



# HIGH PRODUCTION SCALER

**MODEL DS30RB**

**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



*DUX DS30RB scaler with interchangeable ripping claw with mechanical tooth and optional dozer blade*

**WEIGHTS**

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

**OVERALL TRAMMING DIMENSIONS**

Length (without opt. 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**

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
10.6	35	13.0	140



*FOPS comfort cab with hydraulic elevating feature*

# DUX Model DS30RB High Production Scaler

## TECHNICAL SPECIFICATIONS\*

### Engine

Make and model ..... Cummins QSB6.7 electronic  
Derated power ..... 164 kW (220 HP) @ 2300 RPM  
Cylinders ..... 6  
Aspiration ..... Turbocharged, after-cooled  
Displacement ..... 6.7 L ..... 408 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 HR32000 series, single stage integrated  
torque converter with flex plate drive  
Speeds ..... 4 in forward and 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 TT

### Brakes

Service and ..... 4-wheel POSI-STOP totally enclosed multi-disc,  
emergency/parking ..... liquid cooled, spring applied hydraulically released  
with its own independent circulating cooling  
system and 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 eter  
– 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 with  
retractable 3 point seat belt  
– Operator safety compartment with 560 mm (22") hydraulic elevating  
feature for excellent visibility whilst scaling lower part of right hand face  
and rib (optional fully enclosed cab 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  
Brake cooling ..... 76 L ..... 20 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 QSB6.7, EPA Tier 3, Euro Stage IIIA electronic engine • PRAN  
display monitor includes digital fuel gauge • Operator 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 • 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 • Dump box and articulation safety bars • Parts/Operator/  
Maintenance manuals • Compliant with MSHA, CANMET and CE regulation

### Options

Different engine • Fully equipped FOPS noise suppression cab •  
Automatic lubrication system • Fire suppression system • Spare rim  
assembly • Different tool • Hydraulically operated dozer blade • 500 L (132  
US gal.) stainless steel water tank with booster water pump and spray  
nozzle • Engine side stabilizers (2) • Electric/hydraulic emergency power  
pack • Cold weather package • OTHER OPTIONS ON REQUEST



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](http://www.duxmachinery.com)