

ROUGH TERRAIN CRANE 150 TONS

LINK-BELT RTC-80150ii

BOOM LENGTHS:
42 TO 195 FT

JIB LENGTHS:
31 TO 109 FT

JIB OFFSETS:
2 - 15 - 35 - 45



NOTES:

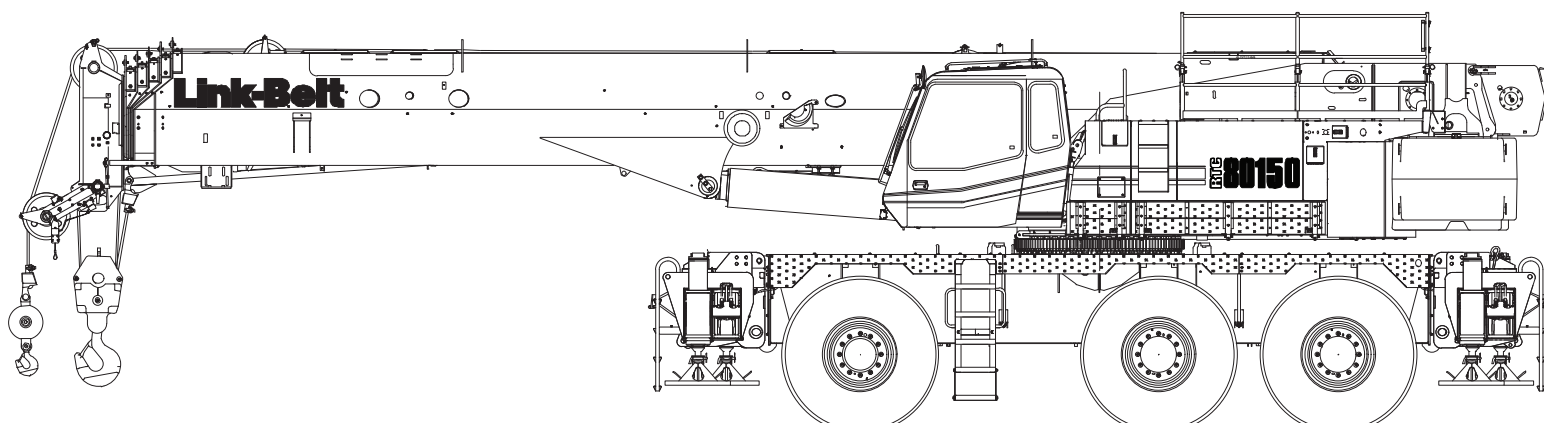
Technical Data

Specifications & Capacities

RTC 80150

Series II

150 US ton
135 metric ton



CAUTION: This material is supplied for reference use only. Operator must refer to in-cab Crane Rating Manual and Operator's Manual to determine allowable crane lifting capacities and assembly and operating procedures.



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Boom, Attachments, and Upper Structure

■ Boom

Design - Six section, formed construction of extra high tensile steel consisting of one base section and five telescoping sections. The two plate design of each section has multiple longitudinal bends for superior strength. Each telescoping section extends independently by means of one double-acting, single stage hydraulic cylinder with integral holding valves.

Boom

- 42.3-195.3 ft (12.9-59.5m) six section boom
- Five boom extend modes (EM1 through EM5), controlled from the operator's cab, provide superior capacities by varying the extension of the telescoping sections:
 - EM1 extends to 195.3 ft (59.5 m)
 - EM2 extends to 180.3 ft (55.0 m)
 - EM3 extends to 155.0 ft (47.2 m)
 - EM4 extends to 129.6 ft (39.5m)
 - EM5 extends to 103.7 ft (31.6 m)
- Mechanical boom angle indicator
- Wind speed indicator
- Maximum tip height for each extend mode is:
 - EM1 is 204 ft (62.2 m)
 - EM2 is 189 ft (57.6 m)
 - EM3 is 164 ft (50.0 m)
 - EM4 is 139 ft (42.4 m)
 - EM5 is 113 ft (34.4 m)

Boom Wear Pads

- Wear pads with Teflon inserts that self-lubricate the boom sections
- Bottom wear pads are universal for T2-T5 telescoping boom sections
- Bottom wear pads are universal for the boom base section and T1 boom section
- Top wear pads are universal for all boom sections

Boom Head

- Six 16.38 in (41.6cm) root diameter nylon sheaves to handle up to twelve parts of line
- Easily removable wire rope guards
- Rope dead end lugs on each side of the boom head
- Boom head is designed for quick-reeve of the hook block

Boom Elevation

- One double acting hydraulic cylinder with integral holding valve
- Boom elevation: -2.5° to 80°

