



# LOW PROFILE END DUMP TRUCK

## MODEL DT-12

**11 metric tonne • 12 short ton payload — 6.0 m<sup>3</sup> • 7.8 yd<sup>3</sup> capacity**



### FEATURES

- The 1.83 m (6' 0") wide DUX DT-12 articulated 4-wheel drive underground dump truck is easy to maneuver in confined areas and very well suited for narrow vein mining
- Excellent load retention and fast tramming up steep ramps guaranteed — highest power to weight ratio in its class
- Spacious operator compartment is ergonomically designed for maximum visibility and bidirectional tramming, operator can safely control and monitor machine functions at a glance
- Clean and rapid discharge cycles guaranteed with 70° dump angle and smooth flow, wear resistant alloy steel dump box
- Centralized service points and modular design for easy service access and fast component exchange
- Excellent service and parts back-up worldwide

### WEIGHTS

Payload ..... 11.0 tonne..... 12.0 ton  
 Machine weight, approx..... 10.5 tonne..... 11.6 ton  
 GVW ..... 21.5 tonne.....23.6 ton

### SAE VOLUME\*

Struck ..... 5.0 m<sup>3</sup>..... 6.6 yd<sup>3</sup>  
 Heaped ..... 6.0 m<sup>3</sup>..... 7.8 yd<sup>3</sup>

*\*Custom box size to suit different ore weight available.*

### OVERALL DIMENSIONS

Length ..... 6 810 mm.....22' 4"  
 Width ..... 1 830 mm.....6' 0"  
 Height over box sides..... 1 905 mm.....6' 3"  
 Height over canopy ..... 2 360 mm.....7' 9"

### TURNING RADIUS

Inside..... 4 345 mm..... 14' 3"  
 Outside..... 6 400 mm..... 21' 0"  
 Angle .....40°

### DISCHARGING

Height at maximum dump angle...3 500 mm..... 11' 6"  
 Maximum dump angle .....70°



**DUX DT-12N (narrow-version) measuring 1625 mm (5' 4") wide.**

# DUX Model DT-12 Low Profile End Dump Truck

## TECHNICAL SPECIFICATIONS\*

### Engine

Make and model ..... Cummins QSB4.5 electronic  
Derated power ..... 110 kW (148 HP) @ 2300 RPM  
Cylinders ..... 4  
Aspiration ..... Turbocharged and charge air cooled  
Displacement ..... 4.5 L ..... 275 in<sup>3</sup>  
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 HR24000 series with integrated  
..... torque converter and flex plate drive  
Speeds ..... 3 in forward and reverse

### Axles

Make and model ..... Dana SOH 113 planetary type with totally enclosed  
..... internal wet multi-disc brakes for each wheel

### Tires

– Michelin 12.00R24, L-5 D2 X-MINE radial

### Brakes

Service ..... 4-wheel power internal wet multi-disc brakes, dual  
..... hydraulic power control with accumulator back-up  
Emergency/parking ..... Fail safe back-up spring applied hydraulically  
..... released (SAHR) internal wet multi-disc brakes  
Automatic Brake ..... Applies brake in case of engine failure or pressure  
Applicator (ABA) ..... 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  $80^\circ$

### Oscillation

–  $\pm 10^\circ$  center of oscillation for a total of  $20^\circ$   
– 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  
–  $70^\circ$  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 seat belt  
– Co-driver seat with arm rests and retractable seat belt  
– Shock mounted compartment floor 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 cylinder 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  
–  $\frac{3}{4}$ " 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 ..... 170 L ..... 45 US gallons  
Hydraulic oil ..... 170 L ..... 45 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 QSB4.5, 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 • Parts/Operator/Maintenance manuals • Compliant with MSHA, CANMET and CE regulation

### Options

DT-12 or DT-12N configuration • Different engine • Diesel particulate filter • Roll Bar • Certified FOPS/ROPS canopy • Automatic tailgate • Automatic lubrication system • Fire suppression system • Video system • Spare rim assembly • Cold weather package • OTHER OPTIONS ON REQUEST



Manufactured by:

**DUX MACHINERY CORPORATION**

615 Lavoisier, Repentigny Quebec, Canada J6A 7N2

+1 450.581.8341 tel +1 450.581.5138 fax www.duxmachinery.com