



LOW PROFILE END DUMP TRUCK

MODEL DT-12

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



FEATURES

- The 1.83 m (6') 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 5.2 m³ 6.8 yd³
 Heaped 6.0 m³ 7.9 yd³
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 2 335 mm 7' 10"

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 QSB 4.5 with Electronic
..... Management System
Derated power 110 kW (148 HP) @ 2300 RPM
Cylinders 4
Aspiration Turbocharged and charge air cooled
Displacement 4.5 L 275 in³
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 in reverse

Axles

Make and model Dana SOH 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 (SAHR) multi-internal wet 4 wheel brakes
Automatic Brake Applies brake in case of engine failure or
Applicator (ABA) 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° (DTS-12)
– $\pm 40^\circ$ steering angle each way for a total of 80° (DT-12)

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, 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 5 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 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 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
– Audible, adjustable back-up alarm

Standard Features

Cummins QSB 4.5, 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 not covered by PRAN electronic
display module • Wheel chocks (2) with storage brackets (2) • Neutral
engine start protection • Centralized manual lubrication manifold mid-
ship • Dump box and articulation safety bars • Triangular rear reflectors
(2) • 9 kg (20 lb) hand-held fire extinguisher • Parts/Operator/Maintenance
Manuals • Compliant with MSHA, CANMET and CE regulation

Options

DTS-12 or DT-12 configuration • Different engine • Diesel particulate filter
• Certified FOPS/ROPS canopy • Fully equipped certified FOPS/ROPS
noise suppression cab • Automatic lubrication system • Fire suppression
system • Spare rim assembly • OTHER OPTIONS ON REQUEST



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