

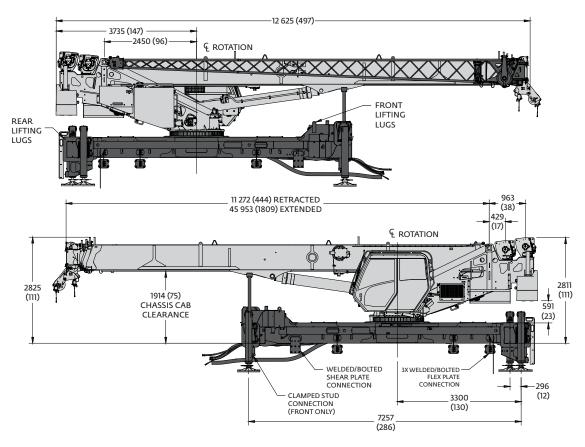


Features

- NBT50L: 45,4 t (50 USt)
- NBT55L: 49,9 t (55 USt)
- 46 m (151 ft) five-section, full-power boom
- 11 m (36 ft) lattice, offsettable jib

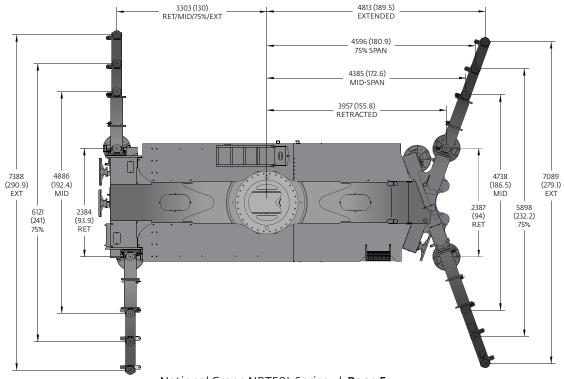
- Hydraulically removable counterweight system with multiple configurations
- Hydraulically tilting operator cab
- NTC Performance Package (NTC50L/NTC55L)

Dimensions



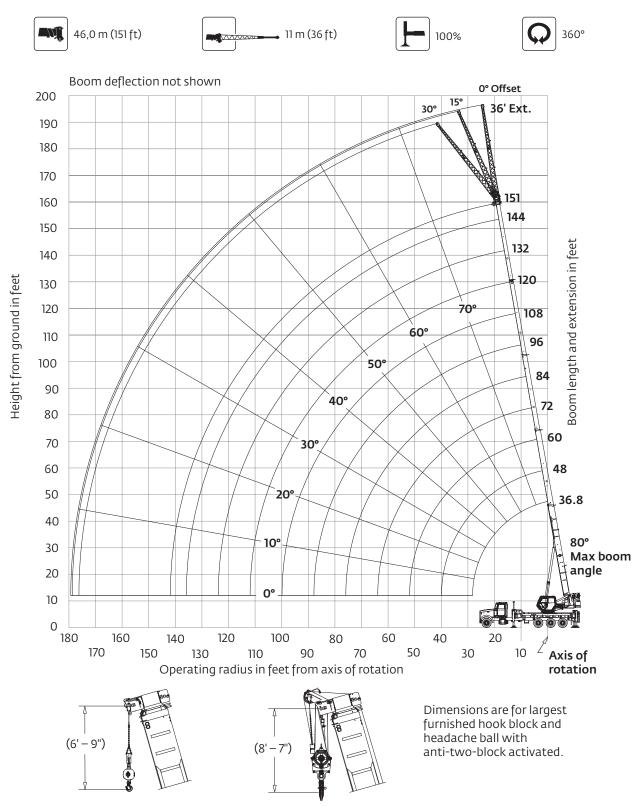
Dimensions are in mm (in) unless otherwise specified

Note: 75% span available ONLY with the NTC Performance Package.



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Working range



^{*} This drawing shows the physical reach of the machine. Always refer to load chart to see which portions of this diagram are valid for the specific machine configuration and where the loads are structurally or stability limited.

NBT55L/NTC55L



11 m - 46 m (36 ft - 151 ft)



2722 kg (6000 lb)



100%



360°





Pound:

Radius					Main Bo	om Lengt	h in Feet				
in Feet	36.8	48	60	72	84	96	108	120	132	144	151
6	110,000 (71.5)	41,500 (76.7)	_	_	_	_	_	_	_	_	_
8	106,500 (68)	41,500 (74.2)	41,500 (78.2)	_	_	_	_	_	_	_	_
10	93,200 (64.4)	41,500 (71.6)	41,500 (76.2)	41,500 (79.4)	_	_	_	_	_	_	_
12	82,600 (60.7)	41,500 (69)	41,500 (74.2)	41,500 (77.8)	_	_	_	_	_	_	_
15	70,150 (54.9)	41,500 (64.9)	41,500 (71.1)	41,500 (75.3)	39,700 (78)	33,200 (79.9)	_	_	_	_	_
20	55,100 (43.7)	41,500 (57.8)	41,500 (65.8)	41,500 (71)	36,100 (74.5)	30,250 (77)	23,550 (79.3)	_	_	_	_
25	37,200 (28.9)	41,500 (49.9)	41,500 (60.3)	38,150 (66.7)	32,950 (71)	27,400 (74.1)	21,150 (76.7)	18,600 (78.9)	_	_	_
30	_	32,650 (40.5)	33,400 (54.3)	33,850 (62.1)	30,250 (67.4)	24,700 (71.1)	19,100 (74.2)	16,950 (76.7)	14,500 (78.4)	11,300 (79.9)	_
35	_	26,200 (28.5)	26,950 (47.6)	27,450 (57.2)	27,700 (63.6)	22,350 (68)	17,250 (71.5)	15,450 (74.3)	13,900 (76.4)	11,300 (78)	10,050 (78.8)
40	_	_	21,350 (39.6)	22,600 (52)	22,300 (59.5)	20,300 (64.8)	15,700 (68.8)	14,150 (72)	12,800 (74.3)	11,300 (76.1)	10,050 (77)
45	_	_	17,050 (30)	18,300 (46.1)	18,050 (55.3)	17,750 (61.4)	14,350 (66.1)	12,950 (69.6)	11,750 (72.1)	10,700 (74.2)	10,050 (75.2)
50	_	_	13,050 (15.5)	14,950 (39.2)	14,800 (50.7)	14,850 (57.8)	13,200 (63)	11,900 (67.1)	10,850 (70)	9930 (72.3)	9470 (73.4)
55	_	_	_	12,250 (31.1)	12,250 (45.2)	12,550 (54)	12,150 (59.8)	11,000 (64.4)	10,000 (67.8)	9200 (70.3)	8780 (71.5)
60	_	_	_	10,000 (20.4)	10,050 (39.1)	10,650 (49.9)	10,500 (56.5)	10,150 (61.5)	9300 (65.4)	8540 (68.3)	8160 (69.6)
65	_	_	_	_	8490 (32)	9090 (44.8)	8930 (53)	9450 (58.5)	8640 (62.8)	7940 (66.2)	7590 (67.7)
70	_	_	_	_	7080 (23.3)	7760 (39.2)	7610 (48.9)	8160 (55.4)	7870 (60.2)	7380 (63.9)	7070 (65.6)
75	_	_	_	_	5380 (8.2)	6610 (32.9)	6490 (44.2)	7030 (52.1)	6790 (57.4)	6550 (61.5)	6420 (63.4)
80	_	_	_	_	_	5620 (25.4)	5530 (39.1)	6030 (48.2)	5840 (54.6)	5650 (59.1)	5740 (61.2)
85	_	_	_	_	_	4750 (15)	4550 (33.4)	5140 (43.8)	5010 (51.6)	4880 (56.6)	5100 (58.9)
90	_	_	_	_	_	_	3850 (26.9)	4340 (39.1)	4270 (47.7)	4200 (54)	4490 (56.5)
95	_	_	_	_	_	_	3240 (18.6)	3630 (34)	3610 (43.6)	3590 (51)	3910 (54)
100	_	_	_	_	_	_	_	2980 (28.1)	2790 (39.2)	2820 (47.4)	3360 (51.1)
105	_	_	_	_	_	_	_	2380 (21.1)	2300 (34.5)	2320 (43.5)	2830 (47.5)
110	_	_	_	_	_	_	_	1840 (10.5)	1870 (29.2)	1890 (39.4)	2320 (43.8)
115	_	_	_	_	_	_	_	_	1480 (23)	1490 (35)	1840 (39.8)
120						_			1130 (14.8)	1130 (30.1)	1370 (35.6)
125	_	_	_	_	_	_	_	_	_	810 (24.6)	930 (31)
130	_	_	_	_	_	_	_	_	_	520 (17.7)	500 (25.7)

NOTE: () Boom angles are in degrees.

Boom		Main Boom Length in Feet									
Angle	36.8	48	60	72	84	96	108	120	132	144	151
0°	14,400 (28.3)	10,000 (39.5)	6570 (51.5)	4360 (63.5)	2820 (75.5)	1690 (87.5)	820 (99.5)	_	_	_	_

NOTE: () Reference radii in feet.

NBT55L/NTC55L



11 m – 46 m (36 ft – 151 ft)



2722 kg (6000 lb)





