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The background of the slide is a faded, grayscale photograph of a construction site. A large lattice boom truck crane is the central focus, its boom extending diagonally from the bottom left towards the top right. The crane's lattice structure is clearly visible. In the background, other construction elements like scaffolding and possibly another crane are faintly visible. The overall tone is industrial and technical.

TWC SL400

(Street Legal 400 Ton) Capacity

Lattice Boom Truck Crane



SL400 (Street-Legal 400 Ton) Capacity Lattice Boom Truck Crane

210,000 counterweight and 170ft long boom

This successfully executed mobilization plan, as depicted in the following pages, included a total of six truck loads, as well as the basic crane with minimum boom

All axle group weights conformed to DOT permitted standards and loading compliancy was inspected by the states of Arizona, Utah and Nevada



TRUCK CRANE PROFILE SHEET

DATE 6-21-07

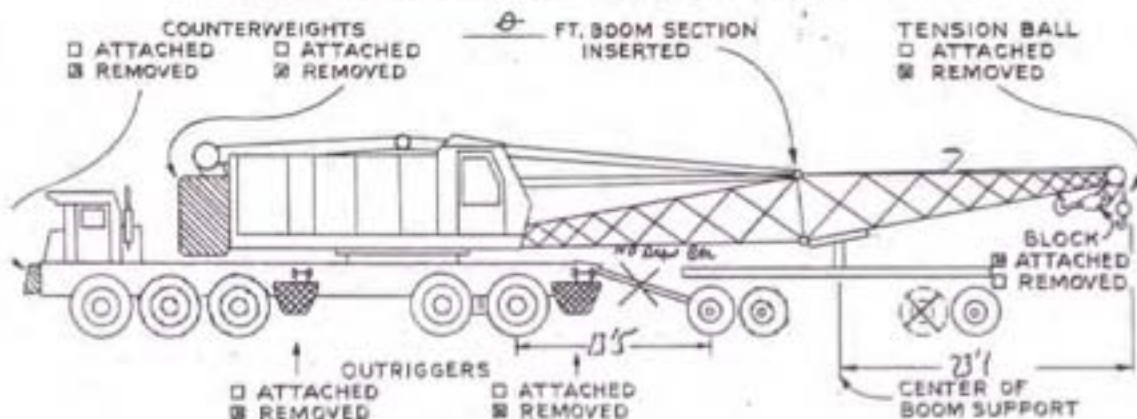
COMPANY NAME _____

MAKE AND MODEL Tamworth SL400

COMPANY NO _____

LICENSE NO _____

THIS DRAWING IS A GENERAL CONFIGURATION ONLY



WHEN THE ABOVE CONFIGURATION AND DIMENSIONS ARE ADHERED TO THIS VEHICLE SHOULD NOT EXCEED PERMITTED WEIGHTS

MAXIMUM FUEL ALLOWED

UPPERWORKS 50%

CARRIER 10%

EQUIPMENT CARRIED ON CARRIER _____

EQUIPMENT CARRIED ON TRAILER _____



DEPARTMENT OF TRANSPORTATION
Caltrans INSPECTION REPORT
DM-46-P-1 (2/98)

INSPECTION LOCATION

COMPANY NAME (LESSEE OR OWNER)

PHONE

INSP. ☒ INITIAL
TYPE ☐ RENEWALINSPECTION DATE
6-21-07

COMPANY ADDRESS AND ZIP

COMPANY NAME, LAST INSPECTION DATE OF LAST INSPECTION

● CARRIER DATA

MAKE Trasworld SERIAL NO. Crystal May LICENSE NO. _____ COMPANY NO. _____ FUEL LEVEL 50 FRONT BUMPER CWT: OPERATES
☒ REMOVED ☐ ATTCH. ☐ W/O
FRONT OUTRIGGERS: REAR OUTRIGGERS: FRONT TIRES: CAP. 1170 REAR TIRES: CAP. 1170
☒ REMOVED ☐ ATTCH. ☒ REMOVED ☐ ATTCH. SIZE 1900-38 L.R. N SIZE 1900-38 L.R. N

● UPPER WORKS DATA

MAKE Trasworld MODEL SL 400 SERIAL NO. Crystal May WEIGHT CLASS (TONS) 400 FUEL LEVEL 50
CRANE CWT: _____ DISTANCE FROM C OF UPPER WORKS ROTATION TO C REARMOST CARRIER AXLE:
☒ REMOVED ☐ ATTCH. 8 FT. 0 IN.

