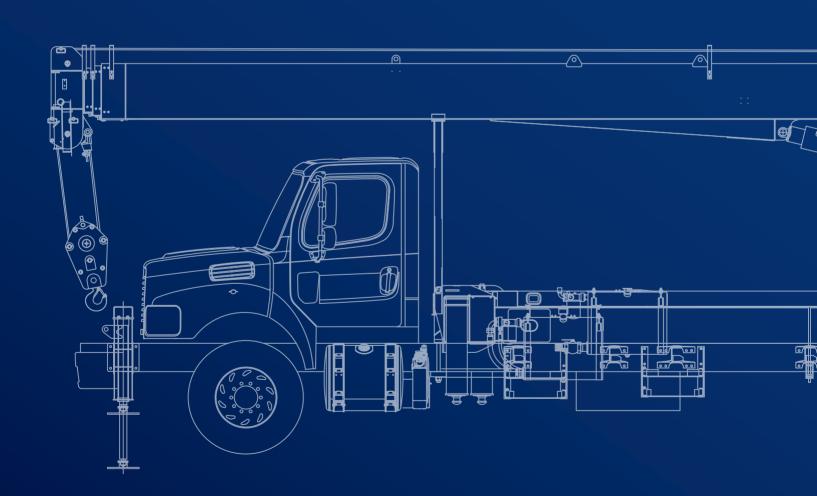


TC 300.1 SERIES PRODUCT GUIDE

30 TON (27.2 MT) TELESCOPIC CRANE







October 2025. Unless otherwise specified, all information in this brochure refers to a standard crane equipment, and it is intended as general information only. No liability is assumed. Errors reserved. Product specifications and prices are subject to changes without notice. The photographs and/or drawings in this brochure are for illustrative purposes only. For correct and safe crane operation, the original operating manual and lifting capacity charts are essential. Failure to follow the corresponding Operator's Manual when using our equipment or failure to otherwise act responsibly may result in property damage, serious injury or death. The sole warranty applicable with respect to our equipment is the standard warranty as per general terms and conditions of sales and service (ask your local Tadano dealer for details), and Tadano makes no other warranty, express or implied. All rights reserved. Any use of the trademarks, logos, brand names and model names used herein is prohibited.

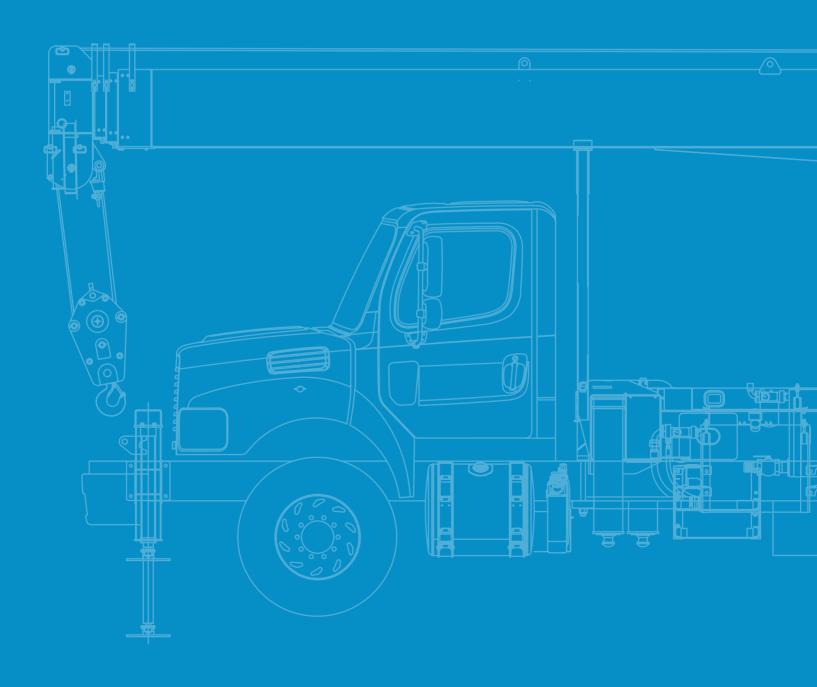
© Tadano Ltd. 2025

Contents

TC300.1 Series Chassis Data	6
Outrigger Extension	7
30112S Load Chart: Main Boom and Jib – Fully Extended	10
30112S Boom Diagram – Fully Extended	11
30112S Load Chart: Main Boom and Jib – Mid Extended	12
30112S Boom Diagram – Mid Extended	13
30112S Load Chart: Main Boom – Fully Retracted	14
30112S Boom Diagram – Fully Retracted	15
Area of Operation	16
Reeving Diagram	16
Technical Description	18-19
Technical Description – Options	20-21