Over rear





Radius					Main Bo	om Lengtl	h in Feet				
in Feet	36.8	48	60	72	84	96	108	120	132	144	151
6	110,000 (71.5)	41,500 (76.7)	_	_	-	_	_	_	_	_	_
8	106,500 (68)	41,500 (74.2)	41,500 (78.2)	_	_	_	_	_	_	_	_
10	96,050 (64.4)	41,500 (71.6)	41,500 (76.2)	41,500 (79.4)	_	_	_	_	_	_	_
12	87,300 (60.7)	41,500 (69)	41,500 (74.2)	41,500 (77.8)	_	_	_	_	_	_	_
15	75,400 (54.9)	41,500 (64.9)	41,500 (71.1)	41,500 (75.3)	39,700 (78)	33,200 (79.9)	_	_	_		_
20	57,600 (43.7)	41,500 (57.8)	41,500 (65.8)	41,500 (71)	36,100 (74.5)	30,250 (77)	23,550 (79.3)	_	_	_	_
25	37,200 (28.9)	41,500 (49.9)	41,500 (60.3)	38,150 (66.7)	32,950 (71)	27,400 (74.1)	21,150 (76.7)	18,600 (78.9)	_	_	_
30	_	35,300 (40.5)	36,050 (54.3)	34,950 (62.1)	30,250 (67.4)	24,700 (71.1)	19,100 (74.2)	16,950 (76.7)	14,500 (78.4)	11,300 (79.9)	
35	_	27,200 (28.5)	29,450 (47.6)	29,500 (57.2)	27,950 (63.6)	22,350 (68)	17,250 (71.5)	15,450 (74.3)	13,900 (76.4)	11,300 (78)	10,050 (78.8)
40	_	_	23,700 (39.6)	24,300 (52)	24,450 (59.5)	20,300 (64.8)	15,700 (68.8)	14,150 (72)	12,800 (74.3)	11,300 (76.1)	10,050 (77)
45	_		19,250 (30)	20,200 (46.1)	20,050 (55.3)	18,600 (61.4)	14,350 (66.1)	12,950 (69.6)	11,750 (72.1)	10,700 (74.2)	10,050 (75.2)
50	_	_	13,050 (15.5)	16,850 (39.2)	16,650 (50.7)	17,100 (57.8)	13,200 (63)	11,900 (67.1)	10,850 (70)	9930 (72.3)	9470 (73.4)
55	_		_	14,100 (31.1)	14,250 (45.2)	14,900 (54)	12,150 (59.8)	11,000 (64.4)	10,000 (67.8)	9200 (70.3)	8780 (71.5)
60	_	_	_	11,750 (20.4)	12,050 (39.1)	12,800 (49.9)	11,250 (56.5)	10,150 (61.5)	9300 (65.4)	8540 (68.3)	8160 (69.6)
65	_	_	_	_	10,250 (32)	11,050 (44.8)	10,450 (53)	9460 (58.5)	8640 (62.8)	7940 (66.2)	7590 (67.7)
70	_		_	_	8720 (23.3)	9610 (39.2)	9760 (48.9)	8800 (55.4)	8030 (60.2)	7380 (63.9)	7070 (65.6)
75	_	_	_	_	5380 (8.2)	8330 (32.9)	8480 (44.2)	8210 (52.1)	7460 (57.4)	6840 (61.5)	6550 (63.4)
80	_	_	_	_	_	7230 (25.4)	7350 (39.1)	7570 (48.2)	6840 (54.6)	6260 (59.1)	5980 (61.2)
85	_	_	_	_	_	5920 (15)	5970 (33.4)	6630 (43.8)	6290 (51.6)	5720 (56.6)	5460 (58.9)
90	_	_	_	_	_	_	5190 (26.9)	5770 (39.1)	5560 (47.7)	5240 (54)	4990 (56.5)
95	_	_	_	_	_	_	4520 (18.6)	4970 (34)	4820 (43.6)	4670 (51)	4550 (54)
100	_	_	_	_	_	_	_	4220 (28.1)	4140 (39.2)	4060 (47.4)	4110 (51.1)
105	_	_	_	_	-	_	-	3520 (21.1)	3510 (34.5)	3500 (43.5)	3690 (47.5)
110	_	_	_	_	_	_	_	2430 (10.5)	2940 (29.2)	2990 (39.4)	3260 (43.8)
115	_	_	_	_	_	_	_	_	2400 (23)	2540 (35)	2820 (39.8)
120	_	_	_	_	_	_	_	_	1910 (14.8)	2120 (30.1)	2380 (35.6)
125	_	_	_	_	_	_	_	_	_	1730 (24.6)	1960 (31)
130	_	_	_	_	_	_	_	_	_	1380 (17.7)	1550 (25.7)
135	_	_	_	_	_	_	_	_	_	_	1140 (19.5)
140		_	_	_	_	_	_	_	_		720 (10.5)

NOTE: () Boom angles are in degrees.

Boom					Main Bo	om Lengt	h in East				
Angle	36.8	48	60	72	84	96	108	120	132	144	151
0°	14,400 (28.3)	10,000	6570 (51.5)	4360 (63.5)	2820 (75.5)	1690 (87 5)	820 (99.5)	_	_	_	_

NOTE: () Reference radii in feet.

NBT55L/NTC55L



11 m - 46 m (36 ft - 151 ft)





2722 kg (6000 lb)



