



MULTI-PURPOSE CASSETTE SYSTEM

MODEL S1-PORTER



S1-PORTER WITH MAINTENANCE CASSETTE

The DUX S1-Porter Multi-Purpose Cassette System is the ultimate labor efficient mine transport system. At the lowest capital equipment cost, it provides outstanding flexibility to rationalize the transport of personnel, materials and equipment.

With the DUX S1-Porter (prime mover) one person can load and unload multi-purpose cassettes smoothly and safely in minutes. The diesel powered S1-Porter and multi-purpose cassettes cut down dramatically on idle equipment. The DUX S1-Porter Multi-Purpose Cassette System is less costly and achieves higher utilization than conventional utility equipment built for one specific task.

The DUX line of multi-purpose cassettes is continually expanding to meet new customer requirements. Contact DUX for further information on multi-purpose cassettes shown and mentioned in this bulletin, or for custom cassette arrangement.

DUX MULTI-PURPOSE CASSETTES

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



*CRANE
CASSETTE*



PERSONNEL CASSETTE



MAINTENANCE CASSETTE



FUEL CASSETTE

DUX Model S1-Porter Multi-Purpose Cassette System

TECHNICAL SPECIFICATIONS*

Weight

Empty	18,000 lbs.....	8 165 kg
Payload.....	20,000 lbs.....	9 072 kg
GVW	38,000 lbs.....	17 237 kg

Dimensions with Flatbed Cassette

Length	24'- 1"	7 340 mm
Width	7'- 0"	2 135 mm
Height over cab	7'-0"	2 135 mm

Turning Radius

Inside.....	11'- 3"	3 430 mm
Outside.....	19'- 4"	5 890 mm

Engine

Make.....	Cummins QSB 4.5 L, EPA Tier 3
Power	148 HP (110 kW) @ 2300 RPM
Cylinders	4
Aspiration	Turbocharged, charge air cooled
Displacement	275 in ³ 4.5 L
Starter	24-volt
Air intake	Donaldson 2-stage dry type with service gauge
Exhaust	Catalytic purifier with integ. silencer
Cooling	Oversized package with fuel cooler for 60° C (140° F) ambient temp.

Transmission with Integrated Torque Converter

Make.....	Dana /SOH
Model.....	Long drop, HR 24 000 series with integrated torque converter and flex plate drive
Speeds	3 in forward and in reverse

Axles

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

Tires

- 12.00-20, 20 ply tube-type mining tires

Brakes

- Service: 4-wheel power multi-internal wet disc dual hyd. power control with accumulator back-up
- Emergency/parking: Fail-safe 100% back-up spring applied hydraulic released multi disc internal wet 4-wheel brakes
- Automatic brake (ABA): Applies secondary brake in case of engine failure or 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's Compartment

- Side seated for maximum visibility and bi-directional operation
- Heavy-duty adjustable suspension seat with arm rests and retractable seat belt
- All controls and gauges located within easy reach and view of operator
- Optional dual foot controls with two-position swing type operator's seat arm arrangement available

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
- 125 mesh suction filter
- 10 micron inline high pressure with service gauge
- ¾ in. inside diameter and over hoses that are four-spiral wire braid and have crimped hose end swivel fittings
- Hose bulk-head is located mid-ship

Tank Capacities

Fuel.....	45 US gallons.....	170 L
Hydraulic oil.....	45 US gallons.....	170 L

Electrical System

- 24-volt negative ground
- 60 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
- Pran electronic display monitor in operator's comp.
- Semi-automatic circuit breakers
- Front (2), rear (2), and all-directional (1) halogen high-intensity lights
- Heavy-duty batteries (2)
- Signal horn
- Audible, adjustable back-up alarm

Options

- Different engine
- FOPS/ROPS canopy or fully equipped FOPS/ROPS noise suppression cab
- Automatic lubrication system
- Ansul fire suppression system
- Co-driver's seat
- Video system (camera and display monitor in color)
- OTHER OPTIONS ON REQUEST

DUX MULTI-PURPOSE CASSETTES

All DUX Cassettes are equipped with totally enclosed hydraulic stabilizers (4), hydraulic quick connector couplings (4) and cassette locking arrangement on all four points.

Flatbed Cassette

- 7-ft wide x 12-ft long (2 135 x 3 660 mm)
- C/w front header, 6 in. high sides, guide rails and steel floor

Crane Boom Cassette

- 7-ft wide x 12-ft long (2135 x 3660 mm) with hardwood floor
- HIAB model 090AW crane with 4.5 tonne lift capacity, short mast mine version

Fuel/Lube Cassette

- C/w necessary hose reels, dispenser pumps, hoses, nozzles and on-board compressor
- Capacities*:

	Gal. (US)	Litres
Diesel fuel	320	1 211
Engine oil	80	303
Hydraulic oil	110	416
Waste oil	80	303
TOTAL	590	2233
Standard grease drum	25	95

*Other capacities available on request

Fuel Cassette

- 1,200 US Gal (4 540 L) capacity
- 30 GPM (114 L/min) hydraulic motor driven dispenser pump
- Heavy-duty tank support base frame

Personnel Cassette

- 16 passengers capacity
- 7-ft wide x 13'-6" long (2 135 x 4 115 mm)

Water Cassette

- 1,500 (5 680 L) US Gal capacity
- Hydraulic motor driven dispenser pump
- Heavy-duty tank support base frame

Maintenance Cassette

- Mobile service station for underground equipment maintenance
- C/w work bench and vise grip, ample storage for tool box, bin storage cabinet, on-board compressor and retractable hose reels for powering pneumatic tools or inflate tires
- Optional crane for lifting large components, hose cutter, hose crimp machine, welder, bottle rack and torch compartment

OTHER CASSETTE MODULE ARRANGEMENTS AND OPTIONS ON REQUEST

DUX trucks are manufactured to the highest quality and meet CAN/CSA, MSHA (US) and EC (Europe) standards.

* Specifications subject to change without notice.



Manufactured by:

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