











DUAL CAPABILITY AND RELIABLE PERFORMANCE.

Machine Safety

With safety as a priority, the E10 is engineered with onboard machine diagnostics for rapid fault identification, increasing the availability and productivity of the machine. The certified ROPS/FOPS airconditioned operator cabin seats three persons comfortably. The ergonomic controls, excellent visibility, and LED lighting increase safety and reduce operator fatigue. The oscillating hitch, front suspension (optional) and air-ride seats provide unrivalled comfort for the operator. The electro-magnetic braking retarder, adjustable from the operator's seat, provides superior and reliable braking capability.

Maintenance and Serviceability

A forward-tilting cabin, swing-out radiator grill, hinged engine bonnet cover, and hinged exhaust module, provide safe access for maintenance. Ground level access to service points reduce risk and time spent checking the machine status.

Machine Application

The E10 Water Cannon is a dual application machine. As a production machine, the water cannon uses high pressure water to blast and wash valuable ore fines from difficult to access areas of the mine. Additionally, the water cannon can wash down the internal surfaces prior to the shotcrete process to recover ore fines. As a support machine, the high pressure water cannon can be used to unblock open stopes by blasting the fines and smaller rocks away and dislodging the remaining material. Water Spray valves mounted at the rear and sides of the tank suppress dust from the haul roads improving the operating conditions and resulting in improved health and safety. In case of a fire emergency, the water cannon can be used to fight the fire from a safe distance.

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DUAL CAPABILITY WATER CANNON & DUST SUPRESSION.

Machine application

The E10 Water Cannon is a dual application machine providing both production and support capabilities.

Production capabilities

» Ore recovery: Using high pressure water to blast and wash valuable ore fines from difficult to access areas of the mine and internal surfaces prior to the shotcrete process.

Support capabilities

- » Suppress dust: Uses the spray valves mounted at the rear and sides of the tank to suppress the dust from the haul roads improving health and safety in general within the operation.
- » Remove hang-ups: The material blocking the stope can be dislodged by blasting the fines and smaller rocks away, leaving the remaining material to fall into the draw point. The operator can manoeuvre the boom and water cannon from a safe distance using a hand held remote control and strategically placed cameras, thus reducing operational risk.
- » Respond to a fire emergency: In case of an emergency the Water Cannon can be used to fight the fire from a safe distance using the hand held remote control or even from the safety of the enclosure operator cabin.





Water cannon assembly

- » Integrated cannon / dust suppression assembly.
- » Hydraulically actuated cannon isolation valve.
- » Sacrificial coupling on cannon nozzle.
- Spring return cable reels for electric / hydraulic boom supply cables.
- » Shear bolts and flexible coupling to protect boom and water supply cylinder.
- » 27mm (1.06in) nozzle or 38mm (1.5in) nozzle available.
- » Operating nozzle pressure of 9.6 bar (140psi).

Dust suppression system

- » Road speed monitoring varies water output based on vehicle speed to prevent over watering.
- » 38mm (1.5in) hydraulic double acting side water spray valves with vertical spray pattern.
- » 75mm (3in) hydraulic double acting rear water spray valve with horizontal spray pattern.
- » Programmable from 0.10 to 0.30 litres/m2.





SUPERIOR DESIGN & PERFORMANCE.

Heavy duty front frame

The robust, heavy-duty, and purpose design front frame utilises a high tensile steel construction with an average plate thickness of 20mm (0.80in). The frame design is common to both front and centre-mounted operator cabin options, both engine options and the option of front suspension or rigid axle. The front suspension mounting points and fuel tank are incorporated into the common frame.

Water tank

The monocogue chassis design integrates the tank into the rear frame structure. The tank is baffled to reduce water surging when in transit and on grade. The tank structure uses high tensile steel in high stress areas and the low profile design reduces the centre of gravity for increased stability. The rear of the water tank chassis houses the water pump, control valves, water suction and supply pipework, and the grease system for automated grease to boom assembly.

Electro-magnetic retarder

Fitted to the rear frame, the electronically controlled retarder provides superior braking performance on grade, featuring diagnostic capabilities with alarm and fault conditions reported back to the operator display. The integrated Retarder Control System (iRCS) combines both the control and power functions into a single unit. The innovative electronic design significantly reduces the retarder's energy consumption, preserving electric circuits. The retarder is controlled via an integrated multi-function joystick controller located on the operator's right-side armrest.

Oscillating hitch

The oscillating hitch provides superior operator comfort, 4-wheel ground contact and reduced wear on the hitch and steering components. Includes a heavy duty 600mm (1ft 11in) deep frame section through oscillating hitch area with +/-42.5° steering articulation and +/- 10° oscillation.

