







### **Engine**

Engine Tier	Tier 3 - Standard		Tier 4 Final (High Power)		Tier 4 Final (Low Power)	
Engine Model	Cat C7.1 ACERT (TA)		Cat C7.1 ACERT (TA)		Cat C7.1 ACERT (TA)	
Gross Power SAE J1995	168 kW	225 hp	151 kW	202 hp	129 kW	173 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 @ 1400	1028 Nm @ 1400 rpm 870 Nm @ 1400 rpm 842		842 Nm @ 1400	42 Nm @ 1400 rpm	
Derating Altitude	3000 m	9843 ft	3000 m	9843 ft	3000 m	9843 ft
Emission Certification	EPA Tier 3		EPA Tier 4 Final		EPA Tier 4 Final	
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 Electric		Direct Electric	

- $\boldsymbol{\cdot}$  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	6.2 km/h	3.9 mph	
Travel Speed - Fwd. 2nd	10.2 km/h	6.3 mph	
Travel Speed - Fwd. 3rd	16.4 km/h	10.2 mph	
Travel Speed - Fwd. 4th	21.9 km/h	13.6 mph	
Travel Speed - Fwd. 5th	35.1 km/h	21.8 mph	
Travel Speed - Rev. 1st	6.2 km/h	3.9 mph	
Travel Speed - Rev. 2nd	10.2 km/h	6.3 mph	
Travel Speed - Rev. 3rd	21.9 km/h	13.6 mph	
Torque Converter Type	Lock-up clutch		
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	16.00 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	20.5 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
Bowl Geared Head	8 L	2.1 gal
Diesel Exhaust Fluid (DEF) (Tier 4 Final Only)	16 L	4.2 gal

## Weights

Gross Vehicle Weight (GVM)	37,000 kg	81571 lb
Tare Weight	20,000 kg	44092.5 lb

 $<sup>\</sup>ensuremath{^{\star}} \textsc{Tare}$  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 (20,000 kg)	6.2	10.2	16.4	16.9	-	
1:7 (14%) GVM (37,000 kg)	6.2	9.3 -		-	-	
Cat C7.1 ACERT,	151kW Tie	r 4 Final (H	igh Power)			
Grade	Vehicle Speed (km/h)					
	1st Fwd	2nd Fwd	3rd Fwd	4th Fwd	5th Fwd	
1:7 (14%) Empty (20,000 kg)	6.2	10.2	14.4	-	-	
1:7 (14%) GVM (37,000 kg)	6.2	7.9	-	-	-	
Cat C7.1 ACERT,	129kW Tie	er 4 Final (L	ow Power)			
Grade		Vehic	le Speed (k	m/h]		
	1st Fwd	2nd Fwd	3rd Fwd	4th Fwd	5th Fwd	
1:7 (14%) Empty (20,000 kg)	6.2	10.2	12.7	-	-	
1:7 (14%) GVM (37,000 kg)	6.2	7.0	-	-	-	
*Note: 2% rolling re	*Note: 2% rolling resistance					

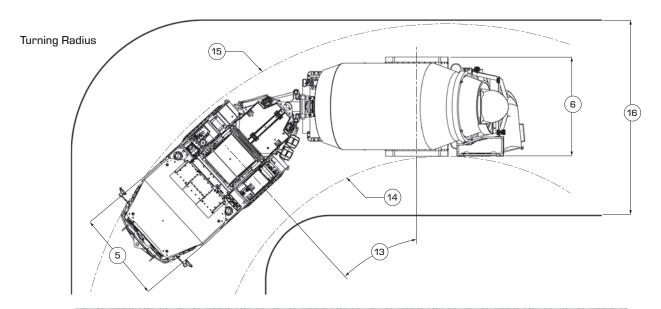
### **A**ditator

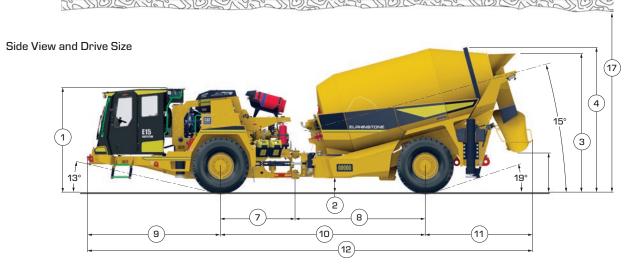
Agitatui						
Drum Volume						
100% Drum Volume				10.9m3		
Rated Capacity to AS 1792-1991 (65%)				7.1m3		
Retained Capacity /	Nomina N	ıl			7m3	
Bowl Capacities						
Material SG (kg/m³)	2000	2100	2200	2300	2400	2500
Max. Fill Capacity (m³)	8.4	8.0	7.6	7.3	7.0	6.7

