



Elphinstone Underground Support Solutions www.elphinstone.com



UNDERGROUND RELIABILITY



### TECHNICAL SPECIFICATIONS

#### Engine

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Engine Tier	Tier 3 - Stand	ard	Tier 4 Final (	Low Power)	Tier 4 Final (I	High Power)
Engine Model	Cat C7.1 ACEF	RT (TA)	Cat C7.1 ACE	RT (TA)	Cat C7.1 ACE	RT (TA)
Gross Power SAE J1995	168 kW	225 hp	129 kW	173 hp	151 kW	202 hp
Displacement	7.0131 L	428 in <sup>3</sup>	7.0131 L	428 in <sup>3</sup>	7.0131 L	428 in <sup>3</sup>
Bore	105 mm	4.1 in	105 mm	4.1 in	105 mm	4.1 in
Stroke	135 mm	5.3 in	135 mm	5.3 in	135 mm	5.3 in
Number of Cylinders	6	·	6		6	
Max Torque @ Rated Speed	1028 Nm @ 14	00 rpm	842 Nm @ 14	100 rpm	870 Nm @ 14	00 rpm
Derating Altitude	3000 m	9843 ft	3000 m	9843 ft	3000 m	9843 ft
Emission Certification	EPA Tier 3	'	EPA Tier 4 F	inal	EPA Tier 4 Fi	nal
Alternator	150 amp		150 amp		150 amp	
Electrical System	24 V		24 V		24 V	
Battery - Quantity	2		2		2	
Battery - Volts	12 V		12 V		12 V	
Battery - Capacity	1000CCA		1000CCA		1000CCA	
Starting System	Direct Electric		Direct Electr	ic	Direct Electri	с

 ${\boldsymbol{\cdot}}$  Power ratings apply at 2200 rpm when tested under the specified standard conditions.

• Based on standard air conditions of 25' C (77' F) and 99 kPa (29.32 in Hg) dry barometer. Used 35' API gravity fuel having an LHV of 42,780 kJ/kg (18,390 BTU/lb) when used at 30° C (860 F) [ref. A fuel density of 838.9 g/L (7.001 lb/gal].

#### Powertrain

Travel Speed - Fwd. 1st	5.7 km/h	3.5 mph	
Travel Speed - Fwd. 2nd	9.4 km/h	5.8 mph	
Travel Speed - Fwd. 3rd	15.0 km/h	9.3 mph	
Travel Speed - Fwd. 4th	20.0 km/h	12.4 mph	
Travel Speed - Fwd. 5th	32.2 km/h	20.0 mph	
Travel Speed - Rev. 1st	5.7 km/h	3.5 mph	
Travel Speed - Rev. 2nd	9.4 km/h	5.8 mph	
Travel Speed - Rev. 3rd	20.0 km/h	12.4 mph	
Torque Converter Type	Lock-up clutch	1	
Transmission	5 fwd / 3 rev countershaft p	oowershift	
Steering, Frame Articulation	42.5 degrees		
Brakes - Service Type	Hydraulic appl disc enclosed	lied inboard WET	
Brakes - Parking Type		Internal Spring Applied Hydraulically Released wheel ends (SAHR)	
Tyres	14.00 R20		

Service Refill

Fuel Tank	340 L	89.8 gal
Cooling System	50 L	13.2 gal
Differential, Final Drive - F	18.5 L	4.9 gal
Differential, Final Drive - R	18.5 L	5.4 gal
Engine Oil	13.5 L	3.6 gal
Transmission, Torque Converter	31 L	8.2 gal
Hydraulic Tank	150 L	39.6 gal
Diesel Exhaust Fluid (DEF) (Tier 4 Final Only)	16 L	4.2 gal

#### Weights

Gross Vehicle Weight (GVM)	23,400 kg	51,588 lb
Tare Weight	18,400 kg	40,565 lb
Scissor Lift Platform Weight Limit	5,000 kg	11,023 lb
Scissor Lift Platform Rated Capacity	4 persons, plus 4,600 kg	4 persons, plus 10,141 lbs

\*Tare weight includes one operator and a full tank of fuel.