Water supply system

- » External water tank level indictor, water and hydraulic motor pressure gauges.
- Rubber expansion joints at all water supply pipework connections.
- Pressure relief protection for water circuit.
- » Electronically controlled water flow valve to maintain constant water coverage on road.
- » 75mm (3in) tank drain ball valve.
- » 25mm (1in) tank sump drain plug.
- » Large removable tank access cover at rear of machine.
- Dual internal tank overflow pipes in front of rear axle.

Water cannon control options

- » Operated from the cabin using the integrated multi-function joystick controller located on the operator's right-side armrest. The operator can either swivel the seat 90° to view operation through the rear window or monitor via an onscreen display and camera mounted on the cannon nozzle.
- Tethered control on 7.5m (24ft 7.3in) retractable cable reel (standard).
- Remote control with 68mm (2.7in) colour screen and range up to 100m (328ft) (optional).
- Control units are stored in the water tank rear compartment.





COMFORTABLE AND EASY TO OPERATE.

Two cabin configurations available

Fitted with a standard 3-seat open cabin, the E10 is also available with an optional air-conditioned, 3-seat enclosed cabin (pictured above). The enclosed cabin features ergonomics for operator comfort, user-friendly intuitive controls, and excellent 360-degree visibility.

The cabin includes the following features:

- » ROPS/FOPS certified design.
- » 300mm (12in) touch screen operator display.
- » Fingertip controls mounted to operators seat.
- » 3 full size seats. Air-ride suspension seat standard for driver, non-suspended seats for occupants. Optional Air-ride suspension seats for all persons.
- » Air conditioning and optional cab pressurisation.
- » Seat belts with occupant detection systems (operator seat).
- » Forward tilting cab for ease of maintenance.
- » Emergency stop inside cab.

Integrated multi-function joystick controller

The operator's right arm rest features an integrated multifunction joystick controller providing finite control in transit for speed and machine braking performance.

Transmission controls

The keypad transmission control is conveniently located near the operator's right hand, with forward and reverse gears changed effortlessly with finger touch accuracy reducing driver fatigue.

Seating arrangements

The standard seating arrangement includes a centre driving position with two additional trainer/work-crew seats. The driver's seat is a 'T' seat with air suspension, and the crew seats are a standard 'T' seat or optional 'T' seat with air suspension. A storage compartment is optional if trainer/work-crew seating is not required. Retractable seat belts are standard with an occupancy indicator alarm system available as an option. The alarm is activated if the seat belt is not fastened as the machine brakes are released.

Steering column

The steering column can be adjusted to an ergonomic position for maximum operator comfort by tilting or extending the column.

Tilted cab mounting

The cabin is resiliently mounted to the machine chassis, reducing vibration for greater operator comfort and a quieter ride. The

cabin tilts and locks into position with supports for safe and easy maintenance.

Touch screen operator display

The 300mm (12in) touch screen displays vital machine status information. Data collected includes engine coolant and transmission oil temperature, pitch and roll indicators, engine oil pressure, engine speed, an integrated camera system (up to 4x), and vehicle speed and fuel level.

Machine health monitoring system

The monitoring system and alarm strategy provides a 3-tier warning and shutdown functionality alerting the operator of any abnormalities and automatically limits the machine's functions.





OPERATOR SAFETY IS OUR PRIORITY.

Product safety

The E10 Water Cannon is designed with safety as a priority.

Machine isolation

All engine and machine isolation functions are conveniently located on one panel accessible from ground level. Switches have been designed to incorporate the requirement for the site tag in/out machine isolation process.

- » Battery isolation switch.
- » Starter isolation switch.
- » Jump start receptacle.
- » Fire system activation (optional).

Cabin protective structure

The operator cabin has an integrated Rollover Protective Structure (ROPS) certified to ISO 3471:2008 and Falling Object Protective Structure (FOPS) certified to ISO 3449:2005.

Handrails

Handrails are fitted standard in accordance with ISO 2867:2011. All handrails are painted green and designed for 3-point access to cab and machine.

Steering

Full hydraulic controlled steering via opposed cylinders at the oscillating hitch. Secondary emergency steering is also provided as standard.

Service brakes are hydraulic applied wet disc brakes. Emergency brakes are spring applied hydraulic release at the wheel ends. Braking systems meet ISO 3450:2011.

