TEREX LIFTING

TEREX
CD 200 SERIES
Rough Terrain Cranes

FEATURES

- **20-25 tons (18-22 mt) maximum lifting capacity**
- **72 ft. (21.9 m) maximum boom length**
- **121 ft. (36.9 m) maximum tip height**
- Three-section full power, mechanically synchronized boom with single lever control
- Side stow swing-on jib offsettable 0°, 15° or 30°
- Two-speed main and auxiliary winches
- Quick reeving boom head and hook block
- Flipper style, fully independent outriggers
- Easy entry environmental operator's cab optimizes visibility and productivity
- RCI 500 load system Rated Capacity Indicator
- Easy to read load chart books include range diagrams
- 12-month or 2000 hours warranty, major weldments are 5-years or 10,000 hours

simple, available and cost effective™

Machines shown may have optional equipment.

TEREX CD 200 SERIES

Rough Terrain Cranes

CD 200 – 20 tons (18 mt)
CD 222 – 22 tons (20 mt)
CD 225 – 25 tons (22 mt)

61-ft. (18.6 m) or 72 ft. (21.9 m) THREE-SECTION, FULL-POWER, MECHANICALLY SYNCHRONIZED BOOM WITH SINGLE LEVER CONTROL

- High strength, four plate construction welded inside and out with embossed side plate holes to reduce weight and increase strength.
- Single boom hoist cylinder provides boom elevation of -4° to 76° for easier reeving changes and close radius operation.
- Quick-reeving boom head; no need to remove wedge from socket.
- 360° house lock standard.

ENVIRONMENTAL OPERATOR'S CAB

- Rated Capacity Indicator (RCI) system including anti-two block system with automatic function disconnects.
- Deluxe six-way adjustable operator's seat has air suspension.
- Sound and weather insulated for comfort.
- Large glass area provides optimum visibility. Tinted safety glass throughout.
- Low mounted cab enables easy entry from ground level.
- Hand mounted control levers for swing, boom telescope and boom hoist; foot control pedals for accelerator and service brake.
- Complete instrumentation. Environmentally-sealed rocker switches. Circuit breakers in cab.

RUGGED, EASY-TO-MANEUVER CARRIER

- Box-type chassis construction with reinforcing cross members.
- Range-shift type power-shift transmission with integral torque converter; neutral start; 6 speeds forward 6 reverse.
- Hydraulic four-wheel power steering for 2-wheel, 4-wheel or crab steer.
- Air over hydraulic drum type brakes on all four wheels
- Flipper style fully independent hydraulic outriggers.
- Tail swing only 9 ft. (2.74 m).
- Standard Cummins 4BA3.9 diesel engine.
- Standard 14.00 x 24, 20 P.R. tires.
- Tachometer and rear axle centering light standard.

POWERFUL, TWO-SPEED WINCHES

- 364 fpm (111 m/min) maximum line speed. 12,510 lbs. (5674 kg) maximum line pull. Single lever control.
- Integral automatic brake.
- Grooved drum, tapered drum flanges for improved rope spooling.

HIGH CAPACITY, DEPENDABLE HYDRAULIC SYSTEM

- Three gear pumps driven off the transmission. Combined system capability is 91 gpm (344 lpm).
- Hydraulic reservoir with 94 gal. (355 l) capacity and full flow oil filtration system.

OPTIONS INCLUDE:

- 26 ft. or 26 to 43 ft. (7.92 or 7.92 to 13.11 m) swing-on jib. Both offset 0°, 15° or 30°.
- Auxiliary winch with rope.
- Heater, defroster, air conditioner.
- Cold weather starting aid.
- 20.5 x 25, 20 P.R. tires.
- CAT 3116 DIT diesel engine.

For more information, product demonstration, or details on purchase, lease and rental plans, please contact your local Terex Cranes Distributor.

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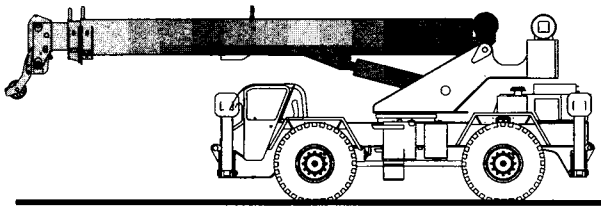
10U100T34

TEREX LIFTING

TEREX® CD 200 SERIES

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

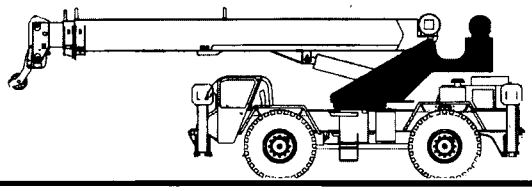
Removable auxiliary boom head has single sheave mounted on anti-friction bearing. Removable pin-type rope guard for quick reeving. Installs on main boom peak only. Removal is not required for jib use.

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.

