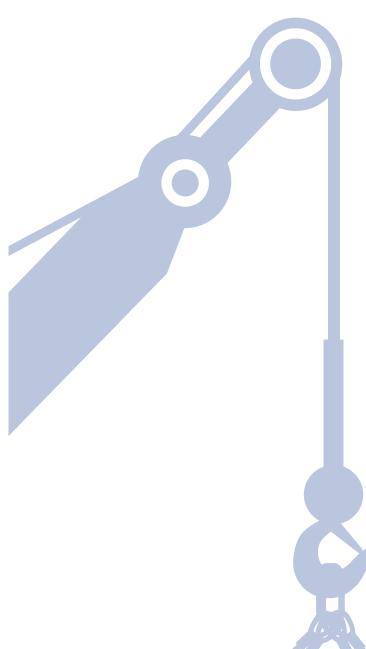


LOAD CHARTS

for Use With WRITTEN EXAMINATIONS





American 9320

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Make sure that you are fully trained on, and review the entire manual for, every crane you operate.

This load chart has been adapted from the original manufacturer's load chart for use in the NCCER Mobile Crane Certification Examination. It is not to be used for calculating loads, planning lifts, or for any other purpose.

AMERICAN

900 SERIES MODEL 9320 CRAWLER CRANE

LIFT CRANE RATINGS IN POUNDS

With 92HT Tubular Chord Boom and "T-T" Counterweight (140,000 lbs.)

BOOM LENGTH	RADIUS IN FEET	BOOM ANGLE DEGREE	LIFT RATING IN POUNDS	FEET FROM BOOM POINT TO GROUND
	17	81.4	500,000	76
	20	78.9	425,480	75
	25	74.7	324,680	74
	30	70.4	237,130	72
70	35	65.9	185,910	70
FEET	40	61.3	152,340	67
	50	51.3	110,890	61
	60	39.5	86,230	50
	70	23.2	69,960	33
	18	81.8	475,930	86
	20	80.3	424,920	85
	25	76.6	324,160	84
	30	72.9	237,060	83
80	35	69.1	185,760	81
FEET	40	65.2	152,150	79
	50	56.9	110,660	73
	60	47.7	85,970	65
	70	36.8	69,720	54
	80	21.6	58,050	35
	20	81.4	424,090	96
	25	78.2	323,320	95
	30	74.9	236,770	93
	35	71.5	185,430	92
90	40	68.1	151,810	90
FEET	50	61.0	110,300	85
	60	53.3	85,580	78
	70	44.8	69,350	69
	80	34.6	57,700	57
	90	20.3	48,970	37
	21	81.7	398,300	106
	25	79.4	322,610	105
	30	76.4	236,550	104
	35	73.4	185,150	102
	40	70.4	151,500	101
100	50	64.2	109,950	96
FEET	60	57.5	85,190	90
	70	50.4	68,970	83
	80	42.3	57,310	73
	90	32.7	48,580	60
	100	19.2	41,800	38
110	22	81.9	375,480	115
FEET	25	80.3	321,860	114

BOOM LENGTH	RADIUS IN FEET	BOOM ANGLE DEGREE	LIFT RATING IN POUNDS	FEET FROM BOOM POINT TO GROUND
	30	77.7	236,290	114
	35	75.0	184,830	113
	40	72.3	151,150	111
110	50	66.7	109,580	107
FEET	60	60.8	84,770	102
CONT.	70	54.6	68,560	96
	80	47.9	56,880	87
	90	40.2	48,150	77
	100	31.1	41,370	62
	110	18.3	36,030	40
	24	81.6	337,760	125
	25	81.1	321,660	125
	30	78.7	236,060	124
	35 40	76.3 73.8	184,670	123 122
120	50	68.7	151,050 109,540	118
FEET	60	63.5	84,780	114
FEET	70	58.0	68,630	108
	80	52.1	56,970	101
	90	45.7	48,250	92
	100	38.4	41,500	80
	110	29.7	36,230	65
	120	17.4	31,770	41
	25	81.8	320,990	135
	30	79.6	235,880	134
	35	77.4	184,420	133
	40	75.1	150,750	132
	50	70.4	109,190	129
130	60	65.7	84,390	125
FEET	70	60.7	68,230	119
	80	55.5	56,560	113
	90	49.9	47,840	105
	100	43.8	41,060	96
	110	36.8	35,830	84
	120	28.5	31,390	68
	130	16.7	27,670	43
	27	81.6	281,750	145
	30	80.4	235,510	145
	35	78.3	180,010	144
140	40	76.2	150,330	142
FEET	50	71.9	108,740	139
	60	67.5	63,900	136
	70	63.0	67,760	131

(Continued)

NOTE: These load charts are intended for instructional purposes only. These load charts were derived from manufacturer sales information which may not be complete or machine specific.

