FEATURES

- Field-proven, articulated DUX DT-50 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

OVERALL DIMENSIONS

Length .................................. 10 800 mm ............ 35' 5"
Width .................................... 3 125 mm ............ 10' 3"
Height over box sides ............... 3 225 mm ............ 10' 7"
Height over cab ......................... 2 950 mm ............ 9' 8"

TURNING RADIUS

Inside ..................................... 5 130 mm .......... 16' 10"
Outside ................................... 9 040 mm .......... 29' 8"
Angle ...................................... 42°

DISCHARGING

Height at maximum dump angle ... 6 300 mm ............ 20' 8"
Maximum dump angle ............... 65°

WEIGHTS

Payload .................................. 50.0 tonne .......... 55.0 ton
Machine weight, approx. .......... 42.0 tonne .......... 46.2 ton
GVW ...................................... 92.0 tonne .......... 101.2 ton

SAE VOLUME

Struck ..................................... 23.4 m³ .......... 30.6 yd³
Heaped ................................... 28.0 m³ .......... 36.6 yd³

Custom box size to suit different ore weight available.
**TECHNICAL SPECIFICATIONS**

**Engine**
- Make and model: Detroit Diesel Series 60, DDEC with Electronic
- Control: Management System
- Derated power: 429 kW (575 HP) @ 2100 RPM
- Cylinders: 6 in line
- Aspiration: Turbocharged, after-cooled
- Displacement: 14 L (854 in³)
- Starter: 24-volt
- Air intake cleaner: Donaldson 2-stage dry type with service gauge
- Exhaust system: Catalytic purifier with large silencer
- Cooling: Mesabi epoxy coated radiator with air-to-air intercooler
- Emission standard: Meets EPA Tier 3, Euro Stage IIIA

**Torque Converter**
- Make and model: Dana SOH CL 8672 series, single stage with automatic lock-up and flex plate drive

**Transmission**
- Make and model: Dana SOH 8821H series,
- Speeds: 7 in forward and 2 in reverse

**Axles**
- Make and model: Dana SOH 53R300 with high traction differential and POSI STOP brakes on all 4 wheel ends

**Tires**
- Bridgestone 29.5R29 multi-star, E-4 VSNT tubeless radial

**Brakes**
- Service and emergency/parking: liquid cooled, Spring Applied Hydraulically Released
- Oscillation: +10° 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
- +43° steering angle each way for a total of 86°

**Oscillation**
- ±10° center of oscillation for a total of 20°
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- 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**
- Operator forward seated
- Heavy-duty adjustable suspension seat with arm rests and retractable seat belt
- Shock mounted compartment 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
- 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: 644 L (170 US gallons)
- Hydraulic oil: 265 L (70 US gallons)
- Brake cooling oil: 151 L (40 US gallons)

**Electrical System**
- 24-volt negative ground
- 75 amp alternator with integrated sealed voltage regulator
- Heat resistant, waterproof, sealed electric PMA wire harness
- Sealed junction box and stainless steel instrument panel box with multi-stem connectors
- 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

**Standard Features**
- Detroit Diesel Series 60, 14 L, DDEC, 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)
- Neutral engine start protection
- Centralized manual lubrication mid-ship
- Dump box and articulation
- Engine brake
- Fire suppression system
- Intec video system
- Triangular rear reflectors (2)
- 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
- Intec video system
- Weighing system
- Teledump or ejector body
- Spare rim assembly
- Knock-down construction for lowering unit down mine shaft

Manufactured by:

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*Specifications subject to change without notice.*