



## PRODUCT OVERVIEW

Elphinstone Mining Solutions  
[www.elphinstone.com](http://www.elphinstone.com)

**ELPHINSTONE**





## WR810 Scissor Lift

### Standard features:

- Cat powertrain.
- Cat C7.1 TIER 3 engine arrangement.
- All wheel drive with lock-up torque convertor.
- Three seat operator station.
- Tilting cab.
- 12" digital touch screen operator display.
- Swing out radiator grill.
- Bulkhead connections in hitch for hoses and harnesses.
- Wheel chocks.
- Hinged bonnet and exhaust module.
- Oscillating hitch with stabilising lock cylinders.
- Dual access ladders to either side of scissor basket.
- Secondary steering and recovery brake release system.
- Electro-magnetic retarder.
- 17% levelling ability for machine via levelling cylinders.

- Reverse camera.
- Digital inclinometer reading in cab.

### Optional features:

- Enclosed climate controlled operator station with 24V DC aircon system.
- DPF exhaust muffler.
- Front suspension.
- High speed fluid change.
- Cat C7.1 TIER 4F engine arrangement.
- Fire suppression system.
- Automatic lubrication system.

### SPECIFICATION SNAPSHOT

GVM*	23,400 kg
Rated capacity	5,000 kg AS1418.10 Group A, Type 1
Platform size	2,400mm wide x 4,000mm long
Engine model	Cat C7.1 ACERT™ TIER 3
Gross power	SAE J1995 168 kW / 228 hp
Articulation	42.5°
Tyres	14.00R20

\*Approximate only. GVM dependent on product configuration



## WR810 Agitator 6m³

### Standard features:

- Cat powertrain.
- Cat C7.1 TIER 3 engine arrangement.
- All wheel drive with lock-up torque convertor.
- Three seat operator station.
- Tilting cab.
- 12" digital touch screen operator display.
- Swing out radiator grill.
- Bulkhead connections in hitch for hoses and harnesses.
- Wheel chocks.
- Hinged bonnet and exhaust module.
- Oscillating hitch.
- Secondary steering and recovery brake release system.
- Electro-magnetic retarder.
- 6m³ agitator bowl including 2 x access covers and 2 x empty bowl lift points.
- Agitator infinite bowl controls in cab and at the rear of the machine.

- Reverse camera
- Digital slump meter reading in cab.
- Agitator bowl motor fitted with quick connect couplings.

### Optional features:

- Enclosed climate controlled operator station with 24V DC aircon system.
- DPF exhaust muffler.
- Front suspension.
- High speed fluid change.
- Cat C7.1 TIER 4F engine arrangement.
- Fire suppression system.
- Automatic lubrication system.
- Rear agitator bowl access ladder and platform.
- Manual slump gauge at the rear of the machine.
- High pressure washdown System.
- Onboard chemical additive system.
- Discharge chute camera.

### SPECIFICATION SNAPSHOT

GVM*	29,400 kg
Volume	6 m³
Engine model	Cat C7.1 ACERT™ TIER 3
Gross power	SAE J1995 168kW / 228 hp
Articulation	42.5°
Plant mix mode agitator bowl speed	0-19 rpm
Transit mode agitator bowl speed	0-6 rpm
Tyres	14.00R20

\*Approximate only. GVM dependent on product configuration.





## WR810 Fuel & Lube

### Standard features:

- Cat powertrain.
- Cat C7.1 TIER 3 engine arrangement.
- All wheel drive with lock-up torque convertor.
- Three seat operator station
- Tilting cab.
- 12" digital touch screen operator display.
- Swing out radiator grill.
- Bulkhead connections in hitch for hoses and harnesses.
- Wheel chocks.
- Hinged bonnet and exhaust module.
- Oscillating hitch.
- Secondary steering and recovery brake release system.
- Electro-magnetic retarder.
- 1 x 5,000L diesel fuel tank.
- 4 x 300L oil tanks.
- Provision for 1 x grease container.

- Provision for 2 x 44 gal drums with 2 point lash down device.
- Hose reel cabinet at rear of machine.
- Fire extinguisher in rear hose reel cabinet.
- Reverse camera.

### Optional features:

- Enclosed climate controlled operator station with 24V DC aircon system.
- DPF exhaust muffler.
- Front suspension.
- High speed fluid change.
- Cat C7.1 TIER 4F engine arrangement.
- Fire suppression system
- Automatic lubrication system.

