



NARROW LOW PROFILE END DUMP TRUCK

MODEL DT-20N

20 metric tonne • 22 short ton payload — 9.2 m³ • 12.0 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 20.0 tonne.....22.0 ton
Machine weight, approx..... 17.6 tonne..... 19.4 ton
GVW 37.6 tonne..... 41.4 ton

SAE VOLUME

Struck 8.0 m³..... 10.4 yd³
Heaped 9.2 m³..... 12.0 yd³
Loose ore density.....2.0 t/m³..... 3,375 lb/yd³
Custom box size to suit different ore weight available.

OVERALL DIMENSIONS

Length 8 230 mm.....27' 0"
Width 2 085 mm.....6' 10"
Height over box sides..... 2 285 mm.....7' 6"
Height over canopy 2 415 mm..... 7' 11"

TURNING RADIUS

Inside 3 710 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 bolted spacers for raising FOPS/ROPS operator compartment for improved visibility in reverse.

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

TECHNICAL SPECIFICATIONS*

Engine

Make and model Cummins QSB 6.7 with Electronic
..... Management System
Derated power 164 kW (220 HP) @ 2300 RPM
Cylinders 6
Aspiration Turbocharged, after-cooled
Displacement..... 6.7 L 408 in³
Starter 24-volt
Air intake cleaner Donaldson 2-stage dry type with service gauge
Exhaust system..... Catalytic purifier with integrated silencer
Cooling Liquid
Emission standard Meets EPA Tier 3, Euro Stage IIIA

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 in 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*, VRLS 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 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)
– $\pm 45^\circ$ steering angle each way for a total of 90°

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
– 75° dumping angle for clean and rapid discharge cycles

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
– $\frac{3}{4}$ " 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..... 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 QSB 6.7, 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 • 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 • Intec
video system • OTHER OPTIONS ON REQUEST



Manufactured by:

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