



BASKET BOOM TRUCK

**MODEL
P1-DBB14**

4.3 m • 14' boom extension — 454 kg • 1,000 lb. safe lift capacity



FEATURES

- Field-proven articulated DUX P1- carrier with clean emission diesel engine and heavy-duty powertrain
- DUX DBB14 aerial self-leveling basket boom with 9 300 mm (30' 6") maximum vertical reach and 454 kg (1,000 lb.) safe lift capacity
- Full boom controls in basket (except stabilizers including) engine start/emergency stop in man basket, remote pendant control aslo available
- Wood lines basket floor and sides (optional steel)
- 180° pivot saddle devices (2) available on basket for handling short and long pipes
- Totally enclosed 508 mm (20") stroke boom side stabilizers (2) with 1 219 mm (48") horizontal spread with built-in safety lock valves (2) for greater reach and stability on rough terrain
- Spacious operator compartment is ergonomically designed for maximum visibility and bidirectional tramming, operator can safely control and monitor machine functions at a glance
- Centralized service points and modular design for easy service access and fast component exchange
- Excellent service and parts back-up worldwide

WEIGHT & OVERALL DIMENSIONS

Machine weight, approx.....12.7 tonne..... 14.0 ton
 Length.....9 100 mm.....29' 10"
 Width.....1 980 mm.....6' 6"
 Height over FOPS/ROPS canopy..2 135 mm.....7' 0"

TURNING RADIUS @ 44° TURNING ANGLE

Inside.....3 990 mm..... 13' 1"
 Outside with basket swung 6 200 mm.....20' 4"
 Outside with basket straight6 700 mm.....22' 0"

DUX DBB14 SELF-LEVELING AERIAL BASKET BOOM*

Boom extension 4 267 mm..... 14' 0"
 Maximum vertical reach.....9 300 mm.....30' 6"
 Height above safety hand rails 1 065 mm.....3' 6"
 Basket size 1 015 x 1 525 mm..... 3' 4" x 5' 0"
 Boom lift angle60°
 Boom swing angle.....40° on either side
 Basket swing angle 45° on either side

**Other boom extensions and basket sizes available on request.*



DUX Model P1-DBB14 Aerial Self-Leveling Man Lift Boom 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 12.00-20, 18 ply mining tires (other make and radial optional)

Brakes

Service 4-wheel power multi-internal wet disc, dual hydraulic power control with accumulator back-up
Emergency/parking Fail-safe 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)
– $\pm 44^\circ$ steering angle each way for a total of 88°

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

Operator Compartment

– Side seated for maximum visibility and bidirectional operation
– Heavy-duty adjustable suspension seat with arm rests and 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 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

Stabilizers

– Totally enclosed 508 mm (20") stroke boom side stabilizers (2) with 1 219 mm (48") spread with built-in safety lock valves (2) and hydraulic valve controls (2)

Tank Capacities

Fuel 170 L 45 US gallons
Hydraulic oil 170 L 45 US gallons

Electrical System

– 24-volt negative ground
– 70 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 (2) 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 • Triangular rear reflectors (2) • 9 kg (20 lb) hand-held fire extinguisher • Parts/Operator/Maintenance Manuals • Compliant with MSHA, CANMET and CE regulation

Options

Different engine • Diesel particulate filter • Certified FOPS/ROPS canopy • Fully equipped certified FOPS/ROPS noise suppression cab • Custom basket sizes and extended man lift boom heights • Height adjustable cable idler pulley, installed on basket for electric cable support • Power driven cable reel • Storage boxes (2) • Auxiliary 12 Volt power terminal block (3 point in operator's compartment capable of producing 10 Amp minimum) • Automatic lubrication system • Fire suppression system • Spare rim assembly • OTHER OPTIONS ON REQUEST



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