Key





TC300.1 Series Chassis Data

Dimensions 33'-3" (10.1 m) retracted 112' (34.1) extended 24.00 (610 mm) 240.00 (6096 mm) (\mathbf{c}) 30112 59.84 12'-4" (3.76 m) OAH (1520 mm) 14'-3" (4.35 m) 41.00 (1041 mm) 28.66 192.00 109.00 (728 mm) (4877 mm) CT (2769 mm) AF 261.00 (6629 mm) WB 36'-11" (11.26 m)

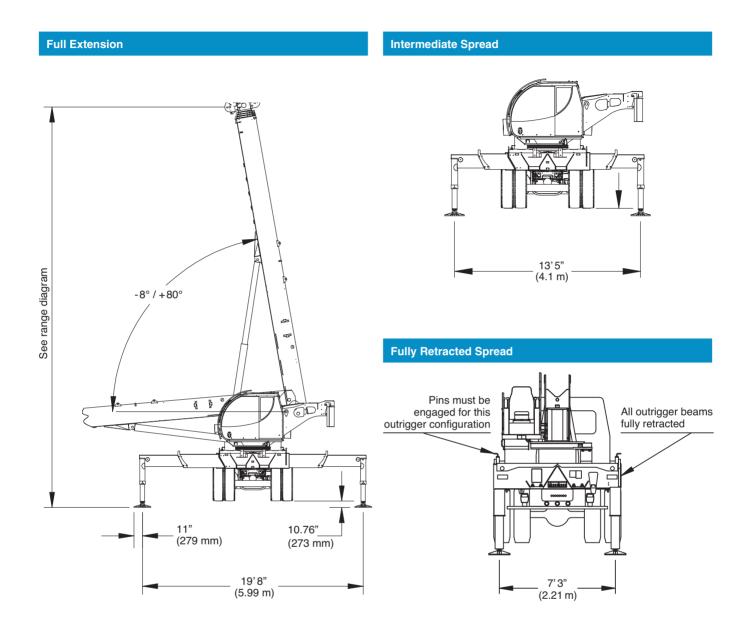
Chassis Data	
Model	30112S
Wheel base (WB)	261 in. (6,629 mm)
Cab to tandem (CT)	192 in. (4,877 mm)
Frame section modulus at 180° area of operation*	22.0 in ³ 120,000 psi · 758,422 kPa
Cab to end of frame (EOF)	301 in. (7,646 mm)
Nominal frame width	34 in. (864 mm)

^{*} Frame selection modulus at 360° area of operation requires front bumper stabilizer.

Truck Axle Ratings and Minin	num Weights
Front axle (GW)	20,000 lbs (9,790 kg)
Rear axle	40,000 lbs (19,580 kg)
Min. truck axle weight – Front**	8,300 lbs (3,765 kg)
Min. truck axle weight – Rear**	8,500 lbs (3,856 kg)
Crane Weight	
Crane dry weight	26,300 lbs (11,929 kg)
Flatbed 14.25 ft	1,200 lbs (544 kg)

^{**} Minimum chassis weight is required to meet 85% stability requirements. Chassis data is general – not for engineering. Some dimensions depend on truck selection.