100%



360°





Pounds

						<u> </u>						
					Mai	n Boom L	ength in I	Feet				
Radius in Feet		0° OFFSE	TANGLE			15° OFFSI	T ANGLE			30° OFFS	ET ANGLE	
III CCC	120	132	144	151	120	132	144	151	120	132	144	151
30	7720 (78.4)	_	_	_	_	_	_	_	_	_	_	_
35	7720 (76.9)	6370 (78.5)	_	4300 (80)	_	_	_	_	_	-	_	_
40	7720 (75.4)	6370 (77)	5200 (78.5)	4300 (78.8)	7000 (79)	_	_	_	_	_	_	_
45	7720 (73.9)	6370 (75.6)	5200 (77.2)	4300 (77.6)	6730 (77.5)	6620 (78.4)	_	_	_	_	_	_
50	7670 (72.3)	6370 (74.1)	5200 (75.8)	4300 (76.3)	6540 (76.1)	6400 (77.1)	_	_	5660 (78.8)	5550 (79.8)	_	_
55	7260 (70.7)	6370 (72.7)	5200 (74.5)	4300 (75.1)	6360 (74.6)	6150 (75.8)	5590 (76.8)	4940 (77.3)	5530 (77.3)	5440 (78.4)	5290 (79.4)	_
60	6880	6370	5200	4300	6100	5880	5590	4940	5420	5350	5190	5050
	(69.1)	(71.2)	(73.1)	(73.8)	(73.1)	(74.4)	(75.6)	(76.1)	(75.7)	(77)	(78.1)	(78.6
65	6520	6260	5200	4300	5810	5620	5370	4940	5320	5190	5000	4870
	(67.4)	(69.7)	(71.7)	(72.6)	(71.6)	(73.1)	(74.3)	(74.9)	(74.1)	(75.6)	(76.8)	(77.4
70	6180	5960	5200	4300	5550	5380	5160	4940	5140	4990	4810	4700
	(65.7)	(68.1)	(70.2)	(71.3)	(70)	(71.7)	(73)	(73.7)	(72.5)	(74.1)	(75.5)	(76.2
75	5870	5690	5200	4300	5300	5150	4960	4840	4940	4800	4640	4540
	(64)	(66.5)	(68.8)	(70)	(68.4)	(70.2)	(71.7)	(72.5)	(70.8)	(72.6)	(74.2)	(74.9
80	5580	5400	4990	4300	5070	4930	4760	4660	4760	4630	4470	4380
	(62.2)	(64.9)	(67.3)	(68.6)	(66.7)	(68.7)	(70.4)	(71.2)	(68.8)	(71.1)	(72.8)	(73.6
85	5310	5060	4680	4300	4860	4730	4580	4480	4580	4460	4320	4230
	(59.9)	(63.2)	(65.7)	(67.2)	(64.4)	(67.2)	(69)	(69.9)	(66.1)	(69.5)	(71.4)	(72.3
90	4710	4590	4380	4200	4660	4550	4400	4250	4420	4310	4170	4090
	(57.4)	(61.3)	(64.2)	(65.8)	(61.9)	(65.3)	(67.6)	(68.6)	(63.4)	(67.2)	(70)	(71)
95	4080	3960	3840	3740	4480	4370	4150	3980	4270	4160	4030	3960
	(54.8)	(59.1)	(62.6)	(64.1)	(59.3)	(62.9)	(66.1)	(67.2)	(60.6)	(64.6)	(68.1)	(69.6
100	3520	3400	3290	3190	3900	3810	3720	3640	4130	4020	3900	3820
	(52.2)	(56.8)	(60.6)	(62.2)	(56.7)	(60.4)	(63.8)	(65.5)	(57.7)	(62)	(65.7)	(67.5
105	3030	2910	2790	2690	3370	3280	3190	3100	3630	3580	3520	3450
	(49.4)	(54.4)	(58.5)	(60.2)	(53.9)	(57.9)	(61.5)	(63.2)	(54.6)	(59.3)	(63.3)	(65.2
110	2580	2460	2340	2250	2890	2800	2710	2630	3120	3070	3010	2940
	(46.5)	(51.9)	(56.3)	(58.2)	(51)	(55.3)	(59.1)	(60.9)	(51.5)	(56.5)	(60.8)	(62.8
115	2180	2060	1940	1850	2450	2370	2280	2200	2650	2600	2540	2480
	(43.4)	(49.4)	(54.1)	(56.1)	(47.9)	(52.6)	(56.6)	(58.6)	(48.1)	(53.6)	(58.2)	(60.4
120	1820	1700	1580	1480	2060	1970	1890	1800	2230	2180	2120	2060
	(40.1)	(46.7)	(51.8)	(53.9)	(44.6)	(49.8)	(54.1)	(56.1)	(44.5)	(50.6)	(55.5)	(57.8
125	1500	1370	1250	1150	1700	1620	1530	1450	1830	1800	1740	1680
	(36.6)	(43.9)	(49.5)	(51.2)	(41.1)	(46.8)	(51.4)	(53.6)	(40.6)	(47.4)	(52.8)	(55.2
130	1200 (32.7)	1070 (40.9)	950 (47)	850 (48.3)	1370 (37.2)	1290 (43.7)	1200 (48.7)	1120 (51)	1470 (36)	1440 (44)	1390 (49.9)	1330 (52.5
135	930 (27.8)	800 (37.6)	670 (44.4)	580 (45.3)	1070 (31.6)	990 (40.3)	900 (45.8)	820 (48.3)	_	1110 (40.4)	1070 (46.8)	1000
140	690 (20.9)	550 (34.1)	_	_	790 (24.1)	710 (36.6)	630 (42.8)	550 (45.5)	_	810 (36.3)	770 (43.6)	700 (46.8

NOTE: () Boom angles are in degrees.