#### Speed on Grade

Cat C7.1 ACERT, 168kW Tier 3					
Grade Vehicle Speed (km/h)					
	1st Fwd	2nd Fwd	3rd Fwd	4th Fwd	5th Fwd
1:7 (14%) Empty (18,400 kg)	5.7	9.4	15.0	18.2	-
1:7 (14%) GVM (23,400 kg)	5.7	9.4	14.4	-	-
Cat C7.1 ACERT, 1	51kW Tier 4	Final (High I	Power)		
Grade	Vehicle Speed (km/h)				
	1st Fwd	2nd Fwd	3rd Fwd	4th Fwd	5th Fwd
1:7 (14%) Empty (18,400 kg)	5.7	9.4	15	16.4	-
1:7 (14%) GVM (23,400 kg)	5.7	9.4	13.0	-	-
Cat C7.1 ACERT, 1	29kW Tier 4	Final (Low I	Power)		
Grade			-		
	1st Fwd	2nd Fwd	3rd Fwd	4th Fwd	5th Fwd
1:7 (14%) Empty (18,400 kg)	5.7	9.4	13.7	13.7	-
1:7 (14%) GVM (23,400 kg)	5.7	9.4	10.9	-	-

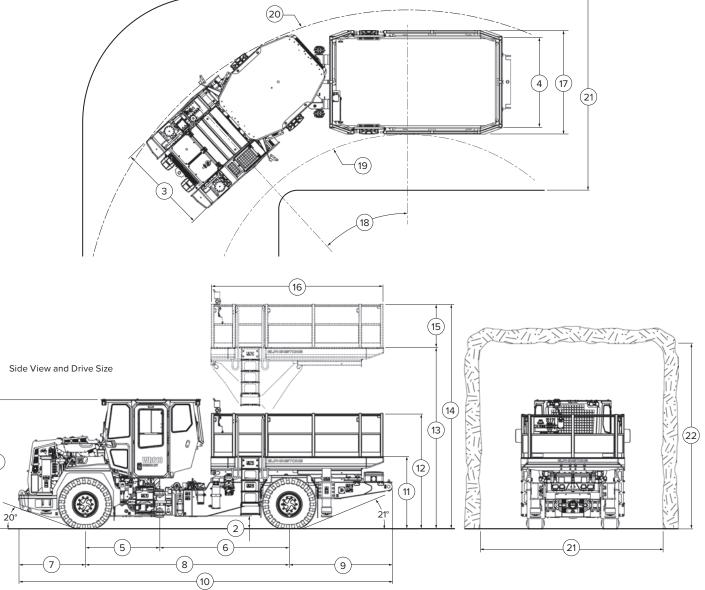
\*Note: 2% rolling resistance

#### Standards

ROPS/FOPS	ISO 3471:2008 / ISO 3449:2005
Steering	ISO 5010:2007
Braking	ISO 3450-2011/CSA-M424.3-M90
EWP (Platform)	AS 1418.10:2011 (Group A, Type 1)



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Dir	Dimensions			
1	Height - Top of Cabin	3000 mm	9 ft 10 in	
2	Height - Ground Clearance	305 mm	0 ft 12 in	
3	Width - Machine Front Frame	2100 mm	6 ft 11 in	
4	Width - Machine Rear Frame	2100 mm	6 ft 11 in	
5	Length - Front Axle to Hitch	1725 mm	5 ft 8 in	
6	Length - Hitch to Rear Axle	3000 mm	9 ft 10 in	
7	Length - Front Axle to Bumper	1545 mm	5 ft 1 in	
8	Length - Wheel Base	4725 mm	15 ft 6 in	
9	Length - Rear Axle to Tow Point	2385 mm	7 ft 9 in	
10	Length - Overall	8655 mm	28 ft 4 in	
11	Height - Ground to Platform Floor (Lowered)	1680 mm	5 ft 6 in	
12	Height - Ground to Platform Rail (Lowered)	2690 mm	8 ft 9 in	

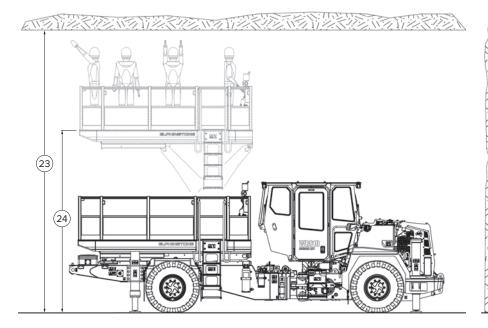
#### Dimensions

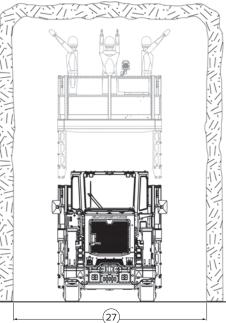
13	Height - Ground to Platform Floor (Raised)	4200 mm	13 ft 9 in
14	Height - Ground to Platform Rail (Raised)	5200 mm	17 ft
15	Height - Platform Floor to Rail	1000 mm	3 ft 3 in
16	Length - Platform	4000 mm	13 ft 1 in
17	Width - Platform	2400 mm	7 ft 10 in
18	Articulation	42.5 deg	
Dri	ve Size		
19	Radius - Inside Clearance - By design	4630 mm	15 ft 2 in
20	Radius - Outside Clearance - By design	7510 mm	28 ft 3 in
21	Minimum Width Portal (90° corner)	4500 mm	14 ft 9 in
22	Typical Mimum Height Portal	4500 mm	14 ft 9 in

