FEATURES

- Proven in the field for over 15 years, DUX DS Series Scalers are cost efficient, reliable, high production machines designed to safely and efficiently scale loose rock from up to 10.6-meter (35-ft) high tunnel backs and ribs.

- The heavy-duty articulated four-wheel drive chassis and retractable stabilizers offer a stable base for the telescopic scaling boom that swings 45° to either side and extends 2.74-meter (9-ft) for maximum work area coverage. Accurate tool placement is assured by the 360° tool rotation/tilt head and a variety of boom actions controlled by two pilot operated joysticks located on arm rests of captain’s seat.

- The fully equipped, pressurized, noise suppression FOPS operator’s comfort cab with 56 cm (22-in.) hydraulic elevating feature allows for maximum visibility.

- DUX Scalers are available with interchangeable ripping claw with mechanical tooth and optional hydraulic hammer with chisel tool, as well as optional dozer blade for clearing rock debris and water sprayer for dust control lower level operation.

WEIGHTS

Machine weight, approx........... 25.4 tonne........... 28.0 ton

OVERALL TRAMMING DIMENSIONS

Length (with optional water tank) 12 115 mm.............. 39’ 9”
Width............................................. 2 690 mm.............. 8’ 10”
Height.......................................... 2 820 mm.............. 9’ 3”
Wheel base.................................... 3 965 mm.............. 13’ 0”
Ground clearance ......................... 355 mm............... 14”

TURNING RADIUS

Inside............................................. 3 710 mm.............. 12’ 2”
Outside with boom turned........... 6 910 mm.............. 22’ 8”
Outside with boom straight........ 8 890 mm.............. 29’ 2”
Angle.......................................... 40°

MAXIMUM OPERATING RANGES FOR SCALING BOOM

Boom extension.......................... 2 743 mm.............. 9’ 0”
Boom length (closed)............... 6 706 mm.............. 22’ 0”
Boom length (extended)............. 9 449 mm.............. 31’ 0”
Maximum reach with scaling tool 10 670 mm.............. 35’ 0”
Boom lift angle............................. 50°
Boom swing angle....................... 45°

WORK AREA COVERAGE WITH SCALING TOOL

<table>
<thead>
<tr>
<th>BACK HEIGHT</th>
<th>AREA COVERAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>m²</td>
</tr>
<tr>
<td>4.6</td>
<td>46.7</td>
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<tr>
<td>6.1</td>
<td>47.4</td>
</tr>
<tr>
<td>7.6</td>
<td>48.0</td>
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<tr>
<td>9.1</td>
<td>38.6</td>
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<tr>
<td>10.6</td>
<td>13.0</td>
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</tbody>
</table>
## DUX Model DS30RB High Production Scaler

### Technical Specifications

**Engine**
- **Make and model**: Cummins QSB 6.7 electronic
- **Power**: 127 kW (170 HP) @ 2300 RPM
- **Cylinders**: 6 in line
- **Aspiration**: Turbocharged, air to air aftercooled
- **Displacement**: 6.7 L .......... 409 in³
- **Starter**: 24-volt
- **Air intake cleaner**: Donaldson 2-stage dry type with service gauge
- **Exhaust system**: Catalytic purifier with integrated silencer
- **Cooling**: Liquid to air to cooling
- **Emission standard**: Meets EPA Tier 3, Euro Stage IIIA

**Transmission with Integrated Torque Converter**
- **Make and model**: Dana SOH HR32000 series, single stage integrated
- **Torque converter with flex plate drive**: 4 in forward and in reverse

**Axles**
- **Make and model**: Dana SOH 16D 2149 with high traction differential
- **and POSI STOP brakes on all 4 wheel ends**

**Tires**
- **Bridgestone 14.00-24, 28 Ply, Tube-Type, E-3, R-LUG mining tires**

**Brakes**
- **Service and Parking**: 4-wheel POSI-STOP totally enclosed multi-disc, emergency/parking ...... liquid cooled, Spring Applied Hydraulically
- **Automatic Brake**: Released (SAHR) with accumulator back-up
- **Automatic Brake**: Applies brake in case of engine failure or pressure
- **Applicator (ABA)**: drop in torque converter

**Steering**
- **Articulated frame hydraulic power steering**
- **Pilot stick (joystick) steering control, cushion valve and constant flow meter**
- **Double acting steering cylinders (2)**
- **± 40° steering angle each way for a total of 80°**

**Oscillation**
- **±10° for a total of 20°**
- **Cradle on engine side axle**

**Frames and Pins**
- **Articulated heavy-duty frames made to withstand the high impact and torsional stress associated with mining application**
- **Large high tensile alloy steel pins in replaceable anchor bushings**
- **Heavy duty pedestal assembly**

**Scaling Tool**
- **Hydraulic positive lock 360° tool rotary actuator with large diameter sealed outboard roller bearing**
- **Impact resistant, rugged ripping claw with replaceable Esco tooth**

**Stabilizers**
- **Totally enclosed boom side stabilizers (2) with built-in safety lock valves**
- **457 mm (18-in.) hydraulic cylinder stroke**

**Operator Compartment**
- Large sized, ergonomically correct, with instruments in good view
- Fully adjustable captain’s seat with joystick pilot control valves (2) for scaling boom and tool action built into fronts of arm rests. Seat c/w retractable 3 point seat belt
- Operator’s safety compartment with 560 mm (22") hydraulic elevating feature for excellent visibility whilst scaling lower part of R.H. face and rib (optional fully enclosed can also available)

**Hydraulic System**
- **175 bar (2500 PSI) system pressure**
- **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**

**Tank Capacities**
- **Fuel**: 219 L ............ 58 US gallons
- **Hydraulic oil**: 660 L ...... 175 US gallons

**Electrical System**
- **24-volt negative ground**
- **100 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 (10), rear (4), and all-directional (1) LED high-intensity lights**
- **Heavy-duty batteries (2)**
- **Signal horn**
- **Adjustable, adjustable back-up alarm**

**Standard Features**
- Cummins QSB 6.7 electronic engine • Operator’s safety compartment with elevating feature • Heavy-duty telescopic scaler boom and ripping claw • Skid pans that protect drive lines and power train • Automatic engine shut-off at low oil pressure and high temperature • Totally enclosed boom side stabilizers • 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**
- Caterpillar engine • Different tool • Hydraulically operated dozer blade • 500 L (132 US gal.) stainless steel water tank with booster water pump and spray nozzle • Fully equipped FOPS noise suppression cab • Automatic lubrication system • Fire suppression system • Spare rim assembly • Engine side stabilizers (2) • Electric/hydraulic emergency power pack • Low Profile Version Scaler • OTHER OPTIONS ON REQUEST

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Manufactured by:
**DUX MACHINERY CORPORATION**
615 Lavoisier, Repentigny Quebec, Canada J6A 7N2
Phone: (+1) 450-581-8341 • Fax: (+1) 450-581-5138 • www.duxmachinery.com

* Specifications subject to change without notice.