LIFTCRANE BOOM CAPACITIES _____ 4100W SERIES 2

BOOM NO. 22C WITH OPEN THROAT TOP
146,400 LB. CRANE COUNTERWEIGHT
60,000 LB. CARBODY COUNTERWEIGHT
26'6" CRAWLERS EXTENDED
CRAWLER MACHINE ON A BARGE
0 DEGREE THRU 3 DEGREE MACHINE LIST
NO TRAVEL - 360 DEGREE RATING

CAPACITIES ARE FOR A CRAWLER MACHINE WHEN OPERATING ON A BARGE. MACHINE SHALL BE POSITIVELY SECURED TO PREVENT SHIFTING. CAPACITIES FOR VARIOUS BOOM LENGTHS AND OPERATING RADII ARE FOR FREELY SUSPENDED LOADS AND DO NOT EXCEED 75% OF A STATIC TIPPING LOAD. CAPACITIES BASED ON STRUCTURAL COMPETENCE ARE DENOTED BY AN ASTERISK (*).

UPPER BOOM POINT CAPACITY FOR LIFTCRANE SERVICE WITH SINGLE PART WHIP LINE OR COMBINATION OF TWO SINGLE PART LINES IS 28,300 LBS. IN ALL CASES, UPPER BOOM POINT CAPACITIES CANNOT EXCEED THOSE LISTED FOR MAIN BOOM CAPACITY.

WEIGHT OF UPPER BOOM POINT, ALL LOAD BLOCKS, HOOKS, WEIGHT BALL, SLINGS, HOIST LINES, ETC., BENEATH BOOM POINT SHEAVES, IS CONSIDERED PART OF MAIN BOOM LOAD. BOOM IS NOT TO BE LOWERED BEYOND RADII WHERE COMBINED WEIGHTS ARE GREATER THAN RATED CAPACITY. WHERE NO CAPACITY IS SHOWN, OPERATION IS NOT INTENDED OR APPROVED.

MACHINE TO OPERATE ON A FIRM UNIFORMLY SUPPORTING SURFACE WITH CRAWLERS FULLY EXTENDED, GANTRY UP AND MACHINE LIST NOT TO EXCEED DEGREES NOTED. REFER TO BOOM RIGGING NO. 190693 AND WIRE ROPE SPECIFICATION CHART NO. 6592-A. CRANE OPERATOR JUDGMENT MUST BE USED TO ALLOW FOR DYNAMIC LOAD EFFECTS OF SWINGING, HOISTING OR LOWERING, WIND CONDITIONS, AS WELL AS ADVERSE OPERATING CONDITIONS AND PHYSICAL MACHINE DEPRECIATION.

OPERATING RADIUS IS HORIZONTAL DISTANCE FROM AXIS OF ROTATION AT BARGE DECK TO CENTER OF VERTICAL HOIST LINE OR LOAD BLOCK. BOOM ANGLE IS ANGLE BETWEEN HORIZONTAL AND CENTERLINE OF BOOM BUTT AND INSERTS, AND IS AN INDICATION OF OPERATING RADIUS. IN ALL CASES, OPERATING RADIUS SHALL GOVERN CAPACITY. BOOM POINT ELEVATION IS VERTICAL DISTANCE FROM BARGE DECK TO CENTERLINE OF BOOM POINT SHAFT.

MACHINE EQUIPPED WITH 26'6" EXTENDIBLE CRAWLERS, 48" TREADS, 17' RETRACTABLE GANTRY, 12 PART BOOM HOIST REEVING, FOUR 1-3/8" BOOM PENDANTS, 1ST COUNTERWEIGHT - 41,900 LBS., 2ND COUNTERWEIGHT - 41,500 LBS., 3RD COUNTERWEIGHT - 39,000 LBS., TWO 12,000 LB. SIDE COUNTERWEIGHTS, AND TWO 30,000 LB. CARBODY COUNTERWEIGHTS.

