WR810 Scissor Lift

Standard features:
- Cat powertrain
- Cat C71 TIER 3 engine arrangement
- All wheel drive with lock-up torque converter
- 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

Optional features:
- Reverse camera
- Digital inclinometer reading in cab

WR810 Agitator 6m³

Standard features:
- Cat powertrain
- Cat C71 TIER 3 engine arrangement
- All wheel drive with lock-up torque converter
- 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

Optional features:
- Enclosed climate controlled operator station with 24V DC aircon system
- DPF exhaust muffler
- Front suspension
- High speed fluid change
- Cat C71 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**

<table>
<thead>
<tr>
<th>WR810 Scissor Lift</th>
<th>WR810 Agitator 6m³</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>GVM</strong></td>
<td>23,400 kg</td>
</tr>
<tr>
<td><strong>Volume</strong></td>
<td>6m³</td>
</tr>
<tr>
<td><strong>Engine model</strong></td>
<td>Cat C71 ACERT™ TIER 3</td>
</tr>
<tr>
<td><strong>Gross power</strong></td>
<td>SAE J1995 168 kW / 228 hp</td>
</tr>
<tr>
<td><strong>Articulation</strong></td>
<td>42.5 degrees</td>
</tr>
<tr>
<td><strong>Tyres</strong></td>
<td>14.00R20</td>
</tr>
</tbody>
</table>

*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 converter
- 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 5,000 L diesel fuel tank
- 4 x 300 L oil tanks
- Provision for 1 x grease container

**Optional features:**
- 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

---

**WR810 Water Cannon**

**Standard features:**
- Cat powertrain
- Cat C7.1 TIER 3 engine arrangement
- All wheel drive with lock-up torque converter
- 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
- Automatic boom retract function for transport
- Water cannon on extendable boom with reach of approx. 8m

**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**

<table>
<thead>
<tr>
<th><strong>Standard features</strong></th>
<th><strong>Optional features</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>GVM* 24,750 kg</td>
<td>Boom movement, 32 degrees up, 10 degrees down, 95 degrees left and 95 degrees right from centre</td>
</tr>
<tr>
<td>Diesel tank 5000L</td>
<td>Dual application water cannon and water truck for dust suppression</td>
</tr>
<tr>
<td>Oil tanks 4 x 300L</td>
<td>Boom and water cannon controlled by either tethered remote or in cab</td>
</tr>
<tr>
<td>Engine model Cat C71 ACERT™ TIER 3</td>
<td>Cameras - multiple viewing options available</td>
</tr>
<tr>
<td>Gross power SAE J1995 168kW / 228 hp</td>
<td></td>
</tr>
<tr>
<td>Articulation 42.5 degrees</td>
<td></td>
</tr>
<tr>
<td>Tyres 14.00R20</td>
<td></td>
</tr>
</tbody>
</table>

*Approximate only. GVM dependent on product configuration.

---

**SPECIFICATION SNAPSHOT**

<table>
<thead>
<tr>
<th><strong>Standard features</strong></th>
<th><strong>Optional features</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>GVM* 28,660 kg</td>
<td>Enclosed climate controlled operator station with 24V DC aircon system</td>
</tr>
<tr>
<td>Water tank 8000L</td>
<td>DPF exhaust muffler</td>
</tr>
<tr>
<td>Engine model Cat C71 ACERT™ TIER 3</td>
<td>Front suspension</td>
</tr>
<tr>
<td>Gross power SAE J1995 168kW / 228 hp</td>
<td>High speed fluid change</td>
</tr>
<tr>
<td>Articulation 42.5 degrees</td>
<td>Cat C7.1 TIER 4F engine arrangement</td>
</tr>
<tr>
<td>Tyres 14.00R20</td>
<td>Fire suppression system</td>
</tr>
<tr>
<td>Water pressure approx. 150 psi</td>
<td>Automatic lubrication system</td>
</tr>
<tr>
<td>Water flow approx. 2,700 L/min</td>
<td>Wireless remote controlled boom and water cannon</td>
</tr>
<tr>
<td>Water cannon nozzle size 38mm (1½)</td>
<td></td>
</tr>
</tbody>
</table>

*Approximate only. GVM dependent on product configuration.
**SPECIFICATION SNAPSHOT**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>GVM*</td>
<td>38,775 kg</td>
</tr>
<tr>
<td>Water capacity (minimum)</td>
<td>8,200 L</td>
</tr>
<tr>
<td>Engine model</td>
<td>Cat C11 ACERT™ TIER 3</td>
</tr>
<tr>
<td>Gross power</td>
<td>SAE J1995 242kW / 325 hp</td>
</tr>
<tr>
<td>Articulation</td>
<td>42.5 degrees</td>
</tr>
<tr>
<td>Water pressure approx.</td>
<td>150 psi</td>
</tr>
<tr>
<td>Water flow approx.</td>
<td>2,700 L/min</td>
</tr>
<tr>
<td>Water cannon nozzle size</td>
<td>38mm (1½)</td>
</tr>
<tr>
<td>Tyres</td>
<td>18.00R25</td>
</tr>
</tbody>
</table>