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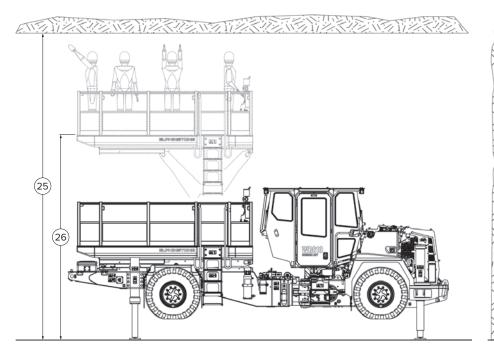
Maximum Clearance EWP Fully Extended

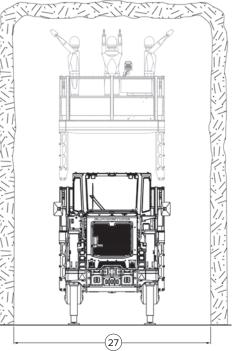




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Maximum Clearance EWP Fully Extended with Jacking Legs



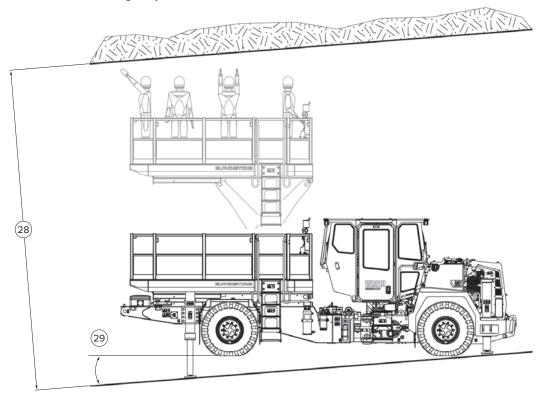


#### **EWP Maximum Working Heights**

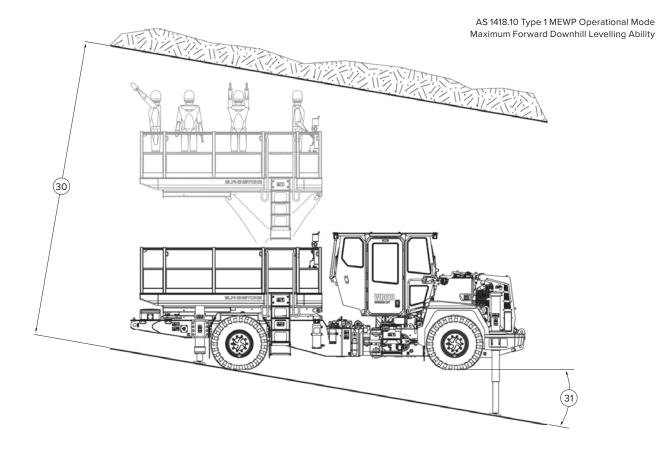
23	Height - Platform at Maximum Elevation	6500 mm	21 ft 4 in
24	Height - Platform Floor at Maximum Elevation	4200 mm	13 ft 9 in
25	Height - Platform at Maximum Elevation, Jacking Legs Extended	7000 mm	23 ft
26	Height - Platform Floor at Maximum Elevation, Jacking Legs Extended	4655 mm	15 ft 3 in
27	Minimum Width Portal (90° corner)	4500 mm	14 ft 9 in
28	Height - Maximum Rearward Downhill Levelling, Platform Fully Extended, Rear Jacking Legs Down	7000 mm	23 ft
29	Slope - Maximum Rearward	4.7°	8%
30	Height - Maximum Forward Downhill Levelling, Platform Fully Extended, Front Jacking Legs Down	6500 mm	21 ft 4 in
31	Slope - Maximum Forward	10°	17.5%



AS 1418.10 Type 1 MEWP Operational Mode Maximum Rearward Downhill Levelling Ability



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#### **STANDARD AND OPTIONAL EQUIPMENT**

