Tel: (888) 337-BIGGE or (510) 638-8100 Web: www.bigge.com



### STINGER 4792 **Boom Truck Crane**



## **FEATURES**

- ▶ 47,000 lb (21 319 kg) maximum lifting capacity
- ▶ 101' (30.78 m) maximum sheave height
- ▶ 144' (43.89 m) maximum sheave height with 26-44' (7.92-13.41 m) jib
- ▶ 29-92' (8.84-28.04 m) four-section full power fully synchronized boom
- Exclusive color coded boom and load
- ► Easy-to-install optional 26' (7.92 m) one stage or 26-44' (7.92-13.41 m) two stage telescoping jib, man baskets or work platform increase job capacities

- Electronic Load Moment Indicator and anti-two-block device standard
- Externally located planetary rotation drive for easy accessibility for maintenance
- 2-speed planetary winch has 10,500 lb (4 703 kg) maximum permissible 1 part line, 37,000 lb (16 783 kg) breaking strength, 186 ft/min (57 m/min) maximum line speed
- Dual control station with direct mechanically controlled hydraulic system
- ▶ 90 gal (342 L) capacity hydraulic tank

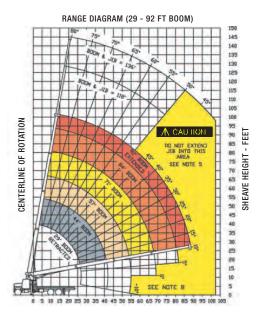


## BT MODEL

### **LOAD RATINGS** BOOM LENGTH Maximum Load Chart in pounds (lbs) with fully extended outrigger 29 FT 44 FT 57 FT 71 FT 84 FT 92 FT LOADED LOADED LOAD LOAD LOADED LOAD OPERATING B00M **BOOM** RATING **BOOM** RATING **BOOM** RATING RATING **BOOM** RATING **BOOM RATING** AREA OF OPERATION RADIUS ANGLE ANGLE ANGLE ANGLE (LB) ANGLE (LB) (LB) (LB) **ANGLE** (LB) (LB) (FT) DO NOT OPERATE (DEG) (DEG) (DEG) (DEG) IN SHADED AREA WITHOUT 78 47,000\* OPTIONAL FRONT 8 71 36.800\* 20,300 STABILIZER 30.900\* 20.300\* 79 18.4003 10 67 12 62 26.100\* 73 20.3003 77 17 4003 14 58 21,900\* 70 19,400\* 75 16,800\* 14,600 16 53 18,800\* 67 17.300 15,900\* 13,800 61 13,900\* 13,400\* 12,300° 10,900\* 20 41 14,200\* 25 21 10,400\* 53 10,900 63 10,600 69 9,800\* 9,025 30 45 8,625\* 57 8,625\* 65 8,425 69 8,225 7,425\* 35 6.925 6.925\* 60 6.925 6.725 34 51 66 6.325 19 5.225 5.625 44 5.625 56 62 5.625 5.425 40 50 4.625 45 36 4.625\* 58 4,625\* 61 4.625\* 50 26 3,725\* 45 3,725 3,725 55 NOTE: STRUCTURAL STRENGTH RATINGS IN 1,225\* 38 3.025 49 3,025\* 53 CHART ARE INDICATED WIH AN ASTERISK 60 31 2,425\* 44 2,425\* 49 2,425\* 65 39 2,025\* 40 70 75 825\* 80 200 lbs STOWED JIB DEDUCTIONS (POUNDS 1 Sheave Load Block

JIB CAPACITIES	FOR ALI	ВООМ І	LENGTHS	VERIFY OPERAT	IONAL MODE SETTI	NG ON LMI DISPLA	Y BEFORE LIFTING	WITH JIB
Loaded Boom Angle	50°	55°	60°	65°	70°	75°	78°	80°
Retracted 26 ft Jib	725	1,025	1,525	2,325	3,225	4,325	4,925	5,325
Extended 44 ft Jib	425	725	1,125	1,525	2,025	2,525	2,825	3,125