ACCESSORIES CARRIED ON TRUCK CRANE ☐ NONE ☐ LIST FOLLOWING

1. _____ 2. _____ 3. _____ 4. _____ 5. _____ 6. _____

● BOOM SUPPORT VEHICLE DATA

LICENSE NO. _____ TIRES: 24/24.5 CAP. 1675 LBS. VEH. WIDTH: 8 FT. 6 IN. BOOM SUPPORT VEHICLE LENGTH W/O TOWBAR
SIZE 22 FT. 5 IN. L.R. H

ACCESSORIES CARRIED ON BOOM SUP. VEH. ☐ NONE ☐ LIST FOLLOWING

1. _____ 2. _____ 3. _____ 4. _____ 5. _____ 6. _____

● VEHICLE DESCRIPTION

MAX. HEIGHT OF ANY CARRIER OR CRANE COMPONENT: 14 FT. 0 IN. 1/ MAX. WIDTH OF CARRIER OR CRANE INCL. ALL PROJECTIONS EXCEPT LIGHTS, MIRRORS & EQUIPMENT DEFINED IN VC35110: 11 FT. 1 IN.
2/ MAX. WIDTH MEASURED AT TIRE BULGE: 11 FT. 1 IN. MAX. WIDTH OF CARRIER OR CRANE INCL. ALL PROJECTIONS EXCEPT MIRRORS: 11 FT. 4 IN.

CARRIER LENGTH: 18 FT. 8 IN. OVERALL VEHICLE COMBINATION LENGTH: 70 FT. 0 IN. OVERALL LENGTH INCL. BOOM: 79 FT. 4 IN.

AXLE NUMBER	1	2	3	4	5	6	7	8	9
NO. OF TIRES	2	2	2	4	4	4	4	4	4
AXLE SPACING	4'11"	5'0"	16'10"	4'10"	13'5"	4'10"	13'5"		
O-O OF TIRES	11'0"	11'0"	11'0"	11'1"	11'1"	8'6"	8'6"	8'6"	
SCALE WEIGHT	54440		49540		33460		14460		
PERMIT WEIGHT	54740		44740		34000		15160		

● BOOM INFORMATION

BOOM TYPE AND DESCRIPTION ☒ LATTICE ☐ BUTT ☐ INTER. SECT. _____ FT. ☐ TIP ☐ TELESCOPING ☐ JIB ATTACHED

BOOM LENGTH 51 FT. 5 IN. BOOM END ATTACHMENTS: BLOCK SIZE 250 (TONS)

FRONT BOOM OVERHANG _____ FT. _____ IN. FRONT OF TIRES TO TIP _____ FT. _____ IN. CLR. FROM ROADWAY TO BOOM _____ FT. _____ IN. BALL SIZE X (DIAM.)

REAR BOOM OVERHANG _____ FT. _____ IN. UNSUPPORTED: FROM C REAR CARRIER AXLE TO TIP _____ FT. _____ IN. FT OF LAST SUPPORT TO TIP ☐ LEGAL ☐ PERMIT

DOLLY: FROM C REAR DOLLY AXLE TO TIP _____ FT. _____ IN.

TRLR: FROM C POINT OF BOOM SUPPORT TO TIP 21 FT. 1 IN. FROM C REARMOST TRLR AXLE TO TIP 12 FT. 0 IN.

● PERMIT DATA (Permit Office Use Only)

1. Qualified for Weight Transfer or Bonus: ☒ YES ☐ NO
2. Tire Ratings Limit Permitted Weights: ☒ YES ☐ NO
3. Rating Weight Class: ☐ LEGAL ☐ GREEN ☒ PURPLE ☐ ANNUAL
4. Permit Classification (Specify): ☐ SINGLE TRIP ONLY

CALTRANS REPRESENTATIVE: D. WilliamsTITLE: P.V.I.

