system	265	70
Hydraulic system	790	209
Reduction gear (2)	210	55
Suspension cylinders:		
- front (2)	97.4	26
- rear(2)	103.0	27

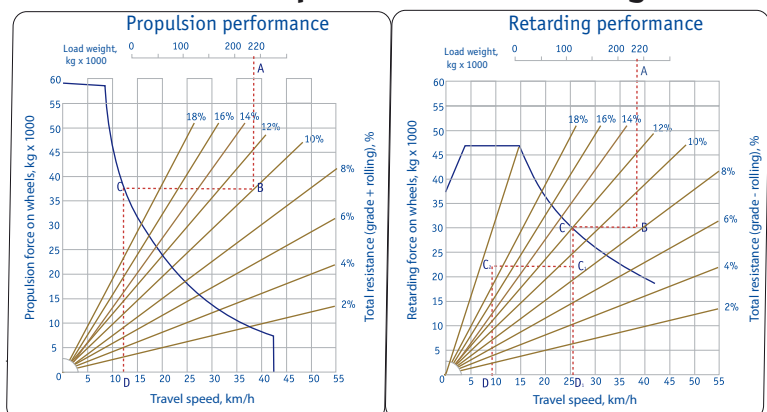
Weight

	Metric, kg	SAE, lbs
Maximum payload capacity	220000	485017
Unladen weight	156100	344142
Gross weight	376100	829159
Dump truck weight distribution on axles, %:		
unladen		
front	45	33
rear	55	67
laden		
front	45	33
rear	55	67

Special equipment

- Fire-fighting system (standard)
- Starting preheater (standard)
- Heating and ventilation system (standard)
- Automatic lubrication system (optional)
- Loading and fuel control system (optional)
- Telemetering tire-pressure monitoring system (optional)
- Body floor lining (optional)
- Warning device for high-voltage line (optional)
- Engine exhaust through mufflers (optional)
- Diagonal stairs (optional)
- Exhaust routed undertruck (optional)

Propulsion and Retarding



OJSC "Belarusian Autoworks" (BELAZ)
40 let Oktyabrya str. 4, 222160, Zhodino,
Republic of Belarus
phone: +375 1775 3-60-67,
3-37-37
fax: +375 1775 7-01-37
e-mail: office@belaz.minsk.by
www.belaz.by

Belaz Trucks Americas
6346 Orchard Lake Rd, Suite 103
West Bloomfield, MI 48322
phone: 248-539-3482
fax: 248-538-9486
e-mail: info@belaztrucks.com
www.belaztrucks.com