







### **Engine**

| Engine Tier              | Tier 3 - Standard |         | Tier 4 Final (      | Tier 4 Final (Low Power) |               | Tier 4 Final (High Power) |  |
|--------------------------|-------------------|---------|---------------------|--------------------------|---------------|---------------------------|--|
| Engine Model             | Cat C7.1 ACE      | RT (TA) | Cat C7.1 ACERT (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 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                        |               | 6                         |  |
| Max Torque @ Rated Speed | 1028 Nm @ 1       | 400 rpm | 842 Nm @ 1400 rpm   |                          | 870 Nm @ 1    | 870 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 F        | 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 Electr       | ic                       | Direct Electr | ic                        |  |
|                          |                   |         |                     |                          |               |                           |  |

- ${\mbox{\footnotesize{$\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   |          |  |
| Transmission                 | 5 fwd / 3 rev<br>countershaft powershift                               |          |  |
| Steering, Frame Articulation | 42.5 degrees   |          |  |
| Brakes - Service Type        | Hydraulic applied inboard<br>WET disc enclosed                         |          |  |
| Brakes - Parking Type        | Internal Spring Applied<br>Hydraulically Released wheel<br>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)<br>(Tier 4 Final Only) | 16 L   | 4.2 gal  |

# Speed on Grade

| 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%)<br>Empty<br>(17,470 kg) | 5.7                          | 9.4           | 15          | 19.1    | -       |  |
| 1:7 (14%) GVM<br>(28,760 kg)      | 5.7                          | 9.4           | 11.6        | -       | -       |  |
| 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%)<br>Empty<br>(17,470 kg) | 5.7                          | 9.4           | 15          | 17.3    | -       |  |
| 1:7 (14%) GVM<br>(28,760 kg)      | 5.7                          | 9.4           | -           | -       | -       |  |
| Cat C7.1 ACERT,                   | 129kW Tie                    | r 4 Final (Lo | ow Power)   |         |         |  |
| Grade                             |                              | Vehic         | le Speed (k | m/h]    |         |  |
|                                   | 1st Fwd                      | 2nd Fwd       | 3rd Fwd     | 4th Fwd | 5th Fwd |  |
| 1:7 (14%)<br>Empty<br>(17,470 kg) | 5.7                          | 9.4           | 15          | -       | -       |  |
| 1:7 (14%) GVM<br>(28,760 kg)      | 5.7                          | 8.9           | -           | -       | -       |  |
| *Note: 2% rolling re              | *Note: 2% rolling resistance |               |             |         |         |  |

### Weights

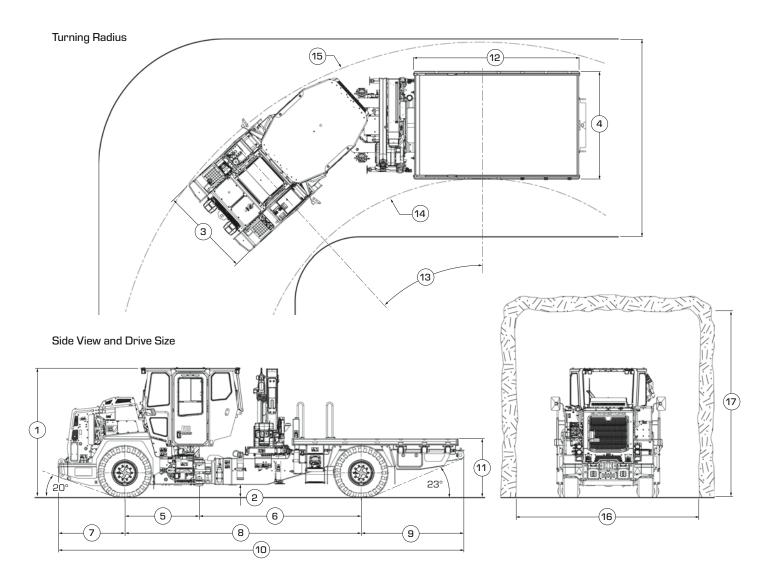
| Gross Vehicle Weight (GVM)     | 28,760 kg | 63,401 lb   |
|--------------------------------|-----------|-------------|
| Tare Weight                    | 17,470 kg | 38,513 lb   |
| HIAB Crane Rated Lift Capacity | 8.8 TM    |             |
| Maximum Payload                | 11,130 kg | 24,537.5 lb |

<sup>\*</sup>Tare weight includes one operator and a full tank of fuel.

# Standards

| ROPS/FOPS  | ISO 3471:2008 / ISO 3449:2005 |
|------------|-------------------------------|
| Steering   | ISO 5010:2007                 |
| Braking    | ISO 3450-2011/CSA-M424.3-M90  |
| HIAB Crane | AS 1418.11-2014               |





# **Dimensions**

|    | il citatoria                    |          |               |
|----|---------------------------------|----------|---------------|
| 1  | Height - Top of Cabin           | 3000 mm  | 9 ft 10.1 in  |
| 2  | Height - Ground Clearance       | 305 mm   | 1 ft          |
| 3  | Width - Machine Front Frame     | 2100 mm  | 6 ft 10.6 in  |
| 4  | Width - Machine Rear Frame      | 2490 mm  | 8 ft 2 in     |
| 5  | Length - Front Axle to Hitch    | 1725 mm  | 5 ft 7.9 in   |
| 6  | Length - Hitch to Rear Axle     | 3750 mm  | 12 ft 3.5 in  |
| 7  | Length - Front Axle to Bumper   | 1545 mm  | 5 ft 1 in     |
| 8  | Length - Wheel Base             | 5475 mm  | 17 ft 11.6 in |
| 9  | Length - Rear Axle to Tow Point | 2385 mm  | 7 ft 9 in     |
| 10 | Length - Overall                | 9405 mm  | 30 ft 10.3 in |
| 11 | Height - Ground to Deck Surface | 1365 mm  | 4 ft 5.7 in   |
| 12 | Length - Deck                   | 3685 mm  | 12 ft 1 in    |
| 13 | Articulation                    | 42.5 deg |               |
|    | *                               |          |               |

