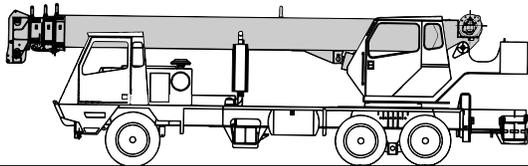




# TEREX T 200 SERIES

truck cranes  
specifications



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## STANDARD BOOM EQUIPMENT

### BOOM

30-94 ft. (9.23-28.49 m), four section full power, mechanically synchronized boom. High-strength four plate construction with embossed side plate holes to reduce weight and increase strength. Anti-friction slide pads. A single boom hoist cylinder provides for boom elevation of -4 to 76 degrees. Maximum tip height is 99 ft. (30.17 m).

### BOOM HEAD

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

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## OPTIONAL BOOM EQUIPMENT

### MAIN BOOM

30-72 ft. (9.23-22.19 m), three section full power, mechanically synchronized boom. High-strength four plate construction with embossed side plate holes to reduce weight and increase strength. Anti-friction slide pads. A single boom hoist cylinder provides for boom elevation of -4 to 76 degrees. Maximum tip height is 79 ft. (24.23 m).

### JIBS

26 ft. (7.92 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°. Maximum tip height is 124 ft (37.77 m) with 94 ft. (28.49 m) boom.

26-43 ft. (7.92-13.11 m) side stow swing-on lattice type jib. Single sheave mounted on anti-friction bearing. Jib is extendible to 43 ft. (13.11 m) by means of a 17 ft. (5.18 m) manual pull-out tip section, roller supported for

ease of extension. Jib is offsettable at 0°, 15°, or 30°. Maximum tip height is 141 ft. (42.99 m) with 94 ft. (28.49 m) boom.

### AUXILIARY BOOM HEAD

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

### HOOK BLOCK

Two, three or four 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.

### HOOK & BALL

7 ton (6.3 mt) top swivel ball with hook and hook latch.

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## STANDARD UPPERSTRUCTURE EQUIPMENT

### UPPERSTRUCTURE FRAME

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

### TURNTABLE CONNECTION

Swing bearing is a single row, ball type, with external teeth. The swing bearing is bolted to the revolving upperstructure and welded 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 3.0 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.

### 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, optimized 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 optimized visibility of the load open or closed. Acoustical foam padding insulates against sound and weather. The deluxe six-way adjustable operator's seat is equipped with a torsion bar suspension and includes head and arm rests.

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## STANDARD CARRIER EQUIPMENT

### CARRIER CHASSIS

High strength chassis with 6 x 4 drive. Triple box construction frame is fabricated from high strength alloy steel and provides superior frame rigidity. Full aluminum decking reduces weight. Aluminum engine housing with sliding cover optimizes engine access while reducing weight and improving corrosion resistance.

### AXLES AND SUSPENSION

Rear Axles - 40,000 lb. (18,144 kg) capacity tandem axles with heat treated housings have interaxle differential with lockout. Axles are mounted on equalizer beams to distribute weight evenly. Front Axle - I beam type axle is heavy duty multi-leaf spring-mounted with shock absorbers.

### TIRES

Front: Two 425/65R22.5-18 P.R. All-position type tubeless.  
Rear: Eight 10.00 x 20-14 P.R. transport type.

### BRAKES

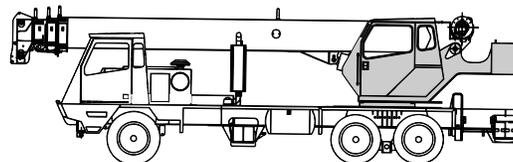
Full air brakes on all wheels with split circuit system.

Front brakes: 16.5 x 6 in. (419 x 152 mm)

Rear brakes: 16.5 x 7 in. (419 x 178 mm)

All brakes are extended service air operated "S" cam type with automatic slack adjusters.

Lining areas are 384 in<sup>2</sup> (2477 cm<sup>2</sup>) front and 920 in<sup>2</sup> (5935 cm<sup>2</sup>) rear. Air compressor has standard air dryer. Rear tandem axles have spring-set, air-released parking/emergency brake chambers. Parking brake is applied with valve mounted on dash



### CONTROLS

All control levers and pedals are positioned for efficient operation. Hand operated control levers include swing, boom telescope, boom hoist, winch(s), vernier adjustable hand throttle, and two position house lock. Switches include ignition, engine stop, lights, horn, windshield wipers, defroster, outriggers, etc. Horn switch is mounted in the swing lever. Foot control pedals include swing brake, boom raise, boom lower, and throttle.