*Approximate only. GVM dependent on product configuration.*

**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 degrees up, 10 degrees down, 90 degrees left and 90 degrees right from centre
- Automatic boom retract function for transport
- Tramming 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 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
- Climate controlled enclosed operator station
- Fire suppression system
- DPF exhaust muffler
- Hydraulically controlled collapsible height FOPS cab to obtain low profile machine
- Water level and pressure on in cab control screen
- Water flow control, water level and pressure on in cab control screen
- Automatic water pump shutdown when tank is empty

**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 Water Tank**

**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 degrees

**Tyres** 18.00R25

*Approximate only. GVM dependent on product configuration.*

**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 water spray heads (1 horizontal & 2 vertical (1 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

**Optional features:**
- Wireless remote controlled boom and water cannon
- Automatic water pump shutdown when tank empty
- 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
- Climate controlled enclosed operator station
- Fire suppression system
- DPF exhaust muffler
- Water cannon (joystick controlled from cab)
- Cameras - multiple viewing options available

**WR820 Water Cannon**
WR820 Agitator 10m³

**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
- 10m³ agitator bowl including 2 x access covers and 2 x 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
- 200L water tank with water hose reel
- 300L chemical tank
- Cameras - multiple viewing options available

**SPECIFICATION SNAPSHOT**

<table>
<thead>
<tr>
<th>GVM*</th>
<th>50,095 kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>Volume</td>
<td>10m³</td>
</tr>
<tr>
<td>Engine model</td>
<td>Cat C11 ACERT® TIER 3</td>
</tr>
<tr>
<td>Gross power</td>
<td>SAE J1995 242kW / 325 hp</td>
</tr>
<tr>
<td>Articulation</td>
<td>42.5 degrees</td>
</tr>
<tr>
<td>Plant mix mode agitator bowl speed</td>
<td>0-19 rpm</td>
</tr>
<tr>
<td>Transit mode agitator bowl speed</td>
<td>0-8 rpm</td>
</tr>
<tr>
<td>Tyres</td>
<td>18.00R25</td>
</tr>
</tbody>
</table>

*Approximate only. GVM dependent on product configuration.

WR820 Agitator 8m³

**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
- 8m³ agitator bowl including 2 x access covers and 2 x 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
- 200L water tank with water hose reel
- 300L chemical tank
- Cameras - multiple viewing options available

**SPECIFICATION SNAPSHOT**

<table>
<thead>
<tr>
<th>GVM*</th>
<th>42,200 kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>Volume</td>
<td>8m³</td>
</tr>
<tr>
<td>Engine model</td>
<td>Cat C11 ACERT® TIER 3</td>
</tr>
<tr>
<td>Gross power</td>
<td>SAE J1995 242kW / 325 hp</td>
</tr>
<tr>
<td>Articulation</td>
<td>42.5 degrees</td>
</tr>
<tr>
<td>Plant mix mode agitator bowl speed</td>
<td>0-19 rpm</td>
</tr>
<tr>
<td>Transit mode agitator bowl speed</td>
<td>0-8 rpm</td>
</tr>
<tr>
<td>Tyres</td>
<td>18.00R25</td>
</tr>
</tbody>
</table>

*Approximate only. GVM dependent on product configuration.
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

Optional features:
- Low profile ROPS/FOPS enclosed cabin with air conditioning
- C71 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

UG20K Motor Grader

UG20M Motor Grader

Standard features:
- 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

Speciesification snapshot:

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

*Approximate only. GVM dependent on product configuration.

Speciesification snapshot:

<table>
<thead>
<tr>
<th>GVM*</th>
<th>18,000 kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>Engine model</td>
<td>Cat C71 ACERT™ TIER 4 Interim</td>
</tr>
<tr>
<td>Gross power</td>
<td>SAE J1995 108-141kW / 145 - 189 hp</td>
</tr>
<tr>
<td>Frame articulation left/right</td>
<td>20 degrees</td>
</tr>
<tr>
<td>Steering range left/right</td>
<td>47.5 degrees</td>
</tr>
<tr>
<td>Turning circle inner/outer**</td>
<td>63/235° / 1600 / 5969 mm</td>
</tr>
<tr>
<td>Overall length**</td>
<td>320” / 8128 mm</td>
</tr>
<tr>
<td>Width over front tyres</td>
<td>98.9” / 2511 mm</td>
</tr>
<tr>
<td>Tyres (Tubeless)</td>
<td>14.00R24 Bridgestone VUT * L2</td>
</tr>
</tbody>
</table>

*Approximate only. GVM dependent on product configuration. ** Shortened Wheelbase
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 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 prevention and optional WAVS camera at the rear and high intensity HID lights.

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 along with a hood tilt switch and other electrical isolators.

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**

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

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