## **Drive Size**

| 14 | Radius - Inside Clearance - By design  | 5400 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  |



### Powertrain

| 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)                   | 0 |
| 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 |
| 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<br>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  | 0   |
| Camera/Monitor, Reversing  | • • |
| Diagnostic Connector   | •   |
| Engine Idle Timer  | •   |
| Fire Extinguisher 2.5 kg, Hand Held Dry Chemical Powder<br>3A:40B:E<br>LH Side               | ••  |
| Fire Extinguisher 2.5 kg, Hand Held Dry Chemical Powder<br>3A:40B:E<br>RH Side               | •   |
| Interior Lamps (LED)   | •   |
| Mirrors, Rear View   | •   |
| Occupancy Indicator, Operator  | •   |
| Seat Belt, 3x Retractable  | •   |

### **Operator Environment**

| Operation Environment                                   |   |
|---|---|
| Seat, T-Seat, Air Suspension, Operator                  | • |
| 2x Seat, T-Seat, Air Suspension, Companion              | 0 |
| 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              | 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

| LICCUITCAI  |     |
|---|-----|
| 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, Adjacent to Manual Crane Controls LH Side<br>Rear | ••  |
| Emergency Stop, Adjacent to RH Deck Access                        | • • |
| Emergency Crane Stop, Manual Crane Controls                       | ••  |
| Emergency Crane Stop, Remote Crane Controls                       | ••  |
|   |     |



### **Electrical**

| Emergency Stop, Additional, RH Side Front               | •  |
|---|----|
| 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  |
| Radio, AM/FM/USB/Bluetooth                              | •  |
| Sealed Electrical Connectors                            | •  |
| Starter, Electric, Heavy Duty                           | •  |
| Starter Isolator, Lockable Disconnect Switch (4 Pole)   | •  |
| 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                         | • |

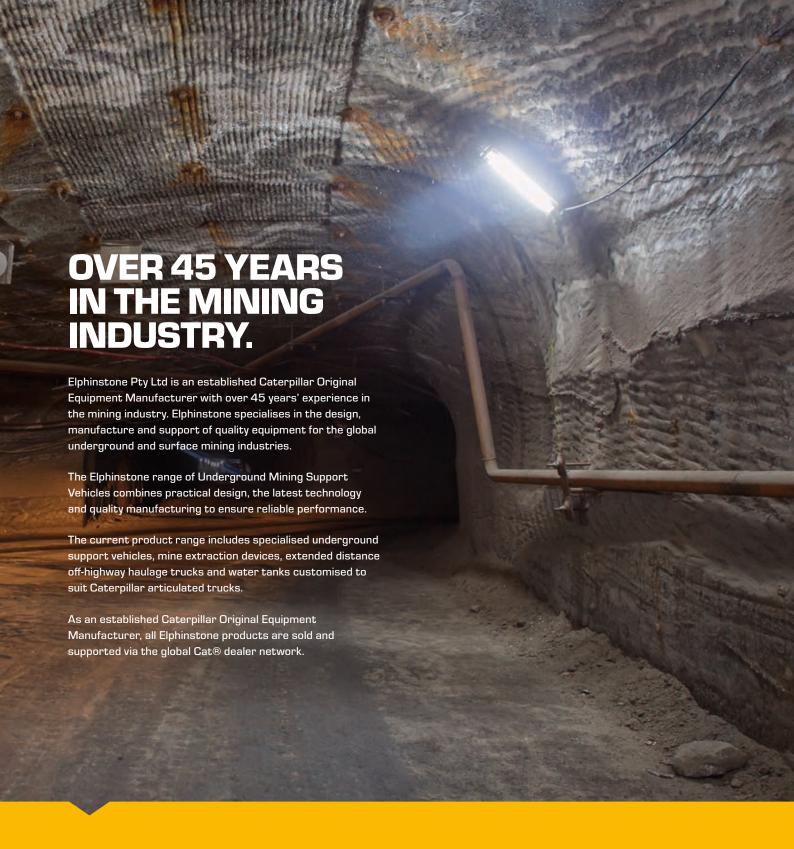
### **Deck and Work Tools**

| 2490 mm Wide x 3685 mm Long Flat Deck  | • |
|--|---|
| 4x Holes to Accommodate Eyebolt Type Tie-down Points   | • |
| 12x slots (6 each side) to Accommodate Various Ratchet Style<br>Restraint Systems (Removable Type) | • |
| 3-Point Access System, Both Sides  | • |
| Tool Box & Storage Compartments Both Sides   | • |
| HIAB X-HIDUO 092 B2 Telescoping Knuckle Boom Crane   | • |
| Manual Lever Control   | • |
| Wireless Joystick Remote Control for Crane   | • |
| 8.8 TM Lift Capacity   | • |
|  |   |

### **Deck and Work Tools**

| Semi Automatic Folding (Pack-Up)             | • |
|--|---|
| Automatic Speed Control (ASC)                | • |
| Pivoting & Extendable Manual Stabiliser Legs | • |
| Out  |   |

| Other   |    |
|---|----|
| 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<br>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)   | 0  |
| Unit Number Placard   | •  |
| Wheel Chocks  | •• |



# **E10 DELIVERY**

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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HM28426-04 (10-2024)