TEREX

CAL CRANE & EQUIPMENT

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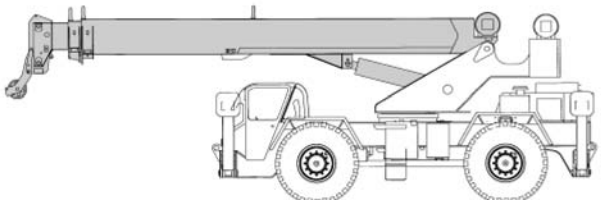
Rough Terrain Crane Specifications | CD200 Series



STANDARD BOOM EQUIPMENT

BOOM

26-61' (8.05-18.72 m), three section full power, mechanically synchronized boom. The synchronization system consists of a single telescope cylinder and high strength leaf chains to extend and retract the third section. Utilizes high-strength four plate construction welded inside and out with embossed side plate holes to reduce weight and increase strength. Boom sections are supported on anti-friction slide pads. Single boom hoist cylinder provides -4 to 76 degrees of boom elevation. All cylinders are equipped with integral hold valves. Maximum tip height is 68' (20.78 m).

BOOM HEAD

Welded to third 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.

OPTIONAL BOOM EQUIPMENT

MAIN BOOM

30-72' (9.23-22.19 m), three-section full power mechanically synchronized boom. The synchronization system consists of a single telescope cylinder and high strength leaf chains to extend and retract the third section. Utilizes high-strength four plate construction welded inside and out with embossed side plate holes to reduce weight and increase strength. Boom sections are supported on anti-friction slide pads. Single boom hoist cylinder provides -4 to 76 degrees of boom elevations. All cylinders are equipped with integral hold valves. Maximum tip height is 79' (24.23 m).

JIBS

26' (7.93 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 103' (31.51 m). 26-43' (7.93-13.11 m) side stow swing-on lattice type jib. Single sheave mounted on anti-friction bearing. Jib is extendable to 43' (13.11 m) by means of a 17' (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 121' (36.73 m).

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 heavy-duty hook latch.

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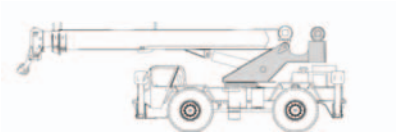
ROUGH TERRAIN CRANE

CD200 SERIES

STANDARD UPPERSTRUCTURE EQUIPMENT

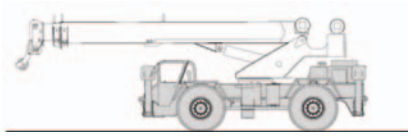


UPPERSTRUCTURE FRAME

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 motor is equipped with a counterbalance valve. Swing speed (no load) is 3.0 rpm.

SWING BRAKE

Heavy duty multiple disc swing brake is spring set and air released from operator's cab. Control is by electrical switch. An air operated two position house lock is standard.

OPTIONAL EQUIPMENT

Auxiliary Winch, 360° House Lock, Rotating Beacon, Work lights, 3rd Wrap Indicator

STANDARD CARRIER EQUIPMENT

OPERATOR'S CAB

Environmental cab with all steel construction, large glass area provides optimum visibility, tinted safety glass throughout, and rubber floor matting. Cab is mounted low to enable entry from ground level. The cab has a hinged door on the left side and sliding windows in the door, on the right side and rear. Acoustical foam padding insulates against sound and weather. The deluxe six-way adjustable operator's seat is fully adjustable and equipped with air suspension.

RATED CAPACITY INDICATOR

Rated Capacity Indicator with visual and audible warming system and automatic function disconnects. Display includes actual load and percentage of allowable load registered by bar graph. Anti-two block system includes audio/visual warning and automatic function disconnects.

CONTROLS

All control levers and pedals are positioned for efficient operation. Hand operated control levers include swing, telescope, boom hoist, winch(s), shift, vernier adjustable hand throttle. Switches include ignition, range shift, steer mode, outrigger controls, travel lights, parking brake, swing brake, and two position house lock. Foot control pedals include service brakes and accelerator.

INSTRUMENTATION AND ACCESSORIES

In-cab gauges include bubble level, engine oil pressure, fuel level, engine temperature, voltmeter, transmission temperature, and transmission oil pressure. Indicators include high water temperature/low oil pressure/high transmission temperature audio/visual warning, low coolant audio/visual warning, (hoist drum rotation indicator), and Rated Capacity Indicator. Accessories include fire extinguisher; light package including headlights, tail lights, brake lights, directional signals, four-way hazard flashers, and back-up lights with audio pulsating back-up alarm; windshield washer/wiper and skylight wiper; R.H. and L.H. rear view mirrors; dash lights; and seat belt.

HYDRAULIC CONTROL VALVES

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

CARRIER CHASSIS

Chassis is Terex designed with four-wheel drive and four-wheel steer (4x4x4). Has box-type construction with reinforcing cross members, a precision machined turntable mounted plate and integrally welded outrigger boxes. Decking has skid-resistant surfaces, includes access steps and handles on left and right sides. Four interchangeable fenders are installed standard.