#### Powertrain

Air Cleaner, 2-Stage With Integral Pre-Cleaner	•
All Wheel Drive with Lock-up Torque Converter	•
Axle Breathers, Remote Mounted	0
Brakes - Parking, Four Wheel Spring Applied, Enclosed Disc	•
Brakes - Service, Four-Wheel Pressure Applied Enclosed Disc	•
Brake - Driveline, Electromagnetic Retarder	•
Clean Emission Module (Tier 4 Final Only)	•
Driveline Slip-joint, Lubed for Life	•
Engine, Cat C7.1, ACERT Technology, ATAAC - Tier 3	•
Engine, Cat C7.1, ACERT Technology, ATAAC - Tier 4 Final	•
Fan, Sucker	•
Filters, Engine Air, Primary/Secondary	•
Filters, Fuel, Primary/Secondary	•
Final Drives, Outboard Planetary	•
Fuel Transfer Pump (Electric)	•
Fuel Lines - Double Wire Braided	•
Fuel Shutoff Valves Supply & Return	•
Lock - Wheel Nut (Torque Retention)	•
Muffler/Catalytic Converter (Tier 3 Only)	•
Oscillating Hitch	•
Radiator	•
Steering, Rotary Metering Pump	•
Suspension, Front Axle	0
Transmission, Countershaft Powershift (5F/3R)	•
Universal Joints, Lubed for Life	•
Fast-Fill Systems	
Coolant, Engine Oil, Hydraulic Oil, Transmission Oil	0
Fuel, Non-pressurised	0

#### Antifreeze

Coolant, Extended Life for -35°C (-30°F)	•
Coolant, Arctic Extended Life for -50°C (-58°F)	0

#### **Operator Environment**

300 mm (12 in) Touch Screen Operator Display	•
Brake Retarder Control	•
Cabin, Open, FOPS/ROPS	•
Cabin, Enclosed, FOPS/ROPS, Climate Control Modular 24 V HVAC System, Sliding Door Window	•
Cabin, Pressuriser	0
Cabin, Rear Window Wiper and Washer	0
Cabin, Tilt Supports	•
Cabin, Tilt Supports, Reduced Height	0
Cabin, Window Guard, Rear	••
Camera/Monitor, Reversing	••
Diagnostic Connector	•
Engine Idle Timer	0
Fire Extinguisher 2.5 kg, Hand Held Dry Chemical Powder 3A:40B:E LH Side	••
Fire Extinguisher 2.5 kg, Hand Held Dry Chemical Powder 3A:40B:E RH Side	••
Interior Lamps (LED)	•
Mirrors, Rear View	•
Occupancy Indicator, Operator	•
Seat Belt, 3x Retractable	•

#### **Operator Environment**

Operator Environment	
Seat, T-Seat, Air Suspension, Operator	•
2x Seat, T-Seat, Air Suspension, Companion	•
Seat Covers, Operator and Companion	•
Steering Wheel, Tilt and Telescoping	•
Instrumentation, Gauges	
Brake, Accumulator Pressure	•
Brake, Oil Pressure	•
Engine, Coolant Temperature	•
Engine, Oil Pressure	•
Diesel Exhaust Fluid (DEF) (Tier 4 Final Only)	0
Fuel, Level	•
Hydraulic, Oil Temperature	
Pressuriser Air Filter, High Efficiency Particulate Air	•
Pressuriser Air Filter, Activated Charcoal	0
Speedometer	•
Steering, System Pressure	•
Tachometer	•
Torque Converter, Oil Temperature	•
Instrumentation, Warning Indicators	
Brake, Accumulator Oil Pressure	•
Brake, Fault	•
Brake, Park Indicator	•
Cabin, Door Open	•
Electrical System	•
Emergency Stop	•
Engine, Coolant Temperature	•
Engine, Fault	•
Engine, Oil Pressure	•
Hydraulic, Oil Level	•
Hydraulic, Oil Temperature	•
Steering, Primary	•
Steering, Secondary	•
Torque Converter, Oil Temperature	•
Transmission, Fault	•
Transmission, Oil Filter Bypass	•
Instrumentation, Digital Data	
Gear and Direction	•
Driveline Retarder, Braking Percentage	•
Service Hour, Meter	•
Electrical	
Accessory Power Port (12 V) & (24 V)	•
Alarm, Back-up	•
Alternator, 150 amp	•
Auxiliary Start Receptacle	•
Pattorian Maintonanan Eron (2):1000 CCA)	•
Batteries, Maintenance Free (2x1000 CCA)	
Batteries, Maintenance Free (2x1000 CCA) Battery Isolation, Lockable Disconnect Switch (4 Pole)	•
Battery Isolation, Lockable Disconnect Switch (4 Pole)	
Battery Isolation, Lockable Disconnect Switch (4 Pole) Camera / Monitor, Reversing	
Battery Isolation, Lockable Disconnect Switch (4 Pole) Camera / Monitor, Reversing Diagnostic Connector	•
Battery Isolation, Lockable Disconnect Switch (4 Pole) Camera / Monitor, Reversing Diagnostic Connector Emergency Stop - Cabin	
Battery Isolation, Lockable Disconnect Switch (4 Pole) Camera / Monitor, Reversing Diagnostic Connector Emergency Stop - Cabin Emergency Stop - Ground Level, LH Side Front	•