MAXIMUM BOOM LENGTHS LIFTED UNASSISTED		
LIST	OVER FRONT OF CRAWLERS	OVER SIDE OF EXTENDED CRAWLERS
0 DEGREE	260'	250'
1 DEGREE	250'	250'
2 DEGREE	250'	250'
3 DEGREE	250'	250'
LOAD BLOCK, HOOK AND WEIGHT BALL ON BARGE AT START. JIB IS NOT TO BE USED ON CRAWLER MACHINE WHILE OPERATING ON A BARGE.		

DEDUCT FROM CAPACITIES WHEN UPPER BOOM POINT IS ATTACHED	
ONE SHEAVE POINT	1,200 LBS.
TWO SHEAVE POINT	1,500 LBS.

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY 0 DEGREE LIST POUNDS	BOOM CAPACITY 1 DEGREE LIST POUNDS	BOOM CAPACITY 2 DEGREE LIST POUNDS	BOOM CAPACITY 3 DEGREE LIST POUNDS	OPER. RAD. FEET
70	16.5	79.7	75.9	460,000*	375,200*			16.5
	17	79.3	75.8	400,000*	358,600*	326,300*		17
	18	78.5	75.6	380,100*	343,300*	313,700*	283,800*	18
	19	77.6	75.4	363,000*	329,200*	301,200*	275,100*	19
	20	76.8	75.2	347,300*	316,200*	290,200*	262,700*	20
	22	75.1	74.7	319,600*	292,400*	264,700*	240,800*	22
	24	73.4	74.1	293,400*	265,800*	242,600*	222,200*	24
	26	71.7	73.5	266,100	243,400*	223,800*	206,900*	26
	28	69.9	72.8	237,500	220,900	206,100	192,900	28
	30	68.2	72.0	214,300	200,600	188,300	177,100	30
	32	66.4	71.2	195,100	183,700	173,200	163,700	32
	34	64.6	70.3	178,900	169,200	160,300	152,000	34
	36	62.8	69.3	165,200	156,900	149,100	141,900	36
	38	60.9	68.2	153,300	146,100	139,300	133,000	38
	40	59.1	67.0	143,000	136,600	130,700	125,100	40
	45	54.1	63.7	122,100	117,500	113,000	108,800	45
	50	48.9	59.8	106,300	102,800	99,400	96,200	50
	55	43.2	55.0	93,900	91,200	88,600	86,100	55
	60	36.9	49.0	84,000	81,900	79,900	77,900	60
	65	29.4	41.3	75,800	74,200	72,600	71,100	65
	70	19.5	30.3	63,900*	63,300*	62,900*	62,500*	70

MANITOWOC ENGINEERING CO.

Division of the Manitowoc Company, Inc. Manitowoc, Wisconsin 54220

LIFTCRANE BOOM CAPACITIES _____ 4100W SERIES 2

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146,400 LB. CRANE COUNTERWEIGHT
60,000 LB. CARBODY COUNTERWEIGHT
26'6" CRAWLERS EXTENDED
CRAWLER MACHINE ON A BARGE
0 DEGREE THRU 3 DEGREE MACHINE LIST
NO TRAVEL - 360 DEGREE RATING

