TEREX

GUAY

STINGER 70100 | Boom Truck Crane

BOOM TRUCK CRANE

STINGER 70100



FEATURES

- 70,000 lb (31 752 kg) maximum lifting capacity
- 110’ (33.53 m) maximum sheave height
- 163’ (49.68 m) maximum sheave height with 30.5-55’ (9.30-16.76 m) jib
- 30.5-100’ (9.30-30.48 m) four-section full power fully synchronized boom
- Exclusive color coded boom and load charts
- Easy-to-install optional 30.5’ (9.30 m) one stage or 30.5-55’ (9.30-16.76 m) two stage telescoping jib, man baskets or work platform increase job capacities
- Electronic Load Moment Indicator and anti-two-block device standard with internal cable
- Externally located planetary rotation drive for easy accessibility for maintenance
- 2-speed planetary winch has 12,900 lb (5 851 kg) maximum permissible 1 part line, 45,400 lb (20 593 kg) breaking strength, 196 ft/min (60 m/min) maximum line speed
- Dual control station with direct mechanically controlled hydraulic system
- 90 gal (342 L) capacity hydraulic tank

TEREX

BOOM TRUCK CRANE

STINGER 70100

BT MODEL

LOAD RATINGS

CAUTION Do not use this specification sheet as a load rating chart. The format of data is not consistent with the machine chart and may be subject to change.

BOOM LENGTH — Maximum Load Chart in pounds (lbs) with fully extended outrigger

OPERATING RADIUS (FT)	30.5 FT		44 FT		58 FT		72 FT		86 FT		100 FT	
	LOADED BOOM ANGLE (DEG)	LOAD RATING (LB)	LOADED BOOM ANGLE (DEG)	LOAD RATING (LB)	LOADED BOOM ANGLE (DEG)	LOAD RATING (LB)	LOADED BOOM ANGLE (DEG)	LOAD RATING (LB)	LOADED BOOM ANGLE (DEG)	LOAD RATING (LB)	LOADED BOOM ANGLE (DEG)	LOAD RATING (LB)
5	78	70,000*										
8	72	60,800*										
10	68	44,800*	75	31,300*								
12	64	40,000*	72	31,700*	77	31,100*						
15	58	33,200*	68	31,600*	74	30,500*	77	27,600*				
20	45	24,400*	61	24,500*	68	23,600*	73	21,200*	76	19,000*		
25	29	18,300*	53	19,100*	63	19,100*	69	17,200*	72	15,300*	75	12,100*
30			44	15,000*	57	15,400*	64	14,400*	69	12,900*	72	10,500*
35			34	11,400	51	11,800	60	12,000	65	11,100*	69	9,100*
40			18	8,700	44	9,300	55	9,400	61	9,500	66	7,000*
45					36	7,300	50	7,600	57	7,700	62	6,000*
50					27	5,800	44	6,100	53	6,200	59	5,100*
55					11	4,600	38	5,000	49	5,100	56	4,500*
60							31	4,000	44	4,200	52	3,900*
65							22	3,200	39	3,400	48	3,400*
70									34	2,800	44	2,900
75									27	2,200	40	2,400
80									18	1,700	35	1,900
85											30	1,500
90											24	1,100
95											15	800

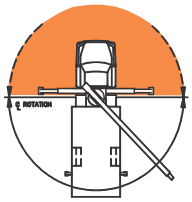
NOTE: STRUCTURAL STRENGTH RATINGS IN CHART ARE INDICATED WIH AN ASTERISK *

STOWED JIB DEDUCTIONS (POUNDS)

30.5 FT	44 FT	58 FT	72 FT	86 FT	100 FT
900	700	500	400	335	300

AREA OF OPERATION

DO NOT OPERATE IN SHADED AREA WITHOUT OPTIONAL FRONT STABILIZER



Deductions from rate loads for load handling devices BT

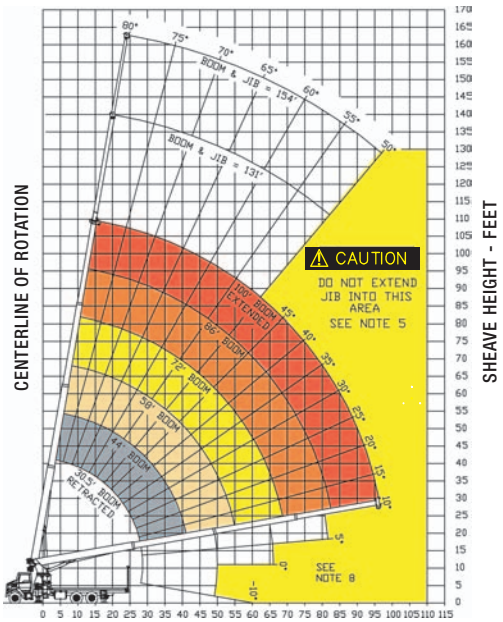
Overhaul Ball	200 lbs
1 Sheave Load Block	225-550 lbs
2 Sheave Load Block	300-650 lbs

JIB CAPACITIES FOR ALL BOOM LENGTHS

VERIFY OPERATIONAL MODE SETTING ON LMI DISPLAY BEFORE LIFTING WITH JIB

Loaded Boom Angle	50°	55°	60°	65°	70°	75°	78°	80°
Retracted 30.5 ft Jib	800	1,400	2,300	3,300	4,000	5,300	6,000	6,450
Extended 55 ft Jib	700	1,050	1,700	2,300	3,000	3,500	3,500	3,500

RANGE DIAGRAM (30.5 - 100 FT BOOM)



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 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 with load suspended.
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.