Remarks:



SL400 Truck Crane Standard Boom

BOOM LENGTH (FEET)	RADIUS (FEET)	BOOM ANGLE (DEGREES)	TIP HEIGHT (FEET)	CAPACITIES ON OUTRIGGERS 360° ROTATION (LBS.)					
				ZERO COUNTERWEIGHT	74,000 COUNTERWEIGHT	114,000 COUNTERWEIGHT	148,000 COUNTERWEIGHT	188,000 COUNTERWEIGHT	210,000 COUNTERWEIGHT
210 (60m)	80	86.6	229	NOT APPLICABLE	46,600	66,100	78,900	95,500	129,000
	90	86.7	301		40,000	54,300	65,400	79,900	91,800
	100	83.6	196		32,400	45,300	55,100	67,900	79,200
	110	80.5	191		26,200	36,200	47,300	56,400	67,700
	120	57.3	184		21,200	32,100	42,400	50,700	59,100
	130	54.0	177		17,100	27,100	34,800	44,400	52,100
	140	50.5	169		13,700	22,800	29,900	39,100	46,100
	150	46.8	160		10,800	19,200	25,900	34,400	41,100
	160	42.9	150		8,300	16,200	22,300	30,300	36,700
	170	38.7	138		6,100	13,800	19,200	26,700	32,700
	180	34.0	124		4,200	11,200	16,800	23,000*	29,300
220	190	28.6	107	NOT APPLICABLE	2,800	8,200	14,300	19,800*	26,200
	200	22.0	88					16,000*	23,600
	210	12.4	52					12,000*	20,800*
	37	82.2	227			218,000*	218,000*	218,000*	204,900*
	40	81.4	226			201,800*	207,000*	207,000*	187,800*
	50	76.7	224			140,200	163,800	183,300*	175,000*
	60	76.0	222			134,400	122,800	148,700	166,800*
	70	73.3	219			81,400	98,500	118,500	129,900*
	80	70.6	216			66,400	78,300	94,900	109,400
	90	67.8	212			53,600	64,800	79,200	90,900
	100	64.9	207			44,800	54,400	67,200	77,500
240	110	62.0	202	NOT APPLICABLE		37,400	48,300	57,700	67,600
	120	59.0	196			31,300	39,800	50,000	58,400
	130	55.9	190			26,200	33,900	43,700	51,300
	140	52.6	182			21,900	29,300	38,300	45,400
	150	49.2	174			18,200	24,900	33,600	40,300
	160	45.7	165			15,200	21,400	29,300	35,800
	170	41.8	154			12,800	18,300	25,800	31,800
	180	37.3	142			10,200	15,800	22,600	28,300
	190	33.1	127			8,200	13,300	19,900*	25,300
	200	27.9	110					16,200*	22,800
	210	21.5	87					13,000*	20,200
260	220	12.1	80					9,400*	17,800*
	39	82.3	247	NOT APPLICABLE		204,000*	204,000*	204,000*	185,900*
	40	82.1	246			201,100*	201,200*	201,200*	183,800*
	50	76.7	245			139,500	162,900*	173,200*	162,900*
	60	77.2	243			113,700	122,100	145,900*	144,500*
	70	74.8	240			86,700	96,900	115,400	128,100*
	80	72.3	237			64,700	77,500	94,100	107,100*
	90	69.7	233			52,900	64,300	78,600	90,200
	100	67.1	229			43,900	53,700	66,900	76,800

* Indicates ratings limited by factors other than tipping.



