



COMPACT LOW PROFILE END DUMP TRUCK

**MODEL
DT-50**

50 metric tonne • 55 short ton payload — 28 m³ • 36.6 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 23.4 m³.....30.6 yd³
Heaped 28.0 m³.....36.6 yd³

Custom box size to suit different ore weight available.

OVERALL DIMENSIONS

Length 10 800 mm.....35' 5"
Width 3 125 mm..... 10' 3"
Height over box sides.....3 225 mm..... 10' 7"
Height over cab2 950 mm.....9' 8"

TURNING RADIUS

Inside 5 130 mm..... 16' 10"
Outside 9 040 mm.....29' 8"
Angle42°

DISCHARGING

Height at maximum dump angle ...6 300 mm.....20' 8"
Maximum dump angle65°



DUX Model DT-50 Compact Profile End Dump Truck

TECHNICAL SPECIFICATIONS*

Engine

Make and model Detroit Diesel Series 60, DDEC with Electronic Control Management System
Derated power 429 kW (575 HP) @ 2100 RPM
Cylinders 6 in line
Aspiration Turbocharged, after-cooled
Displacement 14 L 854 in³
Starter 24-volt
Air intake cleaner Donaldson 2-stage dry type with service gauge
Exhaust system Catalytic purifier with large silencer
Cooling Mesabi epoxy coated radiator with air-to-air intercooler
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 (SAHR) 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 converter

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

Detroit Diesel Series 60, 14 L, DDEC, 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) • Neutral engine start protection • Centralized manual lubrication mid-ship • Dump box and articulation safety bars • Triangular rear reflectors (2) • 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 • Automatic tailgate • Automatic lubrication system • Fire suppression system • Intec video system • Weighing system • Teledump or ejector body • Spare rim assembly • Knock-down construction for lowering unit down mine shaft • OTHER OPTIONS ON REQUEST



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