TEREX

BOOM TRUCK CRANE

STINGER 70100

RS MODEL

LOAD RATINGS

CAUTION Do not use this specification sheet as a load rating chart. The format of data is not consistent with the machine chart and may be subject to change.

BOOM LENGTH — Maximum Load Chart in pounds (lbs) with fully extended outrigger

OPERATING RADIUS (FT)	30.5 FT		44 FT		58 FT		72 FT		86 FT		100 FT	
	LOADED BOOM ANGLE (DEG)	LOAD RATING (LB)	LOADED BOOM ANGLE (DEG)	LOAD RATING (LB)	LOADED BOOM ANGLE (DEG)	LOAD RATING (LB)	LOADED BOOM ANGLE (DEG)	LOAD RATING (LB)	LOADED BOOM ANGLE (DEG)	LOAD RATING (LB)	LOADED BOOM ANGLE (DEG)	LOAD RATING (LB)
5	74	70,000*										
8	67	44,900*										
10	63	39,000*	72	31,100*								
12	59	34,400*	69	31,100*	74	31,100*						
15	52	29,190*	65	27,800*	71	26,700*	75	24,200*				
20	38	22,300*	57	22,000*	66	21,200*	71	19,200*	74	17,000*		
25	17	14,900*	49	18,000*	60	17,500*	67	16,000*	71	14,400*	73	12,100*
30			40	14,800*	54	14,700*	62	13,300*	67	12,000*	70	10,500*
35			27	11,600	48	12,000	57	11,500*	63	10,300*	67	9,100*
40					41	9,200	53	9,400	59	9,100*	64	6,500*
45					32	7,200	47	7,400	55	7,500	61	5,600*
50					21	5,700	42	5,900	51	6,000	58	4,900*
55							35	4,700	47	4,900	54	4,200*
60							27	3,800	42	3,900	50	3,600*
65							16	3,000	37	3,200	47	3,100*
70									31	2,500	42	2,600*
75									23	2,000	38	2,100
80									12	1,500	33	1,600
85											27	1,200
90											20	900
95											7	600

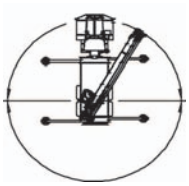
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STOWED JIB DEDUCTIONS (POUNDS)

30.5 FT	44 FT	58 FT	72 FT	86 FT	100 FT
900	700	500	400	335	300

AREA OF OPERATION

360° Full Capacity Area of Operation



Deductions from rate loads for load handling devices BT

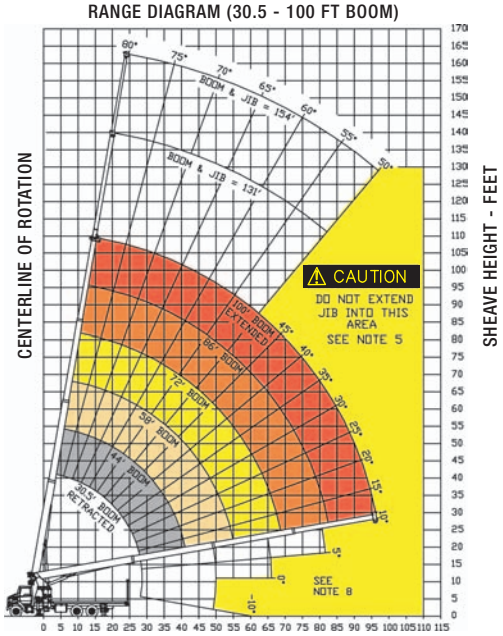
Overhaul Ball	200 lbs
1 Sheave Load Block	225-550 lbs
2 Sheave Load Block	300-650 lbs

JIB CAPACITIES FOR ALL BOOM LENGTHS

VERIFY OPERATIONAL MODE SETTING ON LMI DISPLAY BEFORE LIFTING WITH JIB

Loaded Boom Angle	50°	55°	60°	65°	70°	75°	78°	80°
Retracted 30.5 ft Jib	800	1,400	2,300	3,300	4,000	5,300	6,000	6,450
Extended 55 ft Jib	700	1,050	1,700	2,300	3,000	3,500	3,500	3,500

RANGE DIAGRAM (30.5 - 100 FT BOOM)



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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.

TEREX

BOOM TRUCK CRANE

STINGER 70100

BT MODEL

WINCH DATA

		1 Part Line	2 Part Line	3 Part Line	4 Part Line	5 Part Line	6 Part Line
							
Winch	**Cable Supplied**	**Lift and Speed**	**Lift and Speed**	**Lift and Speed**	**Lift and Speed**	**Lift and Speed**	**Lift and Speed**
Standard Stationary Winch	5/8" Diam IWRC XXIP	12,971 lb 196 fpm	25,942 lb 98 fpm	38,913 lb 65 fpm	51,844 lb 49 fpm	64,855 lb 39.2 fpm	70,000 lb 32.7 fpm
	5/8" Diam Rotation Resistant	9080 lb 196 fpm	18,160 lb 98 fpm	27,240 lb 65 fpm	36,320 lb 49 fpm	45,400 lb 39.2 fpm	54,480 lb 32.7 fpm

BLOCK TYPE

Overhaul Ball	Rating: 7.0 ton (6.3 mt)
1 Sheave Block	Rating: 20 ton (18.1 mt)
2 Sheave Block	Rating: 30 ton (27.2 mt)
3 Sheave Block	Rating: 35 ton (31.7 mt)

