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UPTime is the Manitex commitment to complete support of thousands of units working every day.

UPTime

- Includes 24-7-365 parts shipments.
- Utilizes the efficiency of UPNet online parts order system.
- Relies on Manitex's UPTrak support tracking system for performance analysis and resource allocation.
- Features REMan, Manitex's cost effective rebuild/exchange program.
- Provides expert service technicians for troubleshooting and site visits.
- Mandates training; at our facility and yours. It includes coordinated support from all component suppliers.
- Involves every Manitex team member in the support of every Manitex customer.

What does UPTime mean to Manitex customers?

UPTime means reliability.

UPTime means utilization.

UPTime means profitability.



features

- 38 Ton (34,5 mton) Capacity
- 5-Section 124' (37,8 m) Proportional Boom
- 4-Section 100' (30,5 m) Proportional Boom
- 3-Section 77' (23,5 m) Proportional Boom
- 1 and 2-Section 30' 6" (9,3 m) to 55' (16,8 m) Jib
- 165' 11" (50,6 m) Maximum Tip Height
- Continuous Rotation
- Retracted, Intermediate and Fully Extended Outrigger Charts are Standard
- Pilot Operated Controls with Optional Free Swing
- 2-Speed Planetary Hoist with Grooved Drum, Negative Draft Flange and Cable Roller. Optional Aux Hoist
- Load Moment Indicator with Digital Display, CAN Bus, Overload Shutdown and Internal Boom Length Cable
- Radio ATB
- Rugged, Weatherproof Electrical System with Circuit Status LEDs
- Optional Cab and Heater
- System Pressure Gauge
- Clamp-On Mounting
- Self-Lubricating Slider Pads
- Manitex UPTime Comprehensive Support

series 3802

BOOM TRUCKS



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product guide



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series 3802

GENERAL SPECIFICATIONS

BOOM

Inverted T-cross section, 3,4, or 5-section telescoping type, extended and retracted proportionally by a double-acting hydraulic cylinder and cable-crowd system.

38100S/SHL – 4-Section 30' 6"(9,3 m) to 100' 0" (30,5 m). 2-section, 31' (9,5 m) to 55' (16,8 m) jib.

38124S/SHL – 5-section 30' 10" (9,4 m) to 123' 6" (37,6 m). 1-section, 31' (9,5 m) jib.

3877S/SHL – 3-section, 29'5"(9m) to 77'(23,5m).

Quick Reeve Boom Point – Five high-density nylon load sheaves mounted on heavy-duty roller bearings. Two removable pin-type rope guards.

Boom Elevation – Double-acting hydraulic cylinder. Working range from 10° below horizontal to 80° above.

Load Hook – 5-ton (4,5 mton) capacity hook with heavy-duty swivel and weight is provided for single-line operation.

HOIST

Main Hoist – Maximum theoretical line speed 453 fpm (138 mpm). Maximum theoretical bottom-layer line pull 13050 lb (5 919 kg). Two-speed planetary reducer with wet multi-disc spring applied, pressure-released internal brake and grooved drum.

Optional Aux Hoist - Same as Main

Wire Rope – 380' (115,8 m) of 5/8" (16 mm) diameter rotation resistant type.

SWING SYSTEM

Free swing continuous rotation system. Externally mounted, double-reduction planetary gearbox driven by hydraulic motor. Equipped with a dual brake system; spring-applied hydraulically-released Parking Brake and a foot actuated Dynamic Service brake. Ball-bearing swing circle with external gear. Manitex ACCUSwing control allows operator to adjust crane swing speed up to a maximum of 2.0 rpm.

Free swing not available when crane is equipped with Auxiliary winch option.

OUTRIGGERS

Out-and-down style outriggers, operated independently for precise leveling. Fully extended, intermediate extension and fully retracted positions. 16" (406 mm) diameter floats. Bubble level located near outrigger controls.

MOUNTING

Lower frame is mounted to chassis by threaded rods and clamp plates. No welding, drilling, or bolting to truck frame is required.

Lower Frame – Torsionally resistant, rigid 4-plate design with integrated outriggers and pedestal.

Rear Underride Protection – Supplied on factory-mounted cranes. Fabricated structure mounted under rear of crane. Complies with Bureau Motor Carrier Safety Standard 393.86.

Boom Rest – Heavy-duty fabrication. Easily removed to simplify loading and unloading truck deck.

CONTROL SYSTEM

Single operator platform and seat mounted to turret. Four "pilot operated" single-axis crane controls provide precise metering and multifunction capability. Swing is further refined using Manitex ACCUSwing control to allow setting to individual operator preference. Optional free swing is available to assist in tandem lifting and centering of boom over loads. Controls are arranged in accordance with ANSI B30.5 standards. The operator station also includes engine start/stop, air foot throttle, signal horn, load moment indicator display, boom angle indicator, load chart and range diagram. Enclosed cab and heater are optional.