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LIFT CRANE RATINGS IN POUNDS (cont.)
With 92HT Tubular Chord Boom and "T-T" Counterweight (140,000 lbs.)

BOOM LENGTH	RADIUS IN FEET	BOOM ANGLE DEGREE	LIFT RATING IN POUNDS	FEET FROM BOOM POINT TO GROUND
	80	58.3	56,080	125
	90	53.3	47,350	118
140	100	47.9	40,570	110
FEET	110	42.1	35,380	99
CONT.	120	35.4	30,940	87
	130	27.4	27,220	70
	140	16.1	24,080	44
	28	81.8	264,200	155
	30	81.0 79.1	235,260 183,700	155 154
	35 40	77.1	149,980	153
	50	73.1	108,340	150
	60	69.1	83,470	['] 146
150	70	64.9	67,330	142
FEET	80	60.6	55,620	137
	90	56.1	46,880	130
	100	51.3	40,360	123
	110	46.2	34,920	114
	120	40.6	30,480	103
	130	34.2	26,770	90
	140	26.5	23,630	72
	150	15.5	20,930	45
	29	81.9	248,500	165
	30	81.6	235,000	165
	35	79.8	183,370	164
	40	77.9	149,610	163
	50	74.2	107,930	160
	60	70.5	83,020	157
	70	66.6	66,880	153
160	80	62.6	55,150	148
FEET	90	58.5	46,400	142
	100	54.1	39,890	136
	110	49.6	34,450	128 118
	120 130	44.6 39.2	30,000 26,290	107
	140	33.0	23,150	93
	150	25.6	20,460	75
	160	15.0	18,120	47
	31	81.7	222,010	175
	35	80.4	182,920	174
	40	78.6	149,240	173
	50	75.2	107,630	171
	60	71.6	82,750	168
	70	68.1	66,650	164
	80	64.4	54,950	159
170	90	60.5	46,210	154
FEET	100	56.6	39,750	148
	110	52.4	34,320	141
	120	48.0	29,890	132
	130	43.2	26,190	122
	140	38.0	23,060	110
	150	32.0	20,380	96
	160	24.8	18,060	77
400	170	14.5	16,030	48
180	32	81.9	210,500	185
FEET	35	81.0	182,660	184

BOOM LENGTH	RADIUS IN FEET	BOOM ANGLE DEGREE	LIFT RATING IN POUNDS	FEET FROM BOOM POINT TO GROUND
	40	79.3	148,930	183
	50	76.0	107,270	181
	60	72.7	82,340	178
180	70	69.3	66,240	175
	80	65.9	54,520	170
	90	62.3	45,770	168
FEET CONT.	100 110 120	58.6 54.8 50.8	39,320 33,880 29,440	160 153 145
	130	46.5	25,740	136
	140	41.9	22,610	126
	150	36.9	19,930	114
	160 170	31.1 24.1	17,610 15,570 13,770	98 79 49
	180 33 35 40	14.1 82.0 81.4 79.9	200,260 182,250 148,510	195 194 194
	50	76.8	106,810	191
	60	73.6	81,850	189
	70	70.5	65,750	185
	80	67.2	54,020	181
	90	63.9	45,250	177
190 FEET	100 110 120	60.5 56.9 53.2	38,840 33,390 28,950	171 165 158
	130	49.3	25,250	150
	140	45.2	22,120	141
	150	40.7	19,440	130
	160	35.8	17,110	117
	170	30.2	15,070	101
	180	23.4	13,280	81
	190 35	13.7 81.8	11,690 181,950	50 205 204
	40 50 60	80.4 77.4 74.5	148,160 106,420 81,420	202 199
	70	71.5	65,320	196
	80	68.4	53,560	192
	90	65.3	44,780	188
200 FEET	100 110 120	62.1 58.8 55.4	38,370 32,920 28,470	183 177 170
, ==.	130 140	51.8 48.0	24,770 21,630	163 154 145
	150 160 170	44.0 39.7 34.9	18,950 16,620 14,590	133 120
	180	29.4	12,790	104
	190	22.8	11,190	83
	200	13.4	9,770	52
210	36	81.9	173.680	215
	40	80.8	147.820	214
	50	78.1	106.020	212
FEET	60	75.2	80.970	210
	70	72.4	64.870	207
	80	69.5	53.090	203