Auxiliary Lifting Sheave - Optional

- Single 16.38 in (41.6cm) root diameter nylon sheave
- Easily removable wire rope guards
- Does not affect erection of the fly or use of the main head sheaves

Hook Blocks and Balls - Optional

- 150 ton (136.0t) 7 sheave, quick-reeve hook block with safety latch
- 100 ton (90.7t) 6 sheave, quick-reeve hook block with safety latch
- 80 ton (72.5t) 5 sheave, quick-reeve hook block with safety latch
- 50 ton (45.3t) 4 sheave, quick-reeve hook block with safety latch
- 35 ton (31.7t) 1 sheave, quick-reeve hook block with safety latch
- 12 ton (10.8t) hook ball (swivel) with safety latch

Fly - Optional

- 31 ft-55 ft (9.4-16.8m) two piece bi-fold lattice fly, stowable, offsettable to 2°, 15°, 30°, and 45°. Maximum tip height is 258 ft (7 8.6m).
- 10 ft-31 ft - 55 ft (3.0, 9.4-16.8m) three piece bi-fold lattice fly, stowable, offsettable to 2°, 15°, 30°, and 45°. Maximum tip height is 258 ft (7 8.6m).
- 10 ft-31 ft - 55 ft (3.0, 9.4-16.8m) three piece bi-fold lattice fly, stowable, hydraulically offsettable from 2° through 45°. Maximum tip height is 258 ft (7 8.6m).

Fly Extensions - Optional

- One 18 ft (5.5m) lattice extension, equipped with two 16.38 in (41.6cm) root diameter nylon sheaves, to be mounted between the boom head and fly options. Maximum tip height is 276 ft (84.1m). Minimum of 35,000 lb (15.9t) of counterweight required.
- Two 18 ft (5.5m) lattice extensions, one equipped with two 16.38 in (41.6cm) root diameter nylon sheaves, to be mounted between the boom head and fly options. Maximum tip height is 293 ft (89.3 m). Minimum of 35,000 lb (15.9t) of counterweight required.
- Three 18 ft (5.5m) lattice extensions, one equipped with two 16.38 in (41.6cm) root diameter nylon sheaves, to be mounted between the boom head and fly options. Maximum tip height is 311 ft (94.8 m). Minimum of 35,000 lb (15.9t) of counterweight required.

Load Hoist System

Load Hoist Performance

Main (Front) and Auxiliary (Rear) Winches - 7/8 in (							22mm) Rope			
	Maximum Line Pull		Normal Line Speed		High Line Speed		Layer		Total	
Layer	lb	kN	ft/min	m/min	ft/min	m/min	ft	m	ft	m
1	22,497	100.07	143	43.6	282	86.0	125	38.1	125	38.1
2	20,299	90.29	158	48.2	313	95.4	138	42.0	263	80.2
3	18,493	82.26	173	52.7	343	104.5	152	46.3	415	126.5
4	16,981	75.53	189	57.6	374	114.0	165	50.3	580	176.8
5	15,698	69.82	204	62.2	405	123.4	179	54.6	759	231.3
6	14,596	64.92	220	67.1	435	132.9	192	58.5	951	289.9

Wire Rope Application		Diameter		Type	Maximum Permissible Load	
		in	mm		lb	kg
Main (Front) Winch	Standard	7/8	22	18x19 rotation resistant - right regular lay (Type RB)	17,520	7 946.9
	Optional	7/8	22	4 strand, low torque - right regular lay (Type GC)	30,285	13 737.0
	Optional	7/8	22	34x7 rotation resistant - right regular lay (Type ZB)	20,920	9 489.2
Auxiliary (Rear) Winch	Standard	7/8	22	18x19 rotation resistant - right regular lay (Type RB)	17,520	7 946.9
	Optional	7/8	22	4 strand, low torque - right regular lay (Type GC)	30,285	13 737.0
	Optional	7/8	22	34x7 rotation resistant - right regular lay (Type ZB)	20,920	9 489.2

2M Main (Front) and Optional Auxiliary (Rear) Winches

- Axial piston, full and half displacement (2-speed) motors driven through planetary reduction unit for positive control under all load conditions.
- Grooved lagging
- Power up/down mode of operation
- Hoist drum cable follower - optional
- Drum rotation indicator
- Drum diameter: 15 in (38.1cm)
- Rope length:
 - Main (Front): 900 ft (274.3m)
 - Auxiliary (Rear): 675 ft (205.7 m) or 900 ft (274.3m)
- Maximum rope storage: 951 ft (289.9m)
- Terminator style socket and wedge

