**StemSafe Pty Ltd**
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| Specification | STM02-03 |
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| Cab Chassis | Mercedes 3341A |
| Type | 6x6 Off Road (33TGVM) |
| Body | STM (3) |
| Payload | Actual hopper volume is as follows:<br><br>10m3 Stemming Material (Water Line)<br><br>13m3 Stemming Material (Heaped 20 deg Approx.)<br><br>1,000L Water<br><br>Hydraulic Oil<br><br>Diesel Fuel |
| Dust Suppression | Fitted as Standard<br><br>Efficiency of our system reduces ambient respirable dust concentrations of a minimum 87%. Target 100%.<br><br>StemSafe trucks are fitted standard with dust suppression utilising a water spraying system to suppress dust arising from the conveyor & transfer points.<br><br>This is a patented system not available from anyone else.<br><br>On-site monitoring of operators for respirable dust & quartz exposure in accordance with Australian Standard 2985 – Workplace atmospheres – Method for Sampling & Gravimetric Determination of Respirable Dust<br><br>Provide control recommendations to maintain relevant compliance with Coal Mining Safety & Health Regulation 2001 and relevant Australian Standard guidance.<br><br>Respirable dust & quartz analysis conducted by a NATA accredited associate laboratory utilizing FTIR techniques.<br><br>Analysis utilizing the AIHA IHSTAT package to determine statistical trends and significance of variation between both operational conditions (suppression on/off). |
| Delivery System | Reclaim Conveyor<br>Transfer Conveyor<br>Delivery Conveyor<br><br>- Slewable Conveyor 5m<br>- Slewable 0 to 210 Deg |

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| | - Elevation -10 Deg to +30 Deg. Approx.<br><br>- Fully automatic and calibrated with accuracy to +/- 0.01 linear metres in hole.<br><br>Approx. Max Discharge rate. 51 M3 P/Hr. |
| Operation | In Cabin Multifunction Control Monitor (GUI)<br><br>**The control system provides the following functionality:**<br>• Product gate raise and lowering<br>• Transfer conveyor activation/de-activation for testing<br>• Reclaim conveyor activation/de-activation for testing<br>• Discharge conveyor activation/de-activation for testing<br>• Wash down mode for activating the water pump for cleaning the machine<br>• Discharge conveyor slew left/right and luff up/down<br>• Configurable water pump settings for auto mode dispense<br>• Configurable hole depth and diameter<br>• Automatic dispensing and shutoff when hole depth/diameter (volume)<br>• Hopper vibrator<br>**Configuration of:**<br>• Test tube diameter<br>• Dispense rate with gate fully open<br>• Dispense rate with gate half open<br>• Vibrator run time duration<br>• Start-up alarm run time duration<br>• Auto mode selection – timed<br>• Re-claim conveyor speed<br>**Production data recording of:**<br>• Volume dispensed<br>Lifetime data recording of:<br>• Total aggregate dispensed |
| Site Specification | BMA Compliant |
| Fire Suppression | Excluded |
| Additional Fire Equipment | 1 x 9kg extinguisher near fuel point<br>1 x 2.5kg extinguisher in Cabin |
| Cab Ingress/Egress | Stair Access as per standard OEM Specifications |
| Additional Safety Equipment | Emergency Stops x 5<br>Battery Isolators<br>Starter Isolator<br>UHF Radio |

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