### SPECIFICATION SNAPSHOT

GVM*	24,750 kg
Diesel tank	5000 L
Oil tanks	4 x 300 L
Engine model	Cat C7.1 ACERT™ TIER 3
Gross power	SAE J1995 168kW / 228 hp
Articulation	42.5°
Tyres	14.00R20

\*Approximate only. GVM dependent on product configuration

## WR810 Water Cannon

### Standard features:

- Cat powertrain.
- Cat C7.1 TIER 3 engine arrangement.
- All wheel drive with lock-up torque convertor.
- Three seat operator station.
- Tilting cab.
- 12" digital touch screen operator display.
- Swing out radiator grill.
- Bulkhead connections in hitch for hoses and harnesses.
- Wheel chocks.
- Hinged bonnet and exhaust module.
- Oscillating hitch with stabilising lock cylinders.
- Secondary steering and recovery brake release system.
- Electro-magnetic retarder.
- Automatic boom retract function for transport.
- Water cannon on extendable boom with reach of approx. 8m.

- Boom movement, 32° up, 10° down, 95° left and 95° right from centre.
- Dual application water cannon and water truck for dust suppression.
- Boom and water cannon controlled by either tethered remote or in cab.
- Cameras - multiple viewing options available.

### Optional features:

- Enclosed climate controlled operator station with 24V DC aircon system.
- DPF exhaust muffler.
- Front suspension.
- High speed fluid change.
- Cat C7.1 TIER 4F engine arrangement.
- Fire suppression system.
- Automatic lubrication system.
- Wireless remote controlled boom and water cannon.

### SPECIFICATION SNAPSHOT

GVM*	28,660 kg
Water tank	8000 L
Engine model	Cat C7.1 ACERT™ TIER 3
Gross power	SAE J1995 168kW / 228 hp
Articulation	42.5°
Tyres	14.00R20
Water pressure approx.	150 psi
Water flow approx.	2,700 L/min
Water cannon nozzle size	38 mm (1½")

\*Approximate only. GVM dependent on product configuration.





## WR820 Water Cannon

### Standard features:

- Cat powertrain.
- Cat C11 TIER 3 engine arrangement.
- All wheel drive.
- Front oscillating axle.
- Swing out radiator grill.
- Bulkhead connections in hitch for hoses and harnesses.
- Wheel chocks.
- Automatic retarder.
- Water cannon on extendable boom with reach of approx. 8m.
- Boom movement, 32° up, 10° down, 90° left and 90° right from centre.
- Automatic boom retract function for transport.
- Trammig lockout for testing the boom on remotes.
- Water level and pressure displayed on remote control screen.
- Wireless remote controlled boom and water cannon.
- Automatic water pump shutdown when tank empty.
- Water tank pump.
- Water tank pump compartment and hydraulic valves easily accessible for maintenance.
- Manual 3" dump valve in water tank.
- Thermal lagging material on turbo, exhaust pipe and muffler.
- Secondary steering and recovery brake release system.
- Optional features:
- Climate controlled enclosed operator station.
- Fire suppression system.
- DPF exhaust muffler.
- Hydraulically controlled collapsible height FOPS cab to obtain low profile machine.
- Cameras - multiple viewing options available.

### SPECIFICATION SNAPSHOT

GVM*	38,775 kg
Water capacity (minimum)	8,200 L
Engine model	Cat C11 ACERT™ TIER 3
Gross power	SAE J1995 242kW / 325 hp
Articulation	42.5°
Tyres	18.00R25
Water pressure approx.	150 psi
Water flow approx.	2,700 L/min
Water cannon nozzle size	38mm (1½")

\*Approximate only. GVM dependent on product configuration

## WR820 Water Tank

### Standard features:

- Cat powertrain.
- Cat C11 TIER 3 engine arrangement.
- All wheel drive.
- Front oscillating axle.
- Swing out radiator grill.
- Bulkhead connections in hitch for hoses and harnesses.
- Wheel chocks.
- Automatic retarder.
- Variable water delivery system - varies the water output rate with ground speed to maintain a constant volume of water on the road regardless of ground speed.
- 3 x water spray heads (1 x horizontal & 2 x vertical (1 x on each side of the truck)).
- Water flow control, water level and pressure on in cab control screen.
- Automatic water pump shutdown when tank is empty.

### SPECIFICATION SNAPSHOT

GVM*	42,631 kg
Water capacity	16,000 L
Engine model	Cat C11 ACERT™ TIER 3
Gross power	SAE J1995 242kW / 325 hp
Articulation	42.5°
Tyres	18.00R25

\*Approximate only. GVM dependent on product configuration.

- Water tank pump and hydraulic valves easily accessible for maintenance.
- Manual 2.5" dump valve in water tank.
- Thermal lagging material on turbo, exhaust pipe and muffler.
- Secondary steering and recovery brake release system.

### Optional features:

- Climate controlled enclosed operator station.
- Fire suppression system.
- DPF exhaust muffler.
- Water cannon (joystick controlled from cab).
- Cameras - multiple viewing options available.