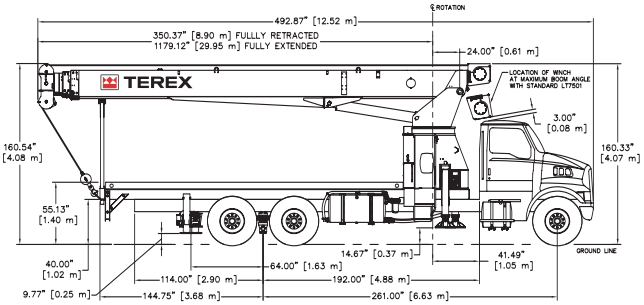
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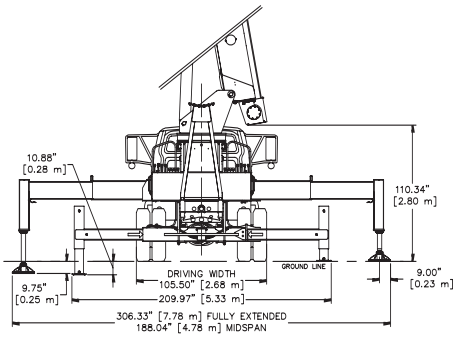
Overload and anti-two-block systems must be in good operating condition before operating crane. Refer to Owners Manual.

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

Use only 5/8" diameter cable with 45,400 lb breaking strength on this machine.

2 MOUNTING CONFIGURATIONS





CARRIER PROVIDED BY TEREX

STINGER BT70100 - Behind Cab Mounting 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
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 (9 067 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
Exhaust Position	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

CHASSIS RECOMMENDATIONS

STINGER BT70100 - Behind Cab Mounting 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" (2.90 m)
Frame Section Modulus	30.0 in^3 (491 cm^3)
RBM per Frame Rail	3,300,000 in/lb (38 020 kg/m)
Frame Height (Unloaded)	40" (7.62 m)
Exhaust Position	Vertical Right Side

BOOM TRUCK CRANE

STINGER 70100

RS MODEL

WINCH DATA

		1 Part Line	2 Part Line	3 Part Line	4 Part Line	5 Part Line	6 Part Line
							
Winch	**Cable Supplied**	**Lift and Speed**	**Lift and Speed**	**Lift and Speed**	**Lift and Speed**	**Lift and Speed**	**Lift and Speed**
Standard Stationary Winch	5/8" Diam IWRC XXIP	12,971 lb 196 fpm	25,942 lb 98 fpm	38,913 lb 65 fpm	51,844 lb 49 fpm	64,855 lb 39.2 fpm	70,000 lb 32.7 fpm
	5/8" Diam Rotation Resistant	9080 lb 196 fpm	18,160 lb 98 fpm	27,240 lb 65 fpm	36,320 lb 49 fpm	45,400 lb 39.2 fpm	54,480 lb 32.7 fpm

BLOCK TYPE

Overhaul Ball	Rating: 7.0 ton (6.3 mt)
1 Sheave Block	Rating: 20 ton (18.1 mt)
2 Sheave Block	Rating: 30 ton (27.2 mt)
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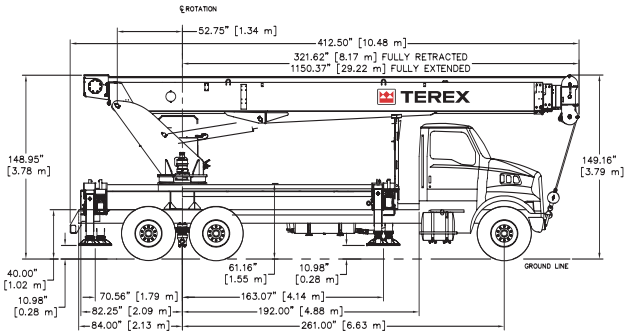
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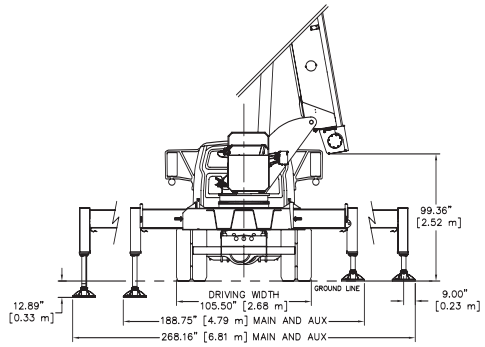
Overload and anti-two-block systems must be in good operating condition before operating crane. Refer to Owners Manual.

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

Use only 5/8" diameter cable with 45,400 lb. breaking strength on this machine.

2 MOUNTING CONFIGURATIONS





CARRIER PROVIDED BY TEREX

STINGER RS70100 Riding Seat Mounting 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
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 Rating	20,000 lb (9 067 kg)
Rear Axle Weight Rating 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
Exhaust Position	Vertical Right Side

INCLUDED OPTIONS

- Dual Fuel Tanks (120 gal-454 L)
- 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

CHASSIS RECOMMENDATIONS

STINGER RS70100 Riding Seat Mounting Configuration

Combined Axle Weight Rating	60,000 lb (27 210 kg)
Front Axle Weight Rating	20,000 lb (9 067 kg)
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Wheel base	261" (6.62 m)
Cab to Axle	192" (4.87 m)
Afterframe	114" (2.90 m)
Frame Section Modulus	30.0 in^3 (491 cm^3)
RBM per Frame Rail	3,300,000 in/lb (38 020 kg/m)
Frame Height (Unloaded)	40" (7.62 m)
Exhaust Position	Vertical Right Side

