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 canopy or cab	2 285 mm	7′ 6″

TURNING RADIUS @ 44° TURNING ANGLE

Inside	3 990 mm	13′ 1″
Outside with basket swung	6 200 mm	20′ 4″
Outside with basket straight	6 700 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 angle	60°	
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 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^3
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 12.00-20, 18 ply mining tires (other make and radial optional)

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)
– $\pm$ 44° steering angle each way for a total of 88°

Oscillation

– $\pm$10° 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

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 PTO driven gear-type pumps driven from torque converter
– Suction filter
– Inline high pressure filter with service gauge
– ¾" 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
– 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 • Articulation safety bars • 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 • Automatic lubrication system • Fire suppression system • Video system • Spare rim assembly • Cold weather package • 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 compartment capable of producing 10 amp minimum) • OTHER OPTIONS ON REQUEST

Manufactured by:

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* Specifications subject to change without notice.