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

Payload ........................................ 9.1 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

Length ........................................... 7 500 mm .......... 24’ 7”
Width ............................................. 1 830 mm .......... 6’ 0”
Height over FOPS/ROPS canopy .. 2 185 mm .......... 7’ 2”

TURNING RADIUS

Inside ........................................... 3 430 mm .......... 11’ 3”
Outside ........................................ 5 970 mm .......... 19’ 7”
Angle ................................................. 45°

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.

S1-Porter shown with Maintenance Cassette.
**TECHNICAL SPECIFICATIONS**

### Engine
- Make and model: Cummins QSB 4.5 with Electronic Management System
- Derated power: 110 kW (148 HP) @ 2300 RPM
- Cylinders: 4
- 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)
- ± 45° steering angle each way for a total of 90°

### Oscillation
- ±10° 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
- ¾” inside diameter and over hoses that are four-spiral wire braid and have crimped hose end swivel fittings
- Hose bulk-head located mid-ship

### Fuel System
- Fuel: 170 L (45 gallons)

### Tank Capacities
- Hydraulic oil: 170 L (45 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

### 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:

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*Specifications subject to change without notice.*