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY 0 DEGREE LIST POUNDS	BOOM CAPACITY 1 DEGREE LIST POUNDS	BOOM CAPACITY 2 DEGREE LIST POUNDS	BOOM CAPACITY 3 DEGREE LIST POUNDS	OPER. RAD. FEET
80	17	80.6	85.9	392,800*	342,000*			17
	18	79.9	85.8	378,900*	336,600*	301,300*		18
	19	79.2	85.6	361,800*	323,800*	293,600*		19
	20	78.5	85.4	346,100*	311,100*	281,000*	251,700*	20
	22	77.0	85.0	318,400*	287,200*	256,800*	231,300*	22
	24	75.5	84.5	292,500*	261,300*	235,700*	213,900*	24
	26	74.0	83.9	265,600*	239,500*	217,700*	198,800*	26
	28	72.5	83.3	237,000	218,400	202,100	185,800*	28
	30	71.0	82.7	213,800	198,400	184,700	172,600	30
	32	69.5	81.9	194,600	181,700	170,100	159,600	32
	34	68.0	81.2	178,500	167,500	157,500	148,400	34
	36	66.4	80.3	164,700	155,200	146,500	138,600	36
	38	64.8	79.4	152,600	144,500	137,000	130,000	38
	40	63.3	78.4	142,400	135,200	128,500	122,300	40
	45	59.2	75.7	121,500	116,200	111,200	106,500	45
	50	54.9	72.5	105,700	101,700	97,800	94,100	50
	55	50.4	68.5	93,300	90,200	87,100	84,200	55
	60	45.6	64.1	83,400	80,900	78,400	76,100	60
	65	40.3	58.8	75,200	73,200	71,200	69,300	65
	70	34.4	52.2	68,300	66,700	65,200	63,600	70
	75	27.4	43.9	62,500	61,300	60,000	58,800	75
	80	18.2	32.0	53,900*	53,400*	53,100*	52,800*	80
90	18	81.1	95.9	355,400*				18
	19	80.4	95.7	346,900*	293,200*			19
	20	79.8	95.6	336,900*	288,900*	255,900*		20
	22	78.5	95.2	317,400*	280,600*	248,700*	222,600*	22
	24	77.2	94.8	291,700*	257,000*	229,300*	206,200*	24
	26	75.9	94.3	264,800*	235,700*	212,000*	192,000*	26
	28	74.5	93.7	236,600	216,000	197,200*	179,500*	28
	30	73.2	93.2	213,400	196,300	181,400	168,300	30
	32	71.9	92.5	194,200	179,800	167,100	155,800	32
	34	70.5	91.9	178,000	165,800	154,800	145,000	34
	36	69.2	91.1	164,200	153,700	144,100	135,500	36
	38	67.8	90.3	152,300	143,200	134,800	127,200	38
	40	66.4	89.5	142,000	133,900	126,500	119,700	40
	45	62.9	87.1	121,100	115,100	109,500	104,300	45
	50	59.3	84.4	105,200	100,600	96,300	92,200	50
	55	55.5	81.2	92,800	89,200	85,700	82,500	55
	60	51.5	77.5	82,900	80,000	77,100	74,500	60
	65	47.3	73.2	74,700	72,300	70,000	67,800	65
	70	42.8	68.2	67,800	65,900	64,000	62,200	70
	75	37.9	62.3	62,000	60,400	58,900	57,300	75
	80	32.4	55.2	57,000	55,700	54,400	53,200	80
	85	25.8	46.2	52,600	51,600	50,600	49,600	85
	90	17.1	33.5	45,900*	45,600*	45,300*	45,000*	90
100	19	81.4	105.9	332,900*				19
	20	80.8	105.7	327,100*	260,000*			20
	22	79.6	105.4	316,200*	271,800*	240,100*		22
	24	78.5	105.0	290,800*	252,800*	222,400*	198,800*	24
	26	77.3	104.6	263,900*	232,000*	206,500*	185,400*	26
	28	76.1	104.1	236,200	213,600	192,200*	173,600*	28
	30	74.9	103.6	212,900	194,200	178,100	163,100*	30
	32	73.7	103.0	193,700	178,000	164,200	152,100	32
	34	72.5	102.4	177,500	164,100	152,200	141,700	34
	36	71.3	101.7	163,700	152,100	141,800	132,500	36
	38	70.1	101.0	151,800	141,700	132,600	124,400	38
	40	68.9	100.3	141,400	132,600	124,500	117,200	40
	45	65.8	98.2	120,500	113,900	107,800	102,100	45
	50	62.6	95.8	104,700	99,600	94,800	90,300	50
	55	59.3	93.0	92,300	88,200	84,400	80,800	55
	60	55.9	89.9	82,300	79,000	75,900	72,900	60
	65	52.4	86.2	74,100	71,400	68,800	66,400	65
	70	48.7	82.1	67,200	65,000	62,900	60,800	70
	75	44.8	77.4	61,400	59,600	57,700	56,000	75
	80	40.5	72.0	56,400	54,900	53,300	51,900	80
	85	35.9	65.6	52,000	50,800	49,500	48,200	85
	90	30.7	58.0	48,200	47,200	46,100	45,100	90
	95	24.5	48.5	44,900	44,000	43,100	42,300	95
	100	16.3	35.0	39,300*	39,000*	38,700*	38,500*	100