(Continued)

LIFT CRANE RATINGS IN POUNDS (cont.)

With 92HT Tubular Chord Boom and "T-T" Counterweight (140,000 lbs.)

BOOM LENGTH	RADIUS IN FEET	BOOM ANGLE DEGREES	LIFT RATING IN POUNDS	FEET FROM BOOM POINT TO GROUND
210 FEET CONT.	90 100 110 120 130 140 150 160 170 180 190 200 210	66.6 63.5 60.4 57.2 53.9 50.4 46.8 42.9 38.6 34.0 28.7 22.3 13.0	44,290 37,900 32,450 27,990 24,280 21,140 18,450 16,120 14,080 12,280 10,690 9,260 7,980	199 194 189 183 176 168 159 149 137 123 106 85 53
220 FEET	38 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200 210 220	81.8 81.3 78.6 75.9 73.2 73.2 67.7 64.8 61.9 55.8 52.6 41.8 37.7 33.2 28.0 21.7	152,560 147,300 105,590 80,580 64,530 52,760 43,980 37,630 32,180 27,730 24,030 20,900 18,220 15,890 13,860 12,070 10,480 9,060 7,790 6,640	224 224 222 220 217 214 210 205 200 194 188 181 172 163 152 140 126 109 87 54
230 FEET	39 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200 210 220 230	81.9 81.6 79.1 76.6 74.0 71.4 68.7 66.0 63.2 60.4 57.5 54.4 51.3 48.0 44.6 40.9 36.9 32.4 27.4 27.4 21.2	138,380 138,380 105,230 80,180 64,120 52,330 43,530 37,190 31,730 27,280 23,570 20,440 17,740 15,420 13,390 11,590 10,000 8,580 7,300 6,140 5,100	234 234 232 230 227 224 221 216 211 206 200 193 185 177 167 156 144 129 111 89 55
240 FEET	40 50 60	82.0 79.6 77.1	132,330 104,780 80,240	244 243 240

BOOM LENGTH	RADIUS IN FEET	BOOM ANGLE DEGREES	LIFT RATING IN POUNDS	FEET FROM BOOM POINT TO GROUND
240 FEET CONT.	70 80 90 100 110 120 130 140 150 160 170 180 190 200 210 220 230	74.7 72.2 69.6 67.1 64.4 61.7 59.0 56.1 53.2 50.1 46.9 43.6 39.9 36.0 31.7 26.8 20.8	63,630 51,840 43,030 36,710 31,250 26,780 23,060 19,930 17,240 14,910 12,870 11,080 9,480 8,060 5,780 5,630 4,590	238 235 231 227 223 218 212 205 198 190 181 171 160 147 132 114 91
250 FEET	42 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200 210 220 230	81.9 80.0 77.6 75.3 72.9 70.5 68.0 65.5 63.0 60.4 57.7 54.9 52.1 45.9 42.6 39.1 35.3 31.1 26.2	120,120 104,400 79,830 63,200 51,380 42,560 36,250 30,780 26,300 22,590 19,440 16,750 14,410 12,380 10,580 8,990 7,560 6,280 5,110 4,070	254 253 251 248 245 242 238 234 229 223 217 211 203 195 185 175 163 150 134 116
260 FEET	100 110 120 130 140 150 160 170 180 190 200 210 220	81.9 80.4 78.1 75.9 73.6 71.3 68.9 66.5 64.1 61.6 59.1 56.4 53.8 51.0 48.1 45.0 41.8 38.3 34.6	109,260 104,010 79,420 62,760 50,920 42,080 35,790 30,310 25,830 22,100 18,950 16,250 13,910 11,870 10,070 8,470 7,040 5,760 4,600	264 263 261 259 256 253 249 245 240 235 229 223 216 208 199 190 179 167 153 (Continued)

(Continued)

LIFT CRANE RATINGS IN POUNDS (cont.)
With 92HT Tubular Chord Boom and "T-T" Counterweight (140,000 lbs.)