NBT55L/NTC55L



11 m – 46 m (36 ft – 151 ft)





2722 kg (6000 lb)



100%







Pounds

					Mai	n Boom L	ength in I	Feet				
Radius in Feet		0° OFFSE	TANGLE			15° OFFSI	T ANGLE			30° OFFS	ET ANGLE	
mreet	120	132	144	151	120	132	144	151	120	132	144	151
30	7720 (78.4)	_	_	_	_	_	_	_	_	_	_	_
35	7720 (76.9)	6370 (78.5)	_	4300 (80)	-	-	_	_	_	-	_	_
40	7720 (75.4)	6370 (77)	5200 (78.5)	4300 (78.8)	7000 (79)	_	_	_	_	_	_	_
45	7720 (73.9)	6370 (75.6)	5200 (77.2)	4300 (77.6)	6730 (77.5)	6620 (78.4)	_	_	_	_	_	_
50	7670 (72.3)	6370 (74.1)	5200 (75.8)	4300 (76.3)	6540 (76.1)	6400 (77.1)	_	_	5660 (78.8)	5550 (79.8)	_	_
55	7260 (70.7)	6370 (72.7)	5200 (74.5)	4300 (75.1)	6360 (74.6)	6150 (75.8)	5590 (76.8)	4940 (77.3)	5530 (77.3)	5440 (78.4)	5290 (79.4)	_
60	6880	6370	5200	4300	6100	5880	5590	4940	5420	5350	5190	5050
	(69.1)	(71.2)	(73.1)	(73.8)	(73.1)	(74.4)	(75.6)	(76.1)	(75.7)	(77)	(78.1)	(78.6)
65	6520	6260	5200	4300	5810	5620	5370	4940	5320	5190	5000	4870
	(67.4)	(69.7)	(71.7)	(72.6)	(71.6)	(73.1)	(74.3)	(74.9)	(74.1)	(75.6)	(76.8)	(77.4)
70	6180	5960	5200	4300	5550	5380	5160	4940	5140	4990	4810	4700
	(65.7)	(68.1)	(70.2)	(71.3)	(70)	(71.7)	(73)	(73.7)	(72.5)	(74.1)	(75.5)	(76.2)
75	5870	5690	5200	4300	5300	5150	4960	4840	4940	4800	4640	4540
	(64)	(66.5)	(68.8)	(70)	(68.4)	(70.2)	(71.7)	(72.5)	(70.8)	(72.6)	(74.2)	(74.9)
80	5580	5400	4990	4300	5070	4930	4760	4660	4760	4630	4470	4380
	(62.2)	(64.9)	(67.3)	(68.6)	(66.7)	(68.7)	(70.4)	(71.2)	(68.8)	(71.1)	(72.8)	(73.6)
85	5310	5060	4680	4300	4860	4730	4580	4480	4580	4460	4320	4230
	(59.9)	(63.2)	(65.7)	(67.2)	(64.4)	(67.2)	(69)	(69.9)	(66.1)	(69.5)	(71.4)	(72.3)
90	5070	4750	4380	4200	4660	4550	4400	4250	4420	4310	4170	4090
	(57.4)	(61.3)	(64.2)	(65.8)	(61.9)	(65.3)	(67.6)	(68.6)	(63.4)	(67.2)	(70)	(71)
95	4830	4450	4100	3930	4480	4370	4150	3980	4270	4160	4030	3960
	(54.8)	(59.1)	(62.6)	(64.1)	(59.3)	(62.9)	(66.1)	(67.2)	(60.6)	(64.6)	(68.1)	(69.6)
100	4540	4170	3840	3670	4310	4200	3890	3730	4130	4020	3900	3820
	(52.2)	(56.8)	(60.6)	(62.2)	(56.7)	(60.4)	(63.8)	(65.5)	(57.7)	(62)	(65.7)	(67.5)
105	4140	3920	3600	3380	4150	3950	3650	3500	4010	3900	3730	3580
	(49.4)	(54.4)	(58.5)	(60.2)	(53.9)	(57.9)	(61.5)	(63.2)	(54.6)	(59.3)	(63.3)	(65.2)
110	3650	3530	3370	3020	3950	3710	3420	3240	3890	3780	3500	3360
	(46.5)	(51.9)	(56.3)	(58.2)	(51)	(55.3)	(59.1)	(60.9)	(51.5)	(56.5)	(60.8)	(62.8)
115	3210	3080	2970	2690	3470	3390	3200	2900	3670	3550	3280	3060
	(43.4)	(49.4)	(54.1)	(56.1)	(47.9)	(52.6)	(56.6)	(58.6)	(48.1)	(53.6)	(58.2)	(60.4)
120	2800	2680	2560	2390	3040	2950	2870	2580	3200	3160	3070	2730
	(40.1)	(46.7)	(51.8)	(53.9)	(44.6)	(49.8)	(54.1)	(56.1)	(44.5)	(50.6)	(55.5)	(57.8)
125	2440	2310	2200	2100	2640	2560	2470	2290	2770	2730	2680	2430
	(36.6)	(43.9)	(49.5)	(51.2)	(41.1)	(46.8)	(51.4)	(53.6)	(40.6)	(47.4)	(52.8)	(55.2)
130	2110	1980	1860	1760	2280	2200	2110	2020	2380	2340	2290	2140
	(32.7)	(40.9)	(47)	(48.3)	(37.2)	(43.7)	(48.7)	(51)	(36)	(44)	(49.9)	(52.5)
135	1810 (27.8)	1670 (37.6)	1550 (44.4)	1460 (45.3)	1940 (31.6)	1860 (40.3)	1780 (45.8)	1700 (48.3)	_	1980 (40.4)	1940 (46.8)	1880 (49.7)
140	1530 (20.9)	1390 (34.1)	1270 (41.6)	1170 (42.2)	1630 (24.1)	1550 (36.6)	1470 (42.8)	1390 (45.5)	_	1650 (36.3)	1610 (43.6)	1550 (46.8)
145	1290 (12)	1140 (29.8)	1010 (38.6)	910 (39)	_	1270 (31.9)	1190 (39.5)	1110 (42.5)	_	_	1300 (40.2)	1240 (43.7)
150	_	900 (23.4)	770 (35.4)	670 (35.6)	_	1010 (25.4)	920 (36)	850 (39.4)	_	_	1010 (36.4)	960 (40.4)
155	_	690 (15.7)	550 (31.8)	_	_	760 (17.5)	680 (31.9)	600 (36)	_	_	_	690 (36.8)