## WR820 Agitator 10m<sup>3</sup>

### Standard features:

- Cat powertrain.
- Cat C11 TIER 3 engine arrangement.
- All wheel drive.
- Front suspension.
- High performance heavy duty axles.
- Swing out radiator grill.
- Bulkhead connections in hitch for hoses and harnesses.
- Wheel chocks.
- Automatic retarder.
- 10m<sup>3</sup> agitator bowl including 2x access covers and 2x empty bowl lift points.
- Agitator variable speed bowl controls in cab and on a manual pendant at the rear of the machine.
- Digital slump meter gauge via in cab display.
- Digital inclinometer reading in cab.
- Agitator bowl motor fitted with connect couplings.

- Thermal lagging material on turbo, exhaust pipe and muffler.
- Secondary steering and recovery brake release system.

### Optional features:

- Analogue slump meter gauge at rear control panel.
- Rear agitator bowl access ladder and platform.
- Climate controlled enclosed operator station.
- Fire suppression system.
- DPF exhaust muffler.
- Automatic lubrication system.
- 235L water tank with water hose reel.
- 265L chemical tank.
- Cameras - multiple viewing options available.

### SPECIFICATION SNAPSHOT

GVM*	50,095 kg
Volume	10 m <sup>3</sup>
Engine model	Cat C11 ACERT™ TIER 3
Gross power	SAE J1995 242kW / 325 hp
Articulation	42.5°
Plant mix mode agitator bowl speed	0-19 rpm
Transit mode agitator bowl speed	0-8 rpm
Tyres	18.00R25

\*Approximate only. GVM dependent on product configuration.

## WR820 Agitator 8m<sup>3</sup>

### Standard features:

- Cat powertrain.
- Cat C11 TIER 3 engine arrangement.
- All wheel drive.
- Front oscillating axle.
- Swing out radiator grill.
- Bulkhead connections in hitch for hoses and harnesses.
- Wheel chocks.
- Automatic retarder.
- 8m<sup>3</sup> agitator bowl including 2x access covers and 2x empty bowl lift points.
- Agitator stepped speed bowl controls in cab and on a manual pendant at the rear of the machine.
- Digital slump meter gauge via in cab display.
- Agitator bowl motor fitted with connect couplings.
- Thermal lagging material on turbo, exhaust pipe and muffler.

- Secondary steering and recovery brake release system.

### Optional features:

- Analogue slump meter gauge at rear control panel.
- Rear agitator bowl access ladder and platform.
- Climate controlled enclosed operator station.
- Fire suppression system.
- DPF exhaust muffler.
- Automatic lubrication system.
- 235L water tank with water hose reel.
- 265L chemical tank.
- Cameras - multiple viewing options available.

### SPECIFICATION SNAPSHOT

GVM*	42,200 kg
Volume	8 m <sup>3</sup>
Engine model	Cat C11 ACERT™ TIER 3
Gross power	SAE J1995 242kW / 325 hp
Articulation	42.5°
Plant mix mode agitator bowl speed	0-19 rpm
Transit mode agitator bowl speed	0-8 rpm
Tyres	18.00R25

\*Approximate only. GVM dependent on product configuration.





## UG20K Motor Grader

### Standard features:

- Low profile ROPS/FOPS open canopy.
- C7 TIER 2 engine and power shift countershaft transmission.
- Proven Cat powertrain with Tier 2, Bharat Stage III and China Stage II equivalent emission levels.
- 3 piece wheel rims (24", 610mm nominal diameter).
- Wheel chocks.
- Easy to read in-dash instrument cluster.
- Rear radiator protection frame.
- "Live Spindle" front axle design.
- Conventional steering wheel and lever hydraulic implement controls.
- Eight forward and six reverse gears for optimal productivity.
- Reduce height of moldboard lift cylinders.

- Reduce height of the exhaust outlet and air intake.

### Optional features:

- Low profile ROPS/FOPS enclosed cabin with air conditioning.
- Shortened wheel base.
- Reduced width moldboard from 12' to 10' (3658 to 3048 mm).
- Rear Mounted Ripper Assembly (Dealer Fit).
- Fire suppression system.
- DPF exhaust muffler.
- Automatic lubrication system.
- Reverse camera.

### SPECIFICATION SNAPSHOT

GVM*	15,000 kg
Engine model	Cat C7 ACERT™ TIER 2
Gross power	SAE J1995 108 kW / 145 hp
Frame articulation left/right	20°
Steering range left/right	47.5°
Turning circle inner/outer	60 / 227" 1524 / 5766 mm
Width over front tyres	96.4" 2449 mm
Tyres (Tubeless)	14.00 x 24 Triangle 12 ply E2

\*Approximate only. GVM dependent on product configuration.