Additional safety features

- » Anti-skid step surfaces.
- Inertia reel retractable seat belt.
- Steering frame lock.
- Electrical wiring segregation from all hydraulic hosing.
- Fire resistant wiring.
- Firewall / heatshields.
- Machine interlocks (Battery and Starter) for additional protection.
- » Integrated fire suppression systems (optional).
- Hydraulic hosing covered with burst protection sleeves.
- Door ajar warning (Operator Presence) systems.
- Door lighting for better step visibility.
- Window egress cord for ease of cab window removal.
- Rear view cameras.
- » Park brake interlocking.

Ground level servicing access

Allows convenient servicing to tanks, filters, lubrication points and compartment drains.



DELIVERS POWER, PERFORMANCE AND DURABILITY.

C7.1 engine

The Cat C7.1 uses Caterpillar's breakthrough ACERT™ Technology to meet exhaust emission reduction standards. It features efficient fuel delivery, air management and electronic control for high productivity and exceptional service life.

The C7.1 ACERT Tier 3 engine arrangement rated at 168 kW (225hp) is standard for regions that may not have Ultra Low Sulphur Fuel or more stringent emission regulations. An optional diesel particulate filter can be fitted.

The C7.1 ACERT Tier 4 Final engine arrangement is available as an option, adhering to EU Stage V exhaust emission standards. This arrangement is offered in a dual horsepower configuration and can be set at 151kW (202hp) for the higher performance rating or the lower reduced ventilation rating at 129kW (173hp) through a simple software change performed by your Caterpillar Dealer.

ADEM A4 engine control module

The ADEM A4 module controls the fuel injector solenoids to monitor fuel injection. It also provides automatic altitude compensation, and will not allow the engine to start until it has oil pressure, acting as cold start protection and a form of pre-lube.

Maintenance

The C7.1 engine reduces costs and downtime with 500-hour oil change intervals. The E10 is equipped with Caterpillar high efficiency oil filters, a design which doubles efficiency without increasing the change interval.

Engine protection system

An engine protection system is fitted that will shut down the engine if low engine oil pressure, low coolant level, or coolant over temperature conditions are experienced.

Commonality

The Caterpillar C7.1 engine is found in several Caterpillar products and applications such as Medium Wheel Loaders, Excavators, Motor Graders, Marine and Industrial services. This means the E10 shares component commonality across many applications, providing the highest level of reliability and durability, as well as superior parts availability worldwide through the Caterpillar Dealer Network.







PERFORMANCE AND RELIABILITY IN TOUGH CONDITIONS.

Caterpillar five-speed transmission

The field proven Cat power shift countershaft transmission easily matches engine power to the load size and ground conditions. Gear changes are simplified with ergonomically positioned electronic fingertip controls, reducing operator fatique.

Electro-magnetic retarder

Fitted to the rear frame, the electronically controlled retarder provides superior braking performance on grade, featuring diagnostic capabilities with alarm and fault conditions reported back to the operator display. The integrated Retarder Control System (iRCS) combines both the control and power functions into a single unit. The innovative electronic design significantly reduces the retarder's energy consumption, preserving electric circuits. The retarder is controlled via an integrated multi-function joystick controller located on the operator's right-side armrest.

Reduced shifting

The multiplication capability of the torque converter reduces the need for the operator to continually shift the transmission. This reduces operator effort and improves machine productivity.

All wheel drive (AWD)

All-wheel drive provides excellent power distribution, increases traction of the machine reducing tire slippage, improving performance, handling and manoeuvrability in tough and challenging terrain.

Front and rear axles

The front axle is rigid mounted design with front suspension available as an option. The rear axle is rigidly mounted to the rear frame.

Tyres

Tyres are an integral part in a machines ability to carry it's load at higher speeds. Fitted with the larger 14:00 R20 Radial tires ensures the E10 stays within the tires TKPH limits. This allows the E10 to carry larger loads at faster speeds than conventional utility equipment.

Service brakes

Hydraulically applied spring release brake system. Brake components are oil immersed inside the axles, protecting them from contamination. Modulated braking provides smooth deceleration for precision stopping and operator control.

Parking brake

The parking brake is a spring applied oil released "fail to safe" enclosed wet disc on all 4-wheel ends.



Brake design

With large discs and plates for reliable, adjustment free operation and performance. Oil cooled disc brakes are completely enclosed to prevent contamination and reduce maintenance.

Emergency braking

When the E10 safety system detects loss of critical drive pressure or brake pressure the operator will receive a warning and then the parking brake system will be safely apply.

