



### TR50 Mining Dump Truck

TR50 off-highway truck is with Top Performance. Developed specifically for mining, quarry and construction applications, the Off-Highway Trucks keep material moving at high volume to lower cost-per ton. Reliable, Durable, Dependable. Rugged construction and easy maintenance procedures ensure long life with low operating costs.

| Vehicle main technical parameter  |                           |
|---|---------------------------|
| N.V.W.  | 35000kg                   |
| Payload   | 45000kg                   |
| G.V.W.  | 80000kg                   |
| Overall dimensions (L×W×H)  | 8875×3965×4345mm          |
| Wheel bass  | 3960mm                    |
| Track   | Front: 3325mm Rear 2730mm |
| Max Speed   | 65km/h                    |
| Frame   |                           |
| Fabricated Full box section frame with integral front bumper and closed loop crossmember. Crossmember and rear torque tube and tail seat connections with frame rails are high strength alloy castings. |                           |
| Engine  |                           |

**Shanghai Longji Construction Machinery Co., Ltd.**

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|   |  |
|---|--|
| Model   | Cummins QSX15- C   |
| Type  | 6-cylinder, in-line, 4 Cycle, Turbocharged/ After cooler |
| Rated power   | 392kW (525hp)  |
| Maximum torque  | 2400Nm@ 1400rpm  |
| Bore x stroke   | 137 x 169mm  |
| Displacement  | 15 litres  |
| 24 volt negative ground electrical system. Two 12 volt 165 Ah batteries with master disconnect switch. 9 kW starters. Neutral start. 70A alternator with integral voltage regulator.  |  |
| Transmission  |  |
| Allison M5610AR automatic electronic control with Soft Shift feature. Mounted mid-frame for ease of access. Integral torque converter and planetary gearing. Six speeds forward, two reverse. Automatic lock-up in all speed ranges. Downshift inhibitor. Hydraulic retarder. |  |
| Drive ratio: Forward Gears 1  | 4.00   |
| Drive ratio: Forward Gears 2  | 2.68   |
| Drive ratio: Forward Gears 3  | 2.01   |
| Drive ratio: Forward Gears 4  | 1.35   |
| Drive ratio: Forward Gears 5  | 1.00   |
| Drive ratio: Forward Gears 6  | 0.67   |
| Drive ratio: Reverse Gear1  | 5.12   |
| Drive ratio: Reverse Gears 2  | 3.46   |
| Drive Axle  |  |
| TEREX heavy duty axle with single reduction spiral bevel gear differential, full floating axle shafts, and planetary reduction at each wheel.   |  |
| Differential ration   | 3.15:1   |
| Planetary ration  | 5.66: 1  |
| Total reduction ration  | 17.83:1  |
| Tyres   |  |
| Type  | Front and Rear 21.00-35(36PR)                            |
| Rim width   | 15in   |
| Consult tyre manufacturers for optimum tyre selection and correct t- km/h (ton-mile/h) capacity for application.  |  |
| Suspension  |  |
| Front: TEREX manufactured kingpin strut-type independent front wheel suspension using self-contained, variable rate, nitrogen/oil cylinders.  |  |
| Rear: TEREX variable rate nitrogen/oil cylinders with A-frame linkage and lateral stabilizer bar.   |  |
| Maximum strut stroke (Front)  | 251mm  |
| Maximum strut stroke (Rear)   | 182mm  |
| Maximum rear axle oscillation   | 6.5°   |
| Brakes  |  |
| Service brake: Dual shoe external expanding, mechanically actuated by air pressure. Independent front   |  |

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|  |                      |
|--|----------------------|
| and rear systems actuated by single treadle valve with auxiliary manual control. Operator controlled wet / dry road valves reduces front brake pressure 50% for improved control and slippery conditions.  |                      |
| Front Linings: Diameter x width  | 660 x 127mm          |
| Lining area: front axle  | 3980cm <sup>2</sup>  |
| Rear Linings: Diameter x width   | 660 x 254mm          |
| Lining area: front axle  | 7960cm <sup>2</sup>  |
| Total Lining Area  | 11940cm <sup>2</sup> |
| Emergency brake: Warning light in cab indicates when air pressure drops below 550 kPa. Front and rear brakes automatically actuate if system air pressure falls to 310 kPa   |                      |
| Air compressor capacity  | 8.8L/s               |
| Total safety brake air reservoir capacity  | 81 litres            |
| Parking brakes: act as parking brakes when applied by manual control valve on the instrument panel.<br>RETARDATION-Application of non wearing hydrodynamic retarder integral with transmission.  |                      |
| Steering   |                      |
| Independent hydrostatic steering with closed- centre steering valve, accumulator and pressure compensating piston pump<br>Accumulator provides uniform steering regardless of engine speed. In the event of loss of engine power it provides steering of approximately two lock-to-lock turns.<br>A low pressure indicator light warns of system pressure below 83 bar |                      |
| Maximum Tyre Steering Angle  | 39°                  |

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