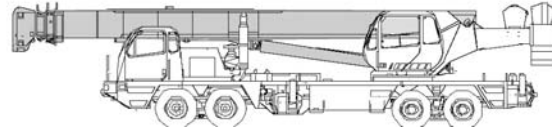




**CAL CRANE &  
EQUIPMENT**

Tel: 1 (844) 882-2415 • Fax: 1 (510) 639-4053  
crane-sales@calcrane.com • www.calcrane.com

## Truck Crane Specifications | T775 Series



### STANDARD BOOM EQUIPMENT

#### BOOM

40-126' (10.67- 33.53 m), four- section full power boom. Telescoping is mechanically synchronized with single lever control. The synchronization system consists of a single telescope cylinder and high strength leaf chains to extend and retract the third and tip sections. High-strength four- plate construction with embossed side plate holes reduces weight and increases strength. A single boom hoist cylinder provides for boom elevation of -4 to 78 degrees. Max tip height is 133' (40.54 m).

#### BOOM HEAD

Welded to outer section of boom. Five or six load sheaves and two idler sheaves are made of nylon and mounted on heavy- duty anti-friction bearings. Quick reeving boom head. Provisions made for side-stow jib mounting.

### OPTIONAL BOOM EQUIPMENT

#### MAIN BOOM

33' (9.68 m) four section full power boom. Telescoping is mechanically synchronized with single pedal control. The synchronization system consists of a single telescope cylinder and high strength leaf chains to extend and retract the third and tip sections. High-strength four plate construction with embossed side plate holes reduces weight and increases strength. A single boom hoist cylinder provides for boom elevation of -4 to 78 degrees. Max tip height is 133' (40.54 m)

#### AUXILIARY BOOM HEAD

Removable auxiliary boom head has single nylon sheave mounted on anti-friction bearing. Removable pin-type rope guard for quick reeving. Installs on main boom head only. Removal is not required for jib use.

#### JIBS

32' (9.68 m) side stow swing-on one-piece lattice type jib. Single sheave mounted on anti-friction bearing. Jib is offsettable at 0°, 15°, or 30°. Max. tip height is 164' (49.99 m)

#### HOOK BLOCK

75 ton (68.0 mt) block with five metallic sheaves on anti-friction bearings with hook and heavy duty hook latch. Quick reeving design does not require removal of wedge and socket from rope.  
60 ton (54.4 mt) block with five metallic sheave on anti-friction bearings with hook and heavy duty hook latch. Quick reeving design does not require removal of wedge and socket from rope.

33-57' (10.15-17.30 m) side stow swing-on lattice type jib. Single sheave mounted on anti-friction bearing. Jib is extendible to 57' (17.30 m) by means of a 25' (7.62 m) manual pull-out tip section, roller supported for ease of extension. Jib is offsettable at 0°, 15°, or 30°. Max. tip height is 189' (57.61 m).

#### HOOK AND BALL

12 ton (10.9 mt) top swivel ball with hook and hook latch.

### STANDARD UPPERSTRUCTURE EQUIPMENT

#### UPPERSTRUCTURE FRAME

All welded one-piece structure fabricated with high tensile strength alloy steel. Counterweight is bolted to frame.

#### COUNTERWEIGHT

Counterweight is bolted to frame. Counterweight removal system permits counterweight slabs to be carried on the deck of the carrier to optimize axle weights and counterweight to be added or removed without the need for auxiliary equipment to assist.

#### TURNTABLE CONNECTION

Swing bearing is a single row, ball type, with internal teeth. The swing bearing is bolted to the revolving upperstructure and to the carrier frame.

#### SWING

A hydraulic motor drives a double planetary reduction gear for precise and smooth swing function. Swing speed (no load) is 2.5 rpm.

#### SWING BRAKE

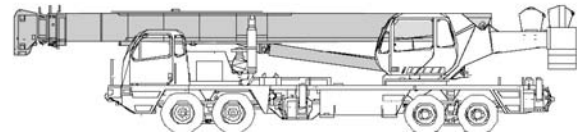
Heavy duty multiple disc swing brake is mechanically actuated from operator's cab by foot pedal. Brake may be locked on or used as a momentary brake. An air operated 360° house lock is standard.