NOTE: () Boom angles are in degrees.

Superstructure



■MI Boom

11,1 m - 46 m (36.5 ft - 151 ft) five-section boom with a maximum tip height of 49,1 m (161 ft). Includes proportional extension via multi-stage hydraulic cylinder and cable operation, four-plate, high-strength steel construction, three-sheave, quick-reeve boom nose and Easy-Glide wear pads.



Boom elevation

One (1) double-acting, hydraulic cylinder with integral holding valve and integral pressure transducers provides elevation from -8° to +80°.



Rated Capacity Limiting (RCL) and anti-two-block (ATB) systems

Graphical display capacity limiter and ATB system with audio visual warning and crane function lockout. The graphical display is a 178 mm (7 in) color and polarized screen for real-time display of boom angle, length, radius, tip height, maximum permissible load, load indication, and warning of impending overload or ATB condition. Work area definition system (WADS) provides operator definable non-lockout warning limits for crane operations, and CANbus sensors and hard-wired ATB circuit routed internally to the boom. Outrigger monitoring system (OMS) to sense the configuration of the outriggers and aid the operator in selecting an appropriate setup. Onboard setup and diagnostics for RCL sensors allow for improved service and an event recorder to protect your investment.



Control System

Fully integrated RCL and CANbus crane control system for maximum performance. Real-time diagnostics for truck chassis data such as engine regeneration, fuel level, engine coolant, oil pressure, engine rpm and battery voltage. Onboard setup and diagnostics for all sensors and control modules allows for improved service and little need for a laptop or diagnostic cables. Fault codes to quickly identify service needs, and event recorder to protect your investment.



Operator cab and controls

Cab structure: rigid galvanealed steel structure, well insulated, offering optimum operator visibility and comfort. Equipped with tilting cab feature from horizontal to +20°, tinted safety glass, fixed front window with windshield wiper and washer, sliding skylight window with windshield wiper, sliding left side glass door, sliding right side window for ventilation w/ safety grille, tilting rear window for ventilation, four-way adjustable, cushioned/heated seat and armrests with seat belt, diesel-fired warm-water heater with air ducts at operators feet, left side of cab and front dash — standard, hydraulic-powered air conditioner — standard, circulation fan, bubble level, adjustable sun visor, dome light, cup holder, fire extinguisher, load chart binder with tear-proof paper load charts and operator manual.

Armrest control functions are arranged per ASME B30.5: Two single axis electric joystick controllers for swing, boom telescope, main hoist, auxiliary hoist (optional), boom lift, warning horn button, swing park brake switch, hoist rotation indicator, tilt cab up/down, main hoist high/low speed switch, and aux hoist high/low speed switch (optional).

Outrigger controls: front console-mounted electronic keypad allowing the operator to activate all horizontal beams and vertical jacks. Pre-selection capabilities to easily activate more than one function for ease of setup.

Rigging remote: Standard wireless rigging remote stored and charged inside the crane cab which allows the operation of the main and (optional) aux hoist to stow and unstow the hookblocks at the front bumper of the truck chassis for transport or operation. If the crane is equipped with an optional single front outrigger (SFO), this remote allows for raising and lowering of this vertical outrigger.

Foot controls: engine throttle (electronic), dynamic swing brake (electronic), boom telescope (electronic, if equipped with aux hoist option).

Front console controls and indicators for RCL display, outriggers, engine ignition key, emergency stop switch, and RCL override keyswitch (momentary). 12VDC power outlet.

Overhead console controls and indicators for heater, A/C and fan speed, windshield wiper and washer, skylight wiper, cab-mounted work lights, crane function power, radio remote power.