TEREX

WAVERLY, IOWA 50677

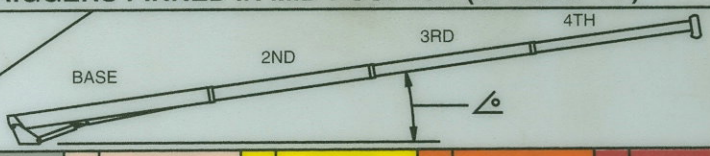
MODEL RS-70100
MAXIMUM LOAD CHART

P.C.S.A. CLASS 5-92

U.S. PATENT NOS. 4211332, 4459786, 5012939

CANADA PAT. NO. 1097265

LOAD RATINGS IN LBS.
MACHINE ON OUTRIGGERS PINNED IN MID-POSITION (SPREAD 14')



LOAD RADIUS (FT)	BOOM ANGLE / BOOM LENGTH	30.5 FT		44 FT		58 FT		72 FT		86 FT		100 FT
5	74	70,000*										
8	67	44,900*										
10	63	39,000*	72	31,700*								
12	59	34,400*	69	32,200*	74	31,400*						
15	52	27,200	65	27,800*	71	26,700*	75	24,200*				
20	38	14,800	57	15,500	66	15,900	71	16,100	74	16,300		
25	17	8,900	49	9,900	60	10,300	67	10,500	71	10,600	73	10,700
30			40	6,800	54	7,100	62	7,300	67	7,400	70	7,500
35			27	4,600	48	5,000	57	5,200	63	5,300	67	5,400
40					41	3,600	53	3,800	59	3,900	64	4,000
45					32	2,500	47	2,700	55	2,900	61	2,900
50					21	1,600	42	1,900	51	2,000	58	2,100
55							35	1,300	47	1,400	54	1,500
60											50	1,000
	0	7,900	0	3,100	0	1,100						

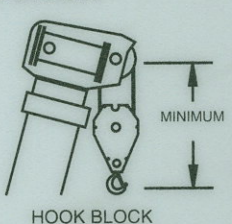
JIB CAPACITIES FOR ALL BOOM LENGTHS

BOOM ANGLE	80	78	75	70	65			
30.5 FT JIB LENGTH	6,450*	6,000*	5,300*	3,175	1,650			
55 FT JIB LENGTH	3,500*	3,500*	3,500*	2,800	1,275			

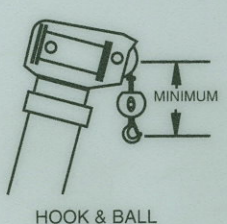
HOOK BLOCK CHART

HOOK TYPE	WEIGHT	MINIMUM
HOOK & BALL	200 LBS.	2' 8"
HOOK BLOCK (4 SHEAVE)	690 LBS.	4' 5"

DIMENSIONS ARE FOR LARGEST TEREX FURNISHED HOOK AND OVERHAUL BALL WITH ANTI-TWO BLOCK ACTIVATED.



HOOK BLOCK



HOOK & BALL

MAXIMUM PERMISSIBLE HOIST LINE LOAD

This chart only represents the maximum permissible hoist line load per parts of line. You must refer to the proper lift charts for machine rated loads. See Operator's Manual for other reeving options.

PARTS OF LINE	1	2	3	4	5	6
STANDARD ROPE	12,971	25,942	38,913	51,884	64,855	70,000
ROTATION RESISTANT	9,080	18,160	27,240	36,320	45,500	54,480
BOOM HEAD	1	1-D	1-2	1-3-D	1-2-3	1-2-3-D
HOOK BLOCK	D	2	2-D	1-3	2-3-D	1-2-3

STANDARD WIRE ROPE: 5/8" 6 X 19 OR 6 X 37 EEIPS IWRC, PREFORMED RIGHT REGULAR LAY, MINIMUM BREAKING STRENGTH 45,400 LBS, WEIGHT 0.72 LBS/FT.

ROTATION RESISTANT ROPE: 5/8" ROTATION RESISTANT 19 X 19 COMPACTED STRAND EEIPS RIGHT REGULAR LAY, MINIMUM BREAKING STRENGTH 45,400 LBS, WEIGHT 0.85 LBS/FT.

LOAD RATINGS IN LBS.
MACHINE ON FULLY RETRACTED OUTRIGGERS (SPREAD 7'4")



LOAD RADIUS (FT)	BOOM ANGLE / BOOM LENGTH	30.5 FT		44 FT		58 FT		72 FT		86 FT		100 FT
5	74	64,700*										
8	67	26,100										
10	63	16,200	72	17,000								
12	59	11,000	69	11,700	74	12,100						
15	52	6,600	65	7,300	71	7,700	75	7,900				
20	38	2,600	57	3,600	66	3,900	71	4,100	74	4,200		
25			49	1,500	60	1,900	67	2,100	71	2,200	73	2,200
30											70	1,000

TEREX

WAVERLY, IOWA 50677

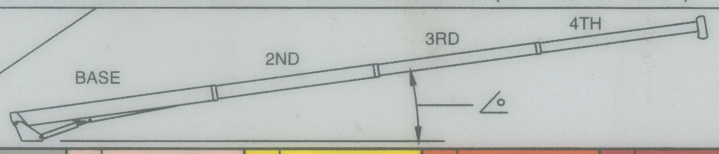
U.S. PATENT NOS. 4211332, 4459786, 5012939

MODEL BT-70100
MAXIMUM LOAD CHART

P.C.S.A. Class 5-90

CANADA PAT. NO. 1097265

LOAD RATINGS IN LBS.
MACHINE ON MAIN OUTRIGGERS PINNED IN MID-POSITION (SPREAD 15'8")
AND ON FULLY EXTENDED AUXILIARY OUTRIGGERS (SPREAD 16'6")