#### RATED CAPACITY INDICATOR

Rated Capacity Indicator with visual and audible warning system and automatic function disconnects. Pictographic display includes: boom radius, boom angle, boom length, allowable load, actual load, and percentage of allowable load registered by bar graph. Operator settable alarms provided for swing angle, boom length, boom angle, tip height and work area exclusion zone. Anti-two block system includes audio/visual warning and automatic function disconnects.

#### OPERATOR'S CAB

Environmental cab with all steel construction, optimum visibility, tinted safety glass throughout, and rubber floor matting is mounted on vibration absorbing pads. The cab has a sliding door on the left side; framed sliding window on the right side, hinged tinted all glass skylight and removable front windshield to provide optimum visibility of the load open or closed. Acoustical foam padding insulates against sound and weather. Hot air defroster keeps windshield clear. The deluxe six-way adjustable operator's seat is equipped with a mechanical suspension and includes head and arm rests.



#### CONTROLS

Armrest mounted dual axis controls for winch(s), swing and boom elevation. Winch rotation indication incorporated into control handles. Armrest swings up to improve access and egress. Vernier adjustable hand throttle included. Switches include ignition, engine stop, lights, horn, windshield wipers, defroster, outriggers, 360° house lock, etc. Horn and winch speed shift switches are mounted in the levers. Foot control pedals include swing brake, boom telescope, and throttle.

#### INSTRUMENTS AND ACCESSORIES

In-cab gauges include bubble level, engine oil pressure, fuel, engine temperature, voltmeter. Indicators include high coolant temperature/low engine oil pressure audio visual warning, low coolant level audio visual warning, and Rated Capacity Indicator. Accessories include fire extinguisher, windshield washer/wiper, skylight wiper, left & right hand rear view mirrors, dash and dome lights, and seat belt. Circuit breakers protect electrical circuits.

#### HYDRAULIC CONTROL VALVES

Valves are mounted on the rear of the upperstructure and are easily accessible. Valves utilize electric over hydraulic operators and include one pressure compensated load sensing two spool valve for boom elevation and telescope, one pressure compensated load sensing two spool valve for boom elevation and telescope, one pressure compensated load sensing two spool valve for main and auxiliary winch, and one single spool valve for swing. System provides for simultaneous operation of all crane functions. High pressure regeneration feature provides two-speed boom extension. Quick disconnects are provided for ease of installation of pressure check gauges.

#### OPTIONAL EQUIPMENT

Single Axis Armrest Mounted Crane Controls, LP Heater/Defroster, Hydraulically Powered Air Conditioner or Heater and Air Conditioner, Tachometer, Work Lights, Electric Remote Control of Carrier from Upper Cab, 3rd Wrap Indicator.

### STANDARD CARRIER EQUIPMENT

#### CARRIER CHASSIS

Chassis is Terex designed and built with a 8 x 4 drive. Box construction frame with internal diaphragms is fabricated from high strength alloy steel and provides superior frame rigidity. Full aluminum decking improves access and reduces weight. Four lockable storage compartments are built into decking along with standard mud flaps. Aluminum engine housing with sliding cover optimizes engine access while reducing weight and improving corrosion resistance.

#### AXLES AND SUSPENSION

Rear Axles - 60,000 lb (27 216 kg) capacity tandem axles with heat treated housing have inter-axle differential with lockout. Axles are mounted on standard air suspension system over equalizer beams with shock absorbers to distribute weight evenly.  
Front Axles - 48,000 lb (21 772 kg) capacity tubular beam type axles are mounted on standard air suspension system over equalizer beams with shock absorbers.

#### TIRES AND WHEELS

Front: Four 445/65R22.5-20 R.R. All-Position type tubeless  
Rear: Eight 315/80R22.5-20 P.R. deep tread On/Off highway tubeless  
Aluminum wheels with stainless steel hub covers are standard.

