



LOW PROFILE TELEDUMPER

MODEL TD-50

47.8 metric tonne • 52.7 short ton payload — 29.8 m³ • 39.0 yd³ capacity



FEATURES

- Field-proven, articulated underground 4-wheel drive DUX TD-50 Teledumper brings high capacity hauling to areas previously limited to scoop loaders with effective loading and dumping in headings as low as 3.9 m (12' 11")
- Patented telescopic dump box with sealed sections retains slurry without leakage and distributes payload evenly – excellent load retention on steep grades guaranteed
- Highest power to weight ratio in its class
- Field proven Dana SOH powertrain
- 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

WEIGHTS

Payload47.8 tonne.....52.7 ton
 Machine weight, approx.....40.2 tonne.....41.1 ton
 GVW 88.0 tonne..... 93.8 ton

SAE VOLUME

Struck 25.1 m³.....32.8 yd³
 Heaped29.8 m³.....39.0 yd³
 Ore weight..... 1.604 t/m³.....2,715 lb/yd³
Custom box size to suit different ore weight available.

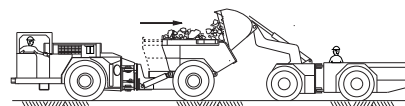
OVERALL DIMENSIONS

Length..... 11 580 mm.....38' 0"
 Width with tailgate 3 500 mm..... 11' 6"
 Height over box sides..... 3 125 mm..... 10' 3"
 Height over cab3 500 mm..... 11' 6"

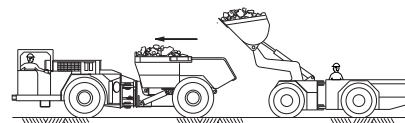
TURNING RADIUS AT 43°

Inside..... 5 235 mm..... 17' 2"
 Outside..... 9 500 mm..... 31' 2"

TD-50 OPERATING CYCLE



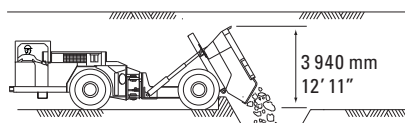
REAR LOADING BY SMALL SCOOP TO FILL RETRACTED FRONT



TELESCOPIC ACTION MOVES LOAD AHEAD



COMPLETION OF LOADING FROM THE REAR



TELESCOPIC ACTION ALLOWS FOR DUMPING IN LOW HEADINGS

PATENT NO. 9669



DUX Model TD-50 Low Profile Teledumper

TECHNICAL SPECIFICATIONS*

Engine

Make and model Detroit Diesel Series 60, 14 L DDEC with Electronic Management System
Derated power 429 kW (575 HP) @ 2100 RPM
Cylinders 6
Aspiration Turbocharged, after-cooled
Displacement 14.0 L 854 in³
Starter 24-volt
Air intake cleaner Donaldson 2-stage dry type with service gauge
Exhaust system Catalytic purifier with integrated silencer
Cooling Large-sized integarted water radiator, charge air cooler and air over oil transmission cooling package
Emission standard Meets EPA Tier 3, Euro Stage IIIA

Torque Converter

Make and model Dana SOH CL 8000 series, single stage with automatic lock-up and flex plate drive

Transmission

Make and model Dana SOH 8821H (heavy duty) with remote electric shift, 7 speeds in forward and 4 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 4-wheel POSI-STOP totally enclosed multi-disc, emergency/parking liquid cooled, spring applied hydraulically released 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
– Double acting steering cylinders (2)
– $\pm 43^\circ$ steering angle each way for a total of 86°

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 five-year unlimited hour guarantee
– Large high tensile alloy steel pins in replaceable anchor bushings

Teledump Body

– Extra heavy-duty 2-section design with double acting telescopic dump cylinders (2) and ejector cylinders (2) made from impact wear-resistant

alloy steel plates that are reinforced, prolongs service life substantially
– Supported on rugged tipping frame, telescopic action guided by heavy-duty bottom roller bearings (2) that run along hardened tracks and extra heavy-duty adjustable/replaceable slide arrangements (2) on top of box

Operator 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 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)
– Heavy-duty double acting two-stage fully protected telescopic dump cylinders (2) with hard chrome plated stems
– Heavy-duty ejector cylinders (2)
– Heavy-duty PTO-driven variable displacement piston pumps with load sensing driven from 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 645 L 170 US gallons
Hydraulic oil 340 L 90 US gallons
Brake cooling oil 151 L 40 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

Detroit Series 60, 14 L DDEC, EPA Tier 3, Euro Stage IIIA electronic engine
• 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 mid-ship • Teledump box and articulation safety bars • Parts/Operator/Maintenance manuals • Compliant with MSHA, CANMET and CE regulation

Options

Different engine • FOPS/ROPS canopy or fully equipped operator's cab • Automatic tailgate • Automatic lubrication system • Fire suppression system • Intec video system • Spare rim assembly • OTHER OPTIONS ON REQUEST



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