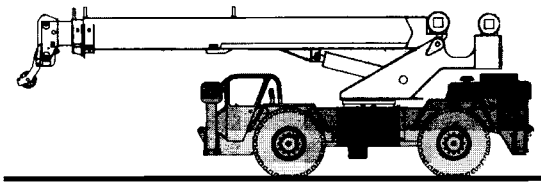


STANDARD UPPERSTRUCTURE EQUIPMENT

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/cm²)

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

Power Steering, Outrigger and Swing 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 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)

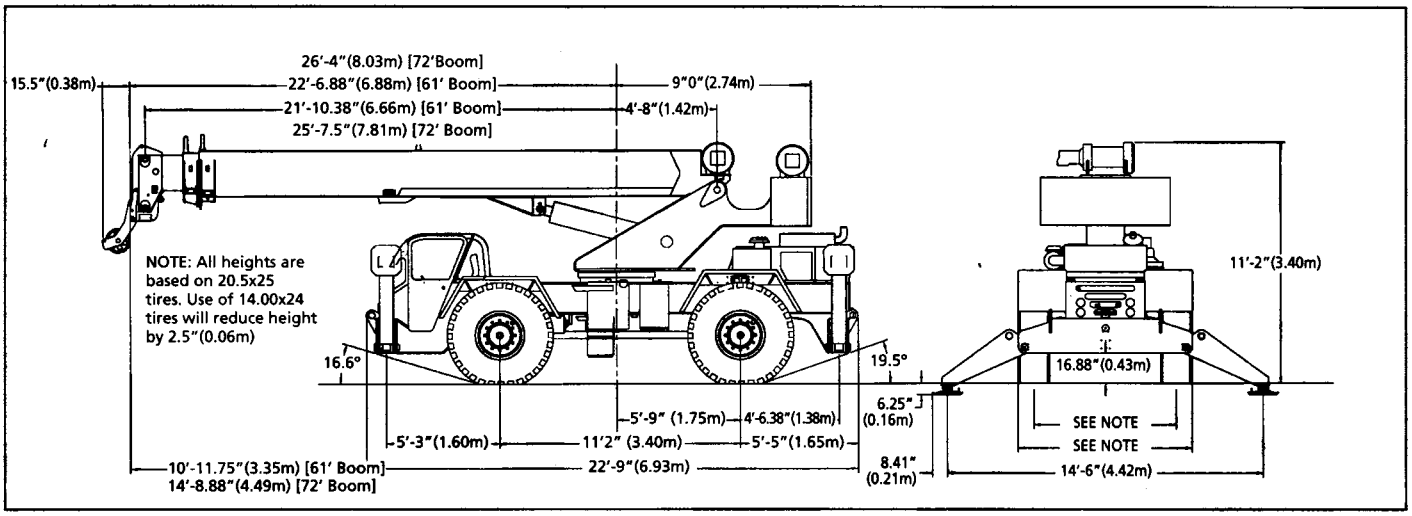
Transmission Range	Gear	Maximum Speed	Maximum Tractive Effort	Gradeability @ Stall
Low	1	1.9 mph (3.1 km/h)	40,510 lbs. (18 372 kg)	150.4%
	2	3.7 mph (6.0 km/h)	20,608 lbs. (9348 kg)	45.2%
	3	11.2 mph (18.0 km/h)	6,869 lbs. (3111 kg)	12.5%
High	1	4.2 mph (6.8 km/h)	18,076 lbs. (8199 kg)	38.6%
	2	8.3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

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'-0" (2.44 m)	8'-8" (2.64 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 CRANES
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Litho in U.S.A.
5L798P90