LOAD RADIUS (FT)	∠	30.5 FT	∠	44 FT	∠	58 FT	∠	72 FT	∠	86 FT	∠	100 FT
5	78	70,000*										
8	72	47,000*										
10	68	42,100*	75	31,300*								
12	64	37,300*	72	31,700*	77	31,100*						
15	58	31,600*	68	31,600*	74	30,500*	77	27,600*				
20	45	16,900	61	17,600	68	18,000	73	18,600	76	18,300		
25	29	10,100	53	11,100	63	11,400	69	11,600	72	11,700	75	11,800
30			44	7,400	57	7,700	64	7,900	69	8,000	72	8,100
35			34	5,000	51	5,400	60	5,600	65	5,700	69	5,800
40			18	3,300	44	3,800	55	4,000	61	4,200	66	4,200
45					36	2,600	50	2,900	57	3,000	62	3,100
50					27	1,700	44	2,000	53	2,100	59	2,200
55					11	900	38	1,200	49	1,400	56	1,500
60											52	900
	0	7,100	0	2,700								

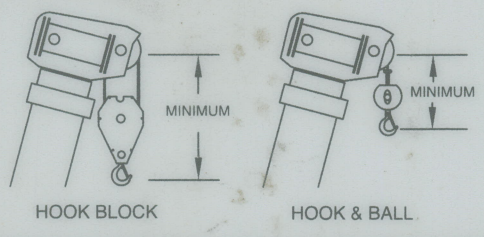
JIB CAPACITIES FOR ALL BOOM LENGTHS

BOOM ANGLE	80°	78°	75°	70°	65°			
30.5 FT JIB LENGTH	6,450*	6,000*	5,300*	3,175	1,650			
55 FT JIB LENGTH	3,500*	3,500*	3,500*	2,800	1,275			

HOOK BLOCK CHART

HOOK TYPE	WEIGHT	MINIMUM
HOOK & BALL	200 LBS.	2' 8"
HOOK BLOCK (4 SHEAVE)	690 LBS.	4' 5"

DIMENSIONS ARE FOR LARGEST TEREX FURNISHED HOOK AND OVERHAUL BALL WITH ANTI-TWO BLOCK ACTIVATED.



MAXIMUM PERMISSIBLE HOIST LINE LOAD

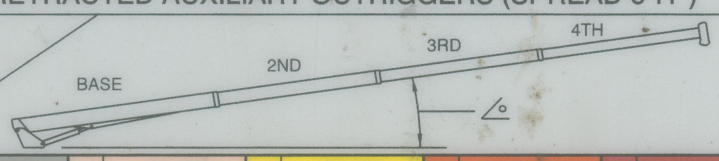
This chart only represents the maximum permissible hoist line load per parts of line. You must refer to the proper lift charts for machine rated loads. See Operator's Manual for other reeving options.

PARTS OF LINE	1	2	3	4	5	6
STANDARD ROPE	12,971	25,942	38,913	51,884	64,855	70,000
ROTATION RESISTANT	9,080	18,160	27,240	36,320	45,500	54,480
BOOM HEAD	1	1-D	1-2	1-3-D	1-2-3	1-2-3-D
HOOK BLOCK	D	2	2-D	1-3	2-3-D	1-2-3

STANDARD WIRE ROPE: 5/8" 6 X 19 OR 6 X 37 EEIPS IWRC, PREFORMED RIGHT REGULAR LAY, MINIMUM BREAKING STRENGTH 45,400 LBS, WEIGHT 0.72 LBS/FT.

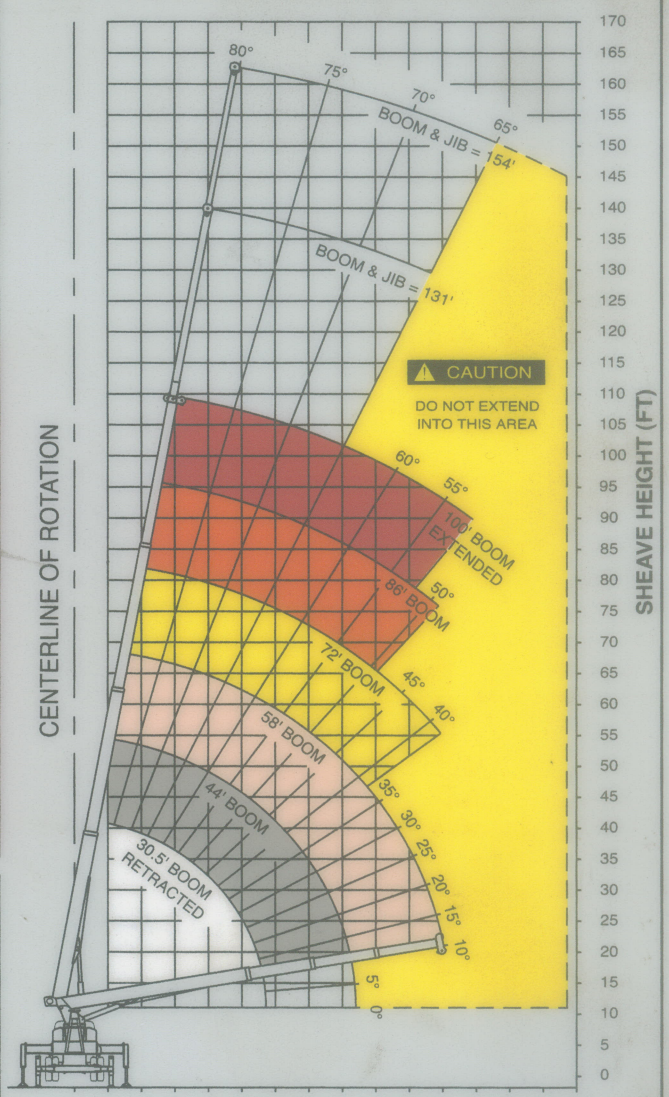
ROTATION RESISTANT ROPE: 5/8" ROTATION RESISTANT 19 X 19 COMPACTED STRAND EEIPS RIGHT REGULAR LAY, MINIMUM BREAKING STRENGTH 45,400 LBS, WEIGHT 0.85 LBS/FT.