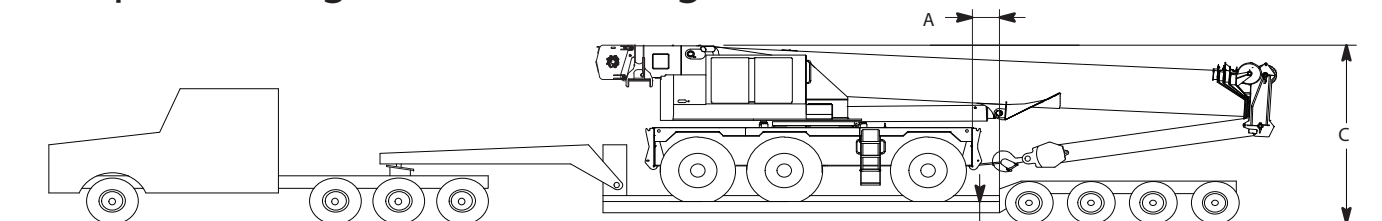
Engine

Specification	Cummins QSL	
Numbers of Cylinders	6	6
Cycle	4	4
Emissions Compliance Level:	Tier 4f/Stage IV ⁽¹⁾	Tier 3/Stage IIIA ⁽²⁾
Bore and Stroke: inch (mm)	4.49 x 5.69 (114 x 145)	4.49 x 5.69 (114 x 145)
Piston Displacement: in ³ (L)	543 (8.90)	543 (8.90)
Max. Brake Horsepower: hp (kW)	345 (257) @ 2,000 rpm	350 (261) @ 1,900 rpm
	333 (248) @ 2,100 rpm	325 (242) @ 2,100 rpm
Peak Torque: ft lb (Nm)	1,050 (1 424) @ 1,500 rpm	1,050 (1 424) @ 1,500 rpm
Electric/starting systems: volts	12/12	12/12
Alternator: amps	160	160
Crankcase Capacity: qt (L)	24 (22.7)	24 (22.7)
• Water/fuel separator w/ heater and water in fuel (WIF) sensor • 120-volt block heater-Tier 4f/Stage IV • 240-volt block heater-Tier 3/Stage IIIA • Grid heater - 200 amp • ⁽¹⁾ Can only be sold and/or operated where Tier 4f and Stage IV off-highway emission standards are accepted. • ⁽²⁾ Can only be sold and/or operated where Tier 3 and Stage IIIA off-highway emission standards are accepted.		



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Transport Configuration and Weights



- Crane Weight: 100,032 lb (45 374kg), equipped with :
- 42.3-195.3 ft (12.9-59.5m), six section boom
 - 80 ton (72.57t) hook block
 - Main winch with 900 ft (274m) of 7/8 in (22mm) rope
 - Auxiliary winch with 675 ft (206 m) of 7/8 in (22mm) rope
 - 10-31-55 ft (3.0-9.4-16.7m) offsettable, three piece bi-fold fly
 - Hoist drum followers - Main and Auxiliary
 - Auxiliary lifting sheave
 - Air conditioning
 - Hydraulic outrigger pin removal

