



LOW PROFILE END DUMP TRUCK

MODEL
DTS-12

7.9 yd³ – 6.0 m³ capacity • 12 ton – 11 metric tonne payload



FEATURES

- The 6-ft (1.83 m) wide DUX DTS-12 articulated 4-wheel drive underground dump truck is easy to maneuver in confined areas and very well-suited for narrow vein mining
- High power-to-weight ratio assures fast tramming up steep ramps with full payload
- Spacious operator compartment is ergonomically designed for maximum visibility and bi-directional tramming, operator can safely control and monitor all machine functions at a glance
- Clean and rapid discharge cycles guaranteed with 70° dumping angle and smooth flow wear resistant alloy steel dump box built for prolonged service life
- Centralized service points and modular design allow for fast service access and quick repair
- Excellent service and parts back-up worldwide



WEIGHTS WITH OPTIONAL FOPS/ROPS CAB

Payload.....	12.0 tons	10.9 tonnes
Machine weight, approx.	11.6 tons	10.5 tonnes
GVW	23.6 tons	21.4 tonnes

OVERALL DIMENSIONS

Length.....	23'-8"	7 215 mm
Width.....	6'-0"	1 830 mm
Height over dump body sides.....	6'-2"	1 880 mm
Height over FOPS ROPS cab	7'-2"	2 185 mm

TURNING RADIUS AT 45°

Inside	9'-2"	2 795 mm
Outside	16'-4"	4 980 mm

SAE DUMP BODY VOLUME*

Struck.....	6.8 yd ³	5.2 m ³
Heaped	7.9 yd ³	6.0 m ³

**Other box sizes available on request*

DISCHARGING

Height req'd at max. dumping angle	11'-10"	3 605 mm
Maximum dumping angle	70°	

BODY HOIST

Raise.....	10 seconds
Lower	9 seconds
Total cycle time	19 seconds

DUX Model DTS-12 Low Profile End Dump Truck

TECHNICAL SPECIFICATIONS*

Engine

Make.....Cummins
Model.....OSB 4.5
Power.....148 HP (114 kW) @ 2300 RPM
Cylinders.....In-line 4
Aspiration.....Turbocharged and charge air cooled
Displacement.....275 in³.....4.5 L
Starter.....24-volt
Air intake cleaner.....Donaldson 2-stage dry type with service gauge
Exhaust system.....Catalytic purifier with integrated silencer
Emission standard.....Meets EPA Tier 3, NRMM (Europe) Stage III

Transmission with Integrated Torque Converter

Make.....Dana SOH
Model.....Long drop, HR 24 000 series with integrated torque
.....converter and flex plate drive
Speeds.....3 in forward and in reverse

Axles

Make.....Dana SOH
Model.....176 planetary with internal multiple wet-type
.....4-wheel disc brakes

Tires

- Michelin 12.00R24 X-MINE D2, L5, radial

Brakes

Service.....4-wheel power multi-internal wet disc, dual
.....hydraulic power control with accumulator back-up
Emergency/parking.....Fail-safe 100% back-up spring applied hydraulic
.....released multi-internal wet 4 wheel brakes
Automatic brake (ABA).....Applies secondary brake in case of engine failure
.....or pressure drop in torque converter

Steering

- Articulated frame hydraulic power steering, Orbitrol valve-type with steering wheel and cushion valve
- 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, four-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
- 70° dumping angle for clean discharge

Operator's Compartment

- Side seated for maximum visibility and bi-directional operation
- Heavy-duty adjustable suspension seat with arm rests and retractable seat belt
- Shock mounted for maximum comfort
- All controls and gauges located within easy reach and view of operator

Hydraulic System

- Orbitrol valve with steering wheel
- Heavy-duty double acting protected steering cylinders (2) with hard chrome plated stems
- Heavy-duty double acting two-stage fully protected telescopic dump cylinder with hard chrome plated stems
- Heavy-duty PTO driven gear-type pumps driven from torque converter
- 125 mesh suction filter
- 6 micron inline high pressure with service gauge
- $\frac{3}{4}$ in. inside diameter and over hoses that are four-spiral wire braid and have crimped hose end swivel fittings
- Hose bulk-head is located mid-ship

Tank Capacities

Fuel.....45 US. gallons.....170 L
Hydraulic oil.....45 US. gallons.....170 L

Electrical System

- 24-volt negative ground
- 70 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) halogen high-intensity light
- Heavy-duty batteries (2)
- Signal horn
- Audible, adjustable back-up alarm

Standard Features

- Cummins OSB 4.5 electronic engine
- Pran electronic display monitor
- Proven heavy-duty Dana SOH powertrain
- Automatic engine shut-off at low oil pressure and high temperature
- Hourmeter
- All necessary gauges for engine, converter and brake pressure not covered by Pran electronic display module
- Neutral engine start protection
- Centralized manual lubrication manifold mid-ship
- Dump box and articulation safety bars
- Triangular rear reflectors (2)
- 20 lb (9 kg) hand-held fire extinguisher
- Wheel chucks (2) with storage brackets (2)
- Parts/Operator/Maintenance Manuals
- Compliant with MSHA, CANMET and CE regulation

Options

- Diesel particulate filter
- Certified FOPS/ROPS operator's canopy
- Alternatively, fully-equipped certified FOPS ROPS noise suppression cab
- Fire suppression system
- Spare rim assembly
- OTHER OPTIONS ON REQUEST

* Specifications subject to change without notice.



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