



- Top Performance
- Enhanced Productivity
- Increased Reliability
- Excellent Serviceability
- Exceptional Manoeuvrability
- Superior Operating Comfort
- Improved Safety



Flywheel power (net) : 674 kW (904HP) @ 2100 rpm

Capacity: 70,000 Litres

BWS70 WATER SPRINKLER

Salient Features:

Top Performance:

High power engine & well matched with mechanical type transmission offers ample reserve power, high hp to weight ratio.Pressurised discharged through sprinkling nozzles & higher spreading width for effective dust settling is assisted by hyd. Motor & centrifugal pump.

Enhanced Productivity:

High power to weight ratio gives ample reserve power for faster cycle time. Larger tank capacity ensures high productivity.

Increased Reliability:

Oil cooled multiple disc rear breaks are free from fading even during repeated & continuous operations. Due to the ample capacity the rear breakes also act as retarder break.

Excellent Serviceability:

Low maintainability and repairability index, make easy servicing & increases availability.

Exceptional Manoeuvrability:

Orbitrol full time Power steering with a good combination of steering angle, shorter turning radius, wheel tread and wheel base provide high degree of manoeuverability.

Superior Operating Comfort:

Human-engineered cabin with ergonomically designed operator's compartment & controls offer maximum comfort and operational ease. Pneumatically operated water valves reduces operators effort.

Improved Safety:

Features include Integral ROPS cabin, emergency steering, dual braking system to meet relevant safety standards.





Make	Cummins(India)		
Model:	QST30-C`		
Туре	IC-Diesel, 4stroke, turbo charged,		
	after cooled, direct	injection, water cooled,	
	meets EPA Tier 1 er	mission norms	
Number of cylinders	12, inline		
Bore & Stroke (mm)			
Displacement	30.47 ℓ		
Fly wheel power	674 kW (904 HP)@	2 2100 rpm	
Maximum net torque	4108 N m @ 1300	Irnm	
Maximum het torque	4108 N-m @ 1300rpm Meets SAE J 1349		
Electricals			
Starting motor	24V DC, 9 kW	(2 nos)	
Battery	4 x 12V, 200 Ah		
Alternator	24 V, 75 A		

Transmission	
Model	BEML
Type	Power shift with automatic Lock up clutch
Drive axle	Full floating
Differential	
Type	Traction sensing, automatic
Ratio	3.07:1
Final Drive	
Type	Planetary reduction type
Ratio	7.94 : 1
Total reduction	24.37:1
Travel speeds (km/h)	

Range 1ct 2nd 3rd 4th 5th Forward 8.6 12.1 16.3 21.9 29.5 10.2 Reverse



Hydraulic pump	
Туре	Two no. tandem gear pump for hoist, steering and brake oil cooling
Capacity	Steering & Hoist(Hyd motor): 478 1/min @ 2100 rpm
	BoC: 478 1/min @ 2100 rpm
Relief pressure	
Motor	14.7 Mpa(hydraulic motor);
Hydraulic Motor	
Type	Vane Type

60 kW (80 hp) @ 14.7 MPa (150 kg/cm²) Power (Max.) 2900 rpm @245 l/min Speed Control Valve Spool type



Construction

All welded reinforced, 12 mm thik steel Plates, at the base 10 mm plate at the sides and 8mm on top, Cross baffles to avoid heavy surging

Interior Coating

Coated with special anti-corrasive paint

STANDARD EQUIPMENT

GENERAL : Rear View mirror (left & right), head lights, tail lamp, back up light, roof lamp, wind shield, wiper, tiltable steering, rock ejectors, cabin floor mat, emergency brake, emergency steering, sun visor, asst. operator seat, tool kit, under view mirror, engine over speed protection, vandalism protection system,(radiator, fuel tank, hyd.tank), front & rear turn signal lamp, (left & right) ,portable fire extinguisher, ROPS cabin, front brake cut-off switch, auto fire suppression system

INDICATORS/GAUGES: Hi-beam, reverse, turn signal, lube oil pressure, water temperature, parking brake and emergency steering "ON", alternator warning, transmission oil temperature and pressure, fuel level, transmission filter clogging, air pressure and convertor oil temperature, electronic water level indicator for water tank.

ALARMS: Air pressure, water temperature, transmission oil temperature & pressure, lube oil pressure, convertor oil temperature, transmission filter clogging and parking brake "ON", Low fuel level

Guards: Cab guard, cab step & safety guard cat walk, engine & trans. belly guard, drive shaft guard (front & rear).