LOAD RATINGS IN LBS.
MACHINE ON FULLY RETRACTED MAIN OUTRIGGERS (SPREAD 7'4")
AND ON FULLY RETRACTED AUXILIARY OUTRIGGERS (SPREAD 6'11")

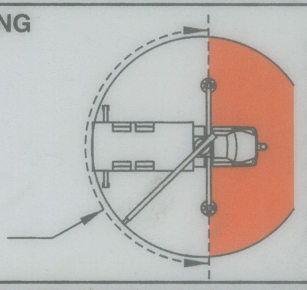


LOAD RADIUS (FT)	∠	30.5 FT	∠	44 FT	∠	58 FT	∠	72 FT	∠	86 FT	∠	100 FT
5	78	43,700*										
8	72	25,400										
10	68	16,100	75	16,800								
12	64	11,200	72	11,900	77	12,200						
15	58	7,000	68	7,800	74	8,100	77	8,200				
20	45	3,300	61	4,200	68	4,500	73	4,700	76	4,800		
25	29	1,300	53	2,200	63	2,600	69	2,800	72	2,900	75	3,000
30			44	1,000	57	1,400	64	1,600	69	1,800	72	1,800
									65	900	69	1,000

RANGE DIAGRAM: MID-SPAN OUTRIGGERS

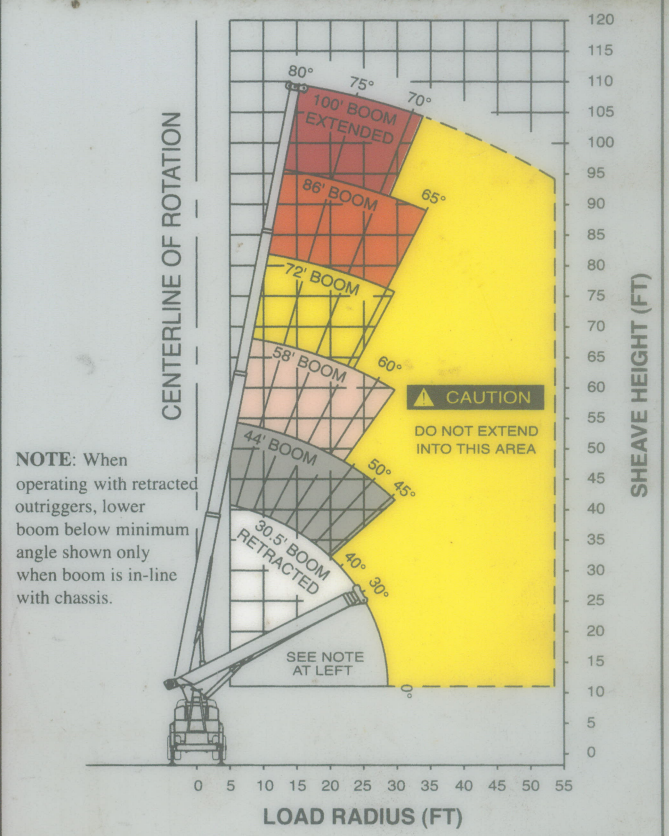


CRANE WORKING POSITIONS



FULL 360° OPERATION ALLOWED ONLY WHEN OPTIONAL FRONT STABILIZER PRESENT AND PROPERLY SET.

RANGE DIAGRAM: RETRACTED OUTRIGGERS



NOTE: When operating with retracted outriggers, lower boom below minimum angle shown only when boom is in-line with chassis.

654-00719-2

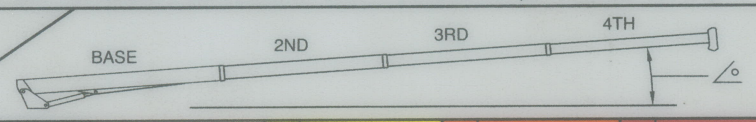
TEREX

WAVERLY, IOWA 50677
U.S. PATENT NOS. 4211332, 4459786, 5012939

MODEL BT-70100
MAXIMUM LOAD CHART

P.C.S.A. Class 5-90
CANADA PAT. NO. 1097265

LOAD RATINGS IN LBS.
MACHINE ON FULLY EXTENDED MAIN OUTRIGGERS (SPREAD 24')
AND ON FULLY EXTENDED AUXILIARY OUTRIGGERS (SPREAD 16'6")



