



COMPACT PROFILE END DUMP TRUCK

MODEL DT-24

22 metric tonne · 24.2 short ton payload — 12.5 m³ · 16.3 yd³ capacity



FEATURES

- Field-proven, articulated DUX DT-24 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 22.0 tonne.....24.2 ton
Machine weight, approx..... 23.5 tonne.....25.9 ton
GVW 45.5 tonne.....50.1 ton

SAE VOLUME

Struck 10.2 m³..... 13.4 yd³
Heaped 12.5 m³..... 16.3 yd³
Ore weight.....1.8 t/m³..... 3,035 lb/yd³
Custom box size to suit different ore weight available.

OVERALL DIMENSIONS

Length.....9 300 mm.....30' 6"
Width.....2 285 mm.....7' 6"
Height over box sides.....2 390 mm.....7' 10"
Height over FOPS/ROPS cab.....2 490 mm.....8' 2"

TURNING RADIUS

Inside.....4 420 mm.....14' 6"
Outside.....7 500 mm.....24' 7"
Angle43°

DISCHARGING

Height at maximum dump angle...4 675 mm.....15' 4"
Maximum dump angle65°



DUX Model DT-24 Compact Profile End Dump Truck

TECHNICAL SPECIFICATIONS*

Engine

Make and model Cummins QSL 9 with Electronic Management System
Derated power 224 kW (300 HP) @ 2100 RPM
Cylinders 6
Aspiration Turbocharged, liquid and charged air cooled
Displacement 8.9 L 543 in³
Starter 24-volt
Air intake cleaner Donaldson 2-stage dry type with service gauge
Exhaust system Purimuffler and silencer exhaust heat protection (Firwin wrap and heat shield)
Cooling Water and air-to-air intercooling
Emission standard Meets EPA Tier 3, Euro Stage IIIA

Torque Converter

Make and model Dana SOH CL 8000 series, single stage with automatic lock-up and flex plate drive

Transmission

Make and model Dana SOH R36000 series, 4 speeds in forward and reverse

Axles

Make and model Dana SOH 19D with high traction differential and POSI STOP brakes on all 4 wheel ends

Tires

– Bridgestone 18.00R25, 2 star, VELS, E-4 tubeless radial

Brakes

Service and emergency/parking 4-wheel POSI-STOP totally enclosed multi-disc, 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 converter

Steering

– Articulated frame hydraulic power steering with pilot monostick control
– 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

– Side seated for maximum visibility and bi-directional operation
– Heavy-duty adjustable suspension seat with arm rests and retractable seat belt
– Shock mounted compartment floor for maximum comfort
– All controls and gauges located 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 379 L 100 US gallons
Hydraulic oil 340 L 90 US gallons
Brake cooling oil 114 L 30 US gallons

Electrical System

– 24-volt negative ground
– 80 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 QSL 9, 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 • Triangular rear reflectors (2) • Parts/Operator/Maintenance manuals • Compliant with MSHA, CANMET and CE regulation

Options

Different engine • Engine retarder • Certified FOPS/ROPS canopy • Fully equipped certified FOPS/ROPS noise suppression cab • Automatic tailgate • Automatic lubrication system • Fire suppression system • Intec video system • Teledump or ejector body • Spare rim assembly • Ejector box or teledump box • OTHER OPTIONS ON REQUEST



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