### INSTRUMENTATION 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, hoist drum rotation indicator and Rated Capacity Indicator. Accessories include fire extinguisher, windshield washer/wiper, skylight wiper, L.H. rear view mirror, dash and dome lights, and seat belt. Circuit breakers protect electrical circuits.

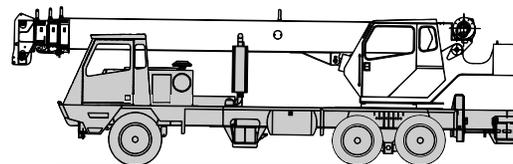
### HYDRAULIC CONTROL VALVES

Valves are mounted on the rear of the upperstructure and are easily accessible. Valves are mechanically operated and include one four spool valve for boom elevation, telescope, main winch boost, and main winch; one single spool valve for swing; and one single spool valve for future installation of an auxiliary winch. High pressure regeneration feature provides 2-speed boom extension. Quick disconnects are provided for ease of installation of pressure check gauges.

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### OPTIONAL EQUIPMENT

Auxiliary Winch • 360° House Lock • LP Heater/Defroster • Hydraulically Powered Air Conditioner • Diesel Heater/Defroster • Tachometer • Work Lights • Outrigger Controls on Sides of Carrier • Heavy Counterweight Package



panel. Emergency brakes apply automatically when air pressure drops below 60 psi (4.2 kg/cm<sup>2</sup>).

### STEERING

Mechanism includes rack and pinion with integral hydraulic power.

	To $\varnothing$ of tires	To corner of carrier
Turning radius:	34'-0" (10.35m)	37'-7" (11.46 m)

### TRANSMISSION

Standard: Fuller RT 8908LL transmission has 10 speeds forward and 3 reverse, with neutral safety start. Gear selection is accomplished by single lever shift control and two position air shift range selector.

Optional: Allison MD3560 provides 6 speeds forward with lock-up in top 5 gears. Adaptive feed back controls continually optimize shifts for weight, terrain, etc.

### MULTI-POSITION OUT & DOWN OUTRIGGERS

Fully independent hydraulic outriggers may be utilized fully extended, 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. Includes 5th, front outrigger.

## STANDARD CARRIER EQUIPMENT (continued)

### CARRIER CAB

One-man aluminum cab is mounted on vibration absorbing pads and has optimized visibility, safety glass, acoustical foam padding inside cab for insulating against sound and weather, six-way adjustable torsion bar suspension seat with seat belt and lockable door with roll down window.

### CONTROLS

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

### INSTRUMENTS

Included are speedometer, hour meter, 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.

## HYDRAULIC SYSTEM

### HYDRAULIC PUMPS

Triple pump driven from engine flywheel housing PTO with air shifted mechanical pump disconnect at 1.15 times engine speed. A separate steering pump is driven directly from the engine. Combined system capacity is 115 gpm (435 lpm). Hydraulic oil cooler is standard.

#### Main Winch Pump

54 gpm (204.4 lpm) @ 3,500 psi (246.1 kg/cm<sup>2</sup>)

#### Boom Hoist and Telescope Pump

39 gpm (147.6 lpm) @ 3,500 psi (246.1 kg/cm<sup>2</sup>)

#### Outrigger and Swing Pump

22 gpm (83.3 lpm) @ 2,500 psi (175 kg/cm<sup>2</sup>)

### ACCESSORIES

Included are fire extinguisher, right hand and left hand rear view mirrors, electric horn, access steps and grab handles (located at four separate locations around the crane), back-up alarm, two position boom rack, front and rear towing loops. Circuit breakers protect electrical circuits.

### LIGHTS

Light package includes headlights with foot operated dimmer switch, clearance lights, trail lights, 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 • Allison MD3560 6 speed Automatic Transmission with 275 HP Cummins 6CTA8.3 CAC Diesel Engine • Air Suspension for Drivers Seat

### Power Steering Pump

8 gpm (30.3 lpm) @ 1500 psi (105.5 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 5 micron replaceable return line filter.