TEREX LIFTING

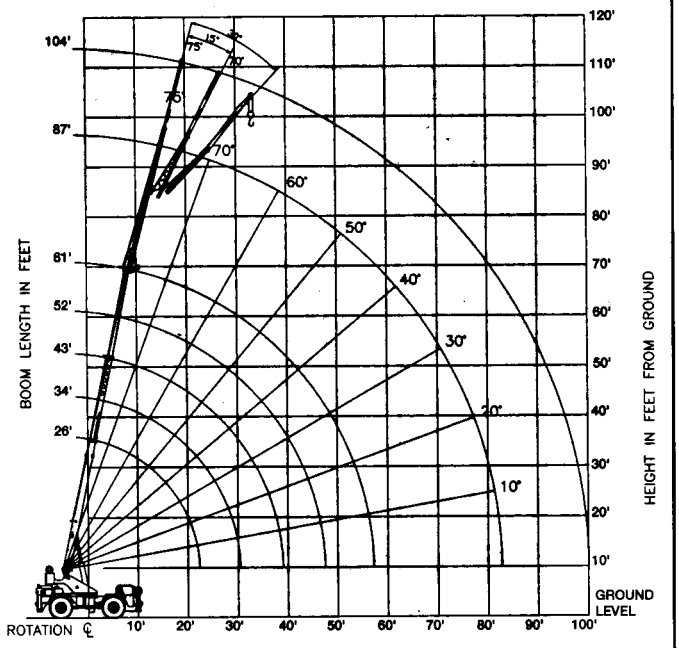
TEREX® CD 225

rough terrain crane
25 ton capacity

range diagrams & lifting capacities

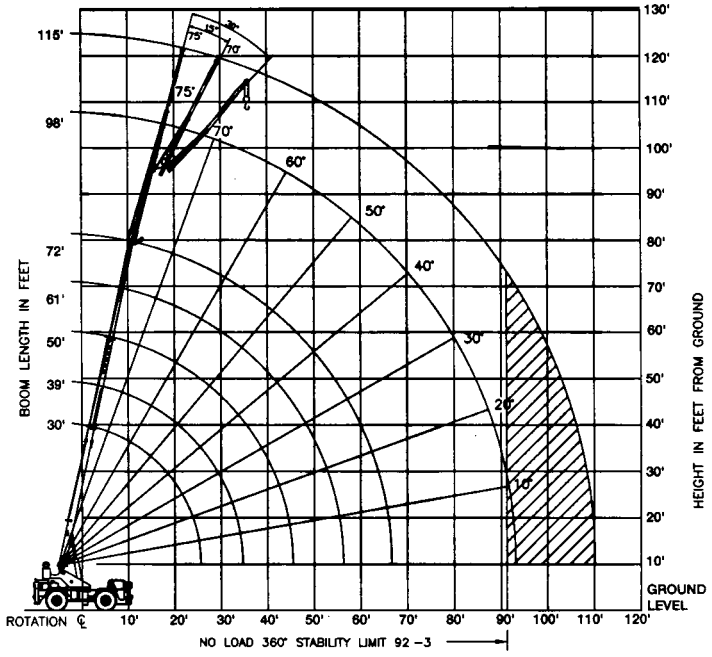
Range Diagram (26'-61' boom)

BOOM DEFLECTIONS NOT SHOWN

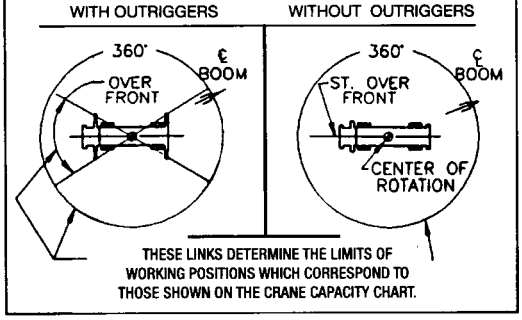


Range Diagram (30'-72' boom)

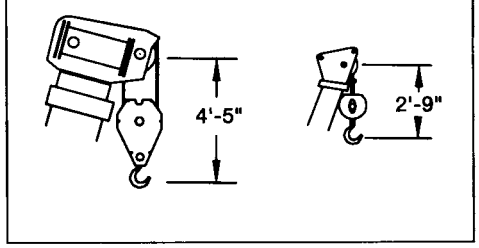
BOOM DEFLECTIONS NOT SHOWN



CRANE WORKING POSITIONS



THESE LINKS DETERMINE THE LIMITS OF WORKING POSITIONS WHICH CORRESPOND TO THOSE SHOWN ON THE CRANE CAPACITY CHART.



Dimensions are for largest factory furnished hook block and hook & ball with anti-two block activated.

HOOK BLOCK WEIGHTS

Hook & Ball	239 Lbs.
Hook Block (2 Sheave)	680 Lbs.
Hook Block (3 Sheave)	660 Lbs.
Hook Block (4 Sheave)	660 Lbs.

Lifting Capacities – Pounds (26'-61' boom)

MODEL CD 225

COUNTERWEIGHT:
W/AUX. WINCH 6,100 LBS.
W/O AUX. WINCH 7,200 LBS
BOOM LENGTH 26 - 61 FT.
OUTRIGGER SPREAD 14'-6"