Outrigger Extension



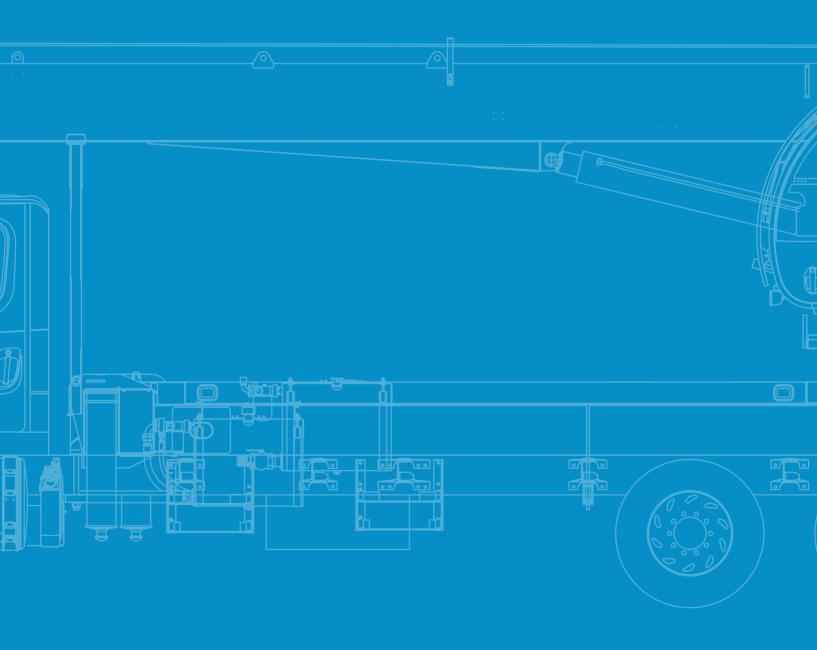
Sub Frame

- Integral sub-frame and outriggers are mounted to chassis by threaded rods and clamp plates
- Sub-frame: Torsion resistant, rigid 4-plate design mounted under crane full length of truck frame
- Rear under-ride protection: Standard on factory mounted cranes

Electrical System

- State-of-the-art, weather-resistant components throughout
- Hermetically sealed enclosure includes power in relays and circuit status LEDs

Notes



30112S Load Chart

Main Boom

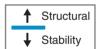
Fully Extended Outriggers

	33.25	ft – 11	2.0 ft	- 4 se	ction				!	1 9'8"	(5.99	m)			Full	y Exte	ended
									Fixed Jib						Telescopic Jib		
		33.25 ft		55 ft (A)		74 ft (B)	A	93 ft (C)	1	112 ft (D)			26 ft		26 ft		46 ft
ft	0	lbs	0	lbs	0	lbs	0	lbs	0	lbs	ft	•	lbs	0	lbs	0	lbs
5	80	60,000	-	-	-	-	-	-	-	-	5	-	-	-	-	-	-
8	75	43,830	-	-	-	-	-	-	-	-	8	-	-	-	-	-	-
10	71.5	37,330	79.5	25,000	-	-	-	-	-	-	10	-	-	-	-	-	-
12	68	32,640	77.5	25,000	-	-	-	-	-	-	12	-	-	-	-	-	-
15	62	27,600	74.5	24,610	79.5	22,120	_	-	-	-	15	-	-	-	-	-	-
20	51.5	21,850	69	19,320	75.5	18,080	79.5	13,300	-	-	20	-	-	-	-	-	-
25	38.5	16,630	63	15,930	71.5	14,750	76.5	11,900	79.5	8,000	25	-	-	-	-	-	-
30	18.5	12,710	57	13,250	67.5	12,440	73.5	10,550	77	8,000	30	80	4,500	80	4,300	-	-
35	-	-	50	10,540	63	10,720	70	9,330	74.5	7,290	35	78	4,500	78	4,300	79.5	2,700
40	-	-	42.5	8,350	58.5	8,570	67	8,500	72	6,600	40	76.5	4,500	76.5	4,300	78	2,700
45	-	-	33.5	6,630	53.5	6,850	63	6,960	69.5	5,970	45	74.5	4,300	74.5	4,030	76.5	2,700
50	-	-	21.5	5,330	48	5,560	59.5	5,670	66.5	5,390	50	72.5	4,000	72.5	3,720	75	2,700
55	-	-	-	-	42.5	4,550	55.5	4,660	63.5	4,730	55	70.5	3,700	70.5	3,420	73.5	2,700
60	-	-	-	-	36	3,740	51.5	3,860	60.5	3,920	60	68	3,420	68	3,140	72	2,700
65	-	-	-	-	27.5	3,070	47	3,190	57	3,260	65	66	3,130	66	2,800	70	2,580
70	-	-	-	-	16	2,510	42.5	2,640	54	2,710	70	63.5	2,790	63.5	2,440	68	2,390
75	-	-	-	-	-	-	37	2,170	50.5	2,240	75	61	2,350	61	2,050	66.5	2,220
80	-	-	-	-	-	-	31	1,770	46.5	1,840	80	58	1,940	_58	1,650	64.5	2,020
85	-	-	-	-	-	-	23.5	1,410	42.5	1,490	85	55.5	1,590	55.5	1,300	62	1,770
90	-	-	-	-	-	-	11	1,100	38.5	1,180	90	52.5	1,290	52.5	990	59.5	1,460
95	-	-	-	-	-	-	-	-	33.5	910	95	49.5	1,020	49.5	720	57	1,190
100	-	-	-	-	-	-	-	-	28	670	100	46.5	780	46.5	480	54.5	940
105	-	-	-	-	-	-	-	-	-	-	105	-	-	-	-	52	730
110	-	-	-	-	-	-	-	-	-	-	110	-	-	-	-	49.5	530