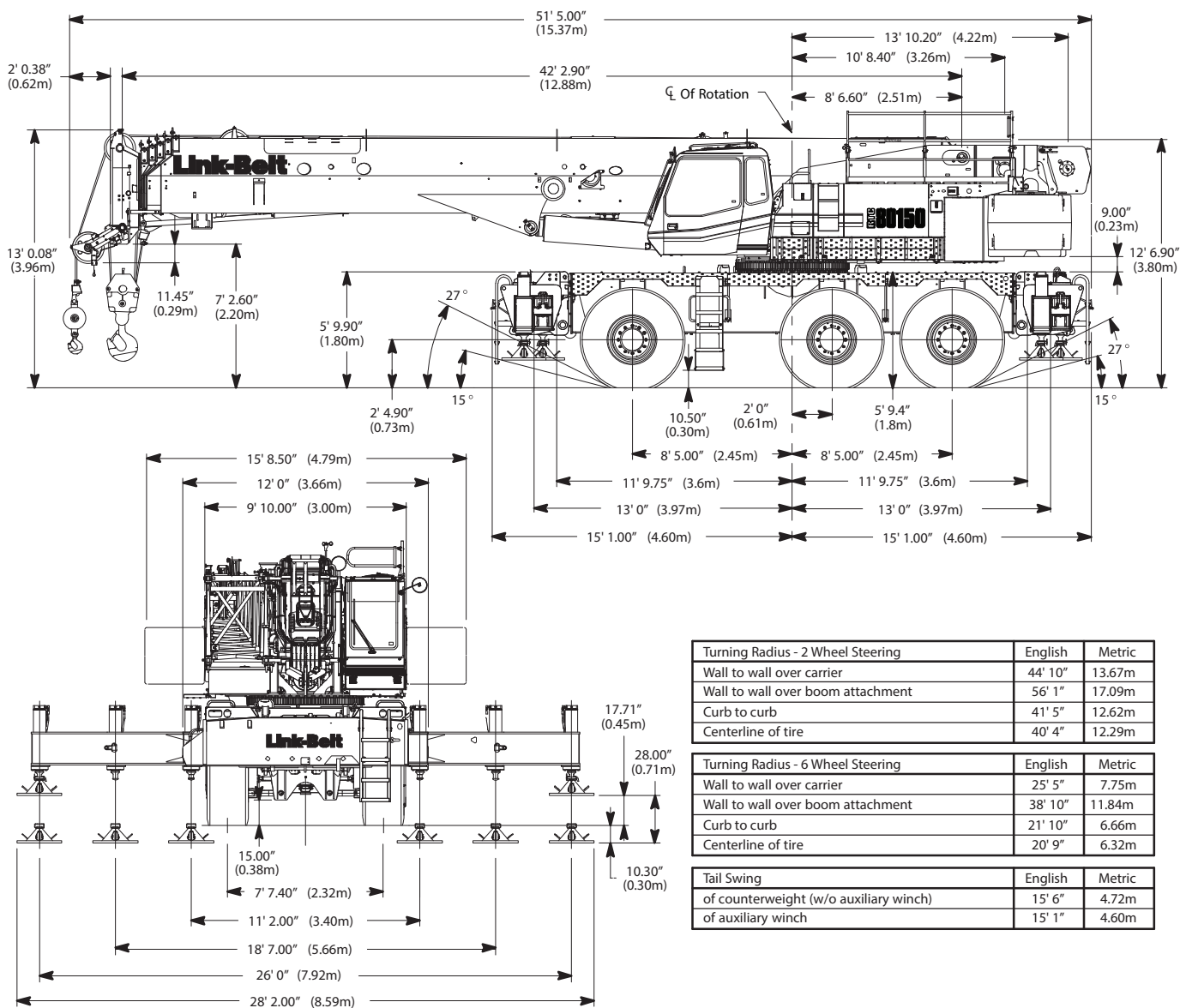
Axle Group Weights

Empty Truck Wt.	Bed Length	Steer	Drivers	Trailer	A
50,500 lb (22 906kg)	26 ft (7.92m)	12,500 lb (5 670kg)	59,797 lb (27 123kg)	78,235 lb (35 487kg)	8 in (20.3cm)

B - 18 in (0.46m) or 24 in (0.61m)

	Normal Suspension	Collapsed Suspension
C [with 18 in (0.46m) Trailer]	14 ft 1 in (4.29m)	13 ft 10 in (4.22m)
C [with 24 in (0.61m) Trailer]	14 ft 7 in (4.45m)	14 ft 4 in (4.37m)