Load sensing

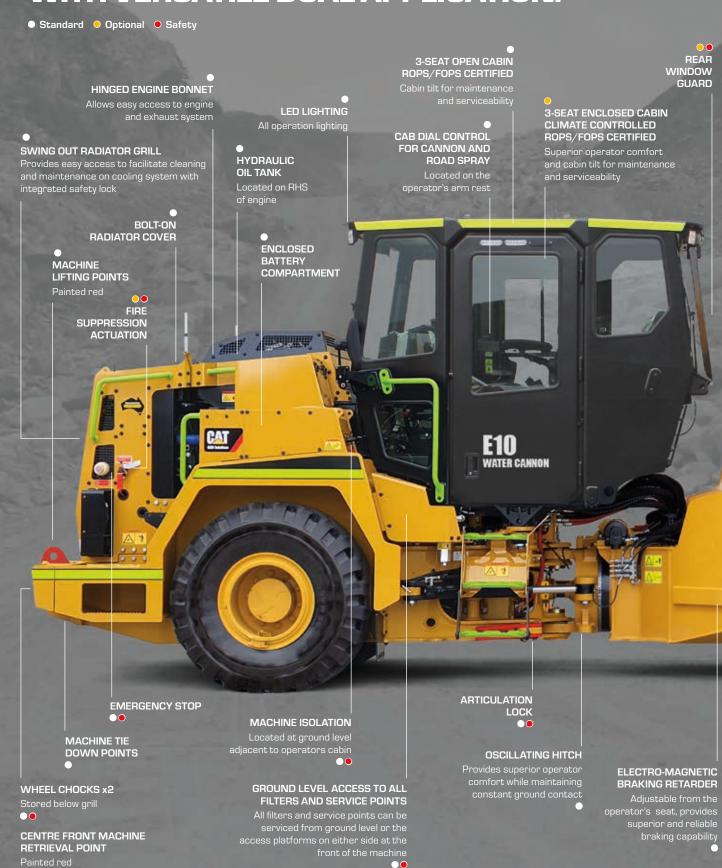
A load sensing variable displacement pump and pressure compensating system continually monitor hydraulic power requirements, then provides power based on demand. This improves fuel economy and reduces emissions.

Other features include suction circuits, pump case-drain and steering return, filtered fan/brake pressure circuit, and open loop hydraulic system.



Painted red

INCREASED PRODUCTIVITY & RELIABILITY WITH VERSATILE DUAL APPLICATION.



CAMERA TO VIEW BOOM **NOZZLE FITTED WITH** REMOTE AUTOMATED BOOM LIGHT AND CAMERA PACK UP SOFTWARE ANTI-SURGE HIGH VOLUME FILL PORT Can be installed in one of four locations MULTI-STAGE HEAVY DUTY **DUST SUPPRESSION BOOM TRAVEL** SPRAY HEAD 8000 L (2113 GAL) WORKING VOLUME WATER TANK Baffled to reduce surging when in transit and improve tank strength includes inspection ELECTRO-HYDRAULIC **ROBUST HOSE AND** RETRACTABLE HOSE REELS REEL PROTECTION cleaning hatches (Additional capacity via main water connection) RH EQUIPMENT BAY Located on RHS of machine contains auto lubrication system **HEAVY DUTY ROAD** SPRAY GUARD **HINGED ACCESS HATCHES** FOR BOOM AND CARRIAGE (optional) and water system MAINTENANCE WATER CANNON **BREAKAWAY** COUPLING **ELPHINSTONE**

SIDE WEAR
PROTECTION PLATES

DUAL INTEGRATED TANK
OVERFLOW PIPES

DUAL SIDE ROAD SPRAYS

MONOCOQUE CHASSIS

For increased mass centralisation and lower centre of gravity

Located on both sides of the machine

LH EQUIPMENT BAY

FIRE SUPPRESSION SYSTEM

○ •

PLC CONTROLLED WATER DELIVERY

Road spray mode or high impact cannon mode

REAR MACHINE RETRIEVAL POINTS

DUAL REVERSE AUXILIARY CAMERAS

DUAL REAR EMERGENCY STOP AND FIRE ACTUATORS

Located on both sides of the machine

•



WHEN UPTIME **REALLY COUNTS.**

Renowned Cat dealer support

From helping you choose the right machine to financing and ongoing support, your Cat dealer provides the best in sales and service.

- » Manage your costs with preventive maintenance programs like SOS™ fluids analysis, coolant sampling.
- » Stay productive with best-in-class parts availability.
- our Cat dealer can also help you boost efficiency with operator training.
- When it's time for component replacement, your Cat dealer can help you save even more. Genuine Cat remanufactured parts carry the same warranty and reliability as new products at savings of 40 to 70 percent for powertrain and hydraulic components.
- Technical training and maintenance planning are also part of the Dealer offerings.
- Would you like the Dealer to do more? Programs such as Customer Service Agreements, to a full Maintenance and Repair contract are available.





