



# HIGH PRODUCTION LOW PROFILE SCALER

## MODEL DS30RB/LP

### 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

*DUX DS30RB/LP scaler with interchangeable hydraulic hammer with chisel tool and optional dozer blade.*



### 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' 0"  
 Maximum reach with scaling tool 9 145 mm.....30' 0"  
 Boom lift angle .....50°  
 Boom swing angle.....45°

### WORK AREA COVERAGE WITH SCALING TOOL

BACK HEIGHT		AREA COVERAGE	
m	ft	m <sup>2</sup>	ft <sup>2</sup>
4.6	15	46.7	503
6.1	20	47.4	510
7.6	25	48.0	517
9.1	30	38.6	416



*FOPS comfort cab with hydraulic elevating feature.*

# 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 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 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  
..... torque converter with flex plate drive  
Speeds ..... 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, E-3, R-LUG tube type tires

### Brakes

Service and ..... 4-wheel POSI-STOP totally enclosed multi-disc,  
emergency/parking ..... liquid cooled, Spring Applied Hydraulically  
..... 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)  
–  $\pm 40^\circ$  steering angle each way for a total of  $80^\circ$

### Oscillation

–  $\pm 10^\circ$  for a total of  $20^\circ$   
– 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  $360^\circ$  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  
–  $\frac{3}{4}$ " inside diameter and over hoses that are four-spiral wire braid and have crimped hose end swivel fittings  
– Hose bulk-head located mid-ship

### 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 • OTHER OPTIONS ON REQUEST



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