General Dimensions

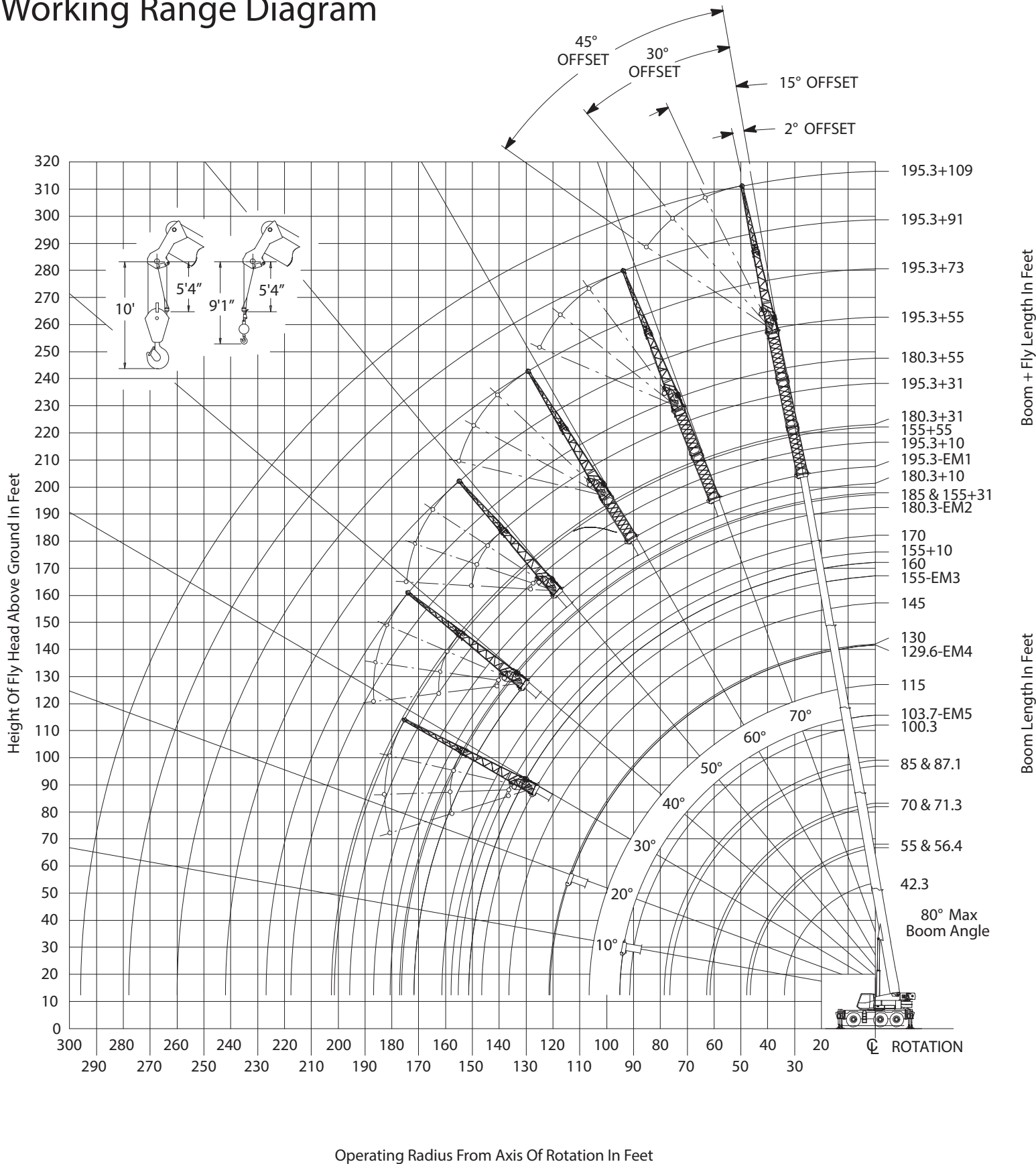


Turning Radius - 2 Wheel Steering	English	Metric
Wall to wall over carrier	44' 10"	13.67m
Wall to wall over boom attachment	56' 1"	17.09m
Curb to curb	41' 5"	12.62m
Centerline of tire	40' 4"	12.29m
Turning Radius - 6 Wheel Steering	English	Metric
Wall to wall over carrier	25' 5"	7.75m
Wall to wall over boom attachment	38' 10"	11.84m
Curb to curb	21' 10"	6.66m
Centerline of tire	20' 9"	6.32m
Tail Swing	English	Metric
of counterweight (w/o auxiliary winch)	15' 6"	4.72m
of auxiliary winch	15' 1"	4.60m



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Working Range Diagram



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Main Boom Lift Capacity Charts - Imperial