AXLES AND SUSPENSION

Rear axle is a planetary drive/steer type with automatic oscillation lockouts that engage when the superstructure is swung 10° in either direction. Front axle is a planetary drive/steer type, rigid mounted to the frame for increased stability.

SERVICE BRAKES

Air over hydraulic drum type brakes on all four wheels; 17" x 4" (43.18 x 10.2 cm) drum brakes.

PARKING BRAKES

Transmission mounted spring-set, air released external caliper disk type emergency/parking brake sets automatically when ignition is turned off or in the event of loss of system air.

STEERING

Hydraulic four-wheel power steering for two-wheel, four-wheel or crab steer is easily controlled by steering wheel.
Turning radius to center or outside tire.

	(standard tires)	(optional tires)
Two-wheel:	19' 3.44" (5.88 m)	19' 5" (5.92 m)
Four-wheel:	34' 8.81" (10.59 m)	34' 10.38" (10.63 m)

STANDARD CARRIER EQUIPMENT (CONTINUED)

TRANSMISSION

Range-shift type power-shift transmission with integral torque converter has neutral safety start, six speeds forward, and six speeds reverse. Automatic pulsating back-up alarm.

WHEELS AND TIRES

Disc type wheels with full tapered bead seat rim, 121" (3.07 m) wheel base.

TIRES

Standard	14.00 x 24, 20 P.R.
Optional	20.5 x 25, 20 P.R.

OUTRIGGERS

Flipper style fully independent hydraulic outriggers extend 14' 6" (4.42 m) centerline to centerline. Steep floats are swivel connected. Each has an area of 221in^2 (1429 cm^2), do not need to be removed for transport. Complete controls and sight leveling bubble are located in the operator's cab.

OPTIONAL EQUIPMENT

Cold Weather Starting Aid, Immersion Heater, Rear Axle Centering Light, Independent Rear Wheel Steer, Pintle Hook, Clearance Lights, Tachomenter, Air Conditioner, Front Mounted Winch - 20,000 lb (9 072 kg), Hot Water Heater

HYDRAULIC SYSTEM

HYDRAULIC PUMPS

Three gear type pumps, one single and two in tandem, with a manual pump disconnect, driven off the transmission. Combined system capacity is 91 gpm (347.4 lpm)

Main and Auxiliary Winch Pump
- 40.6 gpm (153.7 lpm) @ 3,500 psi (246.1 kg/cm^2)

Boom Hoist and Telescope Pump
- 30.2 gpm (114.3 lpm) @ 3,500 psi (246.1 kg/cm2)

Power Steering, Outrigger and Winch Boost Pump
- 21 gpm (79.5 lpm) @ 2,500 psi (175 kg/cm2)

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 filter.

HYDRAULIC RESERVOIR

All steel, 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 L). Swing-away hydraulic oil cooler is standard.

MAIN WINCH SPECIFICATIONS

Hydraulic winch with bent axis motor and planetary reduction provides two-speed operation with equal speeds for power up and down. Winch is equipped with an integral automatic brake and a grooved drum with tapered flanges for improved rope spooling.

Performance	LO-Range	HI-Range
Max. line speed (no load)		
First layer	157 fpm (47.8 m/min)	252 fpm (76.8 m/min)
Fifth layer	227 fpm (69.2 m/min)	364 fpm (110.9 m/min)
Max. line pull-first layer	12,510 lb (5674 kg)	7,298 lb (3310 kg)
Max. line pull-fifth layer	8,662 lb (3929 kg)	5,052 lb (2291 kg)
Permissible line pull	9,000 lb (4082 kg)	

Drum Dimensions	Drum Capacity
10.62" (270 mm) drum diameter	Max. Storage: 570' (173.7 m)
17.55" (446 mm) length	6th layer not a working layer
18" (457 mm) flange dia.	Max. Usage: 455' (138.7 m)*

- Cable: 5/8" x 450' (16 mm x 137.2 m)
- Cable type: 5/8" (16 mm) 6 x 19 IWRC IPS right regular lay, preformed. Min. breaking strength 17.9 tons (16.2 mt).

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

ENGINE SPECIFICATIONS

	Standard
Make and Model	**Cummins 6BTA5.9**
Type	6 Cylinder
Bore and Stroke	4.02x4.72" (102x120 mm)
Displacement	359 cu in (5.9 L)
Max. Gross HP	130 hp (97 kw)@2500 rpm
Max. Gross Torque	384 lb•ft (521 N•m) @1200 rpm
Aspiration	Turbocharged
Air Filter	Dry Type
Electrical System	12 volt
Alternator	102 amp
Battery	(2) 12V-1600 C.C.A.
Fuel Capacity	50 gal (189 L)

OPTIONAL AUXILIARY WINCH

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

PERFORMANCE (STANDARD ENGINE)

Trans-mission Range	Gear	Forward Drive	Max. Speed	Max. Tractive Effort	Gradeability @ Stall
Low	1	4-Wheel	2.3 mph 3.7 km/h	37,856 lb 17 171 kg	112.34%
	2	4-Wheel	4.4 mph 7.1 km/h	19,254 lb 8 734 kg	39.84%
	3	4-Wheel	12.4 mph 20.0 km/h	6,431 lb 2 917 kg	11.10%
High	1	2-Wheel	5.0 mph 8.0 km/h	16,893 lb 7 663 kg	34.04%
	2	2-Wheel	9.5 mph 15.3 km/hr	8,589 lb 3 896 kg	15.59%
	3	2-Wheel	24.5 mph 39.4 km/h	2,849 lb 1 292 kg	3.77%

OPTIONAL HOIST LINE

Main winch and optional auxiliary winch-5/8" (16 mm) rotation resistant compacted strand 18x19 or 19x19. Min breaking strength 22.6 tons (20.6 mt).