350



## **GENERAL NOTES**

The operator must read and understand the Owner's Manual before operating this crane

250

- 2. Positioning or operation of crane beyond areas shown on this chart is not intended or approved except where specified in Owner's Manual.
- Loaded boom angles at specified boom lengths give only an approximation of the operating radius. The boom angle before loading should be greater to account for deflections. Do not exceed the operating radius for rated loads.
- 4. Use rating of next longer boom for boom lengths not shown. Use rating of next greater radius for load radii not shown.

200

2 Sheave Load Block 250 lbs

- 5. Boom must be fully retracted when jib is erected before lowering below minimum angle. Retracted jib has no lifting
- capacity below a 50° boom angle.
- 6. Use rating of next lower boom angle for boom angles not shown on jib load rating chart.
- 7. Lifting off the main boom point while the swing around jib is erected is not intended or approved
- 8. Do not lower boom into this area, as hydraulic pressure will not allow raising the boom without retracting boom first. 9. Crane load ratings on outriggers are based on freely suspended loads with the machine leveled and standing on a firm
- uniform supporting surface. No attempt shall be made to move a load horizontally on the ground in any direction.
- 10. Practical working loads depend on supporting surface, wind and other factors affecting stability such as hazardous surroundings, experience of personnel, and proper handling, must all be taken into account by the operator
- 11. The maximum load which may be telescoped is limited by hydraulic pressure, boom angle, and boom lubrication. It is safe to attempt to telescope any load within the limits of the load rating chart.

- Deductions must be made from rated loads for stowed jib, optional attachments, hooks and loadblocks (see deduction chart). Weights of slings and other load handling devices shall be considered a part of the load.
- 2. Crane load ratings with outriggers are based on outriggers and stabilizers extended and set with all load removed from the carrier wheels
- 3. Load ratings do not exceed 85% of tipping load.

## DEFINITIONS

- 1. Operating radius is the horizontal distance from the axis of rotation to the center of the vertical hoist line or load hook
- 2. Loaded boom angle as shown in the Load Ratings Chart is the included angle between the horizontal and longitudinal axes of the boom base after lifting rated load at rated radius.



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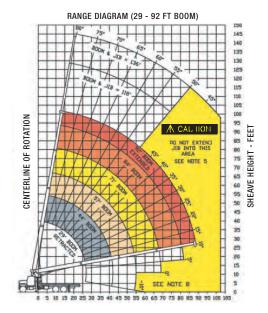


2 Sheave Load Block 250 lbs

## RM MODEL

### **LOAD RATINGS** BOOM LENGTH Maximum Load Chart in pounds (lbs) with fully extended outrigger 57 FT 71 FT 84 FT 92 FT 29 FT 44 FT LOADED LOAD LOADED LOADED OPERATING BOOM RATING B00M RATING BOOM RATING **BOOM** BATING BOOM RATING **RADIUS** ANGLE (LB) ANGLE (LB) ANGLE (LB) ANGLE (LB) (LB) (H) (DEG) (DEG) (DEG) AREA OF OPERATION 47.000\* 78 360° Full Capacity 7 36.800 20,300 Area of Operation 10 67 30,900\* 75 20,300\* 79 18,400\* 62 26,100 73 20,3001 12 14 58 21.900\* 70 19,4004 75 16,8004 14,600 53 18 800 17,300 15.900 13,800 16 76 10,900 20 41 14,200\* 61 13,9001 68 13,400\* 10.9001 73 9,025 10.400\* 53 10.600 69 10.400 9.800\* 25 21 63 69 7.425 30 45 8 625 57 8.625\* 65 8 425 8.225 35 34 6.925\* 51 6,925\* 60 6,925 66 62 6,725 40 19 5,225\* 44 5,625\* 5,625 45 36 4.625 **5**0 4,625 4.625 3,/25 3,/25 50 NOTE: STRUCTURAL STRENGTH RATINGS IN 26 CHART ARE INDICATED WIH AN ASTERISK 3.025 55 60 11 2,425 2.425 45 65 39 2 025 2 025 1,525° 70 1,**5**25° 80 825 1 Sheave Load Block STOWED JIB DEDUCTIONS (POUND

