



S1-PORTER MULTI-PURPOSE CASSETTE SYSTEM

MODEL S1-PORTER



S1-Porter shown with Maintenance Cassette.

FEATURES

- DUX S1-Porter Multi-Purpose Cassette System is the ultimate labor efficient mine transport system
- Field-proven system with interchangeable multi-purpose cassettes provides outstanding flexibility compared to conventional utility equipment built for one specific task
- Multi-purpose cassettes can be interchanged smoothly and safely in minutes using the DUX S1-Porter (prime mover)
- Electronically controlled engine reduces fuel consumption and ventilation requirement
- Fail-safe SAHR (Spring Applied Hydraulic Release) emergency/parking brake system
- Centralized service points and modular design for easy service access and fast component exchange
- Excellent service and parts back-up worldwide

WEIGHTS

Payload9,1 tonne..... 10.0 ton
 Machine weight, approx..... 8,2 tonne.....9.0 ton
 GVW 17,3 tonne.....19.0 ton.

OVERALL DIMENSIONS S1-PORTER WITHOUT CASSETTE

Length7 500 mm..... 24' 7"
 Width1 830 mm.....6' 0"
 Height over FOPS/ROPS canopy..2 185 mm.....7' 2"

TURNING RADIUS

Inside3 430 mm..... 11' 3"
 Outside 5 970 mm..... 19' 7"
 Angle45°

MULTI-PURPOSE CASSETTES

The DUX S1-Porter is available with a wide range of multi-purpose cassettes including:

FLATBED • CRANE BOOM • FUEL/LUBE • FUEL • PERSONNEL • REMIX • WATER • EXPLOSIVES TRANSPORT • BULK EMULSION • MAINTENANCE • DUMP BODY

The DUX line of multi-purpose cassettes is continually expanding to meet new customer requirements. Contact DUX for further information on custom cassette arrangements.



Boom Cassette.



Fuel/Lube Cassette.



Crane Cassette.



Personnel Cassette.

DUX Multi-Purpose Cassettes.

DUX Model S1-Porter Multi-Purpose Cassette System

TECHNICAL SPECIFICATIONS*

Engine

Make and model Cummins QSB 4.5 with Electronic
..... Management System
Derated power 110 kW (148 HP) @ 2300 RPM
Cylinders 4
Aspiration Turbocharged and charge air cooled
Displacement..... 4.5 L 275 in³
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 HR24000 series with integrated
..... torque converter and flex plate drive
Speeds 3 in forward and in reverse

Axles

Make and model Dana SOH 176 planetary with internal multiple
..... wet-type 4-wheel disc brakes

Tires

– Bridgestone 12.00-20, 18 Ply Tube-Type E-3 mining tires

Brakes

Service 4-wheel power multi-internal wet disc, dual
..... hydraulic power control with accumulator back-up
Emergency/parking Fail-safe back-up Spring Applied Hydraulic
..... Released (SAHR) multi-internal wet 4 wheel brakes
Automatic Brake Applies brake in case of engine failure or
Applicator (ABA)..... pressure drop in torque converter

Steering

– Articulated frame hydraulic power steering
– Orbitrol valve-type with steering wheel and cushion valve
– Double acting steering cylinders (2)
– $\pm 45^\circ$ steering angle each way for a total of 90°

Oscillation

– $\pm 10^\circ$ center of oscillation for a total of 20°
– Large sized, heavy-duty roller bearing for minimum maintenance and a
smooth ride, 4-wheel ground contact guaranteed

Frames and Pins

– Articulated heavy-duty frames made to withstand the high impact and
torsional stress associated with mining application
– Frames come with 5 year unlimited hour guarantee
– 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 seat belt
– Shock mounted compartment floor for maximum comfort
– All controls and gauges are within easy reach and view of operator

Hydraulic System

– Heavy-duty double acting protected steering cylinders (2) with hard
chrome plated stems
– Heavy-duty PTO driven gear-type pumps driven from converter
– 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..... 170 L45 US gallons
Hydraulic oil 170 L45 US gallons

Electrical System

– 24-volt negative ground
– 70 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 (2), rear (2), and all-directional (1) LED high-intensity lights
– Heavy-duty batteries (2)
– Signal horn
– Audible, adjustable back-up alarm

Standard Features

Cummins QSB 4.5, EPA Tier 3, Euro Stage IIIA electronic engine • PRAN
display monitor includes digital fuel gauge • Automatic engine shut-off at
low oil pressure and high temperature • 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

All DUX Cassettes are equipped with totally enclosed hydraulic
stabilizers (4) with safety locks, quick hydraulic connectors and positive
locking hydraulic arrangement on all four points

Options

Different engine • Diesel particulate filter • Certified FOPS/ROPS canopy •
Fully equipped certified FOPS/ROPS noise suppression cab • Storage/tool
boxes • Automatic lubrication system • Fire suppression system • Spare
rim assembly • Video system (camera and display monitor in colour) • 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