### 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 91 gal (344 liters).

## MAIN WINCH SPECIFICATIONS

Hydraulic winch with geroller® motor and planetary reduction gearing provides 2-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	LO-RANGE	HI-RANGE
Max. line speed (no load)		
First layer	190 fpm (57.9 m/min)	328 fpm (100 m/min)
Fifth layer	275 fpm (83.8 m/min)	474 fpm (144.5 m/min)
Max. line pull-first layer	13,000 lbs. (5897 kg)	10,300 lbs. (4672 kg)
Max. line pull-fifth layer	9,022 lbs. (4092 kg)	7150 lbs. (3243 kg)
Permissible line pull	9,040 lbs (4100 kg)	

DRUM DIMENSIONS	DRUM CAPACITY
10.62 in (270 mm) drum diameter	Max. Storage: 560 ft (170.7 m)
16.00 in (406 mm) length	6th layer not a working layer
17.88 in (454 mm) flange dia.	Max. Usable: 447 ft. (136.2 m)*
Cable: 5/8" x 450 ft. (16 mm x 137.2 m)	*Based on minimum flange height above
Cable type: 5/8" (16 mm) 6x19 IWRC IPS	top layer to comply with ANSI B30.5
right regular lay, preformed. Min. breaking strength 17.9 tons (16.2 mt).	

## OPTIONAL AUX. WINCH

Hydraulic 2-speed winch with geroller® motor, equal speed power up and down, planetary reduction with integral automatic brake, grooved drum with tapered flanges, drum roller, and rotation indicator.

### PERFORMANCE

Max. line speed (no load)	
Fifth layer	275 fpm (83.8 m/min)
Max. line pull	
First layer	13,000 lbs. (5897 kg)

### DRUM DIMENSIONS AND CAPACITY

(Same as main winch)

### OPTIONAL HOIST LINE

MAIN WINCH AND OPTIONAL AUXILIARY WINCH – 5/8" (16 mm) rotation resistant compacted strand 18 x 19 or 19 x 19. Min. breaking strength 22.6 tons (20.6 mt).

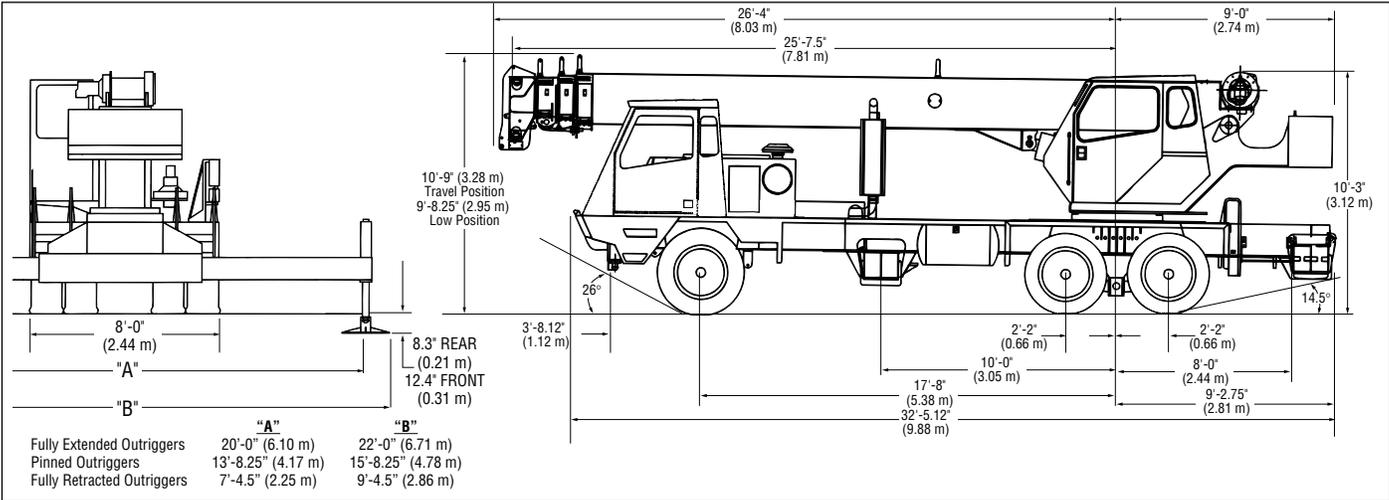
## ENGINE SPECIFICATIONS

Make and Model	Cummins 6CTAA-8.3L(250 hp)
Type	6 cylinder
Bore and Stroke	4.49 x 5.32 in. (114 x 135 mm)
Displacement	504.5 cu. in. (8.27 l)
Max. Gross Horsepower	250 hp (186 kw) @ 2200 rpm
Max. Gross Torque	800 lbs•ft. (111 kg•m)/1300 rpm
Net Horsepower	222 hp (165 kw) @ 2200 rpm
Aspiration	turbocharged
Electrical System	12 volt
Alternator	100 amp
Battery	(2) 12V-1600 C.C.A. @ 0°F (-18°C)
Fuel Capacity	60 gal (227 l)

