



LOW PROFILE TELEDUMPER

MODEL TD-45

27.0 yd³ – 20.6 m³ capacity • 45 ton – 41 metric tonne payload



FEATURES

- The DUX TD-45 teledumper brings high capacity hauling capabilities to areas previously limited to scoop loaders
- Effective loading and dumping in headings as low as 12'-6" or 3.8 meters
- Evenly distributed 45 ton payload throughout patented telescopic dump body that retains slurry without leakage between sealed body sections – excellent load retention on steep grades guaranteed
- Four-wheel drive articulated frame steering
- Electronically controlled engine reduces fuel consumption and ventilation requirement
- For maximum safety, reliability and low maintenance cost, the DUX TD-45 is equipped with four-wheel POSI-STOP braking system
- Centralized service points and modular design allow for easy service access and fast component exchange
- Excellent service and parts back-up worldwide

WEIGHTS

Payload.....	45 tons	41 tonnes
Machine weight, approx.....	43 tons	39 tonnes
GVW.....	88 tons	80 tonnes

SAE TELEDUMP BODY VOLUME*

Struck.....	21.3 yd ³	16.3 m ³
Heaped.....	27.0 yd ³	20.6 m ³

*Other teledump body sizes available on request

DISCHARGING

Height req'd at max. teledumping angle ..12'-6" ..	3 810 mm
Maximum teledumping angle	62°

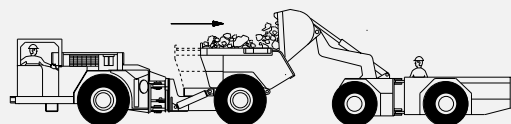
OVERALL DIMENSIONS

Length.....	36'-5"	11 100 mm
Width	10'-3"	3 125 mm
Height over teledump body sides.....	9'-0"	2 745 mm

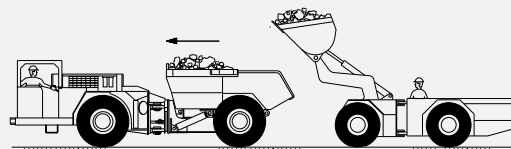
TURNING RADIUS @ 42.5° TURNING ANGLE

Inside	17'-3"	5 260 mm
Outside	30'-4"	9 250 mm

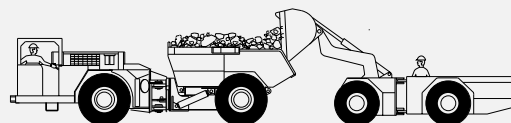
DUX TELEDUMPER OPERATING CYCLE



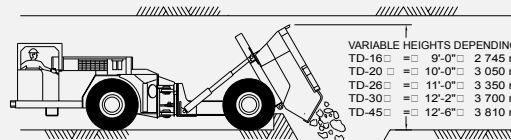
1. REAR LOADING BY SMALL SCOOP OR CONVEYER TO FILL
 RETRACTED FRONT WITH EASE



2. TELESCOPIC ACTION MOVES LOAD AHEAD



3. COMPLETION OF LOADING FROM THE REAR



4. TELESCOPIC ACTION ALLOWS FOR DUMPING IN LOW HEADINGS

VARIABLE HEIGHTS DEPENDING ON MODEL

TD-18	9'-0"	2 745 mm
TD-20	10'-0"	3 050 mm
TD-26	11'-0"	3 350 mm
TD-30	12'-2"	3 700 mm
TD-45	12'-6"	3 810 mm

DUX Model TD-45 Teledumper

TECHNICAL SPECIFICATIONS*

Engine

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

Torque Converter

Make/model.....Dana /SOH CL8672 series, single stage with
.....automatic lock-up and flex plate drive

Transmission

Make/model.....Dana /SOH 8821H (heavy-duty) with remote
.....electric shift
Speeds.....7 in forward and 4 in reverse

Axles

Make/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.....4-wheel POSI-STOP totally enclosed multi-disc,
.....liquid cooled, spring applied hydraulically released
.....with its own independent circulating cooling
.....system and accumulator back-up
Emergency/parking.....Same as service (POSI-STOP)
Automatic brake (ABA).....Standard automatic brake applicator (ABA),
.....applies brake in case of engine failure or
.....pressure drop in torque converter

Steering

- Articulated frame hydraulic power steering
- Double acting steering cylinders (2)
- $\pm 42.5^\circ$ steering angle each way for a total of 85°

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

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 lengthening service life substantially
- Supported on rugged tipping frame, teledumping action is guided by heavy-duty bottom roller bearings (2) that run along hardened tracks and extra heavy-duty adjustable and replaceable slide arrangements (2) on top of teledump body

Operator's Compartment

- Side seated for maximum visibility and bi-directional operation
- Heavy-duty adjustable suspension seat with arm rests and retractable seat belt, and joystick controls for steering and dumping integrated in air ride suspension seat in front of armrests
- 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 protected ejector cylinders (2) with hard chrome plated stems
- Heavy-duty double acting two-stage fully protected telescopic dump cylinders (2) with hard chrome plated stems
- Heavy-duty PTO driven gear-type pumps driven from torque converter
- 125 mesh suction filter
- 10 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.....170 US gallons.....645 L
Hydraulic oil.....90 US gallons.....340 L
Brake cooling oil.....40 US gallons.....151 L

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) halogen high-intensity light
- Heavy-duty batteries (2)
- Signal horn
- Audible, adjustable back-up alarm

Standard Features

- Detroit Diesel Series 60 DDEC engine with Electronic Display Module
- Proven heavy-duty Dana /SOH powertrain and 4-wheel POSI-STOP brakes
- Patented DUX teledump body
- Automatic engine shut-off at low oil pressure and high temperature
- Hourmeter
- All necessary gauges for engine not covered by DDEC, converter and brake pressure
- Neutral engine start protection
- Centralized manual lubrication mid-ship
- Teledump box and articulation safety bars
- Triangular rear reflectors (2)
- Parts/Operator/Maintenance manuals
- Compliant with MSHA, CANMET and CE regulation

Options

- Different engine
- Jacobs engine brake interconnected with Detroit DDEC engine
- Fully equipped operator's cab with operator facing forward, Orbitrol power wheel steering and co-driver's seat
- Automatic tailgate
- Automatic lubrication system
- Fire suppression system
- Intec video system
- Loadman weighing system
- DUX ejector body or standard dump body
- OTHER OPTIONS ON REQUEST

* Specifications subject to change without notice.



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