#### BRAKES

Full air brakes on all wheels with ABS split circuit system.  
Front brakes: 16.5 x 7" (419 x 178 mm)  
Rear brakes: 16.5 x 7" (419 x 178 mm)  
All brakes are air operated "S" cam type with automatic slack adjusters. Lining areas are 920 in<sup>2</sup> (5935 cm<sup>2</sup>) front and rear. Air compressor has standard air dryer. Rear tandem axles have spring-set, air released parking or emergency brake chambers. Parking brake is applied with valve mounted on dash panel. Emergency brakes apply automatically when air pressure drops below 40 psi (2.8 kg/cm<sup>2</sup>)

#### STEERING

Mechanism includes rack and pinion with integral hydraulic power.  
Turning radius: To C<sub>1</sub> of tires: 33'-4" (10.16 m)

#### TRANSMISSION

Eaton Fuller 11 speed manual transmission. Optional Allison 4070 automatic transmission has 7 speeds forward and 1 reverse, with neutral safety start. Provides wide ratio coverage with "hands free" shifting. A lock up torque converter further improves performance.

#### MULTI-POSITION OUT & DOWN OUTRIGGERS

Fully independent two stage hydraulic outriggers may be utilized fully extended to 26' (7.92 m), in their 1/2 extended position, or fully retracted. Removable aluminum outrigger pads are 452 in<sup>2</sup> (2919 cm<sup>2</sup>) and stow on the carrier frame. Complete controls and sight leveling bubble are located in the operator's cab. Additional optional ground level controls can be incorporated into the aluminum decking. Includes standard 5th, front, outrigger which incorporates a self stowing permanently attached float.

**STANDARD CARRIER EQUIPMENT (CONTINUED)**

**CARRIER CAB**

One-man aluminum cab is mounted on vibration absorbing pads and has optimum visibility, safety glass, acoustical foam padding inside cab for insulating against sound and weather, hot water heater hot air defroster, six-way adjustable air suspension seat with seat belt and a locking door with roll down window.

**CONTROLS**

Included are transmission shift, inter-axle differential lock, cruise control, Jacobs brake, parking brake, two-speed windshield wiper/washer, heater and defroster, lights, headlight dimmer, dome light, and ignition switch.

**INSTRUMENTS**

Included are speedometer, hourmeter, tachometer, voltmeter, fuel gauge, engine oil pressure gauge, water temperature gauge, dual air pressure gauges. Warning lights include low coolant level, parking brakes on, low air, pumps engaged, and high beam lights.

**ACCESSORIES**

Included are Fire extinguisher, right and left hand rear view mirrors, electric horn, access steps and grab handles (located at six separate points around the crane), back-up alarm, two position boom rack, front and rear towing loops.

**ACCESSORIES**

Light package includes headlights with foot operated dimmer switch, clearance lights, taillights, directional signal lights, four-way hazard flasher lights, back-up lights with audible alarm.

**OPTIONAL EQUIPMENT**

Spare Tire with Wheel • Immersion Heater(s) • Pintle Hook • Cold Weather Kit • Air Conditioner • Ground level outrigger controls • Boom Float Kit • Boom Dolly • Allison automatic transmission

**HYDRAULIC SYSTEM**

**HYDRAULIC PUMPS**

A double and a single pump driven from hot shift transmission PTOs. A separate steering pump is driven directly from the engine. Combined system capacity is 131 gpm (495 lpm). Remote hydraulic oil cooler is standard.

**Main Winch Pump**

▶ 57.3 gpm (216.9 lpm) @ 4,500 psi (316.4 kg/cm<sup>2</sup>)

**Boom Hoist and Telescope Pump**

▶ 42.6 gpm (161.3 lpm) @ 4,500 psi (316.4 kg/cm<sup>2</sup>)

**Outrigger and Swing Pump**

▶ 21.2 gpm (80.3 lpm) @ 3,500 psi (246.1 kg/cm<sup>2</sup>)

**Power Steering Pump**

▶ 8 gpm (30.3 lpm) @ 1900 psi (133.0 kg/cm<sup>2</sup>)

**FILTRATION**

Full flow oil filtration system with bypass protection includes a removable 60 mesh (250 micron) suction screen-type filter and five micron replaceable return line filters.

