

Specification	STM Existing (3 Conveyor)
Plant No.	STM04
Cab Chassis	Mercedes 3341A
Type	6x6 Off Road (33TGVM)
Body	STM (3)
Payload	<p>Actual hopper volume is as follows:</p> <p>10m3 Stemming Material (Water Line)</p> <p>13m3 Stemming Material (Heaped 20 deg Approx.)</p> <p>1,000L Water</p> <p>Hydraulic Oil</p> <p>Diesel Fuel</p>
Dust Suppression	<p>Fitted as Standard</p> <p>Efficiency of our system reduces ambient respirable dust concentrations of a minimum 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 &amp; transfer points.</p> <p>This is a patented system not available from anyone else.</p> <p>On-site monitoring of operators for respirable dust &amp; quartz exposure in accordance with Australian Standard 2985 – Workplace atmospheres – Method for Sampling &amp; Gravimetric Determination of Respirable Dust</p> <p>Provide control recommendations to maintain relevant compliance with Coal Mining Safety &amp; Health Regulation 2001 and relevant Australian Standard guidance.</p> <p>Respirable dust &amp; quartz analysis conducted by a NATA accredited associate laboratory utilizing FTIR techniques.</p> <p>Analysis utilizing the AIHA IHSTAT package to determine statistical trends and significance of variation between both operational conditions (suppression on/off).</p>
Site Specification	BMA Compliant
Fire Suppression	Excluded

Delivery System	Reclaim Conveyor Transfer Conveyor Delivery Conveyor Slew Chute  - Slewable Conveyor 5m - Slewable 0 to 210 Deg - Elevation -10 Deg to +30 Deg. Approx.  - Slewable Chute - Slewable 0 – 110 Deg - Reach 0 – 1.2m  - Fully automatic and calibrated with accuracy to +/- 0.01 linear metres in hole. Maximum Output Approx. 51 m3 P/Hr.
Operation	In Cabin Multifunction Control Monitor (GUI)  <b>The control system provides the following functionality:</b> <ul style="list-style-type: none"> <li>• Product gate raise and lowering</li> <li>• Transfer conveyor activation/de-activation for testing</li> <li>• Reclaim conveyor activation/de-activation for testing</li> <li>• Discharge conveyor activation/de-activation for testing</li> <li>• Wash down mode for activating the water pump for cleaning the machine</li> <li>• Discharge conveyor slew left/right and luff up/down</li> <li>• Chute slew left/right</li> <li>• Configurable water pump settings for auto mode dispense</li> <li>• Configurable hole depth and diameter</li> <li>• Automatic dispensing and shutoff when hole depth/diameter (volume)</li> <li>• Hopper vibrator</li> </ul> <b>Configuration of:</b> <ul style="list-style-type: none"> <li>• Test tube diameter</li> <li>• Dispense rate with gate fully open</li> <li>• Dispense rate with gate half open</li> <li>• Vibrator run time duration</li> <li>• Start-up alarm run time duration</li> <li>• Auto mode selection – timed</li> <li>• Re-claim conveyor speed</li> </ul> <b>Production data recording of:</b> <ul style="list-style-type: none"> <li>• Volume dispensed</li> </ul> Lifetime data recording of: <ul style="list-style-type: none"> <li>• Total aggregate dispensed</li> </ul>
Additional Fire Equipment	1 x 9kg extinguisher near fuel point 1 x 2.5kg extinguisher in Cabin
Cab Ingress/Egress	Stair Access as per standard OEM Specifications
Additional Safety Equipment	Emergency Stops x 5 Battery Isolators Starter Isolator UHF Radio