JIB CAPACITIES	S FOR ALL	. воом і	ENGTHS	VERIFY OPERAT	IONAL MODE SETTI	ng on LMI display	BEFORE LIFTING \	WITH JIB
Loaded Boom Angle	50°	55°	60°	65°	70°	75°	78°	80°
Retracted 26ft Jib	725	1,025	1,525	2,325	3,225	4,325	4,925	5,325
Extended 44 ft Jib	425	725	1,125	1,525	2,025	2,525	2,825	3,125



## GENERAL NOTES

- 1. The operator must read and understand the Owner's Manual before operating this crane.
- 2. Positioning or operation of crane beyond areas shown on this chart is not intended or approved except where specified in Owner's Manual.
- 3. Loaded boom angles at specified boom lengths give only an approximation of the operating radius. The boom angle
- before loading should be greater to account for deflections. Do not exceed the operating radius for rated loads. 4. Use rating of next longer boom for boom lengths not shown. Use rating of next greater radius for load radii not shown.
- 5. Boom must be fully retracted when jib is erected before lowering below minimum angle. Retracted jib has no lifting
- capacity below a 50° boom angle.

  6. Use rating of next lower boom angle for boom angles not shown on jib load rating chart.
- 7. Lifting off the main boom point while the swing around jib is erected is not intended or approved
- 8. Do not lower boom into this area, as hydraulic pressure will not allow raising the boom without retracting boom first. 9. Crane load ratings on outriggers are based on freely suspended loads with the machine leveled and standing on a firm
- uniform supporting surface. No attempt shall be made to move a load horizontally on the ground in any direction.
- 10. Practical working loads depend on supporting surface, wind and other factors affecting stability such as hazardous surroundings, experience of personnel, and proper handling, must all be taken into account by the operator
- 11. The maximum load which may be telescoped is limited by hydraulic pressure, boom angle, and boom lubrication. It is safe to attempt to telescope any load within the limits of the load rating chart.

## INFORMATION

- 1. Deductions must be made from rated loads for stowed iib. optional attachments, hooks and loadblocks (see deduction chart). Weights of slings and other load handling devices shall be considered a part of the load.
- Crane load ratings with outriggers are based on outriggers and stabilizers extended and set with all load removed from the carrier wheels.
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## DEFINITIONS

- 1. Operating radius is the horizontal distance from the axis of rotation to the center of the vertical hoist line or load hook
- 2. Loaded boom angle as shown in the Load Ratings Chart is the included angle between the horizontal and longitudinal axes of the boom base after lifting rated load at rated radius.



## BT MODEL

WIN	ICH DA	ГА				
		1 Part Line	2 Part Line	3 Part Line	4 Part Line	5 Part Line
		OVERHAUL BALL	ONE SHEAVE LOAD BLOCK	ONE SHEAVE LEAD BLOCK	TWO SHEAVE LOAD BLOCK	TWO SHEAVE LOAD BLOCK
Winch	Cable	Lift and	Lift and	Lift and	Lift and	Lift and
	Supplied	Speed	Speed	Speed	Speed	Speed
Standard	9/16" Diam	10,500 lb	21,000 lb	31,500 lb	42,000 lb	47,000 lb
Stationary	IWRC XXIP	186 fpm	93 fpm	62 fpm	46 fpm	37 fpm
Winch	9/16" Diam	6,720 lb	13,440 lb	20,100 lb	26,880 lb	33,600 lb
	Rotation Resistant	186 fpm	93 fpm	62 fpm	46 fpm	37 fpm

BLOCK TYP	E
Overhaul Ball	Rating: 6.25 ton (5.7 mt)
1 Sheave Block	Rating: 17.5 ton (15.9 mt)
2 Sheave Block	Rating: 22.5 ton (20.4 mt)

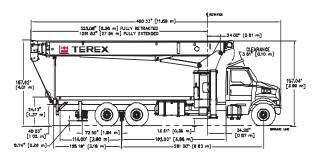
## **CAUTION**

Overload and anti-two-block systems must be in good operating condition before operating crane. Refer to Owners Manual.