Deductions from main boom capacities for stowed jibs

SFJ	510 lbs	310 lbs	230 lbs	190 lbs	160 lbs
STJ	770 lbs	470 lbs	350 lbs	280 lbs	230 lbs

SFJ = Stowed fixed jib · STJ = Stowed telescopic jib

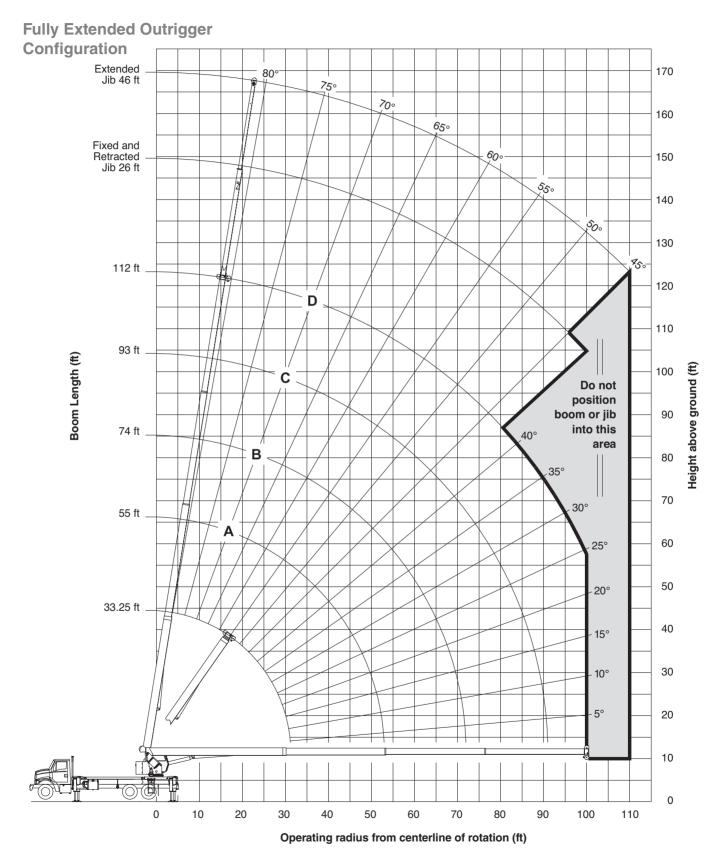


NOTES:

All "on outriggers" loads are based on 85% tipping Loads based on crane with outriggers and with tires off the ground Loads above heavy line are based on structural rating Loads below heavy line are based on stability rating