### **Standards**

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







## **D**imensions

1	Height - Top of Cabin	2445mm	8 ft 0.3 in
2	Height - Ground Clearance	350mm	1 ft 1.8 in
3	Height - Top of Feed Chute	3240mm	10 ft 7.2 in
4	Height - Top of Agitator	3335mm	10 ft 11.2 in
5	Width - Machine Front Frame	2100mm	6 ft 10.7 in
6	Width - Machine Rear Frame	2315mm	7 ft 7.1 in
7	Length - Front Axle to Hitch	1725mm	5 ft 7.9 in
8	Length - Hitch to Rear Axle	3000mm	9 ft 10.1 in
9	Length - Front axle to bumper	3090mm	10 ft 1.8 in
10	Length - Wheel Base	4725mm	15 ft 6.0 in
11	Length - Rear Axle to Chute	2515mm	8 ft 3.0 in
12	Length - Overall	10330mm	33 ft 10.7 in
13	Articulation	42.5 deg	

## **Drive Size**

14	Radius - Inside Clearance - By design	4677mm	15 ft 4.1 in
15	Radius - Outside Clearance - By design	7633mm	25 ft 0.5 in
16	Minimum Width Portal (90° corner)	4500mm	14 ft 9.1 in
17	Typical Minimum Height Portal	4500 mm	14 ft 9.1 in



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	•
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	-
	•
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, England, FOPS/ROPS, Climate Captael HVAC System	_
Cabin, Enclosed, FOPS/ROPS, Climate Control HVAC System	0
Cabin, Pressuriser	0
RESPA Recirculation Filter	0
RESPA Recirculation Filter Camera/Monitor, Reversing	••
RESPA Recirculation Filter Camera/Monitor, Reversing Diagnostic Connector	•
RESPA Recirculation Filter Camera/Monitor, Reversing Diagnostic Connector Engine Idle Timer	-
RESPA Recirculation Filter Camera/ Monitor, Reversing Diagnostic Connector Engine Idle Timer Fire Extinguisher 1.5 kg, Hand Held Dry Chemical Powder 3A:40B:E	•
RESPA Recirculation Filter Camera/Monitor, Reversing Diagnostic Connector Engine Idle Timer Fire Extinguisher 1.5 kg, Hand Held Dry Chemical Powder 3A:40B:E LH Side	•
RESPA Recirculation Filter Camera/ Monitor, Reversing Diagnostic Connector Engine Idle Timer Fire Extinguisher 1.5 kg, Hand Held Dry Chemical Powder 3A:40B:E	•
RESPA Recirculation Filter Camera/ Monitor, Reversing Diagnostic Connector Engine Idle Timer Fire Extinguisher 1.5 kg, Hand Held Dry Chemical Powder 3A:40B:E LH Side Fire Extinguisher 1.5 kg, Hand Held Dry Chemical Powder 3A:40B:E	•
RESPA Recirculation Filter Camera/ Monitor, Reversing Diagnostic Connector Engine Idle Timer Fire Extinguisher 1.5 kg, Hand Held Dry Chemical Powder 3A:40B:E LH Side Fire Extinguisher 1.5 kg, Hand Held Dry Chemical Powder 3A:40B:E RH Side	•••
RESPA Recirculation Filter Camera/ Monitor, Reversing Diagnostic Connector Engine Idle Timer Fire Extinguisher 1.5 kg, Hand Held Dry Chemical Powder 3A:40B:E LH Side Fire Extinguisher 1.5 kg, Hand Held Dry Chemical Powder 3A:40B:E RH Side Interior Lamps (LED)	•••
RESPA Recirculation Filter Camera/Monitor, Reversing Diagnostic Connector Engine Idle Timer Fire Extinguisher 1.5 kg, Hand Held Dry Chemical Powder 3A:40B:E LH Side Fire Extinguisher 1.5 kg, Hand Held Dry Chemical Powder 3A:40B:E RH Side Interior Lamps (LED) Mirrors, Rear View	
RESPA Recirculation Filter  Camera/Monitor, Reversing  Diagnostic Connector  Engine Idle Timer  Fire Extinguisher 1.5 kg, Hand Held Dry Chemical Powder 3A: 40B:E LH Side  Fire Extinguisher 1.5 kg, Hand Held Dry Chemical Powder 3A: 40B:E RH Side  Interior Lamps (LED)  Mirrors, Rear View  Seat Belt, 3x Retractable, Occupancy Indicator  Seat, T-Seat, Air Suspension, Operator	
RESPA Recirculation Filter  Camera/Monitor, Reversing  Diagnostic Connector  Engine Idle Timer  Fire Extinguisher 1.5 kg, Hand Held Dry Chemical Powder 3A:40B:E LH Side  Fire Extinguisher 1.5 kg, Hand Held Dry Chemical Powder 3A:40B:E RH Side  Interior Lamps (LED)  Mirrors, Rear View  Seat Belt, 3x Retractable, Occupancy Indicator  Seat, T-Seat, Air Suspension, Operator  2x Seat, T-Seat, Air Suspension, Companion	
RESPA Recirculation Filter Camera/ Monitor, Reversing Diagnostic Connector Engine Idle Timer Fire Extinguisher 1.5 kg, Hand Held Dry Chemical Powder 3A:40B:E LH Side Fire Extinguisher 1.5 kg, Hand Held Dry Chemical Powder 3A:40B:E RH Side Interior Lamps (LED) Mirrors, Rear View Seat Belt, 3x Retractable, Occupancy Indicator Seat, T-Seat, Air Suspension, Operator 2x Seat, T-Seat, Air Suspension, Companion Seat Covers, Operator and Companion	
RESPA Recirculation Filter Camera/ Monitor, Reversing Diagnostic Connector Engine Idle Timer Fire Extinguisher 1.5 kg, Hand Held Dry Chemical Powder 3A:40B:E LH Side Fire Extinguisher 1.5 kg, Hand Held Dry Chemical Powder 3A:40B:E RH Side Interior Lamps (LED) Mirrors, Rear View Seat Belt, 3x Retractable, Occupancy Indicator Seat, T-Seat, Air Suspension, Operator 2x Seat, T-Seat, Air Suspension, Companion Seat Covers, Operator and Companion Steering Wheel, Tilt and Telescoping	
RESPA Recirculation Filter Camera/Monitor, Reversing Diagnostic Connector Engine Idle Timer Fire Extinguisher 1.5 kg, Hand Held Dry Chemical Powder 3A:40B:E LH Side Fire Extinguisher 1.5 kg, Hand Held Dry Chemical Powder 3A:40B:E RH Side Interior Lamps (LED) Mirrors, Rear View Seat Belt, 3x Retractable, Occupancy Indicator 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	
RESPA Recirculation Filter Camera/ Monitor, Reversing Diagnostic Connector Engine Idle Timer Fire Extinguisher 1.5 kg, Hand Held Dry Chemical Powder 3A:40B:E LH Side Fire Extinguisher 1.5 kg, Hand Held Dry Chemical Powder 3A:40B:E RH Side Interior Lamps (LED) Mirrors, Rear View Seat Belt, 3x Retractable, Occupancy Indicator Seat, T-Seat, Air Suspension, Operator 2x Seat, T-Seat, Air Suspension, Companion Seat Covers, Operator and Companion Steering Wheel, Tilt and Telescoping	