Keep at least 3 wraps of loadline on drum at all times.

Use only 9/16" diameter cable with 37,000 lb breaking strength on this machine.

## **2 MOUNTING CONFIGURATIONS**



# 2 89" [0 67 m] TH STANDARD LT7501

## **CARRIER PROVIDED BY TEREX**

STINGER BT4792 - Behind Cab Mou	inting Configuration
▶ Manufacturer	Sterling LT7501 6 x 4 (60 000)
Standard Engine	Caterpillar C-7 7.2 L I-6
Standard Horsepower	300 hp @ 2,200 rpm
► Standard Torque	860 lb. Ft. @ 1,440 rpm
Full Tank Capacity	120 gal (454 L)
► Standard Transmission	Eaton Fuller RT-8908LL
► Speed Standard Transmission	Manual 10-speed
▶ Max Speed Standard Transmission	74 mph (120 km/h)
▶ Max Gradeability	54%
Standard Transmission	
Optional Transmission	Allison
Speed Optional Transmission	Automatic 6-speeds
<ul><li>Speed Optional Transmission</li><li>Max Speed Optional Transmission</li></ul>	Automatic 6-speeds 74 mph (120 km/h)
	' '
Max Speed Optional Transmission	74 mph (120 km/h)
<ul><li>Max Speed Optional Transmission</li><li>Max Gradeability</li></ul>	74 mph (120 km/h)
<ul><li>Max Speed Optional Transmission</li><li>Max Gradeability</li><li>Optional Transmission</li></ul>	74 mph (120 km/h) 17%
<ul> <li>Max Speed Optional Transmission</li> <li>Max Gradeability         Optional Transmission     </li> <li>Gross Vehicle Weight Rating</li> </ul>	74 mph (120 km/h) 17% 60,000 lb (27 210 kg)
<ul> <li>Max Speed Optional Transmission</li> <li>Max Gradeability         <ul> <li>Optional Transmission</li> </ul> </li> <li>Gross Vehicle Weight Rating</li> <li>Front Axle Weight Rating</li> </ul>	74 mph (120 km/h) 17% 60,000 lb (27 210 kg) 20,000 lb (9 067 kg)

Air, Hydraulic Anti-Lock System

Vertical Right Side

Dual fuel tank (120 gal-454L)
Power Steering
Electric Horn
Factory A/C
Power Port (Cigar lighter)
AM/FM Radio w/ Clock
Dual West Coast Stainless Rear View Mirrors

## **CHASSIS RECOMMENDATIONS**

**INCLUDED OPTIONS** 

Standard Factory Warranty

STINGER BT4792 - Behind Cab Mou	nting Configuration
► Combined Axle Weight Rating	60,000 lb (27 210 kg)
► Front Axle Weight Rating	20,000 lb (9 067 kg)
▶ Rear Axle Weight Rating	40,000 lb (18 144 kg)
▶ Wheel base	261" (6.62 m)
▶ Cab to Axle	192" (4.87 m)
► Afterframe	114" (2.89 m)
▶ Frame Section Modulus	30.0 in <sup>3</sup> (491 cm <sup>3</sup> )
▶ RBM per Frame Rail	1,860,000 in/lb (32 950 kg/m)
Frame Height (Unloaded)	40" (7.62 m)
▶ Exhaust Position	Vertical Right Side



