



LOW PROFILE END DUMP TRUCK

MODEL
DT-12

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



FEATURES

- The field-proven, articulated compact DUX DT-12 underground four-wheel drive dump truck is easily manoeuvrable in confined areas and well suited for narrow vein mining
- High power to weight ratio assures fast tramming up steep ramps
- Large operator's compartment is side seated for optimum visibility and bi-directional tramming
- Clean and rapid discharge cycles guaranteed with 70° dumping angle and smooth flow, wear resistant alloy steel dump box
- For maximum safety, reliability and low maintenance cost, the DUX DT-12 is equipped with heavy-duty transmission and planetary axles
- Centralized service points and modular design allow for easy service access and fast component exchange
- Excellent service and parts back-up worldwide

OVERALL DIMENSIONS

Length.....	22'-4"	6 810 mm
Width	6'-0"	1 830 mm
Height over dump body sides.....	6'-3"	1 905 mm
Height over FOPS canopy.....	7'-8"	2 335 mm

SAE DUMP BODY VOLUME*

Heaped	7.8 yd ³	6.0 m ³
Struck	6.6 yd ³	5.0 m ³

**Other box sizes available on request*

DISCHARGING

Height req'd at max. dumping angle	11'-6"	3 500 mm
Maximum dumping angle	70°	

WEIGHTS

Payload.....	12.0 tons	10.9 tonnes
Machine weight, approx.	10.3 tons	9.4 tonnes
GVW	22.3 tons	20.3 tonnes



DUX Model DT-12 Low Profile End Dump Truck

TECHNICAL SPECIFICATIONS*

Engine

Make..... Cummins
Model..... OSB 6.7
Power..... 160 HP (119 kW) @ 2300 RPM
Cylinders..... In-line 6
Aspiration..... Turbocharged and charge air cooled
Displacement..... 408 in³..... 6.7 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 IIIA

Transmission with Integrated Torque Converter

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

Tires

- Michelin 12.00R24 X-MINE D2, L5 tubeless

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)
- $\pm 40^\circ$ steering angle each way for a total of 80°

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 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 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
- 60 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

- Deutz BF4M-1013C engine
- Proven heavy-duty Dana /SOH Clark-Hurth powertrain
- Automatic engine shut-off at low oil pressure and high temperature
- Hourmeter
- All necessary gauges for engine, converter and brake pressure
- Neutral engine start protection
- Centralized manual lubrication manifold mid-ship
- Dump box and articulation safety bars
- Triangular rear reflectors (2)
- Parts/Operator/Maintenance Manuals
- Compliant with MSHA, CANMET and CE regulation

Options

- Caterpillar or Deutz engines
- FOPS/ROPS canopy
- Roll bar
- Ansul fire suppression system
- Spare rim assembly
- Co-driver seat
- OTHER OPTIONS ON REQUEST

* Specifications subject to change without notice.



Manufactured by:
DUX MACHINERY CORPORATION
615 Lavoisier, Repentigny Quebec, Canada J6A 7N2
Phone: (+1) 450-581-8341 • Fax: (+1) 450-581-5138
Website: www.duxmachinery.com