LIFTCRANE BOOM CAPACITIES 4100W SERIES 2

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146,400 LB. CRANE COUNTERWEIGHT
60,000 LB. CARBODY COUNTERWEIGHT
26'6" CRAWLERS EXTENDED
CRAWLER MACHINE ON A BARGE
0 DEGREE THRU 3 DEGREE MACHINE LIST
NO TRAVEL - 360 DEGREE RATING

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY 0 DEGREE LIST POUNDS	BOOM CAPACITY 1 DEGREE LIST POUNDS	BOOM CAPACITY 2 DEGREE LIST POUNDS	BOOM CAPACITY 3 DEGREE LIST POUNDS	OPER. RAD. FEET
110	22	80.6	115.5	291,600*	240,700*			22
	24	79.5	115.2	282,900*	234,500*	204,200*		24
	26	78.5	114.8	263,200*	228,500*	199,700*	177,500*	26
	28	77.4	114.4	235,800	211,100*	187,600*	168,200*	28
	30	76.3	113.9	212,500	192,300	175,000	158,200*	30
	32	75.3	113.4	193,300	176,200	161,500	148,700	32
	34	74.2	112.8	177,100	162,500	149,800	138,600	34
	36	73.1	112.2	163,300	150,700	139,600	129,700	36
	38	72.0	111.6	151,400	140,400	130,600	121,900	38
	40	70.9	110.9	141,000	131,400	122,600	114,800	40
	45	68.1	109.1	120,100	112,900	106,200	100,200	45
	50	65.3	106.9	104,200	98,600	93,400	88,600	50
	55	62.4	104.5	91,800	87,400	83,200	79,300	55
	60	59.4	101.7	81,800	78,200	74,800	71,600	60
	65	56.3	98.5	73,600	70,700	67,800	65,100	65
	70	53.1	95.0	66,800	64,300	61,900	59,600	70
	75	49.8	91.0	60,900	58,900	56,800	54,900	75
	80	46.3	86.5	55,900	54,200	52,400	50,800	80
	85	42.6	81.4	51,600	50,100	48,600	47,200	85
	90	38.6	75.6	47,800	46,500	45,200	44,000	90
	95	34.2	68.8	44,400	43,300	42,200	41,200	95
	100	29.2	60.7	41,400	40,500	39,600	38,700	100
	105	23.3	50.6	38,700	38,000	37,200	36,500	105
	110	15.5	36.4	33,900*	33,600*	33,400*	33,200*	110
120	22	81.4	125.6	285,000*				22
	24	80.4	125.3	271,700*	226,600*			24
	26	79.4	125.0	259,800*	220,900*	193,000*		26
	28	78.5	124.6	235,300	207,900*	182,500*	162,800*	28
	30	77.5	124.2	212,100	190,200	171,300*	153,300*	30
	32	76.5	123.7	192,800	174,400	158,700	144,700*	32
	34	75.5	123.2	175,600	160,900	147,300	135,500	34
	36	74.5	122.7	162,800	149,200	137,300	126,900	36
	38	73.5	122.1	150,900	139,000	128,500	119,300	38
	40	72.5	121.5	140,500	130,000	120,700	112,400	40
	45	70.0	119.8	119,500	111,700	104,600	98,200	45
	50	67.5	117.8	103,700	97,600	92,000	86,900	50
	55	64.8	115.6	91,300	86,400	81,900	77,700	55
	60	62.2	113.1	81,300	77,300	73,600	70,100	60
	65	59.4	110.3	73,100	69,800	66,700	63,800	65
	70	56.6	107.2	66,200	63,500	60,800	58,400	70
	75	53.7	103.7	60,400	58,000	55,800	53,700	75
	80	50.7	99.9	55,300	53,400	51,500	49,600	80
	85	47.5	95.5	51,000	49,300	47,600	46,100	85
	90	44.2	90.7	47,200	45,700	44,300	42,900	90
	95	40.7	85.2	43,800	42,500	41,300	40,100	95
	100	36.9	79.0	40,800	39,700	38,600	37,600	100
	105	32.7	71.8	38,100	37,200	36,200	35,300	105
	110	28.0	63.3	35,700	34,900	34,100	33,300	110
	115	22.3	52.6	33,500	32,800	32,200	31,500	115