**HYDRAULIC RESERVOIR**

All welded construction with internal baffles and diffuser. Provides easy access to filters and is equipped with an external sight level gauge. The hydraulic tank is pressurized to aid in keeping out contaminants and in reducing potential pump cavitation. Capacity is 202 gal (765 L).

**MAIN WINCH SPECIFICATIONS**

Hydraulic winch with bent Axis piston motor and planetary reduction gearing provides two speed operation with equal speeds for power up and down. Winch is equipped with an integral automatic brake, grooved drum, tapered flanges, standard cable roller on drum, and electronic drum rotation indicator.

Performance	L0-Range	HI-Range
▶ Max line speed (no load)		
▶ First layer	200 fpm (60.0 m/min)	320 fpm (97.5 m/min)
▶ Fifth layer	287 fpm (87.5 m/min)	460 fpm (140.2 m/min)
▶ Max. line pull-first layer	18,450 lb (8 369 kg)	10,002 lb (4 537 kg)
▶ Max. line pull-fifth layer	12,845 lb (5 826 kg)	6,963 lb (3 158 kg)
▶ Permissible line pull	13,800 lb (6 260 kg)	

Drum Dimensions	Drum Capacity
▶ 13.00" (330 mm) drum diameter	Max. Storage: 561' (171.0 m)
▶ 20.15" (512 mm) length	Max. useable: 561' (171.0 m)*
▶ 21.5" (546 mm) flange dia.	
▶ Cable: 3/4" x 600' (19 mm x 182.9 m)	
▶ Cable type: 3/4" (19 mm) 6 x 19 IWRC XIPS	
▶ Right regular lay, preformed	
▶ Min. breaking strength 25.7 tons (23.2 mt)	

\*Based on minimum flange height above top layer to comply with ANSI B30.5

**AUXILIARY WINCH**

Hydraulic two-speed winch with bent axis piston motor, equal speed power up and down, planetary reduction with integral automatic brake, grooved drum with tapered flanges, drum roller, and rotation indicator.

Performance	(Same as main winch)
Drum Dimensions and Capacity	(Same as main winch)

**OPTIONAL HOIST LINE**

3/4" (19 mm) rotation resistant compacted strand 34 x 7 Grade 1960. Min. breaking strength 34.5 tons (31.3 mt).

**ENGINE SPECIFICATIONS**

	Detroit Diesel Series 60	Detroit Diesel Series 60
▶ Transmission	Allison HD 4070	Eaton Fuller RTO-14909ALL
▶ Type	6 Cylinder	6 Cylinder
▶ Bore and Stroke	5.24x6.62 in (131x168mm)	5.12x6.30 in (130x160 mm)
▶ Displacement	858 in <sup>3</sup> (14.0 L)	778 in <sup>3</sup> (12.7 L)
▶ Rated HP	500 hp (373 kw) @ 2100 rpm	430 hp (321 kw) @ 2100 rpm
▶ Max. Gross HP	500 hp (373 kw) @ 2100 rpm	452 hp (337 kw) @ 1700 rpm
▶ Gross Torque@rpm	1450 lbs•ft (1966 N•m)@1200-1800	1450 lbs•ft (2 101 N•m) @ 1200-1500
▶ Max Net HP	437 hp (326 kw) @ 1600 rpm	406 hp (303 kw) @ 1650 rpm
▶ Aspiration	Turbocharged & Aftercooled	Turbocharged & Aftercooled
▶ Electrical System	12 volt	12 volt
▶ Alternator	130 amp	130 amp
▶ Battery @ 0°F	(3) 12V-2400 C.C.A.	(3) 12V-2400 C.C.A.
▶ Fuel Capacity	100 gal (379 l)	100 gal (379 l)

(Includes standard engine controlled ether starting aid)

