



## NARROW LOW PROFILE END DUMP TRUCK

### MODEL DT-33N

**33.0 metric tonne • 36.0 short ton payload — 19.6 m<sup>3</sup> • 25.7 yd<sup>3</sup> capacity**



#### FEATURES

- Field-proven, articulated DUX DT-33N 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 ..... 33.0 tonne ..... 36.0 ton  
Machine weight, approx. .... 27.2 tonne ..... 30.0 ton  
GVW ..... 60.2 tonne ..... 66.0 ton

#### SAE VOLUME\*

Struck ..... 16.4 m<sup>3</sup> ..... 21.5 yd<sup>3</sup>  
Heaped ..... 19.6 m<sup>3</sup> ..... 25.7 yd<sup>3</sup>  
Loose ore density ..... 1.8 t/m<sup>3</sup> ..... 3,035 lb/yd<sup>3</sup>

\*Custom box size to suit different ore weight available.

#### OVERALL DIMENSIONS

Length ..... 10 235 mm ..... 33' 7"  
Width ..... 3 050 mm ..... 10' 0"  
Height over box sides ..... 2 515 mm ..... 8' 3"  
Height over canopy or cab ..... 2 695 mm ..... 8' 10"

#### TURNING RADIUS

Inside ..... 4 850 mm ..... 15' 11"  
Outside ..... 8 560 mm ..... 28' 1"  
Angle ..... 42°

#### DISCHARGING

Height at maximum dump angle ... 5 285 mm ..... 17' 4"  
Maximum dump angle ..... 65°



Available with optional automatic tailgate.

# DUX Model DT-33N Narrow Low Profile End Dump Truck

## TECHNICAL SPECIFICATIONS\*

### Engine

Make and model ..... Cummins QSM11 electronic  
Derated power ..... 298 kW (400 HP) @ 2100 RPM  
Cylinders ..... 6 in line  
Aspiration ..... Turbocharged, after-cooled  
Displacement ..... 10.8 L ..... 660 in<sup>3</sup>  
Starter ..... 24-volt  
Air intake cleaner ..... Donaldson 2-stage dry type with service gauge  
Exhaust system ..... Catalytic purifier with integrated silencer  
Cooling ..... Water and air-to-air cooling  
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 6000 series  
Speeds ..... 4 speeds in forward and reverse

### Axles

Make and model ..... Dana SOH 21D with high traction differential and  
..... POSI STOP brakes on all 4 wheel ends

### Tires

– Bridgestone 26.5R25, multi-star, L-4 VSNT 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 converter

### Steering

– Articulated frame hydraulic power steering with pilot monostick control  
– Double acting steering cylinders (2)  
–  $\pm 42^\circ$  steering angle each way for a total of  $84^\circ$

### Oscillation

–  $\pm 10^\circ$  center of oscillation for a total of  $20^\circ$   
– 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  
–  $65^\circ$  dumping angle for clean and rapid discharge cycles

### 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 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 ..... 454 L ..... 120 US gallons  
Hydraulic oil ..... 340 L ..... 90 US gallons  
Brake cooling oil ..... 114 L ..... 30 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 (2), and all-directional (1) LED high-intensity lights  
– Heavy-duty batteries (2)  
– Signal horn and audible, adjustable back-up alarm

### Standard Features

Cummins QSM11, 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 • Automatic  
tailgate • Automatic lubrication system • Fire suppression system • Video  
system • Ejector body • Spare rim assembly • Cold weather package •  
Knock-down construction for lowering unit down mine shaft •

OTHER OPTIONS ON REQUEST



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