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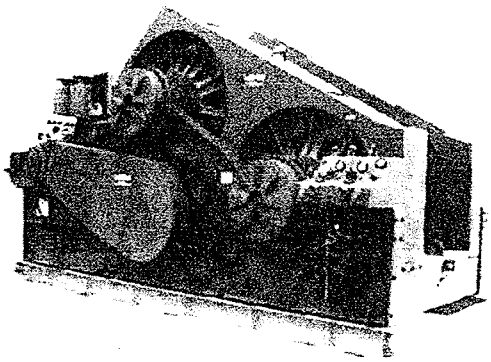
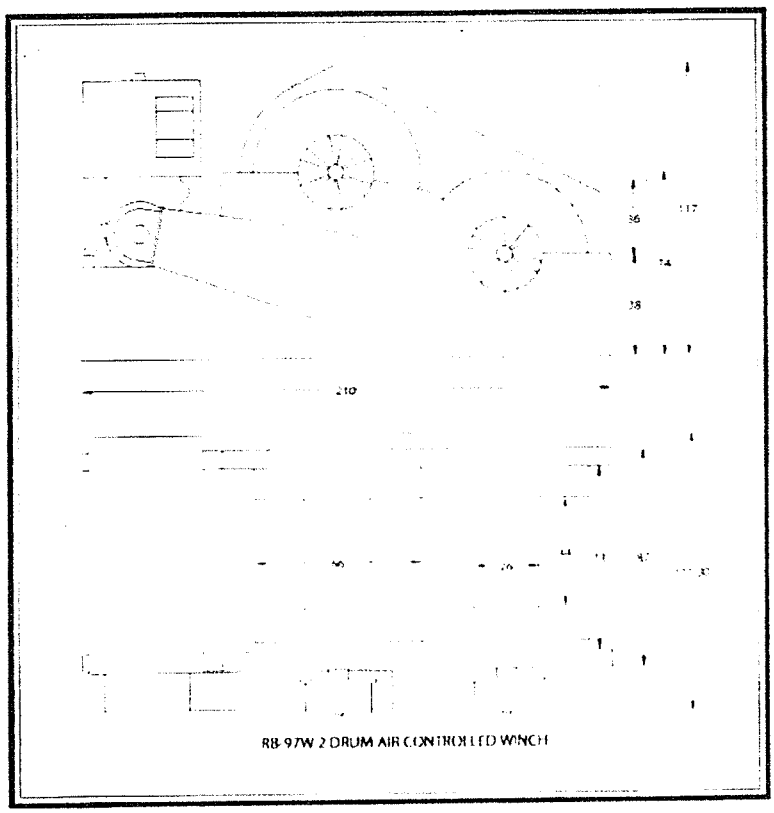
BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY 0 DEGREE LIST POUNDS	BOOM CAPACITY 1 DEGREE LIST POUNDS	BOOM CAPACITY 2 DEGREE LIST POUNDS	BOOM CAPACITY 3 DEGREE LIST POUNDS	OPER. RAD. FEET
130	24	81.2	135.5	260,000*				24
	26	80.3	135.1	248,600*	203,000*			26
	28	79.4	134.8	234,700*	198,400*	170,600*		28
	30	78.5	134.4	211,800	188,400	167,200*	147,200*	30
	32	77.6	134.0	192,500	172,800	156,200	140,800*	32
	34	76.7	133.5	176,300	159,500	145,100	132,800	34
	36	75.7	133.0	162,500	147,900	135,300	124,400	36
	38	74.8	132.5	150,600	137,900	126,700	117,000	38
	40	73.9	131.9	140,200	129,000	119,100	110,400	40
	45	71.6	130.4	119,300	110,800	103,200	96,500	45
	50	69.3	128.6	103,400	96,800	90,900	85,400	50
	55	66.9	126.6	91,000	85,700	80,900	76,400	55
	60	64.5	124.3	81,000	76,700	72,700	69,000	60
	65	62.0	121.8	72,800	69,200	65,900	62,800	65
	70	59.5	119.0	65,900	62,900	60,100	57,400	70
	75	56.9	115.9	60,000	57,500	55,100	52,800	75
	80	54.2	112.5	55,000	52,900	50,800	48,800	80
	85	51.5	108.7	50,700	48,800	47,000	45,300	85
	90	48.6	104.5	46,800	45,200	43,700	42,100	90
	95	45.6	99.8	43,500	42,100	40,700	39,400	95
	100	42.4	94.7	40,500	39,200	38,000	36,900	100
	105	39.0	88.9	37,800	36,700	35,600	34,600	105
	110	35.4	82.3	35,300	34,400	33,500	32,600	110