## SPEED AND GRADEABILITY

ENGINE TRANSMISSION	SPEED RANGE	GRADEABILITY
Cummins Manual	60 mph (96 km/h)	56%
Cummins Automatic	60 mph (96 km/h)	64%

# GENERAL DIMENSIONS



WEIGHTS & AXLE LOADS	GROSS WEIGHT LBS.	UPPER IN TRAVEL POSITION		GROSS WEIGHT KG.	UPPER IN TRAVEL POSITION	
		FRONT	REAR		FRONT	REAR
<b>Basic Crane with 6CTAA-8.3L, Engine, 94' (28.49 m) Boom, 2,000 + 500 lb. (907 + 227 kg) Cwt., 1/4 Tank of fuel, 425/65Rx22.5 18 PR Front and 10.00x20 14 PR Rear Tires with Disc Wheels, and 200 lb. Operator in cab.</b>	<b>46,513</b>	<b>15,382</b>	<b>31,131</b>	<b>21,098</b>	<b>6,977</b>	<b>14,121</b>
Add Options:						
26" (7.92 m) Swing-on Jib	+ 1,040	+ 808	+ 232	+ 472	+ 366	+ 106
26'-43" (7.92 - 13.11 m) Swing-on Jib	+ 1,491	+ 1,077	+ 414	+ 676	+ 489	+ 187
Auxiliary Boom Head	+ 100	+ 180	- 80	+ 45	+ 82	- 37
Full Tank of Fuel	+ 315	+ 120	+ 195	+ 142	+ 54	+ 88
Auxiliary Winch W/Drum Roller and Wire Rope (Hwy Cwt)	+ 19	- 1	+ 18	+ 8	+ 0	+ 8
Heater/Defroster (Upper)	+ 60	- 5	+ 65	+ 27	- 2	+ 25
Work Lights	+ 35	+ 5	+ 30	+ 16	+ 2	+ 18
Pintle Hook (Rear)	+ 50	- 26	+ 76	+ 23	- 12	+ 34
Electric Remote Control	+ 200	+ 100	+ 100	+ 91	+ 45	+ 45
30 ton (27.2 mt) Quick Reeving Hook Block (On Bumper - 4 Sheave)	+ 655	+ 924	- 269	+ 297	+ 441	- 128
30 ton (27.2 mt) Quick Reeving Hook Block (On Bumper - 3 Sheave)	+ 670	+ 945	- 275	+ 304	+ 429	- 125
25 ton (22.7 mt) Quick Reeving Hook Block (On Bumper - 2 Sheave)	+ 682	+ 962	- 280	+ 309	+ 436	- 127
7 ton (6.3 mt) Hook and Ball (At boom rack)	+ 240	+ 145	+ 95	+ 109	+ 66	+ 43
<b>Substitute:</b>	- 1,954	- 2,122	+ 168	- 886	- 962	+ 76
30'-72" (9.23-22.19 m) Boom W/3, 100 lb. (1406 kg) Upper Cwt & 500 lb. (227 kg) F. Bumper						
7,200 lb. (3266 kg) Upper Cwt.w/1,850 lb. (839 kg) Bumper (94' Boom)	+ 6,636	- 619	+ 7,255	+ 3010	- 281	+ 3291
7,200 lb. (3266 kg) Upper Cwt.w/1,850 lb. (839 kg) F. Bumper (72" Boom)	+ 5,445	+ 758	+ 4,687	+ 2470	+ 344	+ 2126
Aux. Winch w/Drum Roller For Heavy Cwt (above)	+ 5	+ 5	+ 0	+ 2	+ 2	0
Add for Spin Resistant Wire Rope (per winch)	+ 19	- 1	+ 18	+ 8	0	+ 8
360° Mechanical House Lock	+ 85	0	+ 85	+ 39	0	+ 39
Aluminum Disc Wheels (Std Tires)	- 366	- 134	- 232	- 166	- 61	- 105
Automatic Transmission	0	0	0	0	0	0
Automatic Transmission w/2-spd Aux & 2 -spd Axles	+ 510	+ 300	+ 210	+ 231	+ 136	+ 95

**NOTE:** Weights are for factory supplied equipment and subject to 2% variation due to manufacturing tolerances.

WE RESERVE THE RIGHT TO AMEND THESE SPECIFICATIONS AT ANY TIME WITHOUT NOTICE. THE ONLY WARRANTY APPLICABLE IS OUR STANDARD WRITTEN WARRANTY APPLICABLE TO THE PARTICULAR PRODUCT AND SALE. WE MAKE NO OTHER WARRANTY, EXPRESSED OR IMPLIED.



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