HYDRAULICS

Hydraulic System – A 3-section pump direct-mounted to power take-off on truck transmission provides 41.7 gpm (158 lpm) to the hoist, 28 gpm (106 lpm) to the boom hoist and telescope circuit, and 12 gpm (45 lpm) to the swing and outrigger

circuit. 100-gallon (379-liter) baffled reservoir includes suction ball valve with strainer and two 25-micron filters in the return line. Use of SAE O-ring and face seal O-ring hydraulic fittings throughout system.

Hydraulic Cylinders – All load-holding cylinders are equipped with integral holding valves.

WARNING SYSTEMS

Load Moment Indicator – CAN bus system maximize expansion capabilities. Senses boom hoist cylinder pressure, boom length and boom angle. Audio-visual warning indicates overload conditions and overload shutoff feature prevents continuing overload. Operator can access all relative crane configuration and load conditions via display at the operator station. Internal boom length cable.

Radio Anti-Two-Block System – Audible warning and shutoff functions prevent hook from contacting boom point. Switch is potted to ensure reliability.

Back-Up Alarm – Supplied on factory-mounted cranes, electronic audible motion alarm activated when truck transmission is in reverse gear.

GENERAL

Electrical – State-of-the-art, weather-resistant components throughout. Automotive style electrical system for easy installation. Designed to withstand high pressure washing and varying climates.

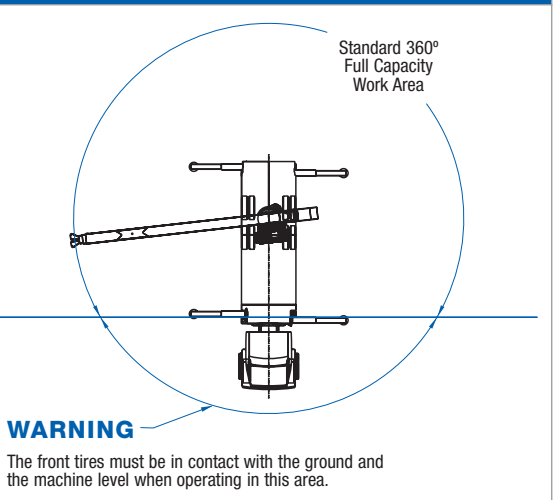
Design/Welding – Design conforms to ANSI B30.5. Welding conforms to AWS D1.1. Tested to SAE 1063 and SAE 765.

Manuals – Operator, service and parts manuals depict correct crane operation, maintenance procedures and parts listing.

Warranty – 12-month warranty covers parts and labor resulting from defects in material and workmanship.

* In order to ensure continuous improvement, specifications may change without notice.

AREA OF OPERATION



DEDUCTIONS

Auxiliary Block	50 lb <i>22,72 kg</i>
Load Block	See block manufacturer nameplate
Overhaul Ball	See overhaul ball manufacturer nameplate
Hose Reel	260 lb <i>118,18 kg</i>
Swing Around Jib (Stowed)	See load rating chart

ALLOWABLE LINE PULL

1 Part Line	2 Part Line	3 Part Line	4 Part Line	5 Part Line	6 Part Line	7 Part Line	8 Part Line	WARNING
								Anti-two-block system must be in good operating condition before operating crane. Refer to the owner's manual. Keep at least three wraps of load line on the drum at all times.
9,080 lb <i>4 127 kg</i>	18,160 lb <i>8 254 kg</i>	27,240 lb <i>1 238 kg</i>	36,320 lb <i>16 509 kg</i>	45,400 lb <i>20 636 kg</i>	54,480 lb <i>24 763 kg</i>	63,560 lb <i>28 890 kg</i>	72,640 lb <i>32 949 kg</i>	.625" rot resistant (5.0:1 SF) - 45400 lb. min. breaking strength
9,500 lb <i>4 318 kg</i>	19,000 lb <i>8 636 kg</i>	28,500 lb <i>12 954 kg</i>	38,000 lb <i>17 272 kg</i>	47,500 lb <i>21 590 kg</i>	57,000 lb <i>25 909 kg</i>	66,500 lb <i>30 227 kg</i>	76,000 lb <i>34 473 kg</i>	.625" 6 x 25 IWRC (3.5:1 SF) - 33250 lb. min. breaking strength