#### **STANDARD AND OPTIONAL EQUIPMENT** .....

#### Electrical

Lights, Headlights (LED)	•
Lights, Reversing	•
Lights, Stop/Tail/Turn (LED)	•
Lights, Work, Front/Rear - Cab Mounted (LED)	•
Lights, Work, Front/Rear - Cab Mounted (LED) Additional	•
Radio, Ready, Communications	0
Radio, AM/FM/USB/Bluetooth	0
Sealed Electrical Connectors	•
Starter, Electric, Heavy Duty	•
Starter Isolator, Lockable Disconnect Switch (4 Pole)	0
Starting and Charging System, 24 V	•

#### **Hydraulics**

Case Drain Return Screen	•
Closed Center-load Sensing System	•
Hydraulic Oil Cooler	•
Hydraulic Oil Filling System, Filtered	•
Line Filter, Full Flow Return	•
Suction Screen	•

#### Scissor Platform

Gates, Self Closing and Latching•Ladder, Platform Access, LH Side Front•Ladder, Platform Access, RH Side Front•Platform, Group A Type 1 - 5000 kg•Platform lock, LH and RH Side Rear•Mesh Sections•Storage, Toolbox•Work Lights, LED, Flood•Scissor Lift Control Panel•Emergency Stop•Fingertip Control, Levelling, Platform and Cylinders•Fire Suppression, Actuator•Horn•Indicators, Level•Light, Fault, Red•Light, Operation, Green•Power Outlets, 12 and 24 Volt•Pump, Manual Lowering, Emergency Platform•Switch, Deadman•Switch, Machine Start / Stop•Operator Display•Guage, Machine Inclination, Machine Roll•Guage, Machine Inclination, Active, Flashing, Green•Indicator, Levelling Cylinder, Grounded/Ungrounded, Green•Indicator, Levelling Cylinder, Grounded/Ungrounded, Green•Indicator, Coscillation Angle•Indicator, Oscillation Angle•Indicator, Oscillation Angle•Indicator, Oil Pressure, Cylinder Red•Indicator, Oil Pressure, Cylinder Head•	Cylinders, Levelling, LH, RH Side, Front and Rear	•
Ladder, Platform Access, RH Side Front•Platform, Group A Type 1 - 5000 kg•Platform lock, LH and RH Side Rear•Mesh Sections•Storage, Toolbox•Work Lights, LED, Flood•Scissor Lift Control Panel•Emergency Stop••Fingertip Control, Levelling, Platform and Cylinders•Fire Suppression, Actuator••Horn•Indicators, Level•Light, Fault, Red••Light, Interlock, Amber•Light, Operation, Green•Power Outlets, 12 and 24 Volt•Pump, Manual Lowering, Emergency Platform••Switch, Flood Light•Switch, Machine Start / Stop•Operator Display•Guage, Machine Inclination, Machine Roll•Guage, Machine Inclination, Machine Pitch•Indicator, Levelling Cylinder, Grounded/Ungrounded, Green•Indicator, Levelling Cylinder, Grounded/Ungrounded, Green•Indicator, Levelling Cylinder Load (Flash Red on Overloaded)•Indicator, Ocill Pressure, Cylinder Rod•	Gates, Self Closing and Latching	•
Platform, Group A Type 1 - 5000 kg•Platform lock, LH and RH Side Rear•Mesh Sections•Storage, Toolbox•Work Lights, LED, Flood•Scissor Lift Control Panel•Emergency Stop••Fingertip Control, Levelling, Platform and Cylinders•Fire Suppression, Actuator••Horn•Indicators, Level•Light, Fault, Red••Light, Operation, Green•Power Outlets, 12 and 24 Volt•Pump, Manual Lowering, Emergency Platform••Switch, Flood Light•Switch, Flood Light•Switch, Rachine Start / Stop•Operator Display•Guage, Machine Inclination, Machine Roll•Indicator, Levelling Cylinder, Grounded/Ungrounded, Green•Indicator, Levelling Cylinder, Grounded/Ungrounded, Green•Indicator, Coscillation Angle•Indicator, Oscillation Angle•	Ladder, Platform Access, LH Side Front	•
Platform lock, LH and RH Side Rear•Mesh Sections•Storage, Toolbox•Work Lights, LED, Flood•Scissor Lift Control Panel•Emergency Stop••Fingertip Control, Levelling, Platform and Cylinders•Fire Suppression, Actuator••Horn•Indicators, Level•Light, Fault, Red••Light, Operation, Green•Power Outlets, 12 and 24 Volt•Pump, Manual Lowering, Emergency Platform•Switch, Deadman••Switch, Machine Start / Stop•Operator Display•Guage, Machine Inclination, Machine Roll•Indicator, Levelling Cylinder, Grounded/Ungrounded, Green•Indicator, Levelling Cylinder, Grounded/Ungrounded, Green•Indicator, Coscillation Angle•	Ladder, Platform Access, RH Side Front	•
Mesh Sections•Storage, Toolbox•Work Lights, LED, Flood•Scissor Lift Control Panel•Emergency Stop••Fingertip Control, Levelling, Platform and Cylinders•Fire Suppression, Actuator••Horn•Indicators, Level•Light, Fault, Red••Light, Operation, Green•Power Outlets, 12 and 24 Volt•Pump, Manual Lowering, Emergency Platform••Switch, Deadman••Switch, Machine Start / Stop•Operator Display•Guage, Machine Inclination, Machine Roll•Indicator, Levelling Cylinder, Grounded/Ungrounded, Green•Indicator, Levelling Cylinder Load (Flash Red on Overloaded)•Indicator, Oscillation Angle•Indicator, Oil Pressure, Cylinder Rod•	Platform, Group A Type 1 - 5000 kg	•