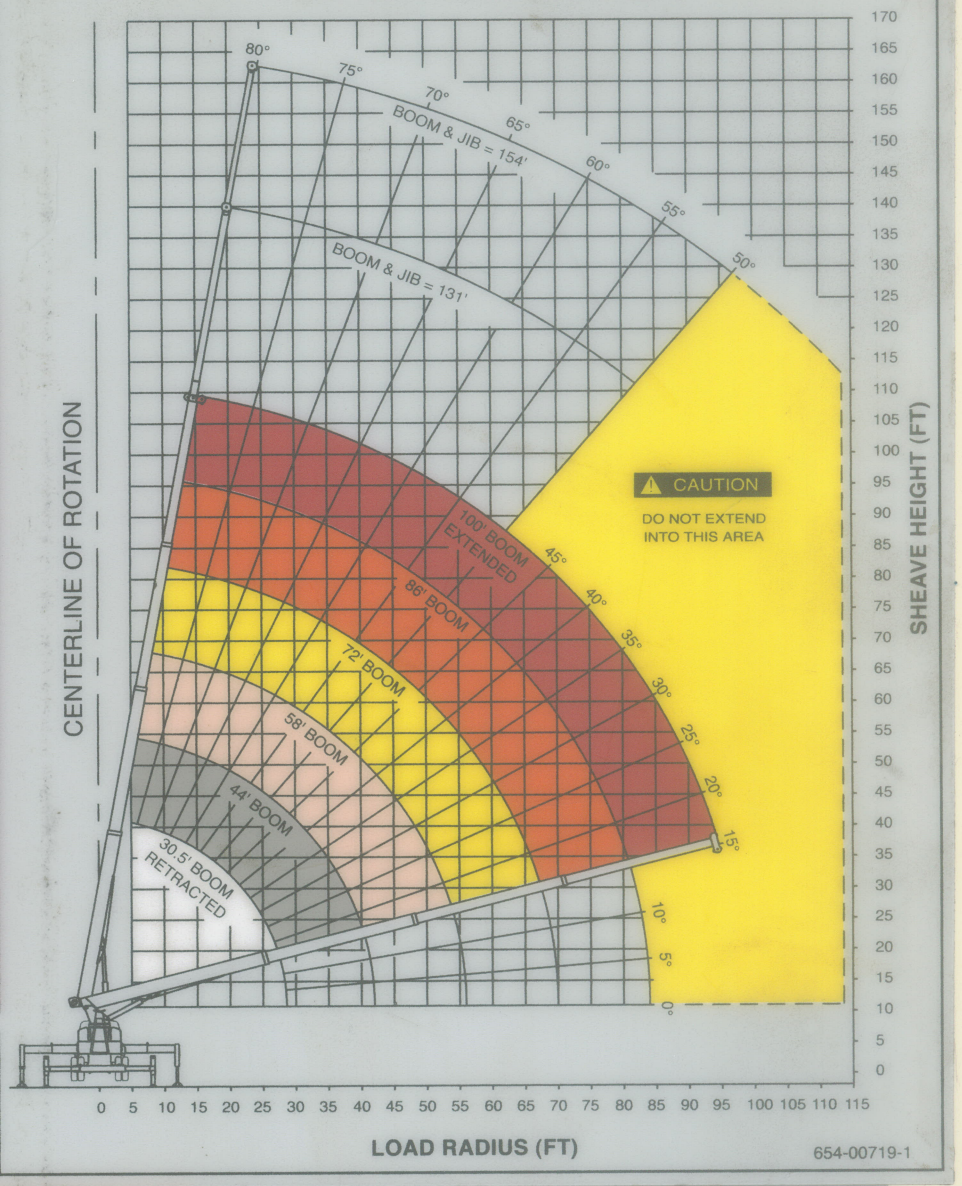
LOAD RADIUS (FT)	BOOM ANGLE / BOOM LENGTH 30.5 FT		44 FT		58 FT		72 FT		86 FT		100 FT	
5	78	70,000*										
8	72	54,900*										
10	68	46,300*	75	31,300*								
12	64	40,000*	72	31,700*	77	31,100*						
15	58	33,200*	68	31,600*	74	30,500*	77	27,600*				
20	45	24,400*	61	24,500*	68	23,600*	73	21,200*	76	19,000*		
25	29	18,300*	53	19,100*	63	19,100*	69	17,200*	72	15,300*	75	12,100*
30			44	15,000*	57	15,400*	64	14,400*	69	12,900*	72	10,500*
35			34	11,900	51	12,300	60	12,000	65	11,100*	69	9,100*
40			18	9,000	44	9,400	55	9,400	61	9,500	66	7,000*
45					36	7,400	50	7,600	57	7,700	62	6,000*
50					27	5,900	44	6,100	53	6,200	59	5,100*
55					11	4,600	38	5,000	49	5,100	56	4,500*
60							31	4,000	44	4,200	52	3,900*
65							22	3,200	39	3,400	48	3,400*
70									34	2,800	44	2,900
75									27	2,200	40	2,400
80									18	1,700	35	1,900
85											30	1,500
90											24	1,100
95											15	800
	0	8,700*	0	4,900*	0	2,800*	0	1,600*	0	700*		

NOTE: RATED LOADS DO NOT EXCEED 85% OF THE TIPPING LOAD AS DETERMINED BY SAE CRANE STABILITY TEST CODE J765A. STRUCTURAL RATINGS IN THE CHART ARE INDICATED WITH AN ASTERISK (*).

JIB CAPACITIES FOR ALL BOOM LENGTHS

BOOM ANGLE	80°	78°	75°	70°	65°	60°	55°	50°
30.5 FT JIB LENGTH	6,450*	6,000*	5,300*	4,000*	3,300*	2,300*	1,400*	800*
55 FT JIB LENGTH	3,500*	3,500*	3,500*	2,900	2,300*	1,700*	1,050*	700*

RANGE DIAGRAM
FULLY EXTENDED OUTRIGGERS



654-00719-1

⚠WARNING

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 the 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 J-765A, SAE METHOD OF TEST FOR CRANE STRUCTURE J1063 AND SAFETY CODE FOR CRANES, DERRICKS AND HOIST, ASME/ANSI B30.5-current at the time of manufacture.