Rear Tires Brakes

Exhaust Position



## RM MODEL

WIN	ICH DA	ΓΑ				
		1 Part Line	2 Part Line	3 Part Line	4 Part Line	5 Part Line
		OVERHAUL BALL	ONE SHEAVE LOAD BLOCK	ONE SHEAVE LOAD BLOCK	TWO SHEAVE LOAD BLOCK	TWO SHEAVE LOAD BLOCK
Winch	Cable	Lift and	Lift and	Lift and	Lift and	Lift and
	Supplied	Speed	Speed	Speed	Speed	Speed
Standard	9/16" Diam	10,500 lb	21,000 lb	31,500 lb	42,000 lb	47,000 lb
Stationary	IWRC XXIP	186 fpm	93 fpm	62 fpm	46 fpm	37 fpm
Winch	9/16" Diam	6,720 lb	13,440 lb	20,100 lb	26,880 lb	33,600 lb
	Rotation Resistant	186 fpm	93 fpm	62 fpm	46 fpm	37 fpm

<b>BLOCK TYP</b>	E
Overhaul Ball	Rating: 6.25 ton (5.7 mt)
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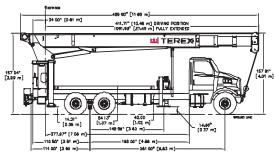
## CAUTION A

Overload and anti-two-block systems must be in good operating condition before operating crane. Refer to Owners Manual.

Keep at least 3 wraps of loadline on drum at all times.

Use only 9/16" diameter cable with 37,000 lb breaking strength on

## **2 MOUNTING CONFIGURATIONS**



1901,68* [27.45 m] FALLY EXTENDED	
MTEREX I	
157 047 [3.89 m]  16.207 [3.95 m]	i* m]
CARRIER PROVIDED BY TEREY	

CARRIER PROVIDE	D BY TEREX
STINGER RM4792 Rear Mount Confi	guration
► Manufacturer	Sterling LT7501 6 x 4 (60 000)
▶ Standard Engine	Caterpillar C-7 7.2 L I-6
▶ Standard Horsepower	300 hp @ 2,200 rpm
▶ Standard Torque	860 lb. Ft. @ 1,440 rpm
▶ Full Tank Capacity	120 gal (454 L)
► Standard Transmission	Eaton Fuller RT-8908LL
► Speed Standard Transmission	Manual 10-speed
▶ Max Speed Standard Transmission	74 mph (120 km/h)
Max Gradeability	54%
Standard Transmission	
Optional Transmission	Allison
Speed Optional Transmission	Automatic 6-speeds
Max Speed Optional Transmission	74 mph (120 km/h)
Max Gradeability	17%
Optional Transmission	
▶ Gross Vehicle Weight Rating	60,000 lb (27 210 kg)
Front Axle Weight Rating	20,000 lb (9067 kg)
► Rear Axle Weight Rating	40,000 lb (18 144 kg)
▶ Front Tires	425/65R 22.5 Michelin XZY (20 ply)
▶ Rear Tires	11R 22.5 Michelin XDE M/S (14 ply)
▶ Brakes	Air, Hydraulic Anti-Lock System

Vertical Right Side

# **INCLUDED OPTIONS**

- Dual Fuel tanks (120 gal-454L)
- Power steering
- ▶ Electric Horn
- ▶ Factory A/C
- ▶ Power Port (Cigar lighter)
- AM/FM Radio w/ Clock
- Dual West Coast Stainless Rear View Mirrors
- Standard Factory Warranty

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CHASSIS RECOM	IMENDATIONS
STINGER RM4792 - Rear Mount Configuration	
▶ Combined Axle Weight Rating	60,000 lb (27 210 kg)
Front Axle Weight Rating	20,000 lb (9 067 kg)
► Rear Axle Weight Rating	40,000 lb (18 144 kg)
▶ Wheel base	261" (6.62 m)
► Cab to Axle	192" (4.87 m)
► Afterframe	114" (2.89 m)
Frame Section Modulus	30.0 in <sup>3</sup> (491 cm <sup>3</sup> )
► RBM per Frame Rail	1,860,000 in/lb (32 950 kg/m)
Frame Height (Unloaded)	40" (7.62 m)
Exhaust Position	Vertical Right Side