Storage, Toolbox•Work Lights, LED, Flood•Scissor Lift Control Panel•Emergency Stop••Fingertip Control, Levelling, Platform and Cylinders•Fire Suppression, Actuator••Horn•Indicators, Level•Light, Fault, Red••Light, Interlock, Amber•Light, Operation, Green•Power Outlets, 12 and 24 Volt•Pump, Manual Lowering, Emergency Platform••Switch, Deadman••Switch, Machine Start / Stop•Operator Display•Guage, Machine Inclination, Machine Roll•Indicator, Lovek, Steering (Red Unlocked, Green Locked)•Indicator, Levelling Cylinder, Grounded/Ungrounded, Green•Indicator, Oscillation Angle•Indicator, Osillation Angle•	Platform lock, LH and RH Side Rear	•
Work Lights, LED, FloodScissor Lift Control PanelEmergency StopFingertip Control, Levelling, Platform and CylindersFire Suppression, ActuatorHornIndicators, LevelLight, Fault, RedLight, Fault, RedLight, Operation, GreenPower Outlets, 12 and 24 VoltPump, Manual Lowering, Emergency PlatformSwitch, DeadmanSwitch, Flood LightSwitch, Machine Start / StopOperator DisplayGuage, Machine Inclination, Machine RollGuage, Machine Inclination, Machine PitchIndicator, Levelling Cylinder, Grounded/Ungrounded, GreenIndicator, Levelling Cylinder Load (Flash Red on Overloaded)Indicator, Oscillation AngleIndicator, Oil Pressure, Cylinder Rod	Mesh Sections	•
Scissor Lift Control PanelEmergency Stop••Fingertip Control, Levelling, Platform and Cylinders•Fire Suppression, Actuator••Horn•Indicators, Level•Light, Fault, Red••Light, Interlock, Amber•Light, Operation, Green•Power Outlets, 12 and 24 Volt•Pump, Manual Lowering, Emergency Platform•Switch, Deadman••Switch, Flood Light•Switch, Machine Start / Stop•Operator Display•Guage, Machine Inclination, Machine Roll•Indicator, Cround Control Station Active, Flashing, Green•Indicator, Levelling Cylinder, Grounded/Ungrounded, Green•Indicator, Oscillation Angle•Indicator, Oil Pressure, Cylinder Rod•	Storage, Toolbox	•
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Fingertip Control, Levelling, Platform and CylindersFire Suppression, ActuatorHornIndicators, LevelLight, Fault, RedLight, Fault, RedLight, Interlock, AmberLight, Operation, GreenPower Outlets, 12 and 24 VoltPump, Manual Lowering, Emergency PlatformSwitch, DeadmanSwitch, Flood LightSwitch, Flood LightSwitch, Machine Start / StopOperator DisplayGuage, Machine Inclination, Machine RollGuage, Machine Inclination, Machine PitchIndicator, Ground Control Station Active, Flashing, GreenIndicator, Levelling Cylinder, Grounded/Ungrounded, GreenIndicator, Levelling Cylinder Load (Flash Red on Overloaded)Indicator, Oscillation AngleIndicator, Oli Pressure, Cylinder Rod	Scissor Lift Control Panel	
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Light, Operation, Green•Power Outlets, 12 and 24 Volt•Pump, Manual Lowering, Emergency Platform•Switch, Deadman•Switch, Flood Light•Switch, Machine Start / Stop•Operator Display•Guage, Machine Inclination, Machine Roll•Guage, Machine Inclination, Machine Pitch•Indicator, Ground Control Station Active, Flashing, Green•Indicator, Lock, Steering (Red Unlocked, Green Locked)•Indicator, Levelling Cylinder, Grounded/Ungrounded, Green•Indicator, Oscillation Angle•Indicator, Oli Pressure, Cylinder Rod•	Light, Fault, Red	••
Power Outlets, 12 and 24 Volt       •         Pump, Manual Lowering, Emergency Platform       •         Switch, Deadman       •         Switch, Flood Light       •         Switch, Machine Start / Stop       •         Operator Display       •         Guage, Machine Inclination, Machine Roll       •         Guage, Machine Inclination, Machine Pitch       •         Indicator, Ground Control Station Active, Flashing, Green       •         Indicator, Lock, Steering (Red Unlocked, Green Locked)       •         Indicator, Levelling Cylinder, Grounded/Ungrounded, Green       •         Indicator, Oscillation Angle       •         Indicator, Oscillation Angle       •	Light, Interlock, Amber	•
Pump, Manual Lowering, Emergency Platform         Switch, Deadman         Switch, Flood Light         Switch, Machine Start / Stop         Operator Display         Guage, Machine Inclination, Machine Roll         Guage, Machine Inclination, Machine Pitch         Indicator, Ground Control Station Active, Flashing, Green         Indicator, Lock, Steering (Red Unlocked, Green Locked)         Indicator, Levelling Cylinder, Grounded/Ungrounded, Green         Indicator, Oscillation Angle         Indicator, Oscillation Angle	Light, Operation, Green	•