35,000 lb Counterweight - Fully Extended Outriggers - 360° Rotation (All Capacities Are Listed In Pounds)																
Radius (ft)	Boom Length (ft)															Radius (ft)
	42.3	55-56.35	70-71.2	85-87	100-103.7	115	129.5-130	145	155	160	170	175	180.2	185	195.3	
8	280,000															8
9	265,600															9
10	251,200	157,100	151,700													10
12	226,200	157,100	144,800													12
15	189,800	157,100	134,400	110,100												15
20	140,500	143,600	116,200	104,800	80,700	61,300										20
25	109,900	113,200	102,200	92,300	76,200	61,300	49,400									25
30	89,100	92,400	91,100	82,300	67,300	61,300	47,200	44,300	35,500	30,200						30
35		76,900	77,000	74,100	65,000	61,300	45,100	43,800	35,500	30,200	28,000	24,400	24,900	18,800		35
40		60,200	62,400	62,600	61,900	57,200	40,500	39,700	35,500	30,200	28,000	24,400	24,900	18,800	16,900	40
45		48,700	51,000	51,200	50,500	49,200	36,600	36,300	32,600	30,200	28,000	24,400	24,900	18,800	16,900	45
50			42,500	42,800	42,100	40,900	33,200	33,300	29,700	28,700	28,000	24,400	24,900	18,800	16,900	50
55			36,800	36,400	35,800	34,500	30,200	30,700	27,100	26,500	27,600	24,400	24,900	18,800	16,900	55
60			31,900	31,500	30,900	29,700	27,600	28,400	24,800	24,600	25,700	23,500	24,000	18,800	16,900	60
65				28,900	27,400	26,900	25,300	25,400	22,800	22,900	24,000	21,800	22,100	18,800	16,900	65
70				25,500	24,900	23,600	23,000	22,100	20,900	21,400	22,400	20,300	20,400	18,800	16,900	70
75				22,600	22,900	21,600	21,000	20,100	18,800	19,900	20,600	19,000	18,900	18,800	16,900	75
80					20,500	20,300	19,800	18,900	16,700	18,700	18,200	17,800	17,500	17,700	16,900	80
85					18,700	18,600	17,900	17,700	14,700	16,900	16,400	16,700	15,900	16,400	15,700	85
90					16,900	16,900	16,300	16,300	12,900	15,100	14,600	15,100	14,100	14,600	14,200	90
95					10,400	15,300	14,800	14,700	11,300	14,000	13,000	13,500	12,600	13,100	12,600	95
100						13,800	13,800	13,300	10,000	12,900	11,600	12,100	11,200	11,700	11,200	100
105						12,600	12,500	12,100	8,700	11,600	10,400	10,900	9,900	10,400	10,000	105
110							11,400	10,900	7,600	10,500	9,300	9,800	8,800	9,300	8,900	110
115							10,400	9,900	6,700	9,500	8,300	8,800	7,800	8,300	7,900	115
120							9,400	9,000	5,700	8,600	7,400	7,900	6,900	7,400	7,000	120
125								8,100	4,900	7,700	6,500	7,000	6,100	6,600	6,200	125
130								7,400	4,200	7,000	5,800	6,300	5,300	5,800	5,400	130
135								6,700	3,500	6,300	5,100	5,600	4,700	5,100	4,700	135
140									2,800	5,600	4,400	4,900	4,000	4,500	4,100	140
145									2,300	5,000	3,800	4,300	3,400	3,900	3,500	145
150										4,500	3,300	3,800	2,900	3,400	3,000	150
155											2,800	3,300	2,400	2,800	2,500	155
160											2,300	2,800	1,900	2,400	2,000	160
165												2,400	1,500	1,900	1,500	165
170														1,500	1,100	170
175														1,200		175

Note: Capacities depict multiple boom modes.



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59,000 lb Counterweight - Fully Extended Outriggers - 360° Rotation
(All Capacities Are Listed In Pounds)

Radius (ft)	Boom Length (ft)															Radius (ft)
	42.3	55- 56.35	70- 71.2	85- 87	100- 103.7	115	129.5- 130	145	155	160	170	175	180.2	185	195.3	
8	300,000*															8
8	280,000															8
9	268,800															9
10	254,200	157,100	151,700													10
12	229,000	157,100	144,800													12
15	198,700	157,100	134,400	110,100												15
20	152,800	150,700	116,200	104,800	80,700	61,300										20
25	119,900	123,000	102,200	92,300	76,200	61,300	49,400									25
30	97,500	100,800	91,100	82,300	67,300	61,300	47,200	44,300	35,500	30,200						30
35		84,600	82,200	74,100	65,000	61,300	45,100	43,800	35,500	30,200	28,000	24,400	24,900	18,800		35
40		73,000	73,300	67,300	62,100	57,200	40,500	39,700	35,500	30,200	28,000	24,400	24,900	18,800	16,900	40
45		63,500	64,600	61,600	56,900	51,900	36,600	36,300	32,600	30,200	28,000	24,400	24,900	18,800	16,900	45
50			56,200	54,800	52,400	47,500	33,200	33,300	29,700	28,700	28,000	24,400	24,900	18,800	16,900	50
55			48,200	48,600	47,900	43,600	30,200	30,700	27,100	26,500	27,600	24,400	24,900	18,800	16,900	55
60			41,800	42,200	41,600	40,200	27,600	28,400	24,800	24,600	25,700	23,500	24,000	18,800	16,900	60
65				37,100	36,500	35,300	25,400	26,300	22,800	22,900	24,000	21,800	22,100	18,800	16,900	65
70				32,900	32,400	31,300	23,500	24,500	20,900	21,400	22,400	20,300	20,400	18,800	16,900	70
75				29,300	28,900	27,800	21,900	22,800	19,300	19,900	21,000	19,000	18,900	18,800	16,900	75
80					25,800	24,800	20,500	21,300	17,800	18,700	19,600	17,800	17,500	17,700	16,900	80
85					23,200	22,200	19,200	19,800	16,500	17,500	18,500	16,700	16,300	16,500	15,700	85
90					21,300	20,000	18,000	18,500	15,200	16,500	17,300	15,700	15,100	15,400	14,600	90
95					16,600	18,400	16,900	17,200	14,100	15,500	16,300	14,800	14,100	14,300	13,500	95
100						17,400	16,000	16,100	13,100	14,600	15,300	13,900	13,100	13,300	12,600	100
105						15,900	15,000	14,700	12,100	13,800	14,400	13,100	12,200	12,500	11,700	105
110							14,200	13,300	11,200	13,100	13,600	12,400	11,300	11,600	10,900	110
115							13,500	12,600	10,400	12,300	12,800	11,700	10,500	10,900	10,100	115
120							12,900	11,900	9,600	11,700	12,100	11,100	9,800	10,100	9,400	120
125								11,300	8,900	11,100	11,100	10,500	9,100	9,500	8,700	125
130								10,800	8,200	10,500	10,100	9,900	8,500	8,800	8,100	130
135								10,300	7,600	9,700	9,300	9,400	7,900	8,200	7,500	135
140									6,900	8,900	8,500	8,900	7,300	7,700	7,000	140
145									6,100	8,200	7,700	8,200	6,800	7,200	6,500	145
150										7,500	7,000	7,500	6,300	6,700	6,000	150
155											6,400	6,900	5,800	6,200	5,500	155
160											5,800	6,300	5,400	5,700	5,100	160
165												5,700	4,800	5,300	4,600	165
170													4,300	4,800	4,300	170
175														4,300	3,900	175
180															3,400	180
185															3,000	185

