

**Engine** 

Model CUMMINS OST 30-

Diesel, four-stroke, with V-engine arrangement of cylinders, direct fuel injection, electronic control system, gas turbine supercharging and intermediate cooling of supercharging air.

Meets the requirements for the release of toxic substances Tier2.

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|--|-------------|
| 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*hr                                  | 199         |
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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 60 Motor-in-wheel reduction unit ratio 30.36

| Traction alternator | GST 700-8 |
|---------------------|-----------|
| Traction motor      | TAD-9     |

### 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

The steering meets ISO 5010 requirements.

### **Steering**

Hydrostatic steering with steerable front wheels.
Steering angle, degree 38
Turning radius, m 11

Turning radius, m 11 Overall turning diameter, m 24

## **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, dm³/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).

### **Body**

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

Body capacity, m<sup>3</sup>:

| · · / / |            |
|---------|------------|
| struck  | heaped 2:1 |
| 37.7    | 53.3       |
| 44.5    | 60.0       |
| 75.0    | 93.0       |
| 86.5    | 103.0      |

Welded high-strength low-alloy steel frame. Box-section variable-height sidemembers are interconnected by cross-members. Cast elements are used in places of maximum loading.

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90000

74000

164000

loaded

33.0

67.0

Weight

**Tires** 

### **Brake system**

Brake system meets international safety regulations and requirements of ISO 3450 and includes service, parking, auxiliary and emergency brakes.

Service brakes:

front wheels – dry single-disk brakes with two brake gears per disk and automatic gap adjustment;

rear wheels – dry single-disk brakes with one brake gear per disk and automatic gap adjustment.

Parking brakes:

Permanently closed brakes of rear wheels, spring drive and hydraulic control. Auxiliary brakes:

Electrodynamic braking by traction motors in generator mode with forced cooling of brake resistors.

Emergency brakes:

Parking brake and operable circuit of service brakes.

Brake resistors UVTR 2x600 Dissipated power, kW 1200

#### Refill capacities, I 1105 Fuel tank 260 (380)

unloaded

50.9

49.1

Engine cooling system (tropicalized dump truck) Engine lubrication system 140 Hydraulic system 510 Motor-in-wheel reducers 80 (40x2)

Suspension cylinders: front 31.4 (15.7x2) 58.0 (29.0x2) rear

Maximum payload capacity, kg

front axle

rear axle

Dump truck weight distribution on axles, %:

Unladen weight, kg

Gross weight, kg

# Special equipment

Remotely actuated fire extinguishing system (standard)

Starting preheater (standard, excepting tropicalized dump trucks)

Video observation system (standard)

Centralized automatic lubrication system (standard)

Telemetering tire-pressure monitoring system (standard)

High-voltage line approach attention device (standard)

Loading and fuel control system (standard)

Heating and conditioning unit (standard)

Body floor lining (optional)

# Pneumatic, tubeless tires. Open cast mine tread pattern.

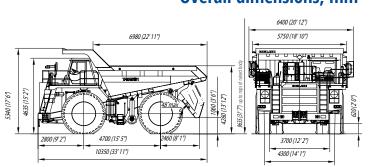
Tire designation 27.00R49; 31/90-49

**Towing and braking performance** 

Tire inflation pressure as recommended by tire producer

Rim designation 19.50-49/4.0

### **Towing performance** Overall dimensions, mm



Overall dimensions are specified for basic configuration of the dump truck. The above specifications are subject to change without notice due to the continuous improvement of the vehicle design.