SL400 Truck Crane Standard Boom

BOOM LENGTH (FEET)	RADIUS (FEET)	BOOM ANGLE (DEGREES)	TIP HEIGHT (FEET)	CAPACITIES ON OUTRIGGERS 360° ROTATION (LBS)					
				ZERO COUNTERWEIGHT	74,000 COUNTERWEIGHT	114,000 COUNTERWEIGHT	145,000 COUNTERWEIGHT	185,000 COUNTERWEIGHT	215,000 COUNTERWEIGHT
190	33	82.1	197	NOT APPLICABLE	224,600*	24,460*	244,600*	244,600*	226,000*
	35	81.5	197		204,000	237,200*	237,200*	237,200*	220,400*
	40	80.0	198		161,200	232,600*	227,700*	233,900*	207,400*
	50	76.9	194		110,100	143,400	183,900	180,100*	148,500*
	60	73.8	191		81,300	105,000	123,300	147,200	140,500*
	70	70.8	187		62,800	82,200	97,300	115,500	121,800*
	80	67.3	183		49,900	66,400	79,200	95,800	109,300
	90	64.0	179		40,400	54,700	65,600	80,300	92,000
	100	60.8	173		33,000	45,900	55,600	68,400	78,700
	110	57.3	167		26,900	38,700	47,500	58,000	68,200
	120	53.3	160		22,000	32,900	41,000	51,400	59,700
	130	49.4	152		17,900	27,800	35,600	45,100	52,800
	140	45.2	142		14,800	23,700	30,800	39,800	46,900
	150	40.8	131		11,700	20,200	26,800	35,300	41,900
200	160	35.8	118		9,300	17,200	23,400	31,200*	37,700
	170	30.1	102		7,300	14,700	20,400	26,600*	33,900
	180	25.2	82					22,200*	30,800
	190	21.1	60					17,900*	27,300*
	34	82.2	207		214,700*	239,800*	239,800*	239,800*	215,800*
	35	81.9	207		204,800	232,800*	232,800*	232,800*	213,100*
	40	80.5	208		160,000	201,600*	215,200*	215,200*	200,400*
	50	77.8	204		109,700	138,900	183,400	194,500*	177,900*
	60	74.8	201		83,700	104,400	122,800	145,700	158,800*
	70	71.8	198		62,100	81,600	96,700	116,300	130,400*
	80	68.5	194		49,200	65,700	78,500	95,200	108,600
	90	65.4	190		39,700	54,000	65,100	79,800	91,300
	100	62.2	185		32,100	45,100	54,900	67,800	78,000
	110	58.9	179		26,000	38,000	46,800	58,200	67,500
210	120	55.4	172		21,100	32,000	40,200	50,800	59,000
	130	51.8	165		17,000	27,000	34,700	44,300	52,000
	140	48.1	156		13,800	22,800	29,900	39,300	46,100
	150	44.0	146		10,800	19,300	25,800	34,400	41,100
	160	39.7	135		8,300	16,200	22,400	30,300	36,800
	170	34.9	121		6,300	13,700	19,400	26,800	32,900
	180	29.3	106					22,800	29,500
	190	22.8	84					18,700	26,700
	200	12.7	61					14,400	23,700*
	34	82.3	217		205,900	225,800*	225,800*	225,800*	203,200*
210	40	80.9	218		161,800	201,800*	208,200*	208,200*	181,400*
	50	78.2	214		110,300	143,800	184,000	177,500*	170,000*
	60	75.4	212		81,300	104,800	123,300	147,200	151,700*
	70	72.5	209		62,800	82,000	97,100	116,700	130,800*

