



NARROW LOW PROFILE END DUMP TRUCK

**MODEL
DT-20N**

19.5 metric tonne • 21.5 short ton payload — 9.3 m³ • 12.2 yd³ capacity



FEATURES

- Field-proven, articulated DUX DT-20N 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 75° 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 19.5 tonne.....21.5 ton
 Machine weight, approx..... 17.6 tonne..... 19.4 ton
 GVW 37.1 tonne..... 40.9 ton

SAE VOLUME*

Struck 8.1 m³..... 10.6 yd³
 Heaped 9.3 m³..... 12.2 yd³
 Loose ore density.....2.1 t/m³..... 3,540 lb/yd³

*Custom box size to suit different ore weight available.

OVERALL DIMENSIONS

Length..... 8 330 mm..... 27' 4"
 Width..... 2 135 mm..... 7' 0"
 Height over box sides..... 2 310 mm..... 7' 7"
 Height over canopy or cab 2 440 mm..... 8' 0"

TURNING RADIUS

Inside..... 3 735 mm..... 12' 3"
 Outside..... 6 300 mm..... 20' 8"
 Angle 45°

DISCHARGING

Height at maximum dump angle... 4 395 mm..... 14' 5"
 Maximum dump angle 75°



Available with optional FOPS/ROPS fully equipped cab.

DUX Model DT-20N Narrow Low Profile End Dump Truck

TECHNICAL SPECIFICATIONS*

Engine

Make and model Cummins B6.7 electronic
Derated power 168 kW (225 HP) @ 2500 RPM
Cylinders 6
Aspiration Turbocharged and charge air cooled
..... (Cummins VGT Turbocharger)
Displacement 6.7 L 408 in³
Combustion process High Pressure Common Rail (HPCR) Fuel System
Starter 24-volt electric
Air cleaner Cummins Direct Flow Air Cleaner
Emission control EGR free with Single Module™ aftertreatment
..... system combines Diesel Oxidation Catalyst (DOC),
..... Diesel Particulate Filter (DPF), Diesel Exhaust Fluid
..... (DEF), Selective Catalytic Reduction (SCR)
Cooling Liquid and air-to-air cooling
Emission standard EPA Tier 4 Final, EU Stage V

Transmission with Integrated Torque Converter

Make and model Dana SOH HR32000 series, single stage integrated
..... torque converter with flex plate drive
Speeds 4 in forward and reverse

Axles

Make and model Dana SOH 16D 2149 with high traction differential
..... and POSI STOP brakes on all 4 wheel ends

Tires

– Bridgestone 16.00R25, 2-star, VRLS 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 converter

Steering

– Articulated frame hydraulic power steering with pilot monostick control
– Double acting steering cylinders (2)
– ± 45° steering angle each way for a total of 90°

Oscillation

– ±10° 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 bidirectional 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 gear-type pumps driven from torque converter
– Suction filter
– Inline high pressure filter with service gauge
– ¾" 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 227 L 60 US gallons
Hydraulic oil 227 L 60 US gallons
Brake cooling oil 95 L 25 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 (2), 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 B6.7, EPA Tier 4 Final, EU Stage V 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 • Telma retarder • Certified FOPS/ROPS canopy • Fully
equipped certified FOPS/ROPS noise suppression cab • Bolted spacer
between frame and operator compartment for improved visibility in reverse •
Automatic tailgate • Automatic lubrication system • Fire suppression
system • Video system • Teledump or ejector body • Spare rim assembly •
Cold weather package • OTHER OPTIONS ON REQUEST



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