STABILITY PCT.
ON OUTRIGGERS 85%
ON TIRES 75%
PCSA CLASS 10-68

ON OUTRIGGERS

LOAD RADIUS (FT)	BOOM LENGTH 26 FT			BOOM LENGTH 34 FT			BOOM LENGTH 43 FT			BOOM LENGTH 52 FT			BOOM LENGTH 61 FT			LOAD RADIUS (FT)
	LOADED BOOM ANGLE (DEG)	OVER FRONT (LB)	360° (LB)	LOADED BOOM ANGLE (DEG)	OVER FRONT (LB)	360° (LB)	LOADED BOOM ANGLE (DEG)	OVER FRONT (LB)	360° (LB	LOADED BOOM ANGLE (DEG)	OVER FRONT (LB)	360° (LB)	LOADED BOOM ANGLE (DEG)	OVER FRONT (LB)	360° (LB)	
10	58.7	50,000*	50,000*	66.3	45,300*	45,300*	71.5	42,900*	42,900*							10
12	53.3	44,000*	44,000*	62.5	40,900*	40,900*	68.7	38,600*	38,600*	72.5	36,900*	36,900*				12
15	44.4	36,100*	34,800*	56.6	35,900*	35,300*	64.3	33,600*	33,600*	69.0	32,100*	32,100*	72.2	29,600*	29,600*	15
20	23.9	25,600*	21,600	45.6	26,200*	22,100	56.5	26,500*	22,300	62.9	26,500*	22,400	67.2	24,200*	22,500	20
25	**			31.6	19,900*	14,900	48.0	20,300*	15,100	56.5	20,500*	15,200	62.0	20,500*	15,300	25
30				**			38.0	16,100*	11,100	49.5	16,400*	11,200	56.5	16,500*	11,300	30
35							24.7	13,100*	8,400	41.7	13,400*	8,600	50.6	13,500*	8,700	35
40							**			32.3	11,100*	6,800	44.1	11,300*	6,900	40
45										19.1	9,400*	5,400	36.7	9,600*	5,600	45
50										**			27.7	8,200*	4,500	50
55													13.9	7,000*	3,700	55

**MAXIMUM CAPACITY AT 0 DEGREE BOOM ANGLE

BOOM LENGTH 26 FT			BOOM LENGTH 34 FT			BOOM LENGTH 43 FT			BOOM LENGTH 52 FT			BOOM LENGTH 61 FT		
LOAD RADIUS (FT)	OVER FRONT (LB)	360° (LB)	LOAD RADIUS (FT)	OVER FRONT (LB)	360° (LB)	LOAD RADIUS (FT)	OVER FRONT (LB)	360° (LB)	LOAD RADIUS (FT)	OVER FRONT (LB)	360° (LB)	LOAD RADIUS (FT)	OVER FRONT (LB)	360° (FT)
21.9	22,800*	18,000	29.5	15,900*	10,900	38.5	11,400*	7,000	47.5	8,600*	4,800	56.5	6,700*	3,400

ON TIRES

RADIUS (FT)	MAX BOOM LENGTH (FT)	14.00 X 24–24PR				20.50 X 25–24PR				RADIUS (FT)
		STATIONARY		PICK & CARRY CREEP	PICK & CARRY 2.5 MPH	STATIONARY		PICK & CARRY CREEP	PICK & CARRY 2.5 MPH	
		360°	STRAIGHT OVER FRONT			360°	STRAIGHT OVER FRONT			
10	30	19,700*	33,000*	24,900*	20,900*	22,400	44,100*	35,600*	24,200*	10
12	30	14,700*	28,700*	21,500*	18,000*	16,600	31,400	30,900*	20,800*	12
15	39	10,700*	21,000	17,600*	14,600*	11,600	20,500	20,500	17,000*	15
20	39	6,500	12,800	12,800	10,700*	6,700	12,000	12,000	12,000	20
25	50	4,500	8,600	8,600	8,200*	4,400	8,700	8,700	8,700	25
30	50	3,300	6,400	6,400	6,400	3,400	6,500	6,500	6,500	30
35	50	2,200	5,000	5,000	5,000	2,500	5,000	5,000	5,000	35
40	61	1,300	4,000	4,000	4,000	1,700	3,800	3,800	3,800	40
45	61		3,100	3,100	3,100	1,100	3,000	3,000	3,000	45
50	61		2,400	2,400	2,400		2,400	2,400	2,400	50
55	61		1,900	1,900	1,900		2,000	2,000	2,000	55

Notes For On Tire Capacities:

A. For Pick and Carry Operations, boom must be centered over the front of the machine.
B. The load should be restrained from swinging.
C. Creep Speed is crane movement of less than 200 ft. (61 m) in a 30 minute period and not exceeding 1.0 mph (1.6 km/h).
D. Refer to General Notes for additional information.
E. Without outriggers, never maneuver the boom beyond listed load radii for applicable tires used to ensure stability.

RECOMMENDED TIRE PRESSURE

TIRE SIZE	STATIONARY	CREEP	2 1/2 MPH	TRAVEL
14:00 X 24-24 PR	115 PSI	115 PSI	105 PSI	105 PSI
16:00 X 25-28 PR	115 PSI	115 PSI	95 PSI	95 PSI
20:50 X 25-24 PR	95 PSI	95 PSI	70 PSI	70 PSI

MAXIMUM PERMISSIBLE HOIST LINE LOAD

LINE PARTS	1	2	3	4	5	6	7
MAX. LOAD	9,080	18,160	27,240	36,320	45,400	54,480	65,560
BOOM HEAD	2	3–D	2–3	1–4–D	2–3–4	2–3–4–D	1–2–3–4
HOOK BLOCK	D	3	3–D	1–4	2–3–D	2–3–4	2–3–4–D

