FEATURES

- Proven in the field for 15 years, DUX DS Series Low Profile Scalers are cost efficient, reliable, high production machines designed to safely and efficiently scale loose rock from up to 9.1-meter (30-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 2.2-meter (7-ft 3-inch) 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 Low Profile Scalers are available with interchangeable ripping claw with mechanical tooth, optional hydraulic hammer with chisel tool, cutter, as well as optional dozer blade for clearing rock debris and water sprayer for dust control lower level operation.

WEIGHTS

Machine weight, approx................. 24.2 tonne.............. 26.2 ton

OVERALL TRAMMING DIMENSIONS

Length (without tool) ................. 11 940 mm............. 39’ 2”
Width........................................ 2 285 mm............. 7’ 6”
Height...................................... 2 235 mm............. 7’ 4”
Wheel base.................................. 4 015 mm............. 13’ 2”
Ground clearance.......................... 330 mm............. 13”

TURNING RADIUS

Inside....................................... 4 165 mm............. 13’ 8”
Outside with boom turned.......... 6 935 mm............. 22’ 9”
Outside with boom straight ...... 9 145 mm............. 30’ 0”
Angle........................................ 40°

MAXIMUM OPERATING RANGES FOR SCALING BOOM

Boom extension........................ 2 200 mm............. 7’ 3”
Boom length (closed)................. 5 725 mm............. 18’ 7”
Boom length (extended)............... 7 925 mm............. 26’ 6”
Maximum reach with scaling tool.... 9 145 mm............. 30’ 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>
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**DUX Model DS30RB/LP Low Profile 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 with air to air 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
- Automatic engine shut-off at low oil pressure and high temperature
- Transmission with Integrated Torque Converter
- Torque converter with flex plate drive
- 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
- 175 bar (2500 PSI) system pressure
- Centralized manual lubrication manifold mid-ship
- 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
- Electric/hydraulic emergency power system
- Front (10), rear (4), and all-directional (1) LED high-intensity lights
- Heavy-duty batteries (2)
- Front reflectors (2)
- Side stabilizers
- All necessary gauges for engine, converter and brake pressure not covered by PRAN electronic display module
- Elevation feature
- 457 mm (18-in.) hydraulic cylinder stroke
- Fully equipped FOPS noise suppression cab
- Compliant with MSHA, CANMET and CE regulation
- Heat resistant, waterproof, sealed electric PMA wire harness
- Semi-automatic circuit breakers
- Front air, rear (4), and all-directional (1) LED high-intensity lights
- Heavy-duty batteries (2)
- Signal horn
- Adjustable, adjustable back-up alarm

**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, E-3, R-LUG tube type tires

**Brakes**
- Service and emergency/parking: liquid cooled, Spring Applied Hydraulically
- Automatic Brake: Released (SAHR) with accumulator back-up
- Applications: Applies brake in case of engine failure or pressure
- 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)

**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°

**Transmission**
- Make and model: Dana SOH HR32000 series, single stage integrated
- Automatic engine shut-off at low oil pressure and high temperature
- Transmission with Integrated Torque Converter
- Torque converter with flex plate drive
- 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
- 175 bar (2500 PSI) system pressure
- Centralized manual lubrication manifold mid-ship
- 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
- Electric/hydraulic emergency power system
- Front air, 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
- OTHER OPTIONS ON REQUEST