Operator Environment	
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	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	
Sel vice Flour, ivieter	
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)	•
Emergency Stop - Cabin	• •
Emergency Stop - Ground Level, LH Side Front	• •
Emergency Stop, Additional, RH Side Front	0
Horn, Warning	•
Lights, Beacon (LED), Cab Mounted (Amber/Red/Blue)	••
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
•	0
Hadio, AIVI/ FIVI/ USB/ Bluetooth	
Radio, AM/FM/USB/Bluetooth  Sealed Electrical Connectors	
Sealed Electrical Connectors	
	•



## **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	•

Agitator	
Bowl, Auxiliary Motor Quick Connection Fittings	•
Bowl, Access Platform/Ladder - Rear LH Side	0
Bowl, Controls, Cabin	•
Bowl, Controls, Fixed, Rear	•
Bowl, Guards	<b>•</b>
Bowl, Lifting Hardware	0
Bowl, Lock	••
Bowl, Maintenance Access Covers	•
Camera, Rear, Discharge Chute, Mounted	0
Chute Extensions, Base/Extension/Placement	•
Tank, Chemical Additive	0
Emergency Stop, Ground Level, RH Side Rear	••
Lights, Work, Rear (LED) x6	•
Water Pump, High Pressure, Hose, Reel, and Lance	0
Water Pump, Low Pressure, Hose, Reel	0
Tank, Chemical Additive	•
Tank, Water	0
Slump Meter Gauge, Rear	0
Operator Display	
Bowl, Speed (RPM)	•
Current Mode of Operation - Plant Mix, Transit Mix, Discharge	•
Slump Meter, Cab	•

## Other

Guici	
Brakes, Park, Onboard, Release for Machine Retrieval	••
Engine, Enclosures, Hinged (Tier 3 Only)	•
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 (16.00 R20)	•
Tyre and Rim, Spare (16.00 R20)	0
Unit Number Placard	0
Wheel Chocks	••



# E15 AGITATOR 7M3

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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HM61780 (01-2024)