30112S Boom Diagram

Main Boom Jib



30112S Load Chart

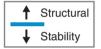
Main Boom

Mid Extended Outriggers

	33.25	ft – 11	2.0 ft						 	13' 5"	(4.1 r	n)			Mi	d Exte	ended
				A								Fixe	d Jib		Telesco	pic Jib	
		33.25 ft		55 ft (A)		74 ft (B)		93 ft (C)	1	12 ft (D)			26 ft		26 ft		46 ft
ft	0	lbs	0	lbs	0	lbs	0	lbs	0	lbs	ft	٥	lbs	0	lbs	0	lbs
5	80	60,000	-	-	-	-	-	-	-	-	5	-	-	-	-	-	-
8	75	43,830	-	-	-	-	-	-	-	-	8	-	-	-	-	-	-
10	71.5	37,330	79.5	25,000	-	-	-	-	-	-	10	-	-	-	-	-	-
12	68	32,640	77.5	25,000	-	-	-	-	-	-	12	-	-	-	-	-	-
15	62	24,850	74.5	24,610	79.5	22,120	-	-	-	-	15	-	-	-	-	-	-
20	51.5	13,890	69	14,520	75.5	14,760	79.5	13,300	-	-	20	-	-	-	-	-	-
25	38.5	8,910	63	9,510	71.5	9,720	76.5	9,850	79.5	8,000	25	-	-	-	-	-	-
30	18.5	6,030	57	6,650	67.5	6,850	73.5	6,960	77	7,040	30	80	4,500	80	4,300	-	-
35	-	-	50	4,790	63	4,990	70	5,100	74.5	5,170	35	78	4,500	78	4,300	79.5	2,700
40	-	-	42.5	3,490	58.5	3,690	67	3,800	72	3,860	40	76.5	3,950	76.5	3,640	78	2,700
45	-	-	33.5	2,530	53.5	2,730	63	2,830	69.5	2,900	45	74.5	2,980	74.5	2,670	76.5	2,700
50	-	-	21.5	1,770	48	1,990	59.5	2,090	66.5	2,160	50	72.5	2,230	72.5	1,920	75	2,440
55	-	-	-	-	42.5	1,400	55.5	1,500	63.5	1,570	55	70.5	1,640	70.5	1,330	73.5	1,830
60	-	-	-	-	36	920	51.5	1,020	60.5	1,090	60	68	1,160	68	850	72	1,350
65	-	-	-	-	-	-	-	-	-	-	65	-	-	-	-	70	940
70	-	-	-	-	-	-	-	-	-	-	70	-	-	-	-	-	-

Deductions from main boom capacities for stowed jibs

SFJ = Stowed fixed jib · STJ = Stowed telescopic jib

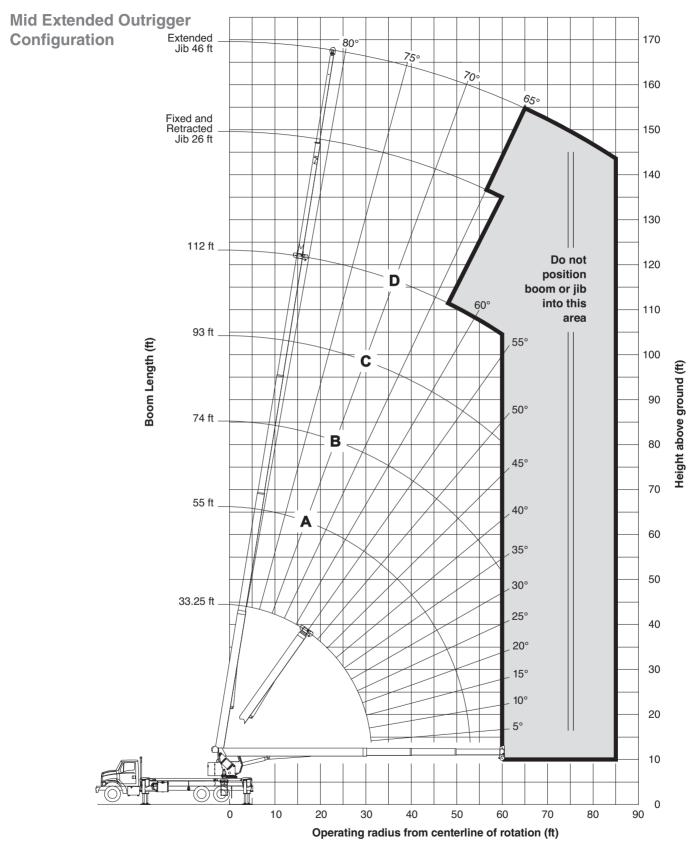


NOTES:

All "on outriggers" loads are based on 85% tipping Loads based on crane with outriggers off the ground Loads above heavy line are based on structural rating Loads below heavy line are based on stability rating

30112S Boom Diagram

Main Boom Jib



Fully Retracted Outriggers

	33.25	ft – 11	2.0 ft	t – 4 se	ction				 	7'3"	(2.21 m)		Fully Retracted	
												No jibs are to be erected		
		33.25 ft		55 ft (A)		74 ft (B)		93 ft (C)	1	12 ft (D)		in this outrigger of		
ft	0	lbs	0	lbs	0	lbs	0	lbs	0	lbs				
5	80	60,000	-	-	-	-	-	-	-	-				
8	75	27,790	-	-	-	-	-	-	-	-				
10	71.5	17,750	79.5	18,400	-	-	-	-	-	-				
12	68	12,510	77.5	13,100	-	-	-	-	-	-				
15	62	8,100	74.5	8,640	79.5	8,850	-	-	-	-				
20	51.5	4,330	69	4,850	75.5	5,030	79.5	5,140	-	-				
25	38.5	2,310	63	2,820	71.5	3,000	76.5	3,100	79.5	3,170				
30	18.5	1,020	57	1,560	67.5	1,740	73.5	1,840	77	1,900				
35	-	-	50	700	63	880	70	980	74.5	1,040				
Ded	uctio	ns fron	n ma	in boor	n ca	pacities	s for	stowed	jibs					
SFJ	51	0 lbs	3.	10 lbs	23	30 lbs	19	90 lbs	16	0 lbs				
STJ	-	'0 lbs	_	70 lbs		50 lbs		30 lbs	_	0 lbs				

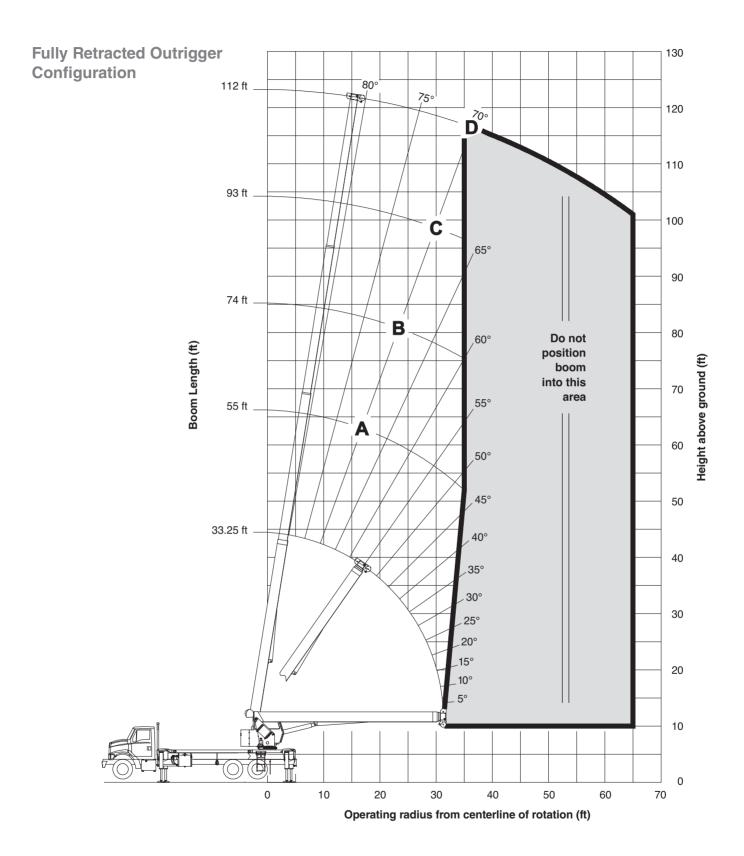
 $SFJ = Stowed fixed jib \cdot STJ = Stowed telescopic jib$

NOTES:

All "on outriggers" loads are based on 85% tipping Loads based on crane with outriggers off the ground Loads above heavy line are based on structural rating Loads below heavy line are based on stability rating

30112S Boom Diagram

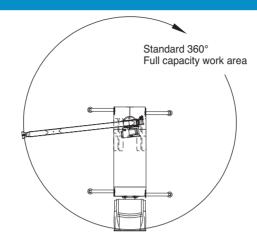
Main Boom



Area of Operation · Reeving Diagram

Area of Operation

Standard 360° area of operation Optional front stabilizer available

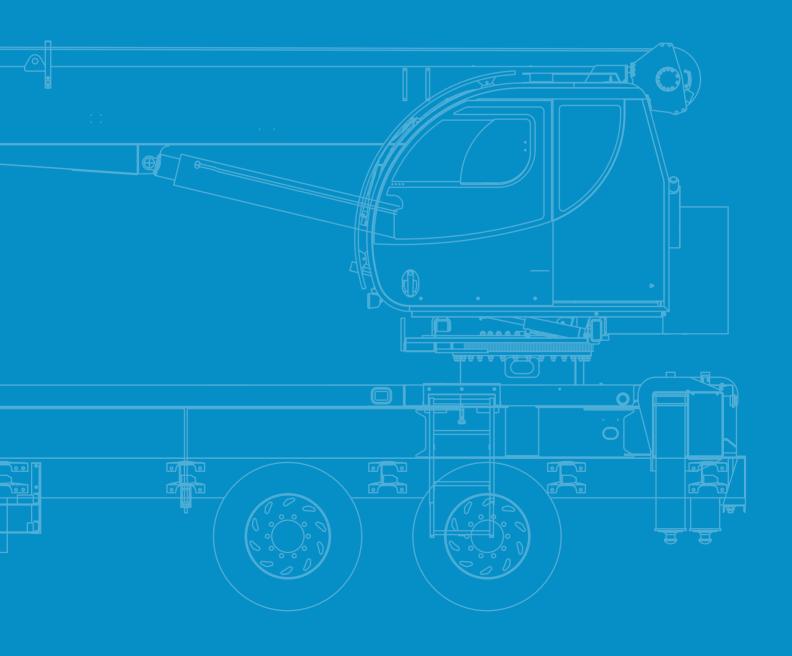


Deductions from rated loads for load handling devices supplied by Manitex

Auxiliary block	50 lbs (22.7 kg)
Overhaul ball	See overhaul ball mfgr. nameplate
Load blocks	See load block mfgr. nameplate
Swing around jib (stowed)	See load chart

WARNING: Lifting off the main boom point while the jib is erected is not intended nor approved.

Reeving L	Jiagram						
Allowable	Line Pull						WARNING
1 part line	2 part line	3 part line	4 part line	5 part line	6 part line	7 part line	Anti-Two-Block System must be
COC CONTRACT CO O O OVERHAUL COLOR	Co o control c	Coole SHEAVE BLOCK	(% o) % o o o o o o o o o o o o o o o o o	C O OF 3 SHEAVE BLOCK	Co o o o o o o o o o o o o o o o o o o	OPTENE OPTENE BLOCK	in good operating condition before operating crane. Refer to the owner's manual. Keep at least 3 wraps of load line on the drum at all times.
8,500 lbs	17,000 lbs	25,500 lbs	34,000 lbs	42,500 lbs	51,000 lbs	60,000 lbs	9/16" 6 x 25 IWRC (3.5 : 1 SF) 30,000 lbs min. breaking strength
7,700 lbs	15,400 lbs	23,100 lbs	30,800 lbs	38,500 lbs	46,200 lbs	53,900 lbs	9/16" rot resistant (5.0 : 1 SF) 38,500 lbs min. breaking strength



Technical Description

Boom lengths: Proportional boom • 4-section 112 ft (34.1 m) 4-sheave quick reeve boom point • 1 upper idler sheave • 3 load sheaves Self lubricating slider pads with Teflen inserts Max. tip height 30112S: 122 ft (37.2 m) Boom angle (min./max.): -8°/80°