Removable counterweight

Hydraulically removable counterweight system consisting of (2) vertical double-acting hydraulic cylinders equipped with holding valves to independently raise and lower the desired counterweight slabs. Controls can be activated at both the left and right side of the turret near the counterweight for ease of activation during counterweight pin reconfiguration. When not in use, one or all of the slabs can be stowed on top of the front outrigger box. One or all of the slabs can also be removed from the crane by using the crane itself after stowing on front outrigger box first.

NBT50L/NTC50L:

Counterweight consists of one slab for two unique load chart configurations:

- (1) slab installed on turret: (1) x 1360 kg (3000 lb)
- (0) slabs installed on turret: no slabs installed
- Single 680 kg (1500 lb) counterweight option is available for maximizing the roading weight configurations in areas where road weights limits are more restricting.

NBT55L/NTC55L:

Counterweight consists of (2) slabs for (3) unique load chart configurations:

- (2) slabs installed on turret: (2) x 1360 kg (6000 lb)
- (1) slabs installed on turret: (1) x 1360 kg (3000 lb)
- (0) slabs installed on turret: no slabs installed

Ω Slewing

Continuous 360° rotation using (a) low-speed, high-torque motor with a manually adjustable swing adjustment valve integrated to the hydraulic motor control manifold mounted to a planetary reduction gear. A proportional electronic brake pedal located in the operator cab allows for the dynamic application of the multi-disk swing brake circuit. A separate spring-applied, hydraulic-released brake for disabling rotation can be activated from the left-hand seat armrest. Free-swing functionality is disabled when using the optional crane radio remote control.

Hydraulic system

Efficient closed-center, load-sense hydraulics system featuring flow-sharing technology allowing for smooth multifunction operation of all crane functions. One (1) SAE-C mounted, 130cc axial piston pump for all functions and optimized system performance. Shaft input of 2200 rpm, generating 288 lpm (76 gpm) max flow at 310 bar (4500 psi) max operating pressure. 143 gal (541 L) hydraulic reservoir with SAE o-ring connections and integrated butterfly shut-off valve for easy maintenance. SAE o-ring hydraulic fittings and hoses throughout. Boom lift, boom telescope, main and aux hoist(s), and vertical outrigger jacks are all equipped with counterbalance valves for controlled movement and load holding.

Hydraulic oil cooler: standard electric fan, plate- and fin-style oil cooler mounted in the rear of the superstructure to remove heat from the hydraulic oil under heavy operating conditions.

← Electrical system

Automotive grade, fully wire harnessed 12VDC electrical system using state-of-the-art sealed connectors and control modules. Dual-tone backup and outrigger motion alarm located at rear of machine. LED marker and triple ID lights.

Lower

📳 Chassis mounting

Torsion-resistant, high-strength steel sub frame attached using high-strength steel mounting brackets that are welded to the sub-frame and bolted to the truck chassis using Huck® bolts to ensure a secure and maintenance-free connection. Rear bumper under ride protection standard. Fixed boom rest mounted to front outrigger box and fabricated from structural steel.

Outriggers

Out- and down-style outriggers at both the front and rear with individual control of each horizontal beam extension and vertical jack cylinder. Each outrigger jack is equipped with a 500 m (19.7 in) polymeric outrigger float standard. Horizontal beams are non-proportional and can be pinned in (4) different configurations for operation. Front outriggers are angled toward the truck cab, minimizing the need for an SFO. Ground-level control stations located at the left and right side for all vertical jacks and only the horizontal beams for each station. Operator cab features an electronic keypad mounted on the front console to control all outrigger functions.

100% span: Front = 7,09 m (23 ft 3 in)

Rear = 7,39 m (24 ft 3 in)

75% span: Front = 5,9 m (19 ft 4 in)

Rear = 6,12 m (20 ft 1 in)

Note: 75% span available ONLY with the NTC Performance Package.

50% span: Front = 4,72 m (15 ft 6 in)

Rear = 4,90 m (16 ft 1 in)

0% span: Front and Rear = 2,39 m (7 ft 10 in)

Outrigger monitoring system for horizontal beam extension is standard. Inverted cylinder rods for vertical outrigger jack cylinders for best protection of chromed rod. Optional single front outrigger (SFO) is available for heavy front axle mounting configurations.

Optional items

NTC Performance Package (NTC50L/NTC55L)

- > Four-position outriggers
- > Wireless windspeed sensor package
- > NTC50L and NTC55L model designation decals and materials

Operator aids

> Six-function wireless radio remote control of approximately 75 m (250 ft) (NB6R)

• Telescopic offsettable jib

- > 7,9 m 13,7 m (26 ft 45 ft) telescoping boom extension (side fold for stowing), includes 5,8 m (19 ft) manual pull out section
- > Max tip height of 61,9 m (203 ft)
- > Offsets of 0° and 30°
- > RCL calibration for future jib option

· Lattice fixed offsettable jib

- > 11 m (36 ft) fixed boom extension (side fold for stowing)
- > Max tip height of 59,1 m (194 ft)
- > Offsets of 0°, 15° and 30°
- > RCL calibration for future jib option

Auxiliary hoist

- > A second turret-mounted hoist located to the rear of the standard main hoist
- > Standard with rotation-resistant wire rope and round, top-swivel downhaul weight