## UG20M Motor Grader

### Standard features:

- Low profile ROPS/FOPS enclosed cabin with air conditioning.
- C7.1 TIER 4 Interim engine and power shift countershaft transmission incorporating Electronic Clutch Pressure Control (ECPC).
- Proven Cat powertrain with U.S. EPA Tier 4 Interim/ EU Stage IIIB equivalent emission levels.
- 3 piece wheel rims (24", 610mm nominal diameter).
- Wheel chocks.
- Easy to read in-dash instrument cluster.
- Rear radiator protection frame.
- "Live Spindle" front axle design.
- Precise and predictable electro-hydraulic joystick steering and implement controls.
- Intuitive steering control.

- DPF exhaust muffler.
- Eight forward and six reverse gears for optimal productivity.
- Electronic throttle control.
- Articulation return to centre.
- LED cabin step lights.
- Inching pedal for precise control of machine.
- Automatic differential lock.
- LED work lights, brake and indicator lights.
- Shortened wheelbase.

### Optional features:

- Reduced width moldboard from 12' to 10' (3658 to 3048 mm).
- Rear Mounted Ripper Assembly (Dealer Fit).
- Fire suppression system.
- Automatic lubrication system.
- Reverse camera.

### SPECIFICATION SNAPSHOT

GVM*	18,000 kg
Engine model	Cat C7.1 ACERT™ TIER 4 Interim
Gross power	SAE J1995 108-141kW / 145 - 189 hp
Frame articulation left/right	20°
Steering range left/right	47.5°
Turning circle inner/outer**	63 / 235" 1600 / 5969 mm
Overall length**	320" 8128 mm
Width over front tyres	98.9" 2511 mm
Tyres (Tubeless)	14.00R24 Bridgestone VUT * L2

\*Approximate only. GVM dependent on product configuration. \*\* Shortened Wheelbase





## 3900 Haulmax Truck

### 80 tonne nominal payload capabilities

The 3900 Series Truck was developed to operate on cycles of approximately 50km (30 miles).

### Payload management

The integrated Haulmax Payload and Tyre Pressure Monitoring System (TPMS) is designed to measure, record and display live data.

### On-board diagnostic systems

Electronic control system enables quick diagnosis of engine and transmission conditions and effective maintenance and repairs using the Electronic Technician (Cat ET) service tool.

### Operator comfort and confidence

Ride and comfort assured with spacious two-person ROPS / FOPS certified cab, air suspension seats and ergonomic layout.

### Engine performance and productivity

Cat C27 Engine with ACERT™ Technology. Meets US EPA Tier 2 and European Union Stage II standards.

### Designed with safety as a priority

Oil cooled disc brakes, access ladders, fire suppression and optional WAVS camera at the rear and LED light options.

### Serviceability equals increased uptime

Easy access to daily service points simplifies servicing and reduces time spent on regular maintenance.

### Application specific transmission

The Cat mechanical drive power train and power shift transmission provides unmatched operating efficiency and control on steep grades in poor underfoot conditions and on haul roads with high rolling resistance.

### Engine shutoff switch

A secondary engine shutoff switch is located at ground level to enable the truck to be shutdown quickly in an emergency.

### Maintenance platform

Easy stairway access to engine, air filters and radiator. Platform access for hydraulics and steering.

### Box-section design

Incorporating castings in high-stress areas with deep penetrating and continuous wrap-around welds.

### Stability, suspension and traction

Designed to handle mine site conditions enhancing a longer frame and service module life plus a more comfortable ride. Six independent self-contained, oil pneumatic, variable rebound suspension cylinders are designed to absorb shocks in the most severe applications.



### SPECIFICATION SNAPSHOT

GVM*	135,000 kg
Engine model	Cat C27 ACERT™
Payload (nominal)	80 tonne
Gross power	SAE J1995 587 kW / 787 hp
Maximum speed	76.4 km/h (47.5 mph)
Height (top of standard exhaust)	4770 mm
Length**	14585 mm
Width (across mirrors)	4850 mm

\*Approximate only. GVM dependent on product configuration. \*\*Based on 59m³ model.



# UNDERGROUND RELIABILITY.

Over 40 years' experience in the mining industry.



Innovate



Design



Manufacture

Elphinstone Pty Ltd is an established Caterpillar Original Equipment Manufacturer with over 40 years' experience in the mining industry. Elphinstone specialises in the design, manufacture and support of quality equipment for the global underground, surface mining and rail maintenance industries.

The Elphinstone range of Underground Mining Support Vehicles combines practical design, the latest technology and quality manufacturing to ensure reliable performance.

Current products also include the Haulmax extended distance, off-highway haul truck and the technologically advanced Railmax road-rail excavator.

As an authorised Caterpillar Original Equipment Manufacturer, all Elphinstone products are sold and supported via the global Cat dealer network.

## ELPHINSTONE

For more complete information on Elphinstone products, dealer services, and industry solutions, visit [www.elphinstone.com](http://www.elphinstone.com) or contact your local Cat dealer.

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