


BS42 SNOW CUTTER





SALIENT FEATURES


- CUMMINS QSX15 turbo charged engine with superb fuel economy matched for operation at high altitudes and very low ambient temperature
- Closed loop hydraulic system for travel and implement operation for precise, fine control.
- Anti-skid chain for operation in snow, ice, etc
- Wide band travel of speeds (0.1 kmph and 50 kmph) hydrostatic drive system for travel with two speed gearbox.
- Integrated of travel and implement hydraulics thru' electronic controls.
- High maneuverability for operation in mountainous roads.
- Operation at 18,500 feet altitude & upto -40 deg. Celsius.
- Snow discharges upto 3500 tons per hour and a maximum throwing distance of 40 metres.
- All round direction of discharge up to 300 deg. & oscillating type cutting head upto 9 deg.
- Cutter module with independent tilt, raise & lower features.
Net Power: 362 kW (485 HP) @ 2000 r/min


BS42 SNOW CUTTER SPECIFICATIONS

 ENGINE	
Make	Cummins
Model	QSX 15C
Type	Diesel, 4-stroke, Electronic Engine water-cooled, emissionised, turbocharged, after-cooled diesel
Gross Power	362 kW (485 hp) @ 2000 r/min. (as per ISO: 1585)
No. of cylinders	6, inline
Cooling system	Water pump, engine driven fan drive
Lubricating system	Gear pump, forced lubrication
Electrical	24V, 75 Amp. DELCO REMY

 INSTRUMENTATION	
Display unit	6.5" VGA colour display (640x480 pixels), powerful 32- bit graphics processor . 2 x CAN bus interface 2.0 A or 2.0B. 6 user defined function keys. Jog dial for easy and quick navigation. Protection category-IP 65. Flash program through CAN bus integrated real time clock.
Warning indicators	8 window warning cluster with audio visual alarm.
Wire harness	Wire harness with AVSS Bicolour coded cables, blade fuse links and drip proof connectors.


 DRIVE SYSTEM	
Gear Box	
Type	Infinitely variable, hydrostatic drive for both vehicle and rotary plough with automatic load-sensing electronic control
No. of Gears	2-speed, hydraulically shifted with mechanical neutral position
Driving performance	Clearing speed 0.3~30 kmph Travelling speed 0~50 kmph


 FUEL, COOLANT & LUBRICANT REFILL CAPACITY	
SYSTEM	Capacity (ltr)
Engine	45
Fuel tank	500
Hydraulic system	100
Cutter gear box	35
Impeller Gear box	14
Coolant (Engine)	130
PTO	12


 BRAKES	
Service brake	Hydraulic dual circuit braking system with disk brakes front and rear. Hydraulically operated, oil immersed service brake. Continuous braking through hydrostatic drive, accumulator supported
Parking Brake	With external SAHR parking brake active on both axles.


BS42 SNOW CUTTER SPECIFICATIONS




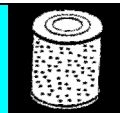
 TYRES	
Tyres	365/80 R 20 MPT Fitted with anti-skid chains(Snow chain)

 OPERATING MASS	
Gross Vehicle Weight (GVW) approx.	13,000 kg

 ROTARY CUTTER HEAD (SNOW CLEARING DATA)	
Cutter diameter	1.0 m
Clearing width	2500 mm
Clearing height	1500 mm
Clearing capacity	3500 TPH
Casting distance, infinitely variable	40 m
Lifting height	450 mm
Lateral tilting	± 9 deg
Front tilting	± 4 deg
Rotating impeller housing, casting angle	Left 45deg, right 80 deg.
Overload safety	Shear pins for impeller and cutter drums
Cutter knives	In 2 sections, replaceable
Steel scraper blade	In 3 parts, replaceable
Skids	Adjustable
Chute rotation	300°

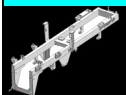
 HYDRAULIC SYSTEM(Electronically controlled closed loop system)	
Travel drive system	Flow : 220 lpm Pressure:-400 bar
Cutter drive system	Flow : 300 lpm Pressure:-400 bar
Rotary plough head movements	Flow : 40 lpm Pressure:-175 bar
Steering & Brake	Flow :40 lpm Pressure:- 140 bar Orbitrol Steering
Hydraulic cylinders	1. Lift Cylinders Ø 60x500-2 Nos 2. Tip Cylinders Ø60x 165-2 Nos 3. Tilt Cylinder Ø80x 140-1 No 4.Chute-Flap Cylinder Ø45x 95-1 No

 CABIN	
Cabin	Operator cabin designed for max.comfort with cabin heater & buddy seat. Wiper, washer, rearview mirror, rotating beacon on cabin roof and amber lights.

 FILTRATION	
Engine	Replaceable cartridge type filter for lubrication as well as for fuel line
Hydraulic System	1. Replaceable element type Pressure line filters for all the pumps. 2.Replaceable element type return line filter 3.Magnetic plug & replaceable element type suction strainer



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Chassis

Aesthetically designed engine hood
with big doors for engine housing.



Axle

Steering

Turning radius

Front wheel - 6.7 m
Rear wheel - 6.7 m
4-wheel Co-ordinated
steering- 4.1 m

Technical drawing of the 'Krym' drilling rig, showing dimensions and beam angles. The drawing includes a side view of the rig structure and a top-down view of the beam layout.

Dimensions:

- Overall height: 3365
- Height to the top of the main structure: 3255
- Height to the top of the lower structure: 3005
- Width of the beam layout: 2375
- Overall width: 2500

Angles:

- Beam angle: 9°