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

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.

WEIGHT & OVERALL DIMENSIONS

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Machine weight, approx.</td>
<td>12.7 tonne</td>
</tr>
<tr>
<td>Length</td>
<td>9 100 mm</td>
</tr>
<tr>
<td>Width</td>
<td>1 980 mm</td>
</tr>
<tr>
<td>Height over FOPS/ROPS canopy</td>
<td>2 135 mm</td>
</tr>
</tbody>
</table>

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**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 \(\text{~275 in}^3\)
- 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 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
- Emergency/shut off: 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 \(88^\circ\)

### 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 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
- \(\frac{1}{4}\)" 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: \(170 \text{ L} \quad 45 \text{ US gallons}\)
- Hydraulic oil: \(170 \text{ L} \quad 45 \text{ US gallons}\)

### 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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*Specifications subject to change without notice.*