Exhaust Position

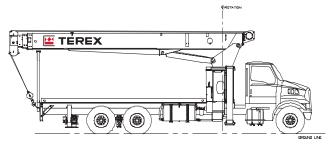




# STINGER 4792

## BT MODEL

## **SPECIFICATIONS**



## **BOOM**

• 29-92' (8.84-28.04 m) four-section full power fully synchronized boom. Patented keel boom design utilizes a keel shaped base plate combined with a deep, four plate boom section to optimize strength / rigidity-to-height ratio. Exclusive, patented color-coded boom and load charts allow the operator to easily determine boom extension, boom angle and load capacity. Maximum sheave height with four-section 29-92' (8.84-28.04 m) boom is 101' (30.78 m). Maximum sheave height with optional two-stage 26-44' (7.92-13.41 m) jib is 144' (43.89 m).

## **WINCH**

 Hydraulic winch with gear motor and planetary reduction gearing provides 2-speed operation. First layer rope pull is 11,400 lb (5 170 kg). Wire rope size is 9/16" (14 mm) with 37,000 lb (16 783 kg) breaking strength.

## **OPERATING SPEEDS**

 Mainframe / turret assembly planetary gear rotation provides 180° rotation (370° with optional front bumper outrigger). Swing rotation is 75 seconds. Boom up/down is 41/30 seconds and boom extend/retract is 80/36 seconds.

## **HYDRAULICS**

Three-section pump allows the operator to perform simultaneous crane operations (winch, boom and swing). Capacities are 32, 17 and 8 gpm (122, 64 and 30 L/m). Hydraulic tank capacity is 90 gal (342 L).

## **CONTROLS**

Fully proportional, excellent metering characteristics for precise boom movements. Independent outrigger controls allow the crane to be stable and level in rigorous working conditions. Load Moment Indication System has audio alarm and functional shut down when operator encounters an overload situation.

## **OUTRIGGERS**

- Front outriggers are Link-Type. The maximum width over main outrigger pad is 21'9" (6.62 m), main outrigger spread at maximum ground penetration is 21'4" (6.51 m).
- Rear outriggers are Out & Down type. The maximum width over auxiliary outrigger pads is 17' 6" (5.34 m).

## **SUBFRAME**

 Single fabricated, closed-box style subframe yields greater strength and rigidity. Wheelbase for standard truck crane mounting configuration is 261" (6.62 m).

## **OPTIONS AND ACCESSORIES**

- Single and two-stage jibs
- Multi-part load blocks
- Main winch with 2 speed motor
- Auxiliary winch
- Rotation-resistant load line
- Heavy duty wood flatbed
- Extra heavy duty wood flatbeds
- Extra heavy duty steel flatbeds
- · Radio remote controls
- One-man or two-man baskets

- Self-leveling work platform
- Winch drum tensioner
- Continuous rotation
- Oil cooler
- Single front bumper outrigger (required
- for 370° or continuous rotation)
   Hydraulic hose reel
- Hydraulic auxiliary tool circuit
- Toolbox





Bigge



## RM MODEL

## **SPECIFICATIONS**



## **BOOM**

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- Rotation-resistant load line
- Heavy duty wood flatbed
- Extra heavy duty wood flatbeds
- Extra heavy duty steel flatbeds
- Radio remote controls

- One-man or two-man baskets
- Self-leveling work platform
- Winch drum tensioner
- Continuous rotation
- Oil cooler
- Tool Box
- Hydraulic hose reel
- Hydraulic auxiliary tool circuit

## Bigge Crane and Rigging Co.

10700 Bigge Avenue San Leandro, CA 94577

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