FUTURE SUSTAINABILITY

THINKING INTO THE FUTURE.

Sustainable waste and cost management

- » Integrated machine systems and technologies improve productivity for greater accuracy, lower fuel use and reduce machine wear.
- » Replaceable wear parts save maintenance time and cost and extend major component life.
- » Ecology drains help make draining fluids more convenient and help prevent spills.
- Major components are built to be rebuilt, eliminating waste and saving customers money by giving the machine and/or major components a second - and even third life rebuilds.
- A variety of safety features help safeguard operators and others on the job.





SERVICEABILITY MEANS MORE TIME FOR PRODUCTION.

Engine access

Forward tilting cabin, swing out radiator grill, hinged bonnet and exhaust module make regular maintenance quick and easy. Easy access to daily service points increases the likelihood that maintenance will be done resulting in increased machine service life. In addition, less maintenance time means more working time and greater productivity.

Frame access

Steps and grab handles positioned for 3-point contact are standard for easy access to the service and operation areas.

Bolt-on guards

Bolt-on guards offer protection to critical components and are easily removable for servicing. Removable floor plates and side plate allow access to components under the cab.

Air filters

Air filters are easy to change, reducing air filter maintenance times.

Extended oil service intervals

A 500-hour oil change interval reduces downtime for service and lowers maintenance costs.

SOS™ fluid sampling valves

Provides a fast, convenient way to gather uncontaminated fluid samples, which improves analysis reliability.

Pressure taps

Conveniently located for easy access to hydraulic system pressure measurements.

Electrical system

The 24V electrical system delivers a reliable electrical capacity for engine starting and additional lighting. Wiring circuits are colour coded and numbered for easy diagnosis and repair. All circuits are protected by circuit breakers. Wiring is double insulated with sealed electrical connectors to prevent moisture and dirt access. Harnesses are covered with fire resistant material for additional protection.

On-board diagnostic systems

The monitoring system continuously checks all critical machine functions and components and helps locate faults quickly for faster repair.

Hitch hoses

- » The pilot hoses, pressure line and load sense lines have all been routed above the hitch and bulk-headed for easy hose replacement and fast service.
- Spin-on oil filters.
- Spin-on fuel and engine oil filters shorten downtime.
- Electronic transfer pump eliminates the need to manually prime the fuel system.

Centralised service centre

A centralised service centre that includes fast fill and evacuation points (optional).



Engine

Engine Tier	Tier 3 - Stand	Tier 3 - Standard Tier 4 Final (Low Power)		Tier 4 Final (High Power)		
Engine Model	Cat C7.1 ACE	Cat C7.1 ACERT (TA)		Cat C7.1 ACERT (TA)		ERT (TA)	
Gross Power SAE J1995	168 kW	225 hp	129 kW	173 hp	151 kW	202 hp	
Displacement	7.0131 L	428 in3	7.0131 L	428 in3	7.0131 L	428 in3	
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 @ 1	400 rpm	842 Nm @ 1	842 Nm @ 1400 rpm 870 Nm @ 1400 rpm		400 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 F	inal	
Alternator	150 amp		150 amp	150 amp 150 amp			
Electrical System	24 V		24 V		24 V	24 V	
Battery - Quantity	2		2		2		
Battery - Volts	12 V	12 V 12 V			12 V		
Battery - Capacity	1000CCA	1000CCA		1000CCA		1000CCA	
Starting System	Direct Electric	C	Direct Electr	ic	Direct Electr	ic	

- ${\mbox{\footnote{h}}}$ 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

i over or ann			
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	powershift	
Steering, Frame Articulation	42.5 degrees		
Brakes - Service Type	'	Hydraulic applied inboard WET disc enclosed	
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)	32,100 kg	70,768 lb
Tare Weight	24,100 kg	53,131 lb

 $[\]ensuremath{^{\star}}\xspace$ Tare weight includes one operator and a full tank of fuel.