WIRE ROPE:
5/8" ROTATION RESISTANT COMPACTED STRAND, 18 X 19 OR 19 X 19 MINIMUM BREAKING STRENGTH – 22.7 TONS
5/8" 6 X 19 OR 6 X 37 IWRC IPS PREFORMED RIGHT REGULAR LAY MINIMUM BREAKING STRENGTH – 17.9 TONS

SIDE STOW JIB ON OUTRIGGERS

LOADED BOOM ANGLE (DEG)	26 FT OFFSETABLE JIB						43 FT. OFFSETABLE JIB						LOADED BOOM ANGLE (DEG)
	0° OFFSET		15° OFFSET		30° OFFSET		0° OFFSET		15° OFFSET		30° OFFSET		
	(LOAD) RADIUS (REF) (FT)	360° (LB)	(LOAD) RADIUS (REF) (FT)	360° (LB)	(LOAD) RADIUS (REF) (FT)	360° (LB)	(LOAD) RADIUS (REF) (FT)	360° (LB)	(LOAD) RADIUS (REF) (FT)	360° (LB)	(LOAD) RADIUS (REF) (FT)	360° (LB)	
75	20'-8"	13,100*	27'-5"	7,800*	32'-7"	5,600*	26'-7"	5,100*	35'-2"	3,400*	43'-3"	2,500*	75
73	23'-4"	11,900*	30'-4"	7,300*	35'-4"	5,400*	30'-3"	4,900*	38'-9"	3,200*	46'-11"	2,400*	73
71	26'-6"	10,200	33'-2"	6,900*	38'-0"	5,200*	33'-8"	4,700*	42'-4"	3,000*	50'-4"	2,400*	71
68	30'-10"	9,300	37'-3"	6,500*	42'-0	5,000*	38'-11"	4,400*	47'-6"	2,800*	55'-2"	2,300*	68
65	34'-6"	8,300	41'-1"	6,100*	45'-8"	4,800*	43'-10"	4,000*	52'-2"	2,600*	59'-8"	2,300*	65
62	38'-5"	7,300	45'-0"	5,600*	49'-2"	4,600*	48'-6"	3,600*	56'-10"	2,500*	63'-10"	2,200*	62
59	42'-0"	6,400	48'-9"	5,400*	52'-5"	4,500*	53'-2"	3,300*	61'-5"	2,400*	67'-10"	2,200*	59
55	46'-8"	5,400	53'-6"	4,500	57'-1"	4,100	59'-3"	2,900*	66'-10"	2,300*	73'-1"	2,200*	55
51	51'-2"	4,400	57'-8"	3,800	60'-10"	3,500	65'-1"	2,700*	72'-1"	2,300*	77'-4"	2,100*	51
47	55'-2"	3,800	61'-7"	3,300	64'-3"	3,000	70'-4"	2,500*	77'-1"	2,200*	81'-1"	2,100*	47
43	58'-11"	3,300	65'-3"	2,800	67'-6"	2,700	75'-2"	2,300	81'-5"	2,100	84'-5"	2,000*	43
38	63'-7"	2,800	69'-6"	2,400	71'-5"	2,300	80'-7"	1,900	85'-10"	1,700	88'-3"	1,700	38
32	69'-1"	2,200	73'-8"	2,000	75'-0"	1,900	86'-3"	1,600	90'-4"	1,500	91'-11"	1,400	32
25	73'-9"	1,800	78'-2"	1,600			91'-11"	1,300	95'-0"	1,200			25
17	76'-11"	1,500	81'-1"	1,300			96'-8"	1,000	98'-0"	1,000			17
0	80'-10"	1,300					100'-3"	900					0

Notes For Jib Capacities:

F. For all boom lengths less than the maximum with a jib erected, the rated loads are determined by boom angle only in the appropriate column.
G. For boom angles not shown, use the capacity of the next lower boom angle.
H. Listed radii are for fully extended main boom only.

Lifting Capacities – Pounds (30'-72' boom)

MODEL CD 225

COUNTERWEIGHT:
W/AUX. WINCH 6,100 LBS.
W/O AUX. WINCH 7,200 LBS
BOOM LENGTH 30 - 72 FT.
OUTRIGGER SPREAD 14'-6"