BOOM LENGTH	RADIUS IN FEET	BOOM ANGLE DEGREES	LIFT RATING IN POUNDS	FEET FROM BOOM POINT TO GROUND
270 FEET	45 50 60 70 80 90 100 110 120 130 140 150 160 170 180 210 220	81.8 80.7 78.6 76.4 74.2 72.0 69.7 67.4 65.1 62.8 60.3 57.9 55.3 52.7 49.9 47.1 44.1 44.9 37.6	95,570 95,200 78,970 62,340 50,520 41,690 35,430 29,960 21,770 18,630 15,940 13,610 11,570 9,770 8,180 6,760 5,470 4,320	274 273 271 269 266 263 260 256 251 246 241 235 228 221 212 204 194 183 170

BOOM LENGTH	RADIUS IN FEET	BOOM ANGLE DEGREES	LIFT RATING IN POUNDS	FEET FROM BOOM POINT TO GROUND
280 FEET	46 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200 210	81.9 81.1 79.0 76.9 74.8 72.6 70.5 68.3 66.1 63.8 61.5 59.1 56.7 54.2 51.6 49.0 46.2 43.3	87,590 87,250 78,600 61,940 50,100 41,250 35,000 29,520 25,050 21,320 18,170 15,470 13,140 11,090 9,290 7,700 6,270 4,990	284 283 281 279 277 274 270 266 262 257 252 246 240 233 225 217 208 198

LOAD HOISTING DATA

		Maximum Hoisting Distance		
Maximum Lifting Capacity in Pounds	Minimum Parts of Load Line	RH Drum with Controlled Load Lowering	LH Drum With Controlled Load Lowering	LH Drum Without Controlled Load Lowering
		Ft.	Ft.	Ft.
*500,000 490,280 449,427 408,570 367,710 326,850 286,000 245,140 204,280 163,420 122,570 81,710 40,850	14 12 11 10 9 8 7 6 5 4 3	59 69 76 83 93 104 119 139 167 209 279 419 839	30 35 38 42 47 52 60 70 84 105 141 211 423	46 53 58 64 71 80 92 107 129 161 215 323 647

^{*}Requires boom point hanger block. Based on 1 1/8 in. amper grade load line with 143,000 lbs. minimum breaking strength.

METRIC

		Maxi	mum Hoisting	Distance
Maximum Lifting Capacity in Kilograms	Minimum Parts of Load Line	RH Drum with Controlled Load Lowering	LH Drum With Controlled Load Lowering	LH Drum Without Controlled Load Lowering
		M	М	М
*226,800 222,390 203,860 185,320 166,790 148,260 129,720 111,190 92,660 74,130 55,590 37,060 18,530	14 12 11 10 9 8 7 6 5 4 3 2	18.3 21.0 23.2 25.3 28.3 31.7 36.3 42.4 50.9 63.7 85.0 127.7 255.7	9.2 10.7 11.6 12.8 14.3 15.8 21.3 25.6 32.0 50.0 64.3 128.9	14.0 16.2 17.7 19.5 21.6 24.4 28.0 32.6 39.3 49.1 65.5 98.5 197.2

^{*}Requires boom point hanger block. Based on 28.8 min. dia. load line with 64865 kgs. minimum breaking strength

BOOM AND JIB ERECTION

92 HT Boom	Maximum No. 30H
Length In Feet	Jib In Feet
280 270	0
260	45
250	85
240	95

METRIC

92 HT Boom Length in Meters	Maximum No. 30H Jib In Meters
85.3	0
82.3	0
79.3	13.7
76.2	25.9
73.2	29.0

Erection is over the idler and at the crawlers with A-Frame hulls raised and tumblers blocked.