DEFINITIONS

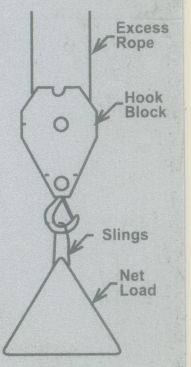
1. LOAD RADIUS - The horizontal distance from the axis of rotation before loading to the center of the vertical hoist line or tackle with a load applied.
2. LOADED BOOM ANGLE - The angle between the boom base section and the horizontal, after lifting the rated load at the rated radius. The boom angle before loading should be greater to account for deflections. The loaded boom angle combined with the 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 lifted load either on the ground or in the air.

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. Consult appropriate section of the Operator's Manual for more exact description of hoist line reeving.
4. 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.
5. Properly maintained wire rope is essential for safe crane operation. Consult Operator's Manual for proper maintenance and inspection requirements.
6. 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 manufacture.

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. When lifting over the jib and the angle is 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 (see Range diagrams) as tipping can occur without a load on the hook.
4. The boom angles shown on the Capacity Chart give an approximation of the operating radius for a specified 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. 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, 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, 4 feet for a four section boom, 5 feet for a five section boom.*
7. 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. Rated lifting capacities are based on correct reeving. Deduction must be made for excessive reeving. Any reeving over the minimum required, (see Hoist Tackle Chart), is considered excessive and must be accounted for. Use Working Range Diagram to estimate the extra feet (meters) of wire rope. Deduct for each foot of excessive wire rope before attempting to lift a load.



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 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.
10. Load ratings are dependent upon the crane being maintained according to manufacturer's specifications.
11. It is recommended that load handling devices, including hooks, and hook blocks, be kept away from boom head at all times.
12. Do not lift with outrigger beams positioned between fully extended and intermediate (pinned) positions.
13. 360 degree 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.

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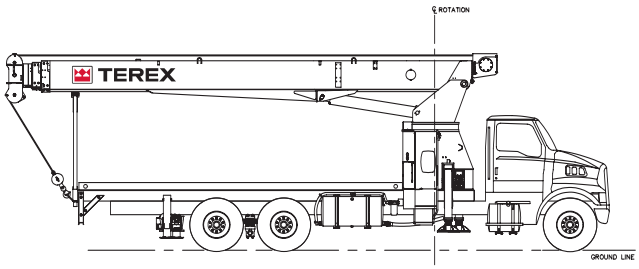
TEREX

BOOM TRUCK CRANE

STINGER 70100

BT MODEL

SPECIFICATIONS



BOOM

- 30.5-100' (9.30-30.48 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 tip height with four-section 30.5-100' (9.30-30.48 m) boom is 110' (33.53 m). Maximum tip height with optional two-stage 30.5-55' (9.30-16.76 m) jib is 163' (49.68 m).

WINCH

- Hydraulic winch with gear motor and planetary reduction gearing provides 2-speed operation. First layer rope pull is 15,000 lb (6 804 kg). Wire rope size is 5/8" (16 mm) with 45,400 lb (20 593 kg) breaking strength.

OPERATING SPEEDS

- Mainframe / turret assembly planetary gear rotation provides 180º rotation (370º with optional front bumper outrigger). Swing rotation is 75 seconds. Boom up/down is 60/41 seconds and boom extend/retract is 108/50 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 Out & Down. The maximum width over main outrigger pads is 25' 6" (7.78 m).
- Rear outriggers are Out & Down. The maximum width over auxiliary outrigger pads is 17' 6" (5.33 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 flatbeds
- 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 370º or continuous rotation)
- Hydraulic hose reel
- Hydraulic auxiliary tool circuit
- Tool box

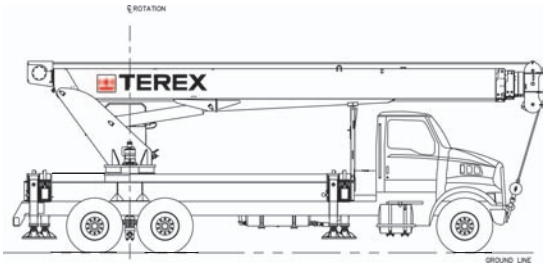
TEREX

BOOM TRUCK CRANE

STINGER 70100

RS MODEL

SPECIFICATIONS



BOOM

- 30.5-100' (9.30-30.48 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 tip height with four-section 30.5-100' (9.30-30.48 m) boom is 110' (33.53 m). Maximum tip height with optional two-stage 30.5-55' (9.30-16.76 m) jib is 163' (49.68 m).

WINCH

- Hydraulic winch with 2-speed gear motor and planetary reduction gearing provides 2-speed operation. First layer rope pull is 15,000 lb (6 804 kg). Wire rope size is 5/8" (16 mm) with 45,400 lb (20 593 kg) breaking strength.

OPERATING SPEEDS

- Mainframe / turret assembly planetary gear rotation provides 180º rotation (370º with optional front bumper outrigger). Swing rotation is 75 seconds. Boom up/down is 60/41 seconds and boom extend/retract is 108/50 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). Hydraulic oil cooler is standard.

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 and Rear outriggers are Out & Down type. The maximum width over outrigger (Front and Rear) pads is 22' 4" (6.81 m).
- Front bumper outrigger is standard

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
- Radio Remote Controls
- Enclosed Operators Cab
- Cab Heater
- Auxiliary winch
- Rotation-resistant load line
- One-man or two-man baskets
- Self-leveling work platform
- Winch drum tensioner
- Continuous rotation
- Hydraulic hose reel
- Hydraulic auxiliary tool circuit
- Tool box

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