



# S1-PORTER MULTI-PURPOSE CASSETTE SYSTEM

# MODEL S1-PORTER



DUX S1-Porter

### FEATURES

- The 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
- Spacious operator compartment is ergonomically designed for maximum visibility and bidirectional tramming, operator can safely control and monitor machine functions at a glance
- Centralized service points and modular design for easy service access and fast component exchange
- Excellent service and parts back-up worldwide

### S1-PORTER WEIGHTS WITHOUT CASSETTE

Payload .....9,1 tonne..... 10.0 ton  
 Machine weight, approx..... 8,2 tonne.....9.0 ton  
 GVW ..... 17,3 tonne..... 19.0 ton

### S1-PORTER OVERALL DIMENSIONS WITHOUT CASSETTE

Length. .... 7 500 mm..... 24' 7"  
 Width..... 1 830 mm.....6' 0"  
 Height over canopy or cab ..... 2 185 mm.....7' 2"

### S1-PORTER TURNING RADIUS WITHOUT CASSETTE AT 45°

Inside..... 3 430 mm..... 11' 3"  
 Outside..... 5 970 mm..... 19' 7"

### MULTI-PURPOSE CASSETTES

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

- FLATBED • CRANE BOOM • SCISSOR • 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.



Crane Cassette



Fuel/Lube Cassette



Personnel Cassette



Boom Cassette

DUX Multi-Purpose Cassettes

# DUX Model S1-Porter Multi-Purpose Cassette System

## TECHNICAL SPECIFICATIONS\*

### Engine

Make and model ..... Cummins QSB4.5 electronic  
Derated power ..... 110 kW (148 HP) @ 2300 RPM  
Cylinders ..... 4  
Aspiration ..... Turbocharged and charge air cooled  
Displacement ..... 4.5 L ..... 275 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 HR24000 series with integrated  
..... torque converter and flex plate drive  
Speeds ..... 3 in forward and reverse

### Axles

Make and model ..... Dana SOH 113 planetary type with totally enclosed  
..... internal wet multi-disc brakes for each wheel

### Tires

– Bridgestone 12.00-20, 18 ply, E-3 TT

### 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 hydraulically  
..... released (SAHR) multi-internal wet 4-wheel brakes  
Automatic Brake ..... Applies brake in case of engine failure or pressure  
Applicator (ABA) ..... 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  $90^\circ$

### Oscillation

–  $\pm 10^\circ$  center of oscillation for a total of  $20^\circ$   
– 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 five-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  
– Co-driver seat with arm rests and retractable 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 torque 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 L ..... 45 US gallons  
Hydraulic oil ..... 170 L ..... 45 US gallons

### Electrical System

– 24-volt negative ground  
– 75 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 and audible, adjustable back-up alarm

### Standard Features

Cummins QSB4.5, 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 • Wheel chocks (2) with storage brackets (2) • 9 kg (20 lb) hand held fire extinguisher • Neutral engine start protection • Centralized manual lubrication mid-ship • Articulation safety bars • 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 • Automatic lubrication system • Fire suppression system • Video system • Spare rim assembly • Cold weather package • OTHER OPTIONS ON REQUEST



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