	115	31.4	74.7	33,100	32,300	31,500	30,800	115
	120	26.8	65.7	31,100	30,500	29,800	29,100	120
	125	21.4	54.5	29,300	28,700	28,200	27,600	125
140	26	81.0	145.3	239,700*	195,500*			26
	28	80.1	144.9	230,800*	191,000*			28
	30	79.3	144.6	211,300	186,500	161,100*		30
	32	78.5	144.2	192,100	171,100	153,600*	136,600*	32
	34	77.5	143.8	175,800	157,900	142,700	129,500*	34
	36	76.8	143.3	162,000	145,500	133,200	121,800	36
	38	75.9	142.8	150,100	136,500	124,700	114,600	38
	40	75.1	142.3	139,700	127,700	117,200	108,100	40
	45	73.0	140.9	118,700	109,700	101,700	94,500	45
	50	70.8	139.2	102,800	95,800	89,500	83,700	50
	55	68.6	137.4	90,400	84,800	79,600	74,900	55
	60	66.4	135.3	80,400	75,800	71,600	67,600	60
	65	64.2	133.0	72,200	68,400	64,800	61,500	65
	70	61.9	130.5	65,300	62,100	59,100	56,200	70
	75	59.5	127.7	59,500	56,700	54,100	51,700	75
	80	57.1	124.6	54,400	52,100	49,800	47,700	80
	85	54.6	121.2	50,100	48,100	46,100	44,200	85
	90	52.1	117.5	46,200	44,500	42,800	41,100	90
	95	49.5	113.4	42,900	41,300	39,800	38,400	95
	100	46.7	108.9	39,900	38,500	37,200	35,900	100
	105	43.8	104.0	37,200	36,000	34,800	33,700	105
	110	40.8	98.5	34,700	33,700	32,600	31,600	110
	115	37.5	92.3	32,500	31,600	30,700	29,800	115
	120	34.0	85.4	30,500	29,700	28,900	28,100	120
	125	30.2	77.4	28,700	28,000	27,300	26,600	125
	130	25.8	68.0	27,000	26,400	25,800	25,200	130
	135	20.7	56.4	25,500	25,000	24,400	23,900	135