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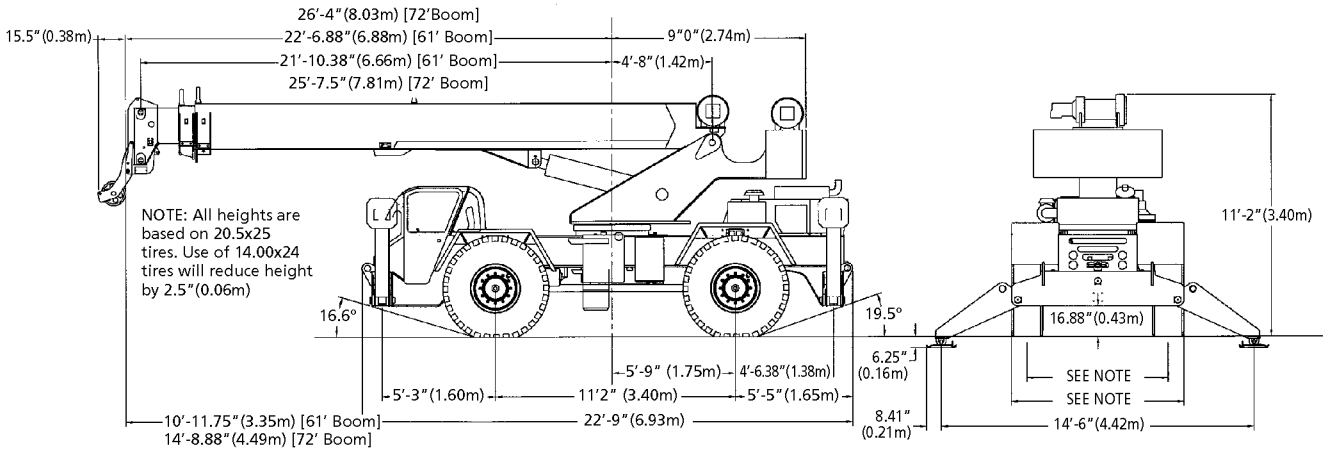
GENERAL DIMENSIONS

1. Dimensions given assume the boom is fully retracted in travel position

2. Minimum ground clearance under:	transmission:	19.62" (0.50 m)		14.00x24-20PR	20.5x25-24PR
	axle bowls :	18.12" (0.46 m)	Track width:	6'7.9" (2.03 m)	6'-10.5" (2.10 m)
	tie rods:	19.38" (0.49 m)	Overall Width:	8' (2.44 m)	8' 8" (2.64 m)



WEIGHTS & AXLE LOADS	GROSS WEIGHT LB	UPPER FACING FRONT		GROSS WEIGHT KG	UPPER FACING FRONT	
		FRONT	REAR		FRONT	REAR
Basic Crane with 61' Boom, 7,200 lb (3 266 kg) Counterweight, 14.00 x 24-20 PR Tires	42,534	20,480	22,054	19 293	9 290	10 003
Add Options:						
26'-43' (7.92-13.10 m) Swing-on jib (61' Boom)	+ 1,490	+ 1944	- 454	+ 676	+ 822	- 206
26'-43' (7.92-13.10 m) Swing-on jib (72' Boom)	+ 1,490	+ 2,489	- 999	+ 676	+ 1 129	- 413
Auxiliary Boom Head (61' Boom)	+ 100	+ 257	- 158	+ 45	+ 117	- 72
Auxiliary Boom Head (72' Boom)	+ 100	+ 290	+ 191	+ 45	+ 432	+ 87
Auxiliary Winch with Wire Rope, Controls, etcl	+ 115	- 25	+ 140	+ 52	- 11	+ 63
25T (22.6 mt) 2-Sheave Hook Block	+ 682	+ 1,155	- 473	+ 309	+ 524	- 215
7.0T Hook and Ball (In tool box)	+ 240	+ 81	159	+ 109	+ 37	- 72
Pintle Hook:						
Front	+ 45	+ 67	22	+ 20	+ 30	- 10
Rear	+ 45	- 25	+ 70	+ 20	- 11	+ 31
Substitute:						
72' (21.95 m) Full Power 3-Section Boom	+ 1,124	+ 2,943	- 1,819	+ 510	+ 1 335	- 825
20.5x25-24PR Tires	+ 1,402	+ 701	+ 701	+ 636	+ 318	+ 318

Note: Weights are for Terex supplied equipment and are subject to 2% variation due to manufacturing tolerances.

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