STABILITY PCT.
ON OUTRIGGERS 85%
ON TIRES 75%
PCSA CLASS 10-62

ON OUTRIGGERS

LOAD RADIUS (FT)	BOOM LENGTH 30 FT LOADED BOOM ANGLE (DEG)	OVER FRONT (LB)	360° (LB)	BOOM LENGTH 39 FT LOADED BOOM ANGLE (DEG)	OVER FRONT (LB)	360° (LB)	BOOM LENGTH 50 FT LOADED BOOM ANGLE (DEG)	OVER FRONT (LB)	360° (LB)	BOOM LENGTH 61 FT LOADED BOOM ANGLE (DEG)	OVER FRONT (LB)	360° (LB)	BOOM LENGTH 72 FT LOADED BOOM ANGLE (DEG)	OVER FRONT (LB)	360° (LB)	LOAD RADIUS (FT)
10	63.0	50,000*	50,000*	69.4	43,400*	43,400*										10
12	58.5	41,700*	41,700*	66.2	39,100*	39,100*	71.7	36,900*	36,900*							12
15	51.4	35,900*	34,500*	61.2	34,100*	34,100*	68.0	32,000*	32,000*	72.1	30,600*	30,600*				15
20	37.4	25,400*	21,300	52.3	26,000*	21,900	61.6	26,300*	22,100	67.1	25,000*	22,300	70.8	23,700*	22,400	20
25	13.7	19,000*	13,800	42.0	19,700*	14,600	54.8	20,100*	14,900	61.9	20,300*	15,000	66.5	20,000*	15,100	25
30	**			28.8	15,500*	10,400	47.3	15,900*	10,800	56.3	16,100*	10,900	62.0	16,300*	11,000	30
35				**			38.7	12,900*	8,100	50.4	13,200*	8,300	57.4	13,300*	8,400	35
40							27.9	10,700*	6,200	43.9	10,900*	6,500	52.5	11,100*	6,600	40
45							7.9	8,800*	4,800	36.5	9,200*	5,100	47.2	9,300*	5,300	45
50							**			27.3	7,800*	4,000	41.4	8,000*	4,200	50
55										13.0	6,500	3,100	34.8	6,700	3,400	55
60										**			26.9	5,700	2,700	60
65													15.5	4,800	2,100	65

**MAXIMUM CAPACITY AT 0 DEGREE BOOM ANGLE

BOOM LENGTH 30 FT LOAD RADIUS (FT)	OVER FRONT (LB)	360° (LB)	BOOM LENGTH 39 FT LOAD RADIUS (FT)	OVER FRONT (LB)	360* (LB)	BOOM LENGTH 50 FT LOAD RADIUS (FT)	OVER FRONT (LB)	360° (LB)	BOOM LENGTH 61 FT LOAD RADIUS (FT)	OVER FRONT (LB)	360° (LB)	BOOM LENGTH 72 FT LOAD RADIUS (FT)	OVER FRONT (LB)	360° (FT)
25.6	18,300*	13,000	34.3	12,700*	7,800	45.3	8,700*	4,700	56.3	6,200	2,900	67.3	4,400	1,800

ON TIRES

RADIUS (FT)	MAX BOOM LENGTH (FT)	14.00 X 24–24PR STATIONARY 360°	STATIONARY STRAIGHT OVER FRONT	PICK & CARRY CREEP	PICK & CARRY 2.5 MPH	20.50 X 25–24PR STATIONARY 360°	STATIONARY STRAIGHT OVER FRONT	PICK & CARRY CREEP	PICK & CARRY 2.5 MPH	RADIUS (FT)
10	30	19,500*	32,400*	24,400*	20,400*	18,700	35,900	35,900	25,800*	10
12	30	14,400*	28,100*	21,000*	17,400*	14,900	30,500	30,500	22,200*	12
15	39	10,400*	21,300	17,100*	14,000*	11,200	22,300	20,300	18,100*	15
20	39	6,500*	12,900	12,600*	10,200*	6,500	12,700	12,700	12,700	20
25	50	4,100*	8,600	8,600	7,500*	4,200	9,000	9,000	9,000	25
30	50	2,700*	6,200	6,200	5,800*	2,900	6,700	6,700	6,700	30
35	50	1,800*	4,700	4,700	4,600*	2,100	5,000	5,000	5,000	35
40	61	1,100	3,800	3,800	3,700*	1,300	3,900	3,900	3,900	40
45	61		3,000	3,000	3,000	800	2,900	2,900	2,900	45
50	61		2,100	2,100	2,100		2,300	2,300	2,300	50
55	72		1,500	1,500	1,500		1,800	1,800	1,800	55
60	72		1,100	1,100	1,100		1,300	1,300	1,300	60
65	72						1,000	1,000	1,000	65

Notes For On Tire Capacities:

A. For Pick and Carry Operations, boom must be centered over the front of the machine.
B. The load should be restrained from swinging.
C. Creep Speed is crane movement of less than 200 ft. (61 m) in a 30 minute period and not exceeding 1.0 mph (1.6 km/h).
D. Refer to General Notes for additional information.
E. Without outriggers, never maneuver the boom beyond listed load radii for applicable tires used to ensure stability.

