



GROVE COLES

TM750E

Truck-mounted hydraulic crane

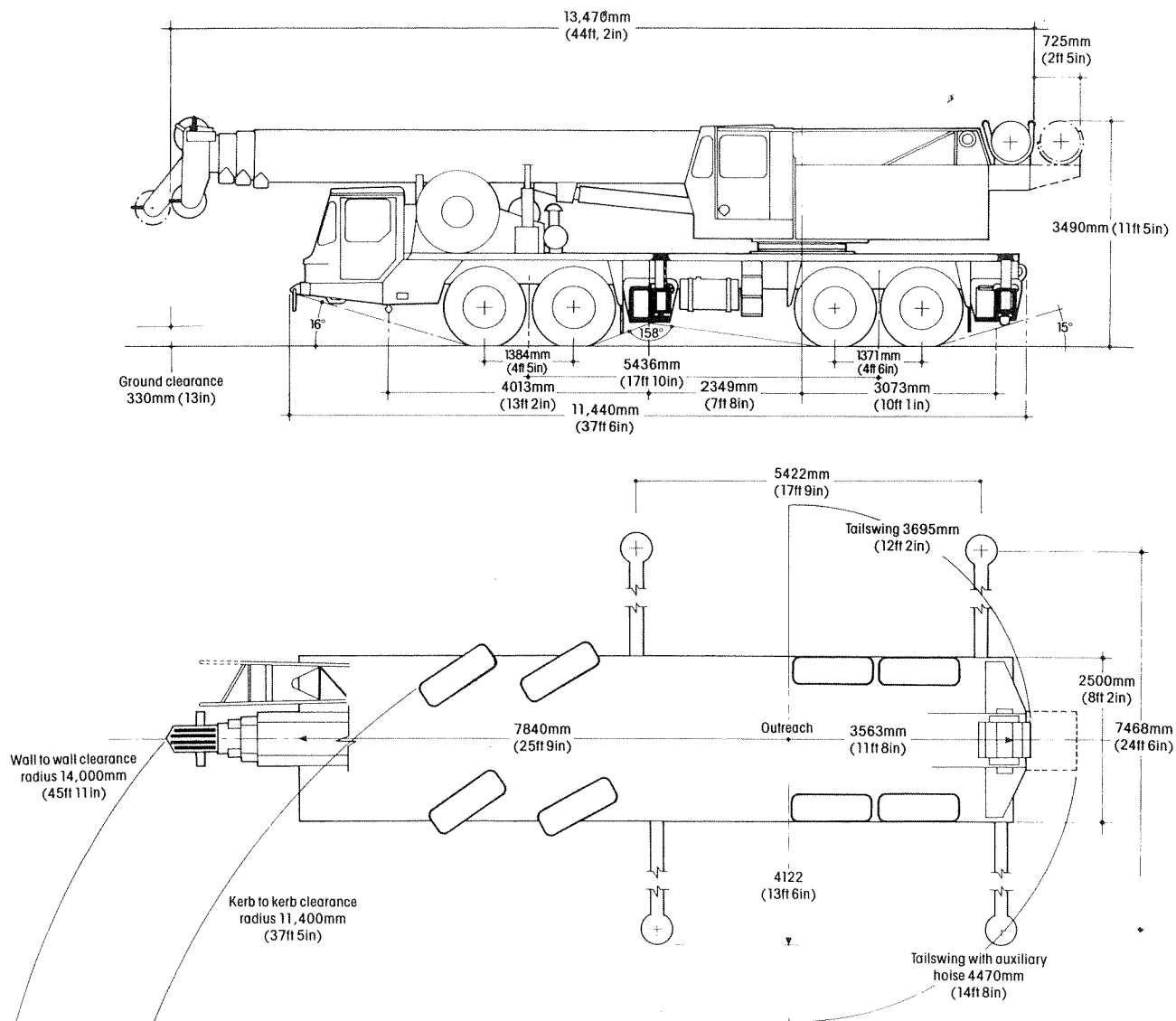
- 38 metre (124 ft 8 in) main boom
- Maximum on-board tip height 58 metres (190 ft)
- 8 x 6 drive
- 10.60 to 18.50 metres (34 ft 9 in to 60 ft 8 in) telescopic offsettable Swingaway





Dimensions

TM750E



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Constant improvement and engineering progress make it necessary that the company reserves the right to make specification, equipment and price changes without notice. Illustrations shown may include optional equipment and accessories and may not include all standard equipment. Optional equipment is designated by (*) in specifications folder.



