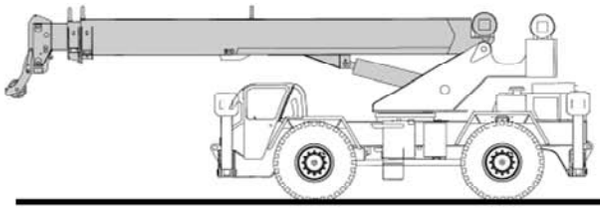
TEREX

CD225

rough terrain crane specifications



STANDARD BOOM EQUIPMENT

BOOM

26-61 ft. (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 ft. (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 ft. (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 elevation. All cylinders are equipped with integral hold valves. Maximum tip height is 79 ft. (24.23 m).

JIBS

26 ft. (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 ft. (31.51 m).

26-43 ft. (7.93-13.11 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 121 ft. (36.73 m).

AUXILIARY BOOM HEAD

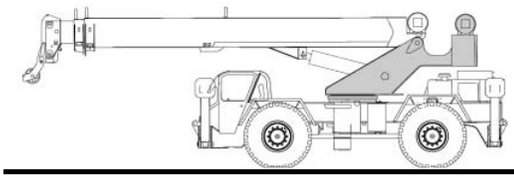
Removable auxiliary boom head has single sheave mounted on anti-friction bearing. Removable pin-type rope guard for quick reeving. Installs on main boom peak only. Removal is not required for jib use.

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.

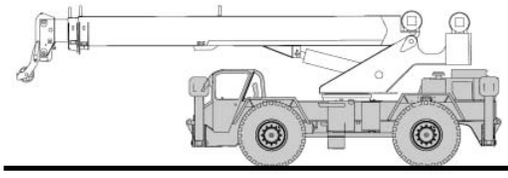


STANDARD UPPERSTRUCTURE EQUIPMENT

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 warning 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 BRAKE
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, 6 speeds forward, and 6 speeds reverse. Automatic pulsating back-up alarm.

WHEELS & TIRES

Disc type wheels with full tapered bead seat rim, 121 in. (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 ft. 6 in. (4.42 m) centerline to centerline. Steel floats are swivel connected. Each has an area of 221 in2 (1429 cm2), 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 Staring Aid • Immersion Heater • Rear Axle Centering Light • Independent Rear Wheel Steer • Pintle Hook • Clearance Lights • Tachometer • Air Conditioner • Front Mounted Winch – 20,000 lbs. (9072 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, Telescope Pump
30.2 gpm (114.3 lpm) @ 3,500 psi (246.1 kg/cm^2)

Power Steering, Outrigger and Swing Pump
21 gpm (79.5 lpm) @ 2,500 psi (175 kg/cm^2)

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 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 liters). Swing-away hydraulic oil cooler is standard.

MAIN WINCH SPECIFICATIONS

Hydraulic winch with bent axis motor and planetary reduction provides 2-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 lbs (5674 kg)	7,298 lbs (3310 kg)
Max. line pull-fifth layer	8,662 lbs (3929 kg)	5,052 lbs (2291 kg)
Permissible line pull	9,000 lbs (4082 kg)	

DRUM DIMENSIONS	DRUM CAPACITY
10.62 in (270 mm) drum diameter 17.55 in (446 mm) length 18.0 in (457 mm) flange dia. Cable: ⅝" x 450 ft. (16 mm x 137.2 m) Cable type: ⅝" (16 mm) 6x19 IWRC IPS right regular lay, preformed. Min. breaking strength 17.9 tons (16.2 mt).	Max. Storage: 570 ft (173.7 m) 6th layer not a working layer Max. Usable: 455 ft. (138.7 m)* *Based on minimum flange top layer to comply with ANSI B30.5

OPTIONAL AUXILIARY WINCH

SPECIFICATIONS

(Same as main winch)

PERFORMANCE

(Same as main winch)

DRUM DIMENSIONS AND CAPACITY

(Same as main winch)

OPTIONAL HOIST LINE

MAIN WINCH AND OPTIONAL AUXILIARY WINCH – ⅝" (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 4BA3.9 (Std.)	Caterpillar 3116 DIT (Opt.)
Type	4 cylinder	6 cylinder
Bore and Stroke	4.02 x 4.72 in. (102 x 120 mm)	4.12 x 5.0 in (105 x 127)
Displacement	239 cu. in. (3.91)	402 cu in (6.6.1)
Max. Gross HP	130 hp (97 kw) @ 2500 rpm	140 hp (105 kw) @ 2400 rpm
Max. Gross Torque	368 lb •ft. (499 N •m) @ 1200 rpm	426 lb •ft. (578 N •m) @ 1400 rpm
Aspiration	turbocharged and aftercooled	turbocharged
Air Filter	dry type	dry type
Electrical System	12 volt	12 volt
Alternator	102 amp	115 amp
Battery	(2) 12V-1600 CCA	(2) 12V - 1600 CCA
Fuel Capacity	50 gal (1891)	50 gal (1891)

PERFORMANCE (Standard Engine)