BOOM AND JIB COMBINATIONS

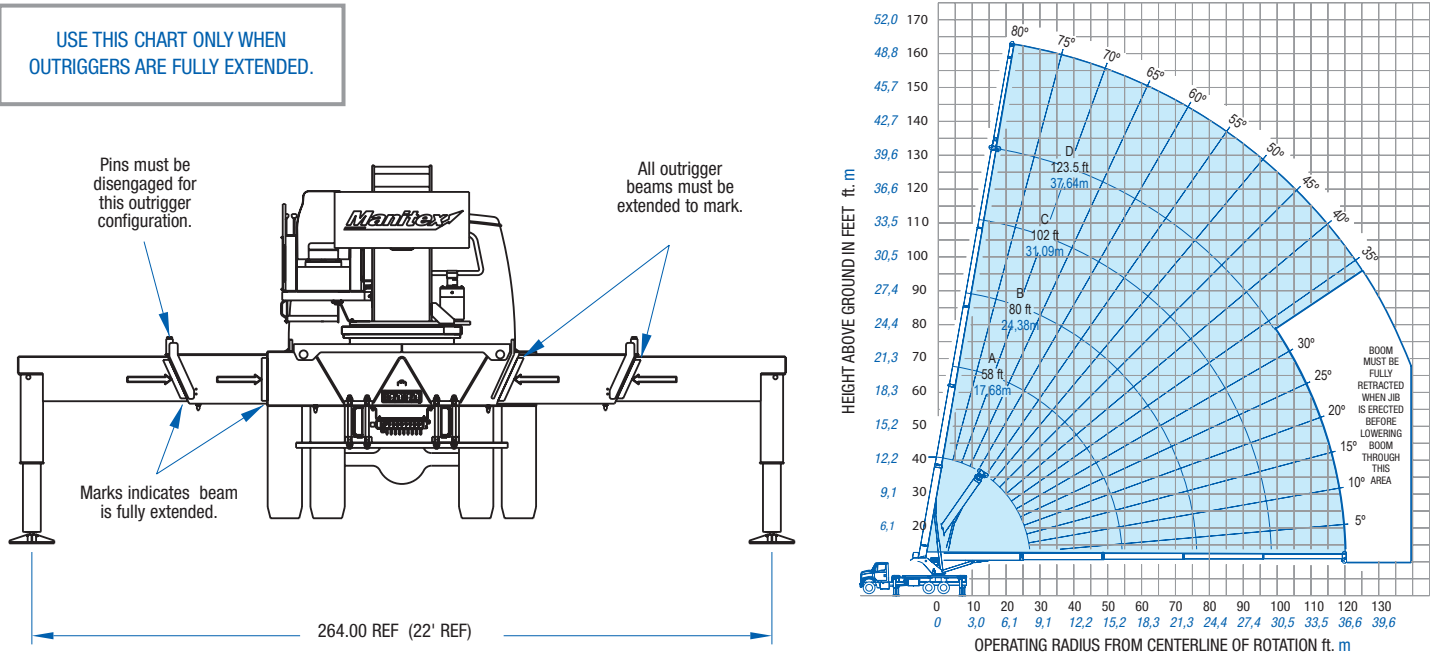
3877S/SHL	77'	3 Section Boom	
38100S/SHL	100'	4 Section Boom	31' – 55' 2- Section Jib
38124S/SHL	124'	5 Section Boom	31' 1- Section Jib