Superstructure specifications

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| Boom | 12.10 to 38.00 m (39 ft 8 in to 124 ft 8 in) four-section, Trapezoidal main boom consisting of base, two full power sections and one remote controlled aerial power-pinned section. Telescopic sections slide on adjustable and replaceable Nylatron pads. Telescopic cylinders with integral holding valves. Maximum tip height 40 m (131 ft). |
| Telescopic Swingaway | 10.60 to 14.60 m or 18.50 m (34 ft 9 in to 47 ft 11 in or 60 ft 8 in) telescopic Swingaway boom extension, with a rectangular roller-mounted section which is extended from within the 10.60 m (34 ft 9 in) lattice extension. Offsettable to 2°, 15° or 30°. Stows alongside base boom section when not in use. Maximum tip height 58 m (190 ft). |
| Optional *non-telescopic Swingaway | 10.60 m (34 ft 9 in), offsettable, to 2°, 15° or 30° lattice Swingaway boom extension, stows alongside base boom section when not in use. Maximum tip height 50 m (164 ft). |
| Boom nose | Five sheaves, mounted on heavy duty tapered roller bearings. Removable pin-type rope guards. Optional *auxiliary boom nose for single line lifting. |
| Boom elevation | Double-acting hydraulic cylinders with integral holding valves provide elevation from -4° to +80°. |
| LMI | Load-moment indicator with anti-two block system. Audio visual type warning with control lever lockout. |
| Cab | All-steel, acoustically treated, fully enclosed with safety glass, hinged skylight with electric wiper, windscreen wiper, horn, heater, air circulation fan, crane level indicator, lockable sliding door, safety warning light for front stabilizer, full instrumentation and crane controls. |
| Swing | Ball bearing swing circle, 360° continuous rotation. Grove planetary Glideswing incorporating foot-operated spring-applied brake, electric/hydraulic swing park brake, two position manual swinglock. |
| Counterweight | Fixed-position 1100 kg (2425 lb) pin-mounted with coverplate. |
| Engine | Deutz BF6L913, six-cylinder, turbocharged air-cooled diesel. 6.13 litres; 119 kw (160 bhp) at 2650 rpm; maximum torque 490 Nm (361 lb ft) at 1650 rpm. |
| Optional *engine | Cummins 6 BTA 5.9, six-cylinder turbocharged and aftercooled, water-cooled diesel. 5.9 litres; 149 kw (200 bhp) at 2500 rpm; maximum torque 683 Nm (504 lb ft) at 1700 rpm. |
| Fuel tank capacity | 230 litres (61 US gallons). |
| Electrical system | 24 v (including starting). |

HYDRAULIC SYSTEM

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| Pumps | Four gear pumps, with manual disconnect, combined capacity 626 litres/minute (165 US gallons/minute). Maximum pressure 175 kg/cm ² (2500 PSI). |
| Valves | Precision, four-way, double-acting control valves with four individual valve banks, permitting simultaneous multi-functioning. |
| Filters | Return-line type filter with by-pass protection and indicator. 25 micron rated cartridge. One pressure line filter with 10 micron rated replaceable element and filter service indicator. |
| Reservoir | 632 litres (167 US gallons) capacity. Internal baffles, particle magnet and exterior oil level gauge. |
| Oil cooler | Thermostatically controlled, electric fan motor. |
| Pressure check panel | System pressure test panel with quick-release couplings. |

HOIST SPECIFICATIONS

Power up and down, (main two speed, auxiliary single speed), planetary reduction with integral automatic spring-applied multi-disc brake. Electronic hoist drum rotation indicator, cable follower, over lower limit switch.

| Main hoist Grove H030B-26 | | *Auxiliary hoist Grove H015B-16 |
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| High speed | Low speed | Single speed |