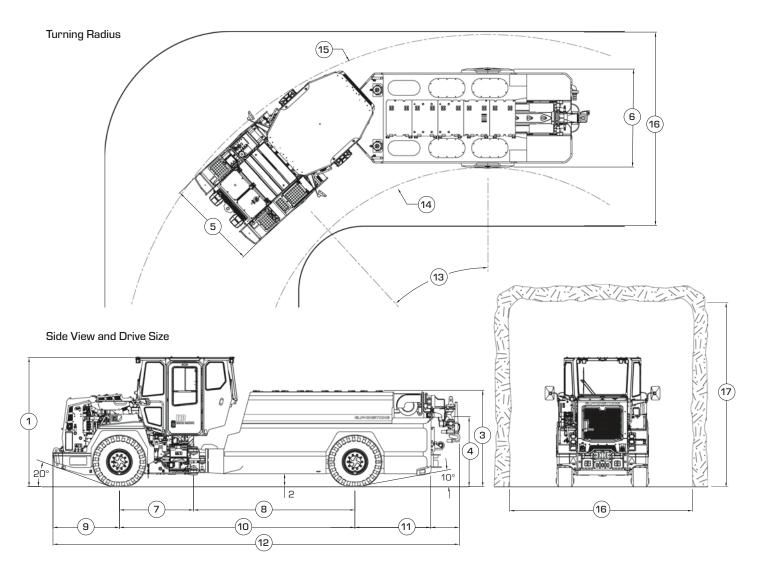
Speed on Grade

Speed on Gr	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 (24,100 kg)	5.7	9.4	14.4	-	-	
1:7 (14%) GVM (32,100 kg)	5.7	9.4	-	-	-	
Cat C7.1 ACERT,	151kW Tie	r 4 Final (H	gh Power)			
Grade		Vehic	le Speed (k	m/h]		
	1st Fwd	2nd Fwd	3rd Fwd	4th Fwd	5th Fwd	
1:7 (14%) Empty (24,100 kg)	5.7	9.4	12.3	-	-	
1:7 (14%) GVM (32,100 kg)	5.7	9.4	-	-	-	
Cat C7.1 ACERT,	129kW Tie	r 4 Final (Lo	ow Power)			
Grade			-			
	1st Fwd	2nd Fwd	3rd Fwd	4th Fwd	5th Fwd	
1:7 (14%) Empty (24,100 kg)	5.7	9.4	10.3	-	-	
1:7 (14%) GVM (32,100 kg)	5.7	8.1	-	-	-	
*Note: 2% rolling resistance						

Water Tank

Camera	2x Reverse / Auxiliary on Rear of Tank, 1x on Top / Front of Tank Facing Rearward	
Drain Valve	76 mm	3 in
Gauge, Pump Pressure	Rear Side of Tan	k
Gauge, Water Level	Rear Side of Tank	
Lights, Work	4x on Rear of Tank	
Port, Top Fill	High Volume Port for Top Filling of Tank	
Port, Side Fill	Filling Tank from Side of Machine	
Spray Head, Rear, 1 x 76 mm (3 in)	Rear / Centre for Dust Suppression	





Water Tank

Spray Head, Side, 2 x 38 mm (1.5 in)	LHS / RHS for Dust Suppression	
Tank, Auto Low Level Shut Off Switch		
Tank, Water	8000 L	2113 gal
Water Cannon		
Boom, Multistage Heavy Duty	10 degrees dow up	n, 32 degrees
Camera	1x on Nozzle	
Hose Reels	Electro-hydrauli	С
Lights, Work	2x on Boom, 1x	on Nozzle

Tethered or Wireless

Standards

Remote Control

ROPS/FOPS	ISO 3471:2008 / ISO 3449:2005
Steering	ISO 5010:2007
Braking	ISO 3450-2011/CSA- M424.3-M90

