



SCOOP LOADER

**MODEL
DSL-300**

3.0 metric tonne • 3.3 short ton payload — 1.22 m³ • 1.60 yd³ capacity



FEATURES

- The DUX DSL-300 compact rugged heavy-duty diesel scoop loader is easily manoeuvrable in confined areas, and is well suited for small narrow-vein mining
- High mechanical availability for long service life
- Easy service access and continuous productivity at the lowest operating cost
- Proven hydrostatic drive
- Permits efficient loading of trucks; and hauling muck and backfill at high production cycles
- Optional quick attachments available on request
- Excellent service and parts back-up worldwide

CAPACITIES

Tramming capacity 3 000 kg..... 6,614 lb.
 Hydraulic break-out force (lift).....4 200 kg.....9,260 lb.
 Hydraulic break-out force (tilt)5 370 kg..... 11,388 lb.
 SAE static tipping load 7 000 kg..... 15,433 lb.
 Standard bucket, SAE heaped 1.22 m³..... 1.6 yd³

WEIGHTS

Operating weight6 850 kg..... 15,102 lb.
 Total loaded weight.....10 600 kg.....23,369 lb.

Axles:

Without load, front axle 2 600 kg.....5,732 lb.
 Without load, rear axle.....4 250 kg.....9,370 lb.
 With load, front axle..... 6 800 kg..... 14,991 lb.
 With load, rear axle 3 800 kg.....8,378 lb.

OVERALL DIMENSIONS

Length..... 6 020 mm..... 19' 9"
 Width (engine-side)..... 1 450 mm..... 4' 9"
 Width (bucket-side) 1 450 mm..... 4' 9"
 Height over canopy (variable).....2 200 mm..... 7' 3"

TURNING RADIUS @ 42° TURNING ANGLE

Inside..... 1 980 mm..... 6' 6"
 Outside.....3 960 mm..... 13' 0"

BUCKET MOTION TIMES

Raising time.....5.0 seconds
 Lowering time4.0 seconds
 Dumping time.....3.0 seconds

DRIVING PERFORMANCE (LOADED)

Maximum tramming speed..... 20.0 km/h..... 12.0 mph
 Minimum tramming speed..... 7.5 km/h.....5.0 mph



DUX Model DSL-300 Scoop Loader

TECHNICAL SPECIFICATIONS*

Engine

Make and model Cummins QSF 3.8 with Electronic Management
..... System
Derated power 74.6 kW (100 HP) @ 2 200 RPM
Cylinders 4 in-line
Displacement 3.8 L 231 in³
Aspiration Turbocharged, after-cooled
Starter 24 V electric
Cooling Water and air-to-air cooling
Air intake cleaner Donaldson 2-stage dry type with service gauge
Exhaust system Diesel oxidation catalyst and selective catalytic
..... reduction (DOC-SCR) Cummins system
Emission standard EPA Tier 4 Final/Stage IV
..... CANMET Certificate Number 1313

Transfer Case

– Dana SOH 360, 2-speed

Transmission

– Rexroth hydrostatic with forward/reverse

Axles

– Dana SOH 113, conventional limit slip, 45%

Tires

– Michelin 9.00R20, X-Mine D2, L5 radial

Brakes

Service and 4-wheel totally enclosed multi-disc wet brakes,
emergency/parking Spring Applied Hydraulically Released (SAHR)
Automatic Brake Applies brake in case of engine failure or pressure
Applicator (ABA) drop in hydrostatic transmission

Steering

– Articulated frame hydraulic power steering with pilot monostick control
– 89 mm (3.5 ") bore x 44 mm (1.75") rod diameter double acting steering
cylinder (1), equipped with electro/mechanical control lever
– $\pm 42^\circ$ steering angle each way for a total of 84°

Oscillation

– $\pm 7^\circ$ center of oscillation for a total of 14°

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

Operator Compartment

– Side seated for maximum visibility and bidirectional operation
– Heavy-duty adjustable suspension seat with arm rests and retractable belt

Clean Shell Bucket

– Made from reinforced impact, wear resistant Hardox alloy steel plates,
substantially prolongs service life

Hydraulic System

Cylinder bore x stroke x rod diameter:
– Steering cylinder (1) 89 mm (3.5") x 269 mm (10.6") x 44 mm (1.75")
– Lift cylinders (2) 102 mm (4.0") x 421 mm (16.6") x 51 mm (2.0")
– Dump cylinder (1) 152 mm (6.0") x 305 mm (12.0") x 89 mm (3.5")
– Steering/Park brake Vane type pump
– Bucket Vane type pump
– Steering system: control valve, pilot operated, open centre
– Bucket System: control valve, pilot operated, joystick
– Cylinder relief pressure: 17.2 MPa (2500 psi)
– 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

Tank Capacities

Fuel 125 L 33 US gallons
Hydraulic oil 114 L 30 US gallons

Electrical System

– 24 V negative ground
– 55 A marine-type alternator with integrated sealed voltage
regulator
– Main electric battery cut-off switch
– Heat resistant, waterproof, sealed electric PMA wire harness
– Sealed junction box and stainless steel instrument panel box with
sealed multi-stem connectors
– Semi-automatic circuit breakers
– All-directional, front (3) and rear (4) LED lights, shock mounted, with
necessary switches
– Heavy-duty batteries (2), 1000 CCA per battery
– Signal horn and audible, adjustable back-up alarm

Standard Features

Cummins QSF 3.8, EPA Tier 4 Final/Stage IV electronic engine • PRAN
display monitor with digital fuel gauge • 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) • Neutral engine start protection • Triangular rear reflectors
(2) • Parts/Operator/Maintenance manuals • Compliant with MSHA,
CANMET and CE regulation

Options

Different engine for high altitude • Battery/electric drive available in mid
2020 • FOPS/ROPS canopy • Automatic lubrication system • Fire
suppression system • Video system • Spare rim assembly • Self-contained
24 V electric/hydraulic emergency steering power pack • Rock bucket •
Ejector bucket • Knock-down construction for lowering unit down mine
shaft • OTHER OPTIONS ON REQUEST



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