Switch, Deadman       ●         Switch, Flood Light       ●         Switch, Machine Start / Stop       ●         Operator Display       ●         Guage, Machine Inclination, Machine Roll       ●         Guage, Machine Inclination, Machine Pitch       ●         Indicator, Ground Control Station Active, Flashing, Green       ●         Indicator, Lock, Steering (Red Unlocked, Green Locked)       ●         Indicator, Levelling Cylinder, Grounded/Ungrounded, Green       ●         Indicator, Levelling Cylinder Load (Flash Red on Overloaded)       ●         Indicator, Oscillation Angle       ●         Indicator, Oscillation Angle       ●	Power Outlets, 12 and 24 Volt	•
Switch, Flood Light       •         Switch, Machine Start / Stop       •         Operator Display       •         Guage, Machine Inclination, Machine Roll       •         Guage, Machine Inclination, Machine Pitch       •         Indicator, Ground Control Station Active, Flashing, Green       •         Indicator, Lock, Steering (Red Unlocked, Green Locked)       •         Indicator, Levelling Cylinder, Grounded/Ungrounded, Green       •         Indicator, Oscillation Angle       •         Indicator, Oscillation Angle       •	Pump, Manual Lowering, Emergency Platform	•
Switch, Machine Start / Stop <ul> <li>Operator Display</li> <li>Guage, Machine Inclination, Machine Roll</li> <li>Guage, Machine Inclination, Machine Pitch</li> <li>Indicator, Ground Control Station Active, Flashing, Green</li> <li>Indicator, Lock, Steering (Red Unlocked, Green Locked)</li> <li>Indicator, Levelling Cylinder, Grounded/Ungrounded, Green</li> <li>Indicator, Oscillation Angle</li> <li>Indicator, Oil Pressure, Cylinder Rod</li> </ul>	Switch, Deadman	••
Operator Display       Guage, Machine Inclination, Machine Roll         Guage, Machine Inclination, Machine Pitch       Indicator, Ground Control Station Active, Flashing, Green         Indicator, Ground Control Station Active, Flashing, Green       Indicator, Lock, Steering (Red Unlocked, Green Locked)         Indicator, Levelling Cylinder, Grounded/Ungrounded, Green       Indicator, Levelling Cylinder Load (Flash Red on Overloaded)         Indicator, Oscillation Angle       Indicator, Oscillation Angle	Switch, Flood Light	•
Guage, Machine Inclination, Machine Roll       ●         Guage, Machine Inclination, Machine Pitch       ●         Indicator, Ground Control Station Active, Flashing, Green       ●         Indicator, Lock, Steering (Red Unlocked, Green Locked)       ●         Indicator, Levelling Cylinder, Grounded/Ungrounded, Green       ●         Indicator, Levelling Cylinder Load (Flash Red on Overloaded)       ●         Indicator, Oscillation Angle       ●         Indicator, Oil Pressure, Cylinder Rod       ●	Switch, Machine Start / Stop	•
Guage, Machine Inclination, Machine Pitch       •         Indicator, Ground Control Station Active, Flashing, Green       •         Indicator, Lock, Steering (Red Unlocked, Green Locked)       •         Indicator, Levelling Cylinder, Grounded/Ungrounded, Green       •         Indicator, Levelling Cylinder Load (Flash Red on Overloaded)       •         Indicator, Oscillation Angle       •         Indicator, Oli Pressure, Cylinder Rod       •	Operator Display	
Indicator, Ground Control Station Active, Flashing, Green       •         Indicator, Lock, Steering (Red Unlocked, Green Locked)       •         Indicator, Levelling Cylinder, Grounded/Ungrounded, Green       •         Indicator, Levelling Cylinder Load (Flash Red on Overloaded)       •         Indicator, Oscillation Angle       •         Indicator, Oil Pressure, Cylinder Rod       •	Guage, Machine Inclination, Machine Roll	•
Indicator, Lock, Steering (Red Unlocked, Green Locked)       •         Indicator, Levelling Cylinder, Grounded/Ungrounded, Green       •         Indicator, Levelling Cylinder Load (Flash Red on Overloaded)       •         Indicator, Oscillation Angle       •         Indicator, Oil Pressure, Cylinder Rod       •	Guage, Machine Inclination, Machine Pitch	•
Indicator, Levelling Cylinder, Grounded/Ungrounded, Green       •         Indicator, Levelling Cylinder Load (Flash Red on Overloaded)       •         Indicator, Oscillation Angle       •         Indicator, Oil Pressure, Cylinder Rod       •	Indicator, Ground Control Station Active, Flashing, Green	•
Indicator, Levelling Cylinder Load (Flash Red on Overloaded)       •         Indicator, Oscillation Angle       •         Indicator, Oil Pressure, Cylinder Rod       •	Indicator, Lock, Steering (Red Unlocked, Green Locked)	•
Indicator, Oscillation Angle  Indicator, Oil Pressure, Cylinder Rod	Indicator, Levelling Cylinder, Grounded/Ungrounded, Green	•
Indicator, Oil Pressure, Cylinder Rod	Indicator, Levelling Cylinder Load (Flash Red on Overloaded)	•
	Indicator, Oscillation Angle	•
Indicator, Oil Pressure, Cylinder Head	Indicator, Oil Pressure, Cylinder Rod	•
	Indicator, Oil Pressure, Cylinder Head	•