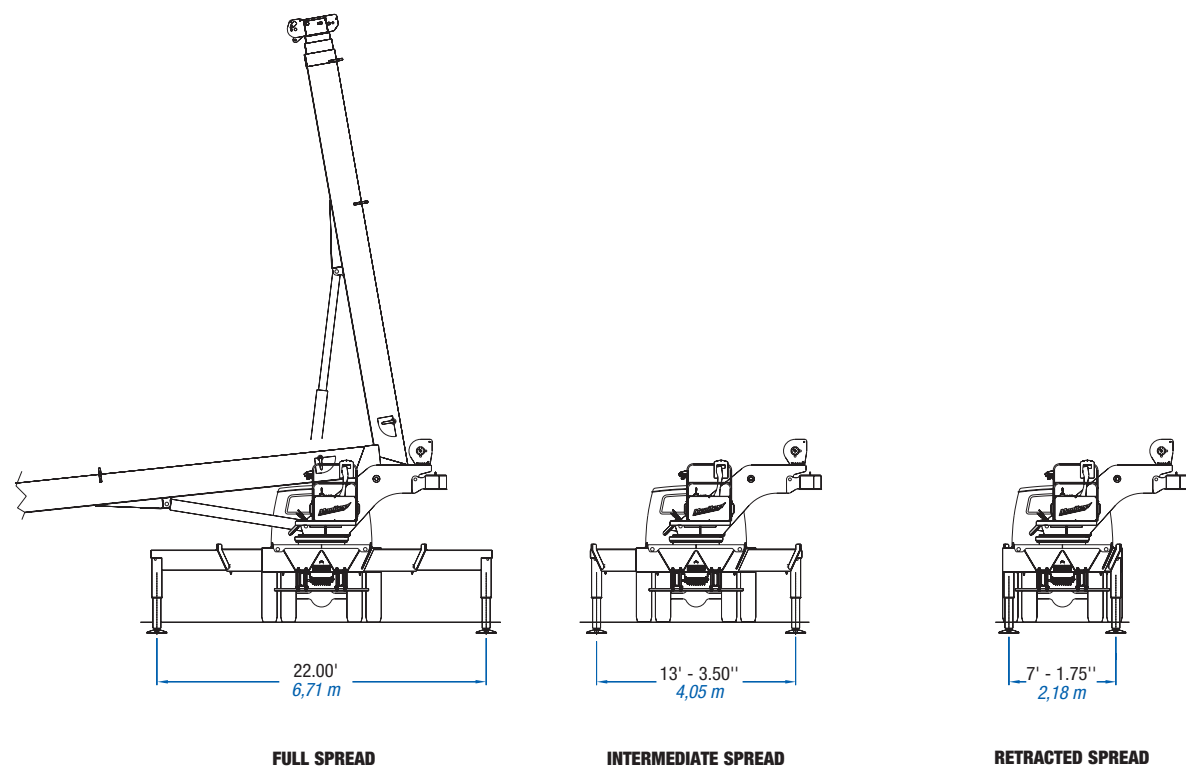


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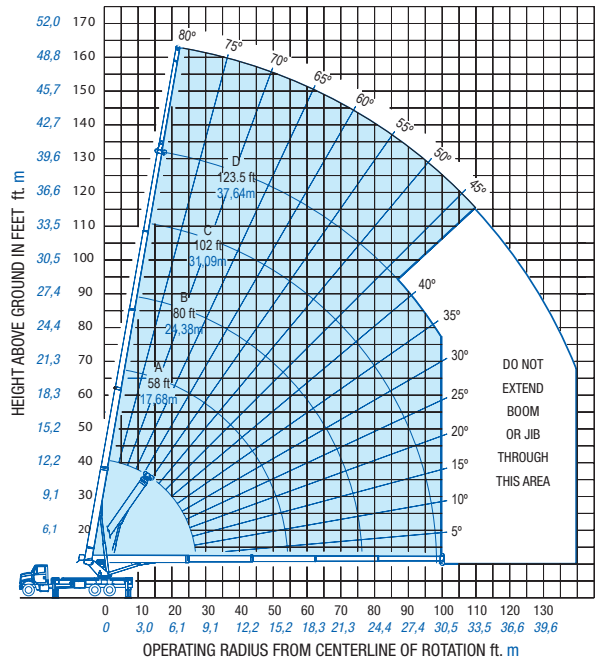
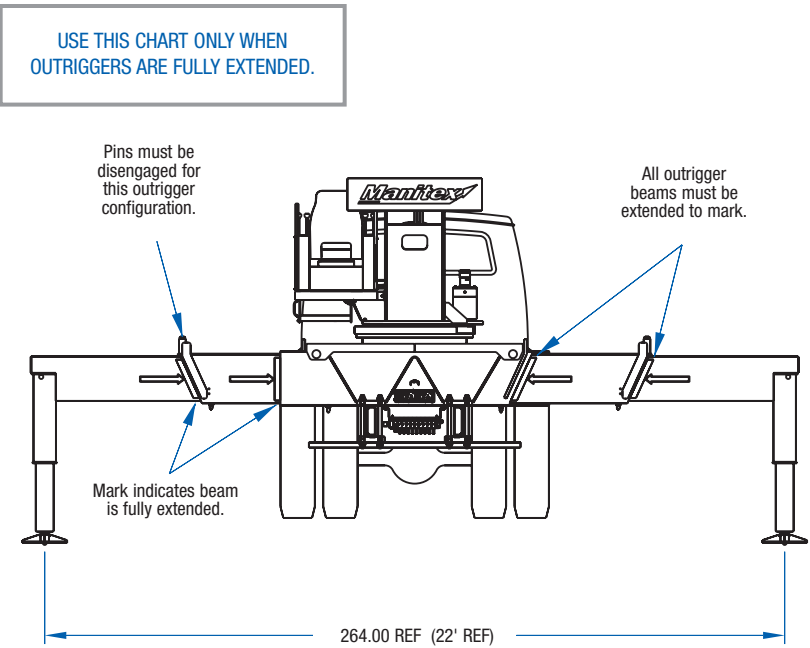