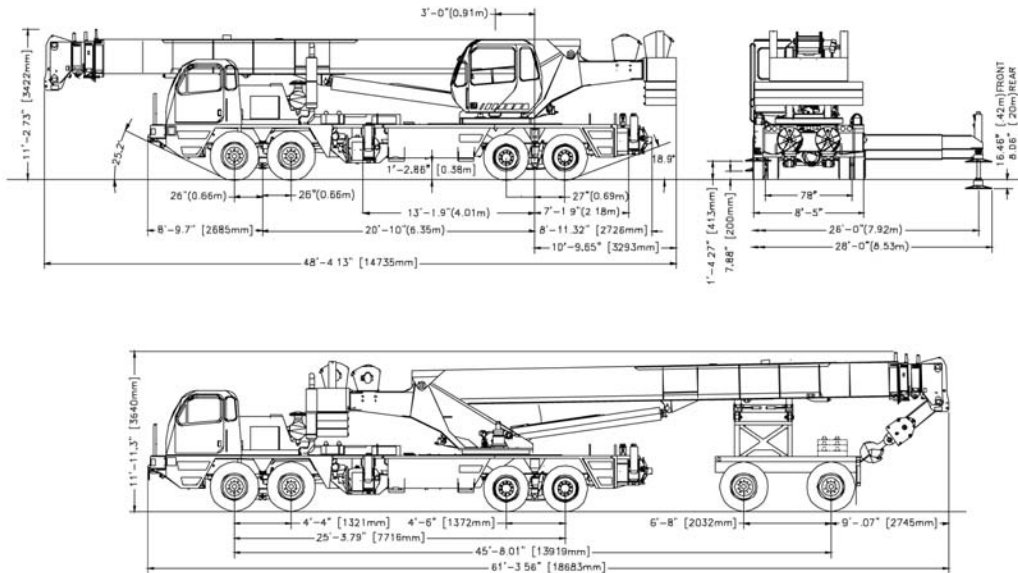
**SPEED AND GRADEABILITY**

Engine Transmission	Speed Range	Gradeability
▶ 60 Series Allison HD 4070	65 mph (105 km/h)	100+%
▶ 60 Series Eaton RTO-14909 ALL	67 mph (108 km/h)	100+%

Performance data is based on a gross vehicle weight of 106,000 lb (48 081 kg) with the Allison transmission and 101,300 lb (45 949 kg) with the manual transmission. Performance may vary due to engine performance, weight, tire size, etc. Gradeability data is theoretical and is limited by tire slip, stability, oil pan angle, etc.