Rotation	
①	Ball-bearing swing circle with external gear Double-reduction planetary gearbox driven by hydraulic motor
(Slewing brake: Spring-applied pressure released automatic brake
①	Slewing speed: 1.5 - 2 rpm (nominal) Boom rotation: 360° continuous

Outriggers	
! !	Outriggers: Out-and-down style FBS – Front Bumper Stabilizer (optional) Outrigger monitoring system (for verification only) Outrigger motion alarm
	Fully extended • Center to center: 19.4 ft (5.91 m)
	Fully retracted • Center to center: 6.9 ft (2.1 m)
:	ROC – Rock sold radio remote Outrigger Control

Operator Aids Anti two block system Outrigger motion alarm Boom angle indicator Bubble level LMI – Load Moment Indicator

Technical Description

Hoist, Rope and Hook	
	Maximum theoretical line speed: 300 fpm (91 mpm)
+ B	Maximum theoretical bottom-layer line pull rating: 11,500 lbs (5,216 kg)
	Main winch cable diameter: 0.5625 in. (14.3 mm) Rotation resistant rope
	Line length: 335 ft (102.2 m)
0	Main winch motor: Gear
å	Overhaul ball: 7 t (6.4 mt) capacity hook with heavy-duty swivel and weight is provided for single line operation

Hydraulics	
	8-bolt direct mounted PTO and SAE C output (factory mounted units only)
HYDR	3-section gear pump, SAE C input
	Hydraulic reservoir capacity: 70 gallons (265 l) • Suction stainer • Ball shutoff valve • Magnetic drain plug
	Return filter – 10 micron
	Winch 32 gpm
	Pump sections@2000 rpm with 100 psi • Cover end pump: 11.7 gpm (44 lpm)
	Boom hoist / telescopic 20 spm
	Oil cooler

Reclining Cab / Cab Controls	
	Standard features: Curved glass, 0° to 20° cab tilt, sliding door, heated cloth seat, 8 seat adjustments, lumbar support, reclining and adjustable head rest, sliding windows, rear pop out window, top hinged hatch, standard diesel fired heater, retractable sun screen, 12 volt DC outlet, E-coated cab
1 1111	Controls: four single axis pilot oil controls, CANBUS communication, J1939 truck engine communication capability, electronic hand and foot throttle, Hirschmann/PAT iScout D3 LMI system

Technical Description – Options

Boom

Jibs

30112S

• 1-section fixed jib: 26.0 ft (7.9 m)

• 2-section telescopic jib: 26.0 ft -46.0 ft (7.9 m - 14 m)

Max. Tip Height with Extension



30112S

• Max. tip height with extension: 168 ft (51.2 m)

• Max. tip height with extension retracted: 146.6 ft (44.7 m)

Bulkhead 24 in. (607 mm) bulkhead

Tool Boxes and Flatbed

Tool Boxes

• 24 in. L x 18 in. W x 18 in. H (610 mm L x 457 mm W x 457 mm H)

• 48 in. L x 24 in. W x 24 in. H (1,219 mm L x 610 mm W x 610 mm H)

Flatbeds

• 14.1 ft (4.3 m) steel flatbed

• 14.1 ft (4.3 m) wood flatbed

Hydraulics



Hose reel – boom mounted Front Bumper Stabilizer (FBS)

Free swing - No free swing control option

Technical Description – Options

Cab



Video camera (1 or 2) Cab weather band radio system

Radio Remote Control



- Radio remote control with joysticks (900 MHz or 433 MHz)
- Radio remote control with paddles (900 MHz or 300 MHz)

2-Person Basket



Consult Manitex for specific application and rating

- 2-person steel gravity leveled basket with friction brake
- 2-person aluminum quick attached rotating basket

Hoist and Hook



Auxiliary lower sheave block for 5-7 part lines Load blocks 1, 2-4, 2-6 part lines

Notes

Notes

www.tadano.com www.manitex.com

Tadano Ltd.

Kanda Square 18th Floor, 2-2-1 Kanda-Nishikicho, Chiyoda-ku, Tokyo 101-0054, Japan Phone: +81-3-6811-7309 (International Division)

Manitex Inc.

3000 South Austin Avenue #7544, Georgetown, TX 78626, USA Phone: +1 (803) 526-9672