Personnel handling platforms

- > (2) person steel, non-insulated, platform options
- > Rapid Attach Platform system available in both the rotating (R-RAP2) and yoke-style (Y-RAP2) options
- Capacities up to 544,3 kg (1200 lb) on main boom and 226,8 kg (500 lb) on jib
- > Platform test weight sets available for each
- > Compliant to ASME B30.23 requirements

K100™ synthetic rope

- > 137,2 m (450 ft) 18 mm (0.71 in) K100[™] synthetic hoist rope (in lieu of standard rope)
- > Available for either main, aux or both hoists
- > 80% lighter than steel wire rope with same available linepull
- > Easy handling/reeving and installation
- > Reduces number of change outs due to mitigation of kinking, birdcaging or damage from diving
- > Corrosion resistant no rusting, no lubrication requirements

Wireless windspeed sensor

- > Real-time feedback of current speed
- > Display on in-dash RCL display and on optional wireless radio remote

Camera package

- Camera package offering visibility of the rear quadrant of the machine including counterweight area and view of the hoist(s)
- > Video camera at hoist location
- > Rearview video camera on rear of turntable providing a 170-degree view angle enabling operator to see outriggers fully deployed and then some for enhanced jobsite visibility

Hook blocks

- Single sheave, 18,1 t (20 USt) quick-reeve hook block for 2-3 part reeving [186 kg (410 lb)]
- > Triple sheave, 36,3 t (40 USt) quick-reeve hook block for 4-7 part reeving including auxiliary sheave case assembly (272 kg [600 lb])
- > Five sheave, 49,9 t (55 USt) quick-reeve hook block for 8-10 part reeving including auxiliary sheave case assembly (498 kg [1098 lb])

Single Front Outrigger

- > 63,5 m (25 in) vertical stroke
- > Available for certain mounting configurations

Aluminum outrigger floats

> 610 mm (24 in) aluminum floats in lieu of the standard 500 mm (19.7 in) polymeric floats



Main and (optional) auxiliary hoist(s)

Two-speed displacement, bent-axis piston motor driving a planetary gearset and a grooved drum with cable tensioner/follower, drum rotation indicator, and last layer and minimum wrap indicators.

Parts of Line	1 part line	2 part line	3 part line	4 part line	5 part line	6 part line	7 part line	8 part line	9 part line	10 part line	11 part line
Max boom length (ft) at max elevations with stated rigging and load block and ground level	196 (includes 45 ft ext.)	144	108	84	72	60	48	36.8	36.8	36.8	36.8
Low speed lift (lb)	11,280	22,500	33,750	45,000	56,250	67,500	78,750	90,000	100,000	111,250	110,000
High speed lift (lb)	5000	10,000	15,000	20,000	25,000	30,000	35,000	40,000	45,000	50,000	55,000

	Line Pulls and Reeving Information									
Hoists	Cable specs.	Permissible line pulls	Nominal cable length							
Main and Auxiliary	16 mm (5/8 in) Dyform 34 LR Rotation Resistant (non-rotating) Min. Breaking Strength 56,420 lb	11,280 lb*	498 ft (152 m)							
Main and Auxiliary	18 mm Synthetic K-100™ Hoist Rope (ISO) Min. Breaking Strength 63,700 lb	12,740 lb*	498 ft (152 m)							

The approximate weight of 5/8 in wire rope is 1.0 lb/ft.

^{*}With certain boom and hoist tackle combinations, the allowable line pull may be limited by hoist performance. Refer to Hoist Performance table for lift planning to ensure adequate hoist performance on drum rope layer required.

	Hoist Performance								
	Hoist li	Drum ca	ancity (ft)						
Wire	Two spe	ed hoist	Druinca	pacity (ft)					
rope layer	Low	High	Lavor	Total					
	Available lb	Available lb	Layer	IOLAI					
1	17,250	7040	78	78					
2	15,450	6310	87	165					
3	14,000	5720	96	261					
4	12,790	5220	105	366					
5	11,780	4810	114	480					

^{*}Refer to Line Pulls and Reeving Information table for max. lifting capacity of wire rope.

Weight Reductions for Load Handling Devices									
Auxiliary boom nose (single sheave)	35,5 kg (78.1 lb)								
Auxiliary boom nose (double sheave)	44,3 kg (97.7 lb)								
Hook blocks and headache balls									
55 USt, 5-sheave (14 in sheave) CE	498,0 kg (1098 lb)+								
40 USt, 3-sheave (12 in sheave)	272,2 kg (600 lb)+								
20 USt, 1-sheave	204 kg (450 lb)+								
7 USt overhaul ball	163,7 kg (250 lb)+								

⁺ Refer to rating plate for actual weight

When lifting over boom extension, deduct total weight of all load handling devices reeved over main boom nose directly from boom extension capacity.

NOTE: All load handling devices and boom attachments are considered part of the load and suitable allowances MUST BE MADE for their combined weights. Weights are for Manitowoc furnished equipment.

The approximate weight of 18 mm synthetic rope is 0.16 lb/ft.

 $Synthetic\ rope\ layer\ height\ may\ vary\ and\ may\ reduce\ available\ line\ pull\ per\ layer.$