RECOMMENDED TIRE PRESSURE

TIRE SIZE	STATIONARY	CREEP	2 1/2 MPH	TRAVEL
14:00 X 24-24 PR	115 PSI	115 PSI	105 PSI	105 PSI
16:00 X 25-28 PR	115 PSI	115 PSI	95 PSI	95 PSI
20:50 X 25-24 PR	95 PSI	95 PSI	70 PSI	70 PSI

MAXIMUM PERMISSIBLE HOIST LINE LOAD

LINE PARTS	1	2	3	4	5	6	7
MAX. LOAD	9,080	18,160	27,240	36,320	45,400	54,480	65,560
BOOM HEAD	2	3–D	2–3	1–4–D	2–3–4	2–3–4–D	1–2–3–4
HOOK BLOCK	D	3	3–D	1—4	2–3–D	2–3–4	2–3–4–D

WIRE ROPE:
5/8" ROTATION RESISTANT COMPACTED STRAND, 18 X 19 OR 19 X 19 MINIMUM BREAKING STRENGTH – 22.7 TONS
5/8" 6 X 19 OR 6 X 37 IWRC IPS PREFORMED RIGHT REGULAR LAY MINIMUM BREAKING STRENGTH – 17.9 TONS

SIDE STOW JIB ON OUTRIGGERS

LOADED BOOM ANGLE (DEG)	26 FT OFFSETABLE JIB 0° OFFSET (LOAD) RADIUS (REF) (FT)	360° (LB)	15° OFFSET (LOAD) RADIUS (REF) (FT)	360° (LB)	30° OFFSET (LOAD) RADIUS (REF) (FT)	360° (LB)	43 FT. OFFSETABLE JIB 0° OFFSET (LOAD) RADIUS (REF) (FT)	360° (LB)	15° OFFSET (LOAD) RADIUS (REF) (FT)	360° (LB)	30° OFFSET (LOAD) RADIUS (REF) (FT)	360° (LB)	LOADED BOOM ANGLE (DEG)
75	26'-7"	13,100*	31'-11"	7,800*	37'-6"	5,600*	29'-10"	5,100*	33'-7"	3,400*	47'-2"	2,500*	75
73	29'-2"	11,900*	34'-11"	7,300*	39'-5"	5,400*	33'-9"	4,900*	39'-7"	3,200*	51'-5	2,400*	73
71	31'-11"	9,800	37'-10"	6,900*	42'-4"	5,200*	39'-1"	4,700*	45'-5"	3,000*	55'-3"	2,400*	71
68	36'-4"	7,900	42'-6"	6,500*	46'-8"	5,000*	46'-2"	4,400*	52'-9"	2,800*	60'-9"	2,300*	68
65	40'-8"	6,300	47'-1"	5,500	51'-0"	4,800*	52'-6"	4,000*	58'-11"	2,600*	65'-6"	2,300*	65
62	45'-0"	5,300	51'-5"	4,700	55'-1"	4,000	58'-1"	3,600*	64'-6"	2,500*	69'-11"	2,200*	62
59	49'-9"	4,500	55'-6"	3,800	58'-11"	3,400	63'-3"	3,300*	69'-5"	2,400*	74'-0"	2,200*	59
55	54'-10"	3,600	60'-8"	3,100	63'-3"	2,800	69'-6"	2,700	75'-3"	2,300*	79'-1"	2,200*	55
51	60'-11"	2,900	65'-5"	2,600	67'-9"	2,400	75'-1"	2,200	80'-6"	1,900	83'-9"	1,800	51
47	65'-7"	2,300	70'-1"	2,100	72'-3"	2,000	80'-3"	1,700	85'-3"	1,500	87'-11"	1,400	47
43	70'-4"	1,900	74'-5"	1,700	76'-2"	1,600	85'-0"	1,400	89'-7"	1,200	91'-10"	1,100	43
38	75'-8"	1,500	79'-1"	1,300	80'-5"	1,200	90'-6"	1,000	94'-6"	,900	96'-2"	800	38
32	80'-11"	1,000	83'-9"	900	84'-6"	900	96'-3"	700	99'-7"	,600	101'-0"	600	32
25	85'-11"	700	88'-1"	600									25

Notes For Jib Capacities:

F. For all boom lengths less than the maximum with a jib erected, the rated loads are determined by boom angle only in the appropriate column.
G. For boom angles not shown, use the capacity of the next lower boom angle.
H. Listed radii are for fully extended main boom only.

GENERAL NOTES

GENERAL

1. Rated loads as shown on Lift Charts pertain to this machine as originally manufactured and equipped. Modifications to the machine or use of optional equipment other than that specified can result in a reduction of capacity.
2. Construction equipment can be hazardous if improperly operated or maintained. Operation and maintenance of this machine shall be in compliance with the information in the Operator's, Parts and Safety Manuals supplied with this machine. If these manuals are missing, order replacements from the manufacturer through your distributor.
3. These warnings do not constitute all of the operating conditions for the crane. The operator and job site supervision must read the OPERATORS MANUAL, CIMA SAFETY MANUAL, APPLICABLE OSHA REGULATIONS, AND SOCIETY OF MECHANICAL ENGINEERS (ASME) SAFETY STANDARDS FOR CRANES.
4. This crane and its load ratings are in accordance with POWER CRANE & SHOVEL ASSOCIATION, STANDARD NO. 4, SAE CRANE LOAD STABILITY TEST CODE J765A. SAE METHOD OF TEST FOR CRANE STRUCTURE J1063, AND APPLICABLE SAFETY CODE FOR CRANES, DERRICKS AND HOISTS, ASME/ANSI B30.5.

