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

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.

Custom box size to suit different ore weight available.
## 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 \(= 408 \text{ in}^3\)
- **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 HR3200 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**: 4-wheel POSI-STOP totally enclosed multi-disc, liquid cooled, Spring Applied Hydraulically
- **Automatic Brake**: Applies brake in case of engine failure or pressure 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
- **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 \(= 60 \text{ US gallons}\)
- **Hydraulic oil**: 227 L \(= 60 \text{ US gallons}\)
- **Brake cooling oil**: 95 L \(= 25 \text{ US gallons}\)

### 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 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

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* Specifications subject to change without notice.

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

*Manufactured by:*

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