



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

WEIGHTS

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

OVERALL TRAMMING DIMENSIONS

Length (with optional water tank) 12 115 mm39’ 9”
 Width.....2 690 mm.....8’ 10”
 Height2 820 mm.....9’ 3”
 Wheel base3 965 mm..... 13’ 0”
 Ground clearance355 mm..... 14”

TURNING RADIUS

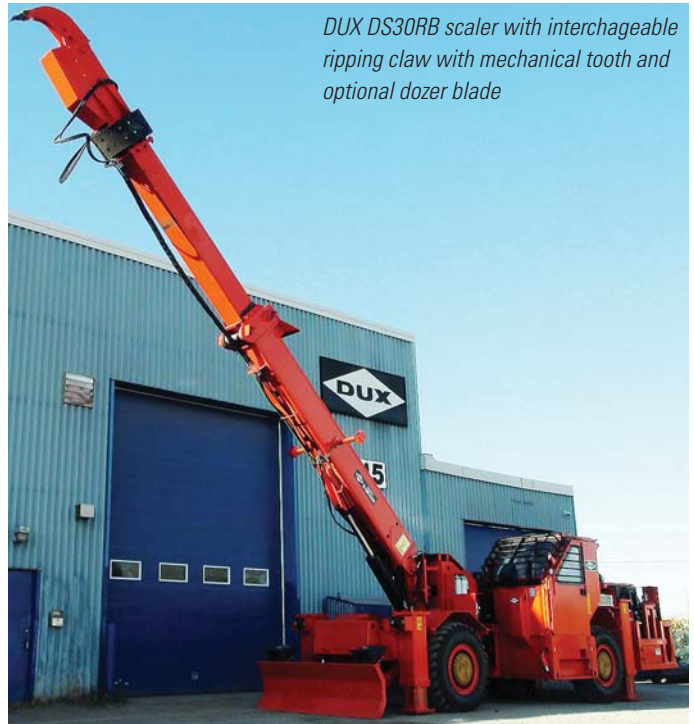
Inside..... 3 710 mm..... 12’ 2”
 Outside with boom turned 6 910 mm.....22’ 8”
 Outside with boom straight 8 890 mm.....29’ 2”
 Angle40°

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 angle50°
 Boom swing angle.....45°

WORK AREA COVERAGE WITH SCALING TOOL

BACK HEIGHT		AREA COVERAGE	
m	ft	m ²	ft ²
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



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



FOPS comfort cab with hydraulic elevating feature

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 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, Tube-Type, E-3, R-LUG mining 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°

Oscillation

– $\pm 10^\circ$ 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
– $\frac{3}{4}$ " 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 • Low Profile Version Scaler • OTHER OPTIONS ON REQUEST



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