

Equipment Specification sheet

Unit Number	STM18
Model	MERCEDES-BENZ AROCS-8x8 Off-Road Cab Chassis
Year of Manufacture	2019
Current Service Meter Reading	2,633
Description	Dual-purpose stemming truck and water truck. With the ability to fill MMUs and Drills . (Refer to spec sheets below)
Supporting documentation available	Operations manual Parts list Hydraulic Schematic



Dual-Purpose Stemming/Bulk Water Truck Model

SPECIFICATION	
Cab Chassis	MERCEDES-BENZ AROCS
Type	8x8 Off-Road Cab Chassis
Body	STMXDP Model Dual-Purpose Stemming/Water Truck Heavy Duty
GVM – Carrying Capacity	Up to 44 Tonne GVM-21 Tonne Carrying Capacity
Payload & Safety Controls	<p>The actual stemming hopper & bulk water volume of the unit in the drawing supplied is a guide only and these capacities can be varied pending client requirements:</p> <p>12m3 Stemming Material (Heaped 20 deg. Approx.) 8,000L Bulk Water Tank Capacity</p> <p>Weight Cells fitted as standard to ensure manufacturer's specifications SWL is never breached.</p> <p>Inclinometers with audible alarm thresh holds to warn the operator of approaching rollover limits Actual stemming hopper & bulk water volume of the unit in the drawing supplied is a guide only and these capacities can be varied pending client requirements:</p>
Dust Suppression	<p>Fitted as Standard</p> <p>The efficiency of our system reduces ambient respirable dust concentrations by a minimum of 87%. Target 100%.</p> <p>StemSafe trucks are fitted standard with dust suppression utilising a water spraying system to suppress dust arising from the conveyor & transfer points.</p> <p>This patented system is specifically designed to reduce blast crew personnel's exposure to fibrous material dust-related diseases, silicosis, Coal Worker Pneumoconiosis (Black Lung) etc.</p>

<p>Delivery System</p>	<p>Ability to load material in gear and at low idle so can deliver material whilst driving along at any speed with full power available to auxiliary equipment, material delivery module and water truck functions</p> <p>Reclaim Conveyor (1) Transfer Conveyor (2) Delivery Conveyor (3)</p> <ul style="list-style-type: none"> - Slewable Delivery Conveyor 4.3m length with cast distance up to 5.2m from the side of the truck - Slewable 0 to 210 Degree arc at the rear of the truck - Luff Elevation range – 1.7m – 0.5m from the ground - Fully automatic and calibrated material delivery with accuracy to +/- 0.1 linear metres in hole. <p>Adjustable Quantity of material delivery to suit various patterns and hole diameters.</p> <p>The maximum Discharge rate of material is 68 m3 P/Hr. The recommended Discharge rate of material is 52 m3 P/Hr.</p> <p>Water Sprays</p> <ul style="list-style-type: none"> - Rear-mounted spray bar 3 x Sprays - Water flow up to 660LPM High Volume pump - 14m Spray capability on either side of the truck - 2 side sprays activated 28 Metre coverage, 8,000-litre Capacity enables 12.5 Minutes of water spraying on Blast Pattern - 1 middle spray activated 15 Metre of coverage; 8,000-litre Capacity enables 20 Minutes of water spraying on LV/Access roads - Capable of filling drill rig water injection tanks, 2500 litre tank taking 3.5 Minutes to fill for reference - Explosive delivery trucks (MMUs) process water fill on the bench if the long distance from water fill, 1200 litre process water tank could be filled in less than 2 minutes
<p>Operation</p>	<p>Cabin Multifunction Control Monitor (GUI)</p> <p>The control system provides the following functionality:</p> <ul style="list-style-type: none"> • Product gate raise and lowering • Transfer conveyor activation/de-activation for testing • Reclaim conveyor activation/de-activation for testing • Discharge conveyor activation/de-activation for testing • Wash down mode for activating the water pump for cleaning the machine • Discharge conveyor slew left/right and luff up/down

	<ul style="list-style-type: none"> • Configurable water pump settings for auto mode dispense • Configurable hole depth and diameter • Automatic dispensing and shutoff when hole depth/diameter (volume) • Hopper vibrator <p>Configuration of:</p> <ul style="list-style-type: none"> • Test tube diameter • Dispense rate with gate fully open • Dispense rate with gate half open • Vibrator run time duration • Start-up alarm run time duration • Mode selection Auto/Manual/Auto-Manual – timed • Re-claim conveyor speed <p>Production data recording of:</p> <ul style="list-style-type: none"> • Volume of material dispensed <p>Lifetime data recording of:</p> <ul style="list-style-type: none"> • Total material dispensed
Additional Fire Equipment	<p>1 x 9kg extinguisher near fuel point</p> <p>1 x 9kg extinguisher located at the rear of the truck (Transfer Conveyor Assembly)</p> <p>1 x 2.5kg extinguisher in Cabin</p> <p>High Pressure wash down hose and 20 meters of hose (1000 litre water tank) located on the rear of the truck for firefighting capability</p>
Cab Ingress/Egress Stemming Hopper Access	<p>Stair Access to the cab as per standard OEM Specifications</p> <p>Australian Standard Compliant access ladder fitted to hopper for safe access for clearing oversize out of hopper and maintenance works to be performed</p>
Additional Safety Equipment	<p>Emergency Stops (process stop) x 5.</p> <p>Emergency Stops (engine Shutdown stops) x 2 one outside one in cab.</p> <p>Battery Isolators</p> <p>Starter Isolator</p> <p>UHF Radio</p> <p>Cameras located on the rear of the truck and in the Stemming Hopper for the operator in the cab (monitors) visual check of load and safe entry to the hopper</p>

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