Maximum single line speed

| | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| Bottom layer | 117 m/min (384 ft/min) | 60 m/min (197 ft/min) | 87.5 m/min (287 ft/min) |
| Intermediate layer | 138.5 m/min (454 ft/min) | 70 m/min (230 ft/min) | 101 m/min (331 ft/min) |
| Top layer | 160 m/min (525 ft/min) | 80 m/min (262 ft/min) | 115 m/min (377 ft/min) |

Maximum single line pull

| | | | |
|---------------------------|----------------------|------------------------|----------------------|
| Bottom layer | 3640 kg (8025 lb) | 7280 kg (16,050 lb) | 3950 kg (8708 lb) |
| Intermediate layer | 3209 kg (7075 lb) | 6417 kg (14,147 lb) | 3546 kg (7817 lb) |
| Top layer | 2778 kg (6124 lb) | 5554 kg (12,244 lb) | 3143 kg (6929 lb) |

| | | |
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| Maximum permissible line pull | 7280 kg (16,050 lb) | 3950 kg (8708 lb) |
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| Maximum rope stowage | 260 m x 19 mm 55 ft x 3/4 in) | 120 m x 16 mm (394 ft x 5/8 in) |
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|-------------------------------|------------------------------------|------------------------------------|
| Standard rope supplied | 180 m x 19 mm (591 ft x 3/4 in) | 120 m x 16 mm (394 ft x 5/8 in) |
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*Indicates optional item.



Carrier specifications

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|---------------------------|--|--|--|
| Frame | High-strength steel, all-welded triple-box design with integral outrigger housings. Incorporating front and rear towing brackets. | Suspension | Front: multi-leaf spring. Rear: leaf spring over equaliser beam. |
| Outrigger system | Hydraulic front and rear, double-box with two-stage telescoping beams, vertical jacks with integral holding valves. Quick-release outrigger floats 775 mm (30½ in) diameter. | Brakes | Dual-line air system operating on all wheels. Spring-applied air-released park brake acting on axles two, three and four. Engine exhaust brake. |
| Front stabilizer | Fifth vertical stabilizer with removable steel fabricated float. Permits full 360° lifting. | Tyres | 14.00 x 20 highway radials all round. Optional *14.00 x 20 on-off highway radials. Tyre inflation equipment. Spare wheel and handling device. |
| Outrigger controls | Situated in superstructure cab and on both sides of the carrier frame. Push-button electric controls requiring two-handed operation. Site level bubble located adjacent to each set of controls. | Lights | Full lighting including head, tail, braking, reverse, fog, directional and hazard warning lights. |
| Engine | Deutz F10L413F, ten-cylinder, naturally-aspirated air-cooled diesel. 16 litres; 216 kw (290 bhp) at 2500 rpm; maximum torque 950 Nm (700 lb ft) at 1500 rpm. | Cab | Full width type with safety glass, two-man design, left-hand drive, windscreen washers and wipers, heater and demister, dual mirrors, full instrumentation and travel controls, deluxe acoustic trim. |
| Optional *engine | Cummins LTA 10, six-cylinder, turbocharged, water-cooled diesel. 10 litres; 216 kw (290 bhp) at 2200 rpm; maximum torque 1139 Nm (840 lb ft) at 1300 rpm. | Maximum speed | 65 kph (40 mph). |
| Fuel tank capacity | 418 litres (110 US gallons). | Gross vehicle weight and axle loads | Axle 1: 10,150 kg (22,375 lb) Axle 2: 10,150 kg (22,375 lb) Axle 3: 10,850 kg (23,920 lb) Axle 4: 10,850 kg (23,920 lb) GVW: 42,000 kg (92,590 lb) Above weights for TM750E to standard specification plus maximum hookblock. |
| Electrical system | 24 v (including starting). | Optional *equipment | Superstructure * Spotlights * Rotating beacon * Hookblocks * Auxiliary hoist Carrier * Rotating beacon |
| Drive | 8 x 6. | <i>*Indicates optional item.</i> | |
| Steering | Semi-integral type, power assisted. Transmission-driven emergency power steering. | | |
| Transmission | 13 forward, 3 reverse speeds. | | |
| Transfer box | Air disconnect to front axle. | | |
| Axles | 1: Drive-steer 2: Steer 3: Rigid through-drive with lockable interaxle differential. 4: Rigid drive All drive axles are of planetary reduction type. | | |