Skagit RB-97W Specifications (Air Controlled)

Used / Reconditioned Diesel Mechanical Rental Winches





- **Drum Size**
  - Flange diameter (inches) 66
  - Barrel diameter (inches) 26
  - Barrel length (inches) 44
- **Cable Capacity**
  - 1-1/8 inch (length in feet) 8,000
  - 1-1/4 inch (length in feet) 6,475
  - 1-3/8 inch (length in feet) 5,360
  - 1-1/2 inch (length in feet) 4,500
  - 1-5/8 inch (length in feet) 3,850
  - 1-3/4 inch (length in feet) 3,250

Using wire rope larger or smaller than what the winch was designed for could cause serious damage to the winch, operator, ratchets & personnel.

- **Maximum Cable Size**
  - Diameter (inches) 1-3/4
- **Approximate Weight**
  - Double-drum (standard) (pounds) 56,000

IMPORTANT

Before installation see maintenance and operations manual for additional warnings and precautions.

This equipment is not to be used for lifting, supporting or transporting people or lifting or supporting loads over people.

All quotes are subject to product's availability, prior sale or other disposition. All details are believed correct but without guarantee. Product quoted present location unless otherwise stated above or mutually agreed upon. Price quotes are valid for 10 days unless otherwise stated above.

Performance

Typical single drum line pull in pounds and line speed in feet per minute with a Detroit Diesel 8V-71N65 engine driving through a Twin Disc 1C with an input ratio of 92:17.

SINGLE DRUM PERFORMANCE

Efficiency Range	Pitch Diameter		
	Bare Drum	Average Drum	Full Drum
High	49,781 Lbs @ 98 FPM	27,857 Lbs @ 175 FPM	21,004 Lbs @ 233 FPM
Average	83,307 Lbs @ 72 FPM	46,617 Lbs @ 129 FPM	35,150 Lbs @ 171 FPM
Low	205,299 Lbs @ 20 FPM	114,881 Lbs @ 35 FPM	86,623 Lbs @ 47 FPM
Stall	225,000 Lbs @ 0 FPM	147,285 Lbs @ 0 FPM	111,057 Lbs @ 0 FPM

Note: Line speed and pull performance on our entire rental fleet is estimated on manufacturer specifications. Consult manufacturer for exact line speeds and pulls.

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DELMAG
SPECIFICATION DIESEL HAMMERS*

Model **		D6-32	D8-22	D12-42	D16-32	D19-42	D25-32	D30-32	D36-32	D46-32	D62-22	D80-23	D100-13	D150-42	D200-42
App. piston weight	lbs	1,325	1,770	2,830	3,530	4,015	5,515	6,615	7,940	10,145	13,700	17,700	22,100	33,070	44,100
Energy per blow [1]															
Maximum	ft.lbs	13,500	20,100	33,990	40,200	43,225	66,380	75,452	90,540	122,140	164,620	212,420	265,530	377,260	492,000
Minimum	ft.lbs	6,300	9,434	15,660	18,871	21,510	29,486	35,383	40,900	52,260	78,960	126,192	157,743	242,290	315,000
Explosion force [2]	kN	505	505	606	686	686	1304	1304	1695	1695	1695	1800	2600	-	5400
Blows per min. [3]															
Minimum		38	36	35	36	35	35	36	36	35	35	35	35	36	36
Maximum		52	52	52	52	52	52	52	53	53	50	45	45	52	52
Performance by fuel pump setting # 4	%	100	100	100	100	100	100	100	100	100	100	100	100	100	100
setting # 3	%	88	83	83	88	83	90	90	83	83	83	90	90	90	90
setting # 2	%	73	66	66	67	66	74	74	66	66	66	74	77	77	77
setting # 1	%	60	50	50	48	50	51	51	49	49	50	64	64	64	64
Consumption Diesel fuel	gal/hr	0.70	1.00	0.95	1.45	1.45	2.11	2.64	3.04	4.23	5.28	6.60	7.93	12	15.86
Lubrication oil	gal/hr	0.16	0.66	0.26	0.26	0.26	0.26	0.26	0.61	0.61	0.84	0.77	0.77	1.3	1.5
Capacity Diesel fuel	gal	5.0	5.3	6.3	20.0	20.0	17.7	17.7	23.5	23.5	25.8	40.9	40.9	85	113
Lubrication oil	gal	1.3	1.6	1.7	5.0	5.0	5.0	5.0	4.5	4.5	8.3	8.4	8.4	13.7	21
Operating weight [4] Hammer	lbs.	3570	4000	5730	7560 / 7880	8046 / 8365	11752 / 12370	12855 / 13472	16515 / 17375	18720 / 19580	26173 / 27077	36085 / 37275	43703 / 44894	72750	125660
Tripp. Device	lbs.	220	220	220	220	220	397	397	882	882	882	1654	1654	2095	3300
Tool box	lbs.	165	165	165	165	165	220	220	220	220	275	275	275	-	-
Dimensions [5] a Length overall	in	150.0	185.0	185.8	186.2	186.2	207.1	207.1	208.1	208.1	233.3	283.5	290	271	323.8
a_1 Extend. Length	in	-	-	-	219.3	219.3	246.0	246.4	247.4	247.4	272.6	-	-	-	-
b Diam. Impact block	in	13.8	13.8	15.7	17.3	17.3	22.0	22.0	27.2	27.2	27.9	32.3	32.3	39	49.2
d Width overall	in	18.3	16.1	17.3	19.1	19.1	25.2	25.2	28.3	28.3	31.5	35.0	35.0	50.0	56.1
Min. U-lead width	in	21	21	21	21	21	26	26	32	32	32	38	38	54	66

