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

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°

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.

Available with optional bolted spacers for raising FOPS/ROPS operator compartment for improved visibility in reverse.
## TECHNICAL SPECIFICATIONS*

### Engine
- Make and model: Cummins QSB 6.7 with Electronic Management System
- Derated power: 164 kW (220 HP) @ 2300 RPM
- Cylinders: 6
- 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 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)
- ±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
- 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
- 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 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)
- 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

### 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

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* Specifications subject to change without notice.