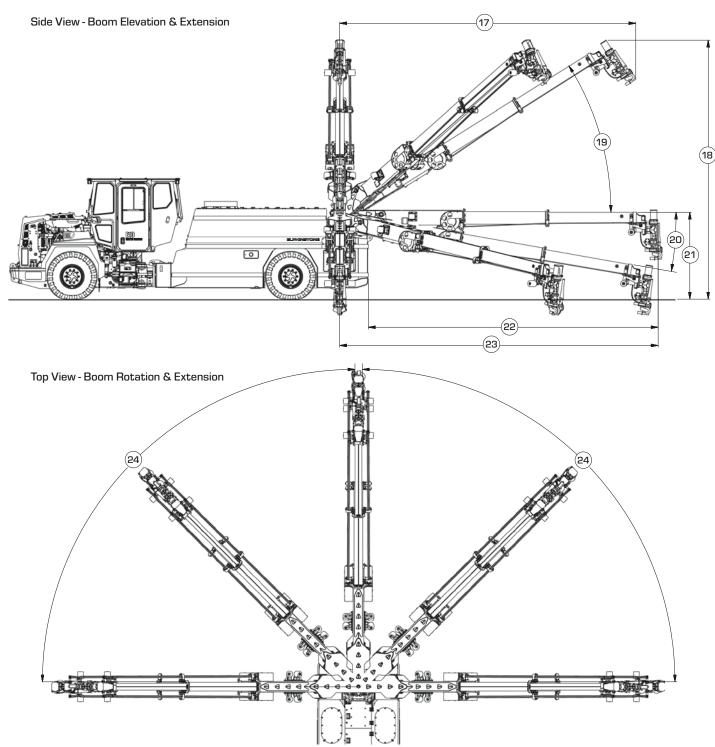
Dimensions

1	Height - Top of Cabin	3000 mm	9 ft 10.1 in
2	Height - Ground Clearance	280 mm	O ft 11 in
3	Height - Top of Tank	2175 mm	7 ft 1.6 in
4	Height - Tank Mid-Section	1575 mm	5 ft 2 in
5	Width - Machine Front Frame	2100 mm	6 ft 10.6 in
6	Width - Machine Rear Frame	2315 mm	7 ft 7.1 in
7	Length - Front Axle to Hitch	1725 mm	5 ft 7.9 in
8	Length - Hitch to Rear Axle	3750 mm	12 ft 3.6 in
9	Length - Front Axle to Bumper	1545 mm	5 ft 1 in
10	Length - Wheel Base	5475 mm	17 ft 11.6 in
11	Length - Rear Axle to Water Cannon	2425 mm	7 ft 11.5 in
12	Length - Overall	9445 mm	30 ft 11.9 in
13	Articulation	42.5 deg	

Drive Size

14	Radius - Inside Clearance - By design	5470 mm	17 ft 11.4 in
15	Radius - Outside Clearance - By design	8600 mm	28 ft 2.6 in
16	Minimum Width Portal (90° corner)	4500 mm	14 ft 9.1 in
17	Typical Minimum Height Portal	4500 mm	14 ft 9.1 in





Boom Dimensions

17	Horizontal Extension - Boom Fully Extended and Raised to Maximum Elevation	7451 mm	24 ft 5.3 in
18	Maximum Vertical Height - Boom Fully Extended and Raised to Maximum Elevation	6415 mm	21 ft
19	Maximum Elevation Angle from the Horizontal Plane	32 deg	
20	Maximum Negative Elevation Angle from the Horizontal Plane	10 deg	
21	Vertical Height of Boom when Level	2095 mm	6 ft 10.5 in
22	Maximum Horizontal Extension - Boom Fully Extended and Level Measured from the Back Vertical Surface of the Tank	7295 mm	23 ft 7.2 in
23	Maximum Horizontal Extension - Boom Fully Extended and Level Measured from the Centre of the Pivot Point on Turntable	8017 mm	26 ft 3.6 in
24	Half Rotation Movement of the Boom in the Horizontal Plane	90 deg	



Powertrain

Air Cleaner, 2-Stage With Integral Pre-Cleaner	•
All Wheel Drive with Lock-up Torque Converter	•
Axle Breathers, Remote Mounted	•
Brakes - Parking, Four Wheel Spring Applied, Enclosed Disc	•
Brakes - Service, Four-Wheel Pressure Applied Enclosed Disc	•
Brake - Driveline, Electromagnetic Retarder	•
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	0
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)	0
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
Autifucana	

Antifreeze

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

Operator Environment

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	•
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	0
Seat Belt, 3x Retractable	•
Seat, T-Seat, Air Suspension, Operator	•

Operator Environment

Operator Entri criment	
2x Seat, T-Seat, Air Suspension, Companion	•
Seat Covers, Operator and Companion	0
Steering Wheel, Tilt and Telescoping	•
Instrumentation, Gauges	
Brake, Accumulator Pressure	•
Brake, Oil Pressure	•
Diesel Exhaust Fluid (DEF) (Tier 4 Final Only)	0
Engine, Coolant Temperature	•
Engine, Oil Pressure	•
Fuel, Level	•
Hydraulic, Oil Temperature	•
Pressuriser Air Filter, High Efficiency Particulate Air	0
Pressuriser Air Filter, Activated Charcoal	•
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	•
Batteries, Maintenance Free (2x1000 CCA)	•
Battery Isolation, Lockable Disconnect Switch (4 Pole)	•
Camera / Monitor, Reversing	• •
Diagnostic Connector	•
Emergency Stop - Cabin	• •
Emergency Stop - Ground Level, LH Side Front	• •
Emergency Stop, Additional, RH Side Front	0
Emergency Stop, Fitted Both Sides on Rear of Tank	• •
Horn, Warning	•
Lights, Beacon (LED), Cab Mounted (Amber/Red/Blue)	• •



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 (2 Post)	•
Starting and Charging System, 24 V	•