[1] depends on the blows per minute, referring to the jump height of the piston
[2] measured value on a steel pipe pile , may vary with pile type and soil resistance
[3] depends on fuel pump setting, soil and weather conditions and pile type
[4] weight with / without upper cylinder extension
[5] guiding for hammer and tripping device not considered

* all details are correct at the time of print, subject to alterations without prior notice
** all hammer types above have the registered trade mark

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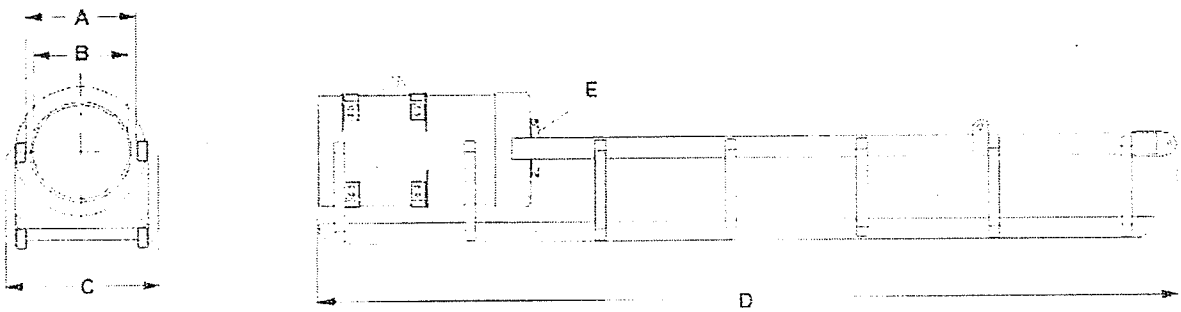
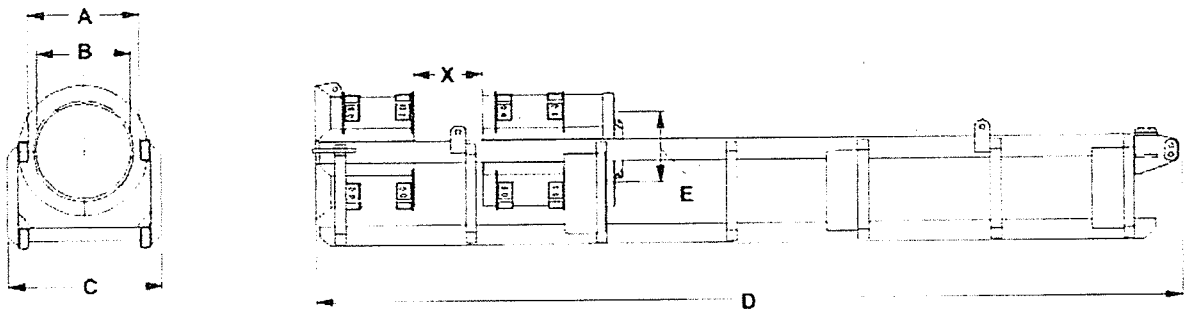
Caisson-Type Leads



LEAD Type	A	B	C	D	E	Avg. Weight*
	inch					
OS 20-02	20-3/4	24	35	18' 11"	19	4920
OS 40-02	32-1/2	36	46	23' 11"	23	8400



A – Guiding Width
B – max. Pile Diameter
C – Total Width (without available ladder)

D - Total Length
E - Cushion diameter

X – Stroke of guiding bell depends on hammer size and guiding type

LEAD Type	A	B	C	D	E	Avg. Weight*
	inch					lbs.
A104-36	42-1/2	36	63	27' 8"	23	12000
A104-42	48-1/2	42	66	35' 7"	27	18000
A104-48	54-1/2	48	72	35' 7"	27	20500
A104-60	66-1/2	60	86	35' 7"	27	26500
OS 200-60	68-1/2	60	97	41'	37	65000

Weight including drive plate or helmet and striker plate