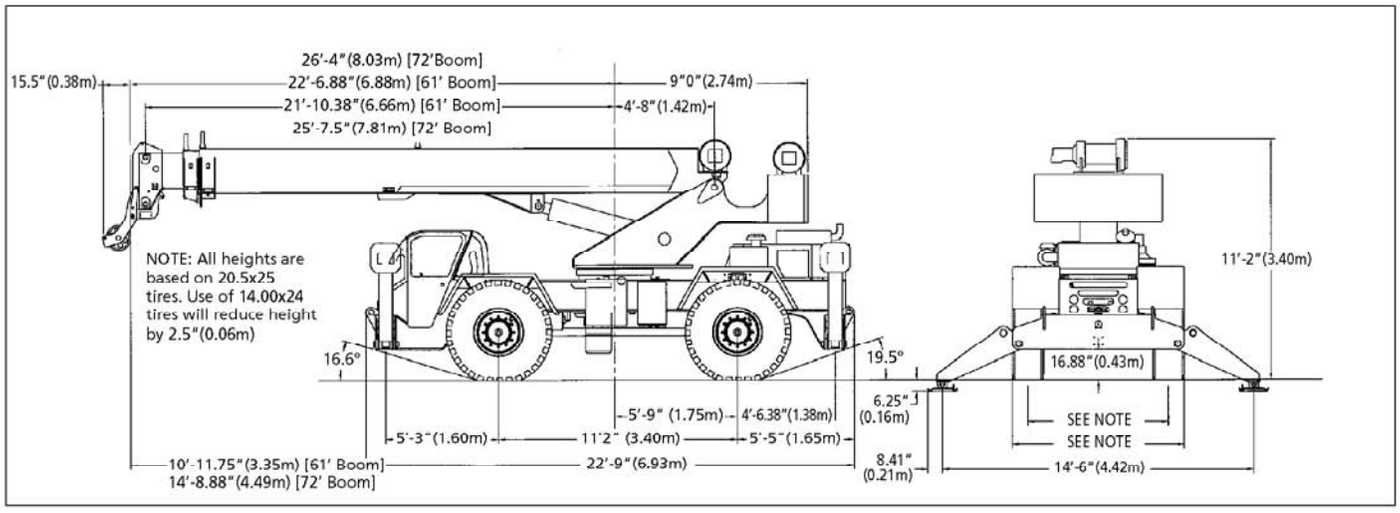
Transmission Range	Gear	Maximum Speed	Maximum Tractive Effort	Gradeability @ Stall
Low	1	1.9 mph (3.1 km/h)	40,510 lbs. (18 372 kg)	150.4%
	2	3.7 mph (6.0 km/h)	20,608 lbs. (9348 kg)	45.2%
	3	11.2 mph (18.0 km/h)	6,869 lbs. (3111 kg)	12.5%
High	1	4.2 mph (6.8 km/h)	18,076 lbs. (8199 kg)	38.6%
	2	8.3 mph (13.4 km/h)	9,185 lbs. (4166 kg)	17.6%
	3	24.5 mph (39.4 km/h)	3,042 lbs. (1380 kg)	4.4%

GENERAL DIMENSIONS

NOTES:

1. Dimensions given assume the boom is fully retracted in travel position.
2. Minimum ground clearance under:

			14.00x24-20PR	20.5x25-24PR
transmission	- 19.62" (0.50 m)	Track Width	6'7.9" (2.03 m)	6'-10.5" (2.10 m)
axle bowls	- 18.12" (0.46 m)	Overall Width	8'-0" (2.44 m)	8'-8" (2.64 m)
tie rods	- 19.38" (0.49 m)			



WEIGHTS & AXLE LOADS	GROSS WEIGHT LBS.	UPPER FACING FRONT		GROSS WEIGHT KG.	UPPER FACING FRONT	
		FRONT	REAR		FRONT	REAR
Basic Crane with 61' Boom, 7,200 lb. (3266 kg) Counterweight, 14,00 x 24 - 20 PR Tires	42,534	20,480	22,054	19 293	9290	10 003
Add Options: 26'-43' (7.92-13.10 m) Swing-on jib (61' Boom)	+ 1,490	+ 1,944	- 454	+ 676	+ 822	- 206
26'-43' (7.92-13.10 m) Swing-on Jib (72' Boom)	+ 1,490	+ 2,489	- 999	+ 676	+ 1129	- 413
Auxiliary Boom Head (61' Boom)	+ 100	+ 257	– 158	+ 45	+ 117	- 72
Auxiliary Boom Head (72' Boom)	+ 100	+ 290	+ 191	+ 45	+ 132	+ 87
Auxiliary Winch with Wire Rope, Controls, etc.	+ 115	- 25	+ 140	+ 52	- 11	+ 63
21 T (22.6 mt) 2-Sheave Hook Block	+ 682	+ 1,155	- 473	+ 309	+ 524	- 215
7.0 T Hook and Ball (In tool box)	+ 240	+ 81	- 159	+ 109	+ 37	- 72
Pintle Hook: Front Rear	 + 45 + 45	 + 67 - 25	 - 22 + 70	 + 20 + 20	 + 30 - 11	 - 10 + 31
Substitute: 72' (21.95 m) Full Power 3-Section Boom	+ 1,124	+ 2,943	- 1,819	+ 510	+ 1335	- 825
20.5 x 25 - 24PR Tires	+ 1,402	+ 701	+ 701	+ 636	+ 318	+ 318

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

TEREX

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