Hydraulics

Case Drain Return Screen	•
Closed Center-load Sensing System	•
Hydraulic Oil Cooler	•
Hydraulic Oil Filling System, Filtered	0
Line Filter, Full Flow Return	•
Suction Screen	•

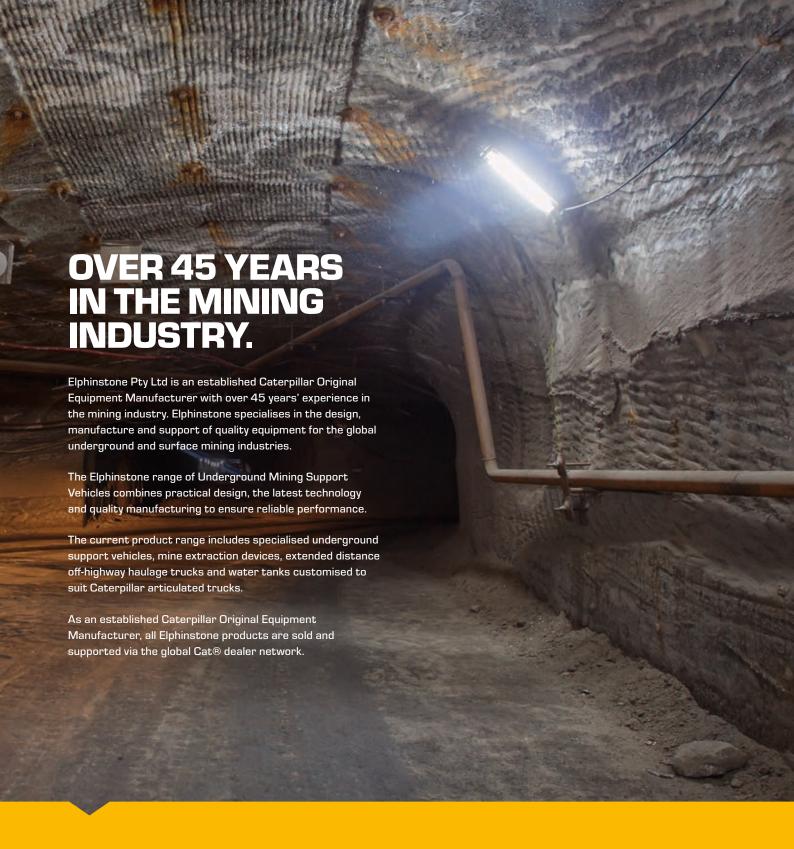
Water Tank and Work Tools

vvater lank and vvork loois	
Boom, Automatic Pack Up Function	•
Breakaway Points for Water Cannon Nozzle	•
Camera, Fitted to Nozzle	•
Camera, Fitted to Front/Top of Tank To View Boom	•
Drain Valve, 76 mm (3 in)	•
Electro-Hydraulic Hose Reels on Boom	•
Emergency Stop, Fitted Both Sides on Rear of Tank	••
Fill Port, Side Ground Level	•
Fill Port, Top, Anti-surge	•
Heavy Duty Monocoque Chassis/Water Tank 8000L	•
Multistage Heavy Duty Boom	•
Overflow Pipes, Dual Internal	•
Pump-Water Pressure Gauge	•
Remote Control, in Cab (Boom & Water Cannon)	•
Remote Control, Tethered with Retractable Cable Reel (Boom & Water Cannon)	•
Remote Control, Wireless (Boom & Water Cannon)	0
Spray Head - Rear, Centre, 76 mm (3 in)	•
Spray Head - Rear, Both Sides, 38 mm (1.5 in)	•
Tank, Automatic Low Level Shut Off Switch	•
Tank Level Gauge	•
Water Cannon with Tilt and Slew, Variable Water Output	•
Water Pump, Centrifigal - High Volume	•
Water Pump, Hydraulic Motor Pressure Gauge	•
Work Lights, Mounted at Rear of Tank	•
Work Lights, Mounted on Boom	•
Work Light, Mounted on Nozzle	•
Operator Display	
Dust Suppression Water Output Rate (Variable)	•
Pump, Control Metrics	•
Tank, Low Level Alarm	•
Tank, Level Indicator	•
Visual Indicator, Active Spray Head	•

Other

3	
Brakes, Park, Onboard, Release for Machine Retrieval	••
Engine, Enclosures, Hinged	•
Film, GP Reflective, Flourescent Yellow	••
Film, GP Reflective, Flourescent Orange	0
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	0
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	0
Wheel Chocks	••





E10 WATER CANNON

For more complete information on Elphinstone products, dealer services, and industry solutions, visit www.elphinstone.com or contact your local Cat dealer.

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