



## 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 also 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<sup>3</sup>  
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)  
–  $\pm 44^\circ$  steering angle each way for a total of  $88^\circ$

### Oscillation

–  $\pm 10^\circ$  center of oscillation for a total of  $20^\circ$   
– 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  
– In-line 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  
– 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



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