#### **Scissor Platform**

Indicator, Oil Pressure, Levelling Cylinder	•
Indicator, Platform Control Station Active, Flashing, Green	•
Indicator, Platform Height, Graduated Scale, Flashing, Green	•
Other	
Brakes, Park, Onboard, Release for Machine Retrieval	••
Engine, Enclosures, Hinged	•
Film, GP Reflective, Flourescent Yellow	••
Film, GP Reflective, Flourescent Orange	••
Fire Extinguisher, 4.5 kg, Hand Held Dry Chemical Powder 4A:60B:E LH and RH Side	••
Fire Extinguisher, 9 kg, Hand Held Dry Chemical Powder 6A:80B:E LH and RH Side	••
Fire Suppression System, Ansul A101 Dry Chemical Powder, Engine Shutdown	••
Fire Suppression System, Sandvik Aqueous-Film Forming Foam, Engine Shutdown	••
Grease Lubrication System, Centralised, Manual	•
Grease Lubrication System, Automatic	•
Lift, Tie Down and Retrieval Points (Front and Rear)	•
Mudguards	•
Radiator, Cap, Manual Pressure Release	•
Scheduled Oil Sampling (SOS) ports	•
Steering, Frame Lock Link	•
Steering, Secondary	•
Tyres, Tubeless Rims (14.00 R20)	•
Tyre and Rim, Spare (14.00 R20)	•
Unit Number Placard	•
Wheel Chocks	••
Wheel Chocks	

# UNDERGROUND RELIABILTY.

Over 40 years' experience in the mining industry.

# ELPHINSTONE

## WR810 Scissor Lift

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