## GENERAL DIMENSIONS



WEIGHTS & AXLE LOADS	GROSS WEIGHT POUNDS (KG)	BOOM FRONT (TRAVEL POSITION)		GROSS WEIGHT POUNDS (KG)	BOOM OVER THE REAR		
		FRONT	REAR		FRONT	REAR	DOLLY
Basic Crane with 60 Series Engine, 126' (33.53 m) Boom 2,850 lb (1 293 kg) Cwt on upper, 1/4 tank of fuel, 445/65R22.5 20 PRFront and 315/80R22.5 20 PR Rear Tires with Disc Wheels, and 200 lb Operator in cab.	81,255 (36 857)	36,781 (16 684)	44,474 (20 173)	87,075 (39 497)	29,162 (13 288)	37,299 (16 919)	20,614 (9 350)
Add Semi-Permanent Counterweight: 2,000 lb (907 kg) on upper and 1,000 lb (454 kg) in front bumper	+ 3,020 (+ 1 370)	+ 647 (+ 293)	+ 2,374 (+ 1 077)	+ 3,020 (+ 1 370)	+ 3,059 (+ 1 388)	- 39 (- 18)	+ 0 (+ 0)
Add Options: 32' (9.68 m) Swing-on Jib	+ 1,270 (+ 576)	+ 1,393 (+ 632)	- 123 (- 56)	+ 1,270 (+ 576)	+ 13 (+ 6)	+ 18 (+ 8)	+ 1239 (+ 562)
33'-57" (10.15 - 17.37 m) Swing on Jib	+ 2,170 (+ 984)	+ 2,262 (+ 1 026)	- 92 (- 42)	+ 2,170 (+ 984)	+ 62 (+ 28)	+ 86 (+ 39)	+ 2022 (+ 917)
Auxiliary Boom Head	+ 125 (+ 57)	+ 227 (+ 103)	- 102 (- 46)	+ 125 (+ 57)	+ 43 (+ 20)	- 60 (- 27)	+ 228 (+ 103)
Add 1-2,000 lb (907 kg) Counterweight slab on Superstructure (Max of 1-2,000 lb (907 kg) slab on crane in addition to 1 semi-permanent)	+ 2,000 (+ 907)	- 904 (- 410)	+ 2,904 (+ 1 317)	+ 2,000 (+ 907)	+ 1,485 (+ 654)	+ 515 (+ 234)	+ 0 (+ 0)
Add 1-4,000 lb (1 814 kg) Counterweight slab on Superstructure ( Max of 2-4,000 lb (1 814 kg) slabs on crane)	+ 4,000 (+ 1 814)	- 1,807 (- 820)	+ 5,807 (+ 2 634)	+ 4,000 (+ 1 814)	+ 2,970 (+ 1 347)	+ 1030 (+ 467)	+ 0 (+ 0)
Add 1-2,000 lb (907 kg) Counterweight slab on Carrier Deck (Max of 1-2,000 lb (907 kg) slab on crane in addition to 1 semi permanent)	+ 2,000 (+ 907)	+ 1,485 (+ 674)	+ 516 (+ 234)	+ 2,000 (+ 907)	+ 1,485 (+ 654)	+ 515 (+ 234)	+ 0 (+ 0)
Add 1-4,000 lb (1 814 kg) Counterweight slab on Carrier Deck (Max of 2-4,000 lb ( 1 184 kg) slabs on crane)	+ 4,000 (+ 1 814)	+ 2,969 (+ 1 347)	+ 1,031 (+ 468)	+ 4,000 (+ 1 814)	+ 2,970 (+ 1 347)	+ 1030 (+ 467)	+ 0 (+ 0)
Add 1-4,000 lb (1 814 kg) Counterweight slab on Boom Dolly (Max of 2-4,000 lb (1 184 kg) slabs on crane)	+ 0 (+ 0)	+ 0 (+ 0)	+ 0 (+ 0)	+ 4,000 (+ 1 814)	+ 0 (+ 0)	+ 0 (+ 0)	+ 4000 (+ 1814)
Full tank of fuel	+ 545 (+ 247)	+ 244 (+ 111)	+ 301 (+ 136)	+ 545 (+ 247)	+ 244 (+ 111)	+ 301 (+ 136)	+ 0 (+ 0)
Auxiliary winch with drum roller and 600' of 6x19 Class wire rope	+ 84 (+ 38)	- 18 (- 8)	+ 102 (+ 46)	+ 84 (+ 38)	- 43 (- 19)	+ 41 (+ 19)	+ 0 (+ 0)
Electric remote control	+ 200 (+ 91)	+ 100 (+ 45)	+ 100 (+ 45)	+ 200 (+ 91)	+ 100 (+ 45)	+ 100 (+ 45)	+ 0 (+ 0)
75 ton (68.0 mt) Quick reeving hook block (On bumper - 5 Sheave)	+ 1,608 (+ 729)	+ 2,569 (+ 1 165)	- 961 (- 436)	+ 1,608 (+ 729)	- 27 (- 12)	- 37 (- 17)	+ 1672 (+ 758)
12 ton (68.0 mt) Quick reeving hook block (On bumper)	+ 419 (+ 190)	+ 669 (+ 303)	- 250 (- 113)	+ 419 (+ 190)	+ 7 (+ 3)	+ 10 (+ 5)	- 436 (- 198)
Substitute spin resistant wire rope (main winch)	+ 96 (+ 44)	- 31 (- 14)	+ 127 (+ 58)	+ 96 (+ 44)	+ 59 (+ 27)	+ 37 (+ 17)	+ 0 (+ 0)
Substitute spin resistant wire rope (auxiliary winch)	+ 96 (+ 44)	- 42 (- 19)	+ 138 (+ 63)	+ 96 (+ 44)	+ 70 (+ 32)	+ 26 (+ 12)	+ 0 (+ 0)

**TEREX Cranes**  
106-12th Street S.E.  
Waverly, Iowa 50677-9466 USA

TEL (319) 352-3920 FAX (319) 352-5727  
EMAIL inquire@terexwaverly.com  
WEB terex.com

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