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WEIGHTS	3877S	38100S	38124S	3877SHL	38100SHL	38124SHL
Cab Alone	575 lb 261 kg	575 lb 261 kg	575 lb 261 kg	575 lb 261 kg	575 lb 261 kg	575 lb 261 kg
Crane without Cab	28,806 lb 13 066 kg	29,733 lb 13 847 kg	31,329 lb 14 211 kg	34,535 lb 15 664 kg	35,826 lb 16 251 kg	37,246 lb 16 895 kg
Flat Bed 10' (3,10 m)	1,000 lb 454 kg	1,000 lb 454 kg	1,000 lb 454 kg	—	—	—
Flat Bed 8' (2,40 m)	—	—	—	750 lb 340 kg	750 lb 340 kg	750 lb 340 kg
Fixed Jib 30'6" (9,30 m)	—	1,126 lb 511 kg	—	—	1,126 lb 511 kg	—
Fixed Jib 31' (9,50 m)	—	—	850 lb 386 kg	—	—	850 lb 386 kg
Telescopic Jib 30'6"– 55' (9,3m – 16,8m)	—	1,754 lb 796 kg	—	—	1,754 lb 796 kg	—



MAIN BOOM LOAD RATINGS																JIB			
	Boom Length			A			B			C			D			Fixed Jib			
Operating Radius	30.8 Feet 9,40 Meters			58 Feet 17,68 Meters			80 Feet 24,38 Meters			102 Feet 31,09 Meters			123.5 Feet 37,64 Meters			31 Feet 9,50 Meters			
Feet Meters	⎯	lb.	kg.	⎯	lb.	kg.	⎯	lb.	kg.	⎯	lb.	kg.	⎯	lb.	kg.	⎯	lb.	kg.	
5 1,52		75	76,000 34 473																
8 2,44		69	60,500 27 442																
10 3,05		64	52,550 23 836																
12 3,66		60	46,600 21 137	75	25,000 11 340														
15 4,57		53	39,600 17 962	73	25,000 11 340		79	21,500 9 752											
20 6,10		40	30,300 13 744	67	25,000 11 340		75	19,700 8 936	80	14,500 6 577									
25 7,62		22	23,070 10 464	62	22,840 10 360		71	18,200 8 255	77	13,500 6 123	80	8,450 3 833							
30 9,14				56	18,670 8 469		67	16,250 7 371	74	12,820 5 815	78	8,150 3 697	80	4,000 1 814					
35 10,67				49	14,450 6 554		63	14,540 6 595	71	11,380 5 162	75	7,800 3 538	78	3,850 1 746					
40 12,19				42	11,190 5 076		59	11,490 5 212	68	10,160 4 608	72	7,280 3 302	76	3,700 1 678					
45 13,71				34	8,820 4 001		54	9,110 4 132	65	9,250 4 196	70	6,780 3 075	74	3,550 1 610					
50 15,24				23	7,030 3 189		50	7,340 3 329	61	7,480 3 393	67	6,160 2 794	72	3,400 1 542					
55 16,76							44	5,970 2 708	58	6,110 2 771	65	5,540 2 513	70	3,250 1 474					
60 18,28							39	4,880 2 214	54	5,020 2 277	62	5,000 2 268	68	3,080 1 397					
65 19,81							32	3,980 1 805	50	4,130 1 873	59	4,200 1 905	66	2,910 1 320					
70 21,34							24	3,230 1 465	46	3,390 1 538	56	3,460 1 569	64	2,750 1 247					
75 22,86							12	2,580 1 170	42	2,760 1 252	53	2,830 1 284	62	2,600 1 179					
80 24,38										37	2,220 1 007	50	2,300 1 043	60	2,460 1 116				
85 25,91										32	1,750 794	47	1,840 835	58	2,260 1 025				
90 27,43										25	1,340 608	43	1,430 649	55	1,850 839				
95 28,96										17	970 440	40	1,070 485	53	1,490 676				
100 30,48												35	750 340	51	1,170 531				
105 32,00														48	880 399				
110 33,53														45	620 281				
			450 lbs 204 kg			240 lbs 109 kg			180 lbs 82 kg			140 lbs 64 kg			120 lbs 54 kg		DEDUCTIONS FOR STOWED JIB		

Meets ANSI B30.5 Requirements - Do not operate crane or accessories within 10' (3,05m) of live power lines.
NOTICE: This chart is for reference only and must not be used for lifting purposes. Consult factory for other boom options.