Note: Capacities depict multiple boom modes.
* Over front only



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35,000 lb Counterweight - Fully Extended Outriggers - 360° Rotation
(All Capacities Are Listed In Pounds)

195.3 ft Main Boom Length

Radius (ft)	31 ft Manual Offset Fly				55 ft Manual Offset Fly				Radius (ft)
	2°	15°	30°	45°	2°	15°	30°	45°	
50	10,800								50
55	10,800				8,300				55
60	10,800	10,800			8,300				60
65	10,800	10,800			8,300				65
70	10,800	10,800	10,900		8,300				70
75	10,800	10,800	10,900	11,100	8,300	8,300			75
80	10,800	10,800	10,900	11,100	8,300	8,300			80
85	10,800	10,800	10,900	11,100	8,300	8,200			85
90	10,800	10,800	10,900	11,100	8,300	8,100	7,400		90
95	10,800	10,800	10,900	11,100	8,300	8,000	7,300		95
100	10,800	10,800	10,900	11,100	8,300	7,900	7,300	6,800	100
105	9,800	10,400	10,800	11,100	8,300	7,900	7,200	6,800	105
110	8,600	9,300	9,900	10,300	8,300	7,800	7,100	6,700	110
115	7,600	8,200	8,800	9,300	8,300	7,700	7,100	6,700	115
120	6,700	7,300	7,800	8,200	7,500	7,600	7,000	6,700	120
125	5,900	6,400	6,900	7,300	6,600	7,500	7,000	6,700	125
130	5,100	5,600	6,100	6,400	5,800	6,700	6,900	6,600	130
135	4,400	4,900	5,300	5,600	5,100	6,000	6,800	6,600	135
140	3,800	4,200	4,600	4,900	4,500	5,200	6,000	6,600	140
145	3,200	3,600	4,000	4,200	3,900	4,600	5,300	5,800	145
150	2,600	3,000	3,400	3,600	3,300	4,000	4,700	5,100	150
155	2,100	2,500	2,800	3,000	2,800	3,400	4,100	4,500	155
160	1,700	2,000	2,300	2,400	2,300	2,900	3,500	3,900	160
165	1,200	1,500	1,800	1,900	1,900	2,400	3,000	3,300	165
170		1,100	1,300	1,400	1,400	2,000	2,500	2,800	170
175						1,500	2,000	2,300	175
180						1,100	1,600	1,800	180
185							1,100	1,300	185



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59,000 lb Counterweight - Fully Extended Outriggers - 360° Rotation
(All Capacities Are Listed In Pounds)

