



COMPACT LOW PROFILE END DUMP TRUCK

**MODEL
DT-50**

50 metric tonne · 55 short ton payload — 25.2 m³ · 33.0 yd³ capacity



FEATURES

- Field-proven, articulated DUX DT-50 underground 4-wheel drive dump truck is well suited for hauling ore, waste and backfill on level and steep grades
- Excellent load retention and fast tramming up steep ramps guaranteed — highest power to weight ratio in its class
- Permits efficient chute, side and end loading in narrow drifts with low headings
- Clean and rapid discharge cycles guaranteed with 65° dump angle and smooth flow, wear resistant alloy steel dump box
- Electronically controlled engine reduces fuel consumption and ventilation requirement
- Equipped with 4-wheel POSI-STOP brake system for maximum safety, reliability and low maintenance cost
- Centralized service points and modular design for easy service access and fast component exchange
- Excellent service and parts back-up worldwide

WEIGHTS

Payload 50.0 tonne.....55.0 ton
Machine weight, approx..... 42.0 tonne..... 46.2 ton
GVW 92.0 tonne..... 101.2 ton

SAE VOLUME*

Struck 21.0 m³..... 27.5 yd³
Heaped 25.2 m³..... 33.0 yd³
Loose ore density..... 2.0 t/m³..... 3,370 lb/yd³

*Custom box size to suit different ore weight available.

OVERALL DIMENSIONS

Length..... 10 720 mm.....35' 2"
Width..... 3 150 mm..... 10' 4"
Height over box sides.....2 845 mm.....9' 4"
Height over canopy or cab2 900 mm.....9' 6"

TURNING RADIUS

Inside..... 5 105 mm..... 16' 9"
Outside..... 9 040 mm..... 29' 8"
Angle43°

DISCHARGING

Height at maximum dump angle ...6 000 mm..... 19' 8"
Maximum dump angle65°



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TECHNICAL SPECIFICATIONS*

Engine

Make and model Cummins QSX15 with Electronic Control
..... Management System
Derated power 429 kW (575 HP) @ 2100 RPM
Cylinders 6
Aspiration Turbocharged / charge air cooler
Displacement 15 L 915 in³
Starter 24-volt
Air intake cleaner Donaldson 2-stage dry type with service gauge
Exhaust system Catalytic purifier with large silencer
Cooling Heavy duty radiator assembly with jacket water
..... and charge air cooler incorporated within assembly
Emission standard Meets EPA Tier 3, Euro Stage IIIA

Torque Converter

Make and model Dana SOH CL 8672 series, single stage with
..... automatic lock-up and flex plate drive

Transmission

Make and model Dana SOH 8821H series,
Speeds 7 in forward and 2 in reverse

Axles

Make and model Dana SOH 53R300 with high traction differential
..... and POSI STOP brakes on all 4 wheel ends

Tires

– Bridgestone 29.5R29, multi-star, E-4 VSNT tubeless radial

Brakes

Service and 4-wheel POSI-STOP totally enclosed multi-disc,
emergency/parking liquid cooled, spring applied hydraulically released
..... with its own independent circulating cooling
..... system and accumulator back-up
Automatic Brake Applies brake in case of engine failure or pressure
Applicator (ABA) drop in torque convert

Steering

– Articulated frame hydraulic power steering
– Double acting steering cylinders (2)
– $\pm 43^\circ$ steering angle each way for a total of 86°

Oscillation

– $\pm 10^\circ$ center of oscillation for a total of 20°
– Large sized, heavy-duty roller bearing for minimum maintenance and a smooth ride, 4-wheel ground contact guaranteed

Frames and Pins

– Articulated heavy-duty frames made to withstand the high impact and torsional stress associated with mining application
– Frames come with five-year unlimited hour guarantee
– Large high tensile alloy steel pins in replaceable anchor bushings

Dump Body

– Made from reinforced impact, wear resistant alloy steel plates, substantially prolongs service life

Operator Compartment

– Operator forward seated
– Heavy-duty adjustable suspension seat with arm rests and retractable seat belt
– Shock mounted compartment for maximum comfort
– All controls and gauges are within easy reach and view of operator

Hydraulic System

– Heavy-duty double acting protected steering cylinders (2) with hard chrome plated stems
– Heavy-duty double acting two-stage fully protected telescopic dump cylinders (2) with hard chrome plated stems
– Heavy-duty PTO-driven variable displacement piston pumps with load sensing driven from converter
– Suction filter
– Inline high pressure filter with service gauge
– $\frac{3}{4}$ " inside diameter and over hoses that are four-spiral wire braid and have crimped hose end swivel fittings
– Hose bulk-head located mid-ship

Tank Capacities

Fuel 644 L 170 US gallons
Hydraulic oil 265 L 70 US gallons
Brake cooling oil 151 L 40 US gallons

Electrical System

– 24-volt negative ground
– 75 amp alternator with integrated sealed voltage regulator
– Main electric cut-off switch
– Heat resistant, waterproof, sealed electric PMA wire harness
– Sealed junction box and stainless steel instrument panel box with multi-stem connectors
– Semi-automatic circuit breakers
– Front (4), rear (4), and all-directional (1) LED high-intensity lights
– Heavy-duty batteries (2)
– Signal horn and audible, adjustable back-up alarm

Standard Features

Cummins QSX15, EPA Tier 3, Euro Stage IIIA electronic engine • PRAN display monitor includes digital fuel gauge • Automatic engine shut-off at low oil pressure and high temperature • Hourmeter • All necessary gauges for engine, converter and brake pressure • Wheel chocks (2) with storage brackets (2) • 9 kg (20 lb) hand held fire extinguisher • Neutral engine start protection • Centralized manual lubrication mid-ship • Dump box and articulation safety bars • Parts/Operator/Maintenance manuals • Compliant with MSHA, CANMET and CE regulation

Options

Different engine • Engine brake • Certified FOPS/ROPS canopy • Fully equipped certified FOPS/ROPS noise suppression cab with trainer seat • Automatic tailgate • Automatic lubrication system • Fire suppression system • Video system • Teledump body • Spare rim assembly • Cold weather package • Knock-down construction for lowering unit down mine shaft • OTHER OPTIONS ON REQUEST



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