92HT BOOM COMPOSITION

I	Boom Length		30 Ft.	20 Ft.	10 Ft.	50 Ft.	40 Ft.
	In Feet	In Meters	(9.1 m) 92HT Inner	(6.1 m) 92HT Center	(3.0 m) 92ST Center	(15.2 m) 92ST Center	(12.2 m) 92H Outer
	70 80 90 100 110 120 130 140 150 160 170 180 220 220 230 240 250 260	21.3 24.4 27.4 30.5 33.5 36.6 39.6 42.7 45.7 48.8 51.8 54.9 57.9 61.0 64.0 67.1 70.1 70.1 70.2 76.2 79.3	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1111-1111-1111	1 2 - 1 2 - 1 2 - 1 0 1		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
			1 1	0 0	2 0 1	3 4 4	1 1 1

PERFORMANCE

Travel Speed	. 0 to 1.1 MPH maximum (1.77 KmPH)
Friction Swing	2.28 RPM maximum
	1.9 RPM maximum

HOISTING PERFORMANCE:

	Single Line Pull at Single Line Speed			
Function	SLP (Pounds) at SLS (Feet Per Min.)	SLP (Kilograms) at SLS (Meters Per Min.)		
Crane	40,000 lbs. at 165 FPM	18144 kg at 50.1 MPM		
Third Drum	15,000 lbs. at 225 FPM	6804 kg at 68.6 MPM		
Third Drum	21,000 lbs. at 220 FPM	9525 kg at 67.0 MPM		
G.D./S.H. Third Drum	40,000 lbs. at 90 FPM	18144 kg at 27.4 MPM		

WEIGHTS

Performance figures are based on machine equipped with standard engine and torque converter.

Lifting Crane with Basic 70 ft.		-
92 HT Crane Boom	384,280	174,306
	304,200	174,500
Components Removable for		
Shipment:		
Counterweight	140,000	63,504
Boom Outer	10,070	4,568
Boom Inner	8,560	3,883
Telescopic Boom Stops	300	136
Outer Bail Assembly	2.450	1.111
	-,	
A-Frame	5,320	2,413
Side Frames, 50 in. (1270 mm)		

41,395 91,260 Shoes (2) 2,670 1,211 Torque Tubes (2) 21,528 47,460 Carbody 8,085 Ground Bearing Pressure: kg/m² 11.5 PSI Standard Equipped Lift Crane NOTE: In accordance with varying material situations and the Company's policy of constant product improvement, these specifications are subject to change without notice and without incurring responsibil-

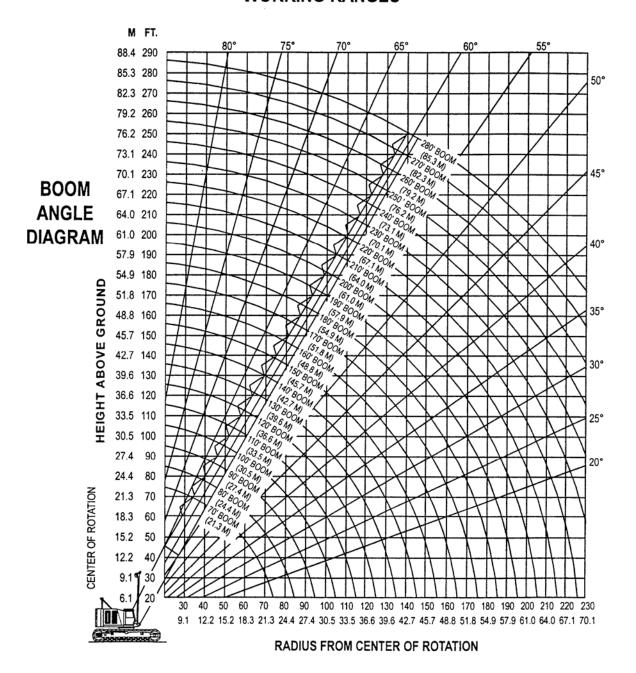
ity to units previously sold. NOTE: These load charts are intended for instructional purposes only. These load charts were derived from manufacturer sales information which may not be complete or machine specific.

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Lbs.

Kgs.

AMERICAN MODEL 9320 CRAWLER CRANE WORKING RANGES



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