OPTIONAL ACCESSORIES

Tyre inflation kit, suspension charging kit, air conditioner and heater unit, fast fill system for fuel, parking brake interlock, radial tyres, front pressurised sprinkling, full fledged fire fighting through monitor, mist system, ABS/ASR, Injector bank monitoring system, auto dipping system, rear view camera , radio FM/AM, electronic type proximity avoidance system. wet multiple disc brake, SAHR wet multiple disc integral parking brake



Type-front		d, hydropneumatic integral
	rebound control	
Rear	Axle mounted,	inverted hydropneumatic,
	Integral rebound	control
Cylinder	Front	Rear
Quantity	2 nos	2 nos
Bore x Stroke	Ø 250 x 376 mm	⊘ 250 x 190 mm
Charging pressure	2.8 MPa	1.9 MPa
	(31.7 kg/cm ²)	(20.4kg/cm ²)
Load/deflection Rate		
Empty	952 kg/cm ²	712 kg/cm ²
Loaded	3110 kg/cm ²	15373 kg/cm ²

STEERING SYSTEM

Туре	Orbitrol, full time power steering
Cylinder	
Type	Double acting, piston type
Quantity	Two
Bore x Stroke	∅ 110 x 430mm
Relief pressure	20.6 MPa (210 kg/cm²)
Emergency Steering	Electrically driven hydraulic Pump and motor
Performance	
Turning radius	10.7 m
Vehicle clearance Dia	23 m

BRAKES

Service Brakes	
Front	Air-over-hydraulic, dry caliper disc
Rear	Air-over-hydraulic, wet multiple disc
Emergency	Air-over-hydraulic, automatic application through relay emergency valves
Parking brake	Spring actuated dry caliper disc drive shaft
Retarder brakes	Rear brake serves as retarder brake

Meets ISO 3450 performance requirements



Size	24.00 x 49, 48PR (E-4) tubeless - standard
(Front & Rear)	· · ·
Rimsize	17 00 x 49

BEML recommends the user to evaluate all job conditions and consult the tyre, manufacturer to make proper tyre selection.

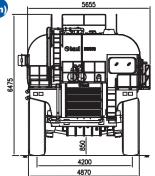
SYSTEM REFILL CAPACITIES

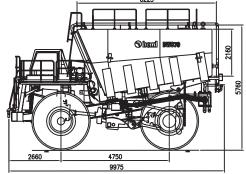
Systems		Capacity (灲)
Cooling system		270
Fueltank		1240
Engine lub. oil		60
Transmission		110
Differential		40
Final drive (each side)		180
Hydraulic tank		490
Airtanks		175
Suspension	- Front	24 (each)
	- Rear	16 (each)
Watertank		70,000



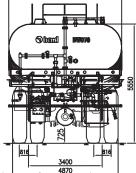
Engine & Transmission belly guard, cab spill guard, drive line protector, radiator fan guard and hand rails (Meets ISO 3457 requirements)

DIMENSIONS(in mm)





size & 1.5- 2m spray distance



Material and specifications are subject to change without notice, Illustrations may include optional equipment & accessories

CABIN

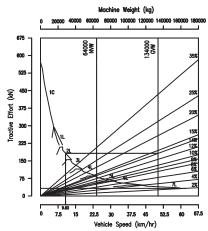
Integral ROPS cabin with tinted safety glass and electronic display dash board

MASS

64,000 kg	
70,000 kg	
1,34,000 kg	
Empty	Loaded
28,800	42,210
35,200	91,790
	70,000 kg 1,34,000 kg Empty 28,800

PERFORMANCE CHART

7.94 :1 24.37 :1



How to use this chart: Draw a straight line from gross vehicle mass to percent of total resistance (total resistance = grade resistance + rolling resistance) and extend the same line upto tractive effort. From this point draw horizontally to the curve with the highest obtainable gear, then vertically down to obtain maximum speed.

WATER SYSTEM

Water Pump	
Type	Centrifugal Pump
Capacity	180 m3/hr@2900 rpm & 85 m head
Drive	Hydraulic motor through flexible coupling
Piping	
Suction	100mm
Discharge	80mm
Valves	Butterfly type
Sprinkling	
Pressurised Sp	rinkling Constant Sprinkling velocity Maintained by a
· .	Centrifugal pump
Spreading width	n 21 m

Centinugai pump
21 m
Through perforated manifold connected to Tank
Bottom
Fish tail type
By connecting the pump suction to out side
Reservoir or pond through armoured hose with
foot valve unit
Quick connecting adaptor provided for fire

fighting with canvas hose& triple purpose nozzle. Mist system (Optional): 192 nos, Cluster nozzles, 300-400 Mic. Spray

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