DEFINITIONS

1. LOAD RADIUS – The horizontal distance from the axis of rotation before loading to the center of the vertical hoist line or tackle with a load applied.
2. LOADED BOOM ANGLE – It is the angle between the boom base section and the horizontal, after lifting the rated load at the rated radius. The boom angle before loading should be greater to account for deflections. The loaded boom angle combined with boom length give only an approximation of the operating radius.
3. WORKING AREA – Areas measured in a circular arc about the centerline of rotation as shown in the diagram.
4. FREELY SUSPENDED LOAD – Load hanging free with no direct external force applied except by the hoist rope.
5. SIDE LOAD – Horizontal force applied to the lifted load either on the ground or in the air.
6. NO LOAD STABILITY LIMIT – The stability limit radius shown on the range diagrams is the radius beyond which it is not permitted to position the boom, when the boom angle is less than the minimum shown on the applicable load chart, because the machine can overturn without any load.

SET-UP

1. Crane load ratings are based on the crane being leveled and standing on a firm, uniform supporting surface.
2. Crane load ratings on outriggers are based on all outrigger beams being fully extended or in the case of partial extension ratings mechanically pinned in the appropriate position, and the tires free of the supporting surface.
3. Crane load ratings on tires depend on appropriate inflation pressure and the tire conditions. Caution must be exercised when increasing air pressures in tires. Consult Operator's Manual for precautions.
4. Use of jibs, lattice–type boom extensions, or fourth section pullouts extended is not permitted for pick and carry operations.
5. Consult appropriate section of the Operator's and Service Manual for more exact description of hoist line reeving.
6. The use of more parts of line than required by the load may result in having insufficient rope to allow the hook block to reach the ground.
7. Properly maintained wire rope is essential for safe crane operation. Consult Operator's Manual for proper maintenance and inspection requirements.
8. When spin-resistant wire rope is used, the allowable rope loading shall be the breaking strength divided by five (5), unless otherwise specified by the wire rope manufacturer.

OPERATION:

1. CRANE LOAD RATINGS MUST NOT BE EXCEEDED. DO NOT ATTEMPT TO TIP THE CRANE TO DETERMINE ALLOWABLE LOADS.
2. When either radius or boom length, or both, are between listed values, the smaller of the two listed load ratings shall be used.
3. Do not operate at longer radii than those listed on the applicable load rating chart (cross hatched areas shown on range diagrams).
4. The boom angles shown on the Capacity Chart give an approximation of the operating radius for a specified boom length. The boom angle, before loading, should be greater to account for boom deflection. It may be necessary to retract the boom if maximum boom angle is insufficient to maintain rated radius.
5. Power telescoping boom sections must be extended equally.
6. Rated loads include the weight of hook block, slings, and auxiliary lifting devices. Their weights shall be subtracted from the listed rated load to obtain the net load that can be lifted.

   When lifting over the jib the weight of any hook block, slings, and auxiliary lifting devices at the boom head must be added to the load.

   When jibs are erected but unused add two (2) times the weight of any hook block, slings, and auxiliary lifting devices at the jib head to the load.
7. Rated loads do not exceed 85% on outriggers or 75% on tires, of the tipping load as determined by SAE Crane Stability Test Code J765a. Structural strength ratings in chart are indicated with an asterisk (*).
8. Rated loads are based on freely suspended loads. No attempt shall be made to drag a load horizontally on the ground in any direction.
9. The user shall operate at reduced ratings to allow for adverse job conditions, such as: Soft or uneven ground, out of level conditions, high winds, side loads, pendulum action, jerking or sudden stopping of loads, hazardous conditions, experience of personnel, two machine lifts, traveling with loads, electric wires, etc., (side pull on boom or jib is hazardous). Derating of the cranes lifting capacity is required when wind speed exceeds 20 MPH. the center of the lifted load must never be allowed to move more than 3* feet off the center line of the base boom section due to the effects of wind, inertia, or any combination of the two.

   *"Use 2 feet off the center line of the base boom for a two section boom, 3 feet for a three section boom, or 4 feet for a four section boom."
10. The maximum load which can be telescoped is not definable, because of variations in loadings and crane maintenance, but it is permissible to attempt retraction and extension if load ratings are not exceeded.
11. Load ratings are dependent upon the crane being maintained according to manufacturer's specifications.
12. It is recommended that load handling devices, including hooks, and hook blocks, be kept away from boom had at all times.
13 FOR TRUCK ONLY: 360° capacities apply only to machines equipped with a front outrigger jack and all five (5) outrigger jacks properly set. If the front (5th) outrigger jack is not properly set, the work area is restricted to the over side and over rear areas as shown on the Crane Working Positions diagram. Use the 360° load ratings in the overside work.

TEREX CRANES
Waverly, Iowa

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Litho in U.S.A.

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