195.3 ft Main Boom Length

Radius (ft)	31 ft Manual Offset Fly				55 ft Manual Offset Fly				Radius (ft)
	2°	15°	30°	45°	2°	15°	30°	45°	
50	10,800								50
55	10,800				8,300				55
60	10,800	10,800			8,300				60
65	10,800	10,800			8,300				65
70	10,800	10,800	10,900		8,300				70
75	10,800	10,800	10,900	11,100	8,300	8,300			75
80	10,800	10,800	10,900	11,100	8,300	8,300			80
85	10,800	10,800	10,900	11,100	8,300	8,200			85
90	10,800	10,800	10,900	11,100	8,300	8,100	7,400		90
95	10,800	10,800	10,900	11,100	8,300	8,000	7,300		95
100	10,800	10,800	10,900	11,100	8,300	7,900	7,300	6,800	100
105	10,100	10,400	10,800	11,100	8,300	7,900	7,200	6,800	105
110	9,300	9,700	10,100	10,300	8,300	7,800	7,100	6,700	110
115	8,700	9,000	9,300	9,600	8,300	7,700	7,100	6,700	115
120	8,000	8,300	8,700	8,900	7,700	7,600	7,000	6,700	120
125	7,400	7,700	8,000	8,300	7,100	7,500	7,000	6,700	125
130	6,800	7,100	7,400	7,600	6,600	7,000	6,900	6,600	130
135	6,300	6,600	6,900	7,100	6,100	6,500	6,900	6,600	135
140	5,800	6,100	6,300	6,500	5,600	6,000	6,400	6,600	140
145	5,300	5,600	5,800	6,000	5,100	5,500	5,900	6,300	145
150	4,900	5,100	5,300	5,500	4,700	5,100	5,500	5,800	150
155	4,500	4,700	4,900	5,000	4,300	4,600	5,000	5,300	155
160	4,000	4,300	4,500	4,600	3,900	4,200	4,600	4,800	160
165	3,700	3,900	4,000	4,100	3,500	3,900	4,200	4,400	165
170	3,300	3,500	3,700	3,700	3,200	3,500	3,800	4,000	170
175	3,000	3,100	3,300	3,300	2,800	3,100	3,400	3,600	175
180	2,600	2,800	2,900		2,500	2,800	3,100	3,200	180
185	2,300	2,500	2,600		2,200	2,500	2,700	2,900	185
190	2,000	2,200	2,300		1,900	2,200	2,400	2,500	190
195	1,800	1,900	1,900		1,600	1,900	2,100	2,200	195
200	1,500	1,600	1,700		1,400	1,600	1,800	1,800	200
205	1,200	1,300			1,100	1,300	1,500		205
210						1,100	1,200		210



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59,000 lb Counterweight - Fully Extended Outriggers - 360° Rotation
(All Capacities Are Listed In Pounds)

195.3 ft Main Boom Length

Radius (ft)	73 ft Manual Offset Fly				91 ft Manual Offset Fly				109 ft Manual Offset Fly				Radius (ft)
	2°	15°	30°	45°	2°	15°	30°	45°	2°	15°	30°	45°	
65	6,700												65
70	6,700				5,200								70
75	6,700	6,800			5,200								75
80	6,700	6,800			5,200								80
85	6,700	6,800			5,200	5,200			3,100				85
90	6,700	6,800			5,200	5,200			3,100	3,100			90
95	6,700	6,800	6,900		5,200	5,200			3,100	3,100			95
100	6,700	6,800	6,900		5,200	5,200	5,300		3,100	3,100			100
105	6,700	6,800	6,900	6,400	5,200	5,200	5,300		3,100	3,100	3,100		105
110	6,700	6,800	6,800	6,200	5,200	5,200	5,200	4,800	3,100	3,100	3,100		110
115	6,700	6,800	6,800	6,100	5,200	5,200	5,000	4,600	3,100	3,100	3,100		115
120	6,200	6,600	6,700	6,000	5,200	5,200	4,900	4,400	3,100	3,100	2,900		120
125	5,600	6,000	6,500	5,800	4,800	5,200	4,700	4,300	3,100	3,100	2,700	2,400	125
130	5,000	5,400	6,000	5,700	4,300	4,800	4,500	4,200	2,900	2,900	2,500	2,300	130
135	4,500	4,900	5,400	5,600	3,800	4,300	4,400	4,000	2,500	2,700	2,400	2,200	135
140	4,000	4,400	4,900	5,300	3,400	3,800	4,200	3,900	2,000	2,500	2,200	2,000	140
145	3,600	3,900	4,400	4,800	2,900	3,300	3,800	3,800	1,600	2,100	2,100	1,900	145
150	3,100	3,500	3,900	4,300	2,500	2,900	3,400	3,700	1,200	1,700	2,000	1,800	150
155	2,700	3,100	3,500	3,800	2,100	2,500	3,000	3,300		1,300	1,700	1,600	155
160	2,300	2,700	3,100	3,400	1,800	2,100	2,600	2,900			1,300	1,500	160
165	2,000	2,300	2,700	3,000	1,400	1,800	2,200	2,500				1,300	165
170	1,600	2,000	2,300	2,600	1,100	1,400	1,800	2,100				1,300	170
175	1,300	1,600	2,000	2,200		1,100	1,500	1,700				1,200	175
180		1,300	1,600	1,800			1,100	1,400					180
185			1,300	1,500									185
190				1,100									190



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