* Indicates ratings limited by factors other than tipping

**SL400 Truck Crane Standard Boom**

BOOM LENGTH (FEET)	RADIUS (FEET)	BOOM ANGLE (DEGREES)	TP HEIGHT (FEET)	CAPACITIES ON OUTRIGGERS 360° ROTATION (LBS)					
				ZERO COUNTERWEIGHT	74,000 COUNTERWEIGHT	114,900 COUNTERWEIGHT	145,900 COUNTERWEIGHT	185,000 COUNTERWEIGHT	215,000 COUNTERWEIGHT
165 (cont.)	75	88.7	155	NOT APPLICABLE	63,300	82,700	97,800	117,400	133,300
	80	82.7	150		50,500	67,000	79,800	95,400	109,900
	85	76.8	144		41,000	55,400	66,500	80,900	92,800
	90	70.9	137		33,800	45,500	55,200	68,100	79,500
	95	64.9	129		27,900	38,500	46,300	56,800	66,000
	100	58.9	120		23,000	32,500	40,500	50,200	58,800
	105	52.9	108		19,100	26,500	33,600	41,300	49,700
	110	46.9	94		15,800	21,500	27,100	33,600*	40,000
	115	40.9	79					28,300*	34,200
	120	34.9	63					28,800*	35,800*
175	30	82.2	177		258,700*	287,900*	306,600*	309,600*	293,500*
	35	80.5	176		204,400	244,700*	267,500*	276,100*	271,600*
	40	78.8	175		160,700	202,800	227,400*	248,900*	262,000*
	45	75.3	173		109,800	140,100	160,500	180,800*	202,200*
	50	71.8	170		81,000	104,700	123,100	147,000	166,800*
	55	68.2	166		62,800	82,000	97,100	116,700	132,100*
	60	64.5	161		49,700	66,200	79,000	95,700	109,100
	65	60.9	156		40,300	54,600	66,700	80,200	91,900
	70	57.3	150		32,900	45,700	56,500	68,300	78,700
	75	53.7	142		26,900	38,700	47,500	58,000	68,200
	80	49.9	134		22,000	32,800	41,000	51,400	59,800
	85	46.2	124		18,100	28,000	35,700	45,200	52,900
	90	42.5	112		14,800	23,600	31,000	40,000*	47,100
	95	38.8	97		12,100	20,500	27,100	34,000*	42,200
	100	35.1	77					26,600*	33,100
185	30	82.3	187		246,400*	287,400*	296,900*	298,900*	277,400*
	35	81.0	187		205,100	245,100*	267,500*	275,300*	261,100*
	40	79.4	186		161,300	203,000*	227,700*	248,900*	262,600*
	45	78.2	183		119,200	149,500	169,900	190,800*	202,300*
	50	72.8	180		81,300	105,000	123,400	147,300	160,800*
	55	69.5	177		62,800	82,200	97,300	116,900	132,000*
	60	66.0	172		49,900	66,400	79,200	95,800	109,300
	65	62.4	167		40,400	54,700	66,800	80,300	92,000
	70	58.7	162		32,900	45,700	56,500	68,300	78,700
	75	54.9	155		26,800	38,700	47,500	58,000	68,200
	80	50.9	147		21,900	32,800	41,000	51,300	59,700
	85	46.8	138		17,900	27,800	35,800	45,000	51,700
	90	42.9	127		14,500	23,700	30,800	39,800	46,900
	95	38.8	115		11,700	20,200	26,700	33,000*	41,900
	100	34.9	100		9,300	17,200	23,300	29,600*	37,700
	105	30.9	83					24,800*	31,900
	110	26.9	65					19,900*	26,100*

* Indicates ratings limited by factors other than lifting.



SL400 Truck Crane Standard Boom

BOOM LENGTH (FEET)	RADIUS (FEET)	BOOM ANGLE (DEGREES)	TIP HEIGHT (FEET)	CAPACITIES ON OUTRIGGERS 360° ROTATION (LBS)					
				ZERO COUNTERWEIGHT	74,000 COUNTERWEIGHT	114,000 COUNTERWEIGHT	145,000 COUNTERWEIGHT	185,000 COUNTERWEIGHT	216,000 COUNTERWEIGHT
130	29	82.0	137	225,300	355,600*	394,800*	394,400*	438,400*	425,400*
	30	79.8	137	148,400	256,400*	299,800*	318,400*	340,800*	357,100*
	35	77.1	135	128,100	204,100	245,800*	259,400*	290,200*	305,600*
	40	75.3	134	83,300	160,800	202,800	232,700*	250,900*	269,600*
	50	73.8	131	54,400	110,400	143,700	164,700	194,800	206,800*
	60	65.8	127	36,100	81,800	105,900	123,900	147,800	164,900*
	70	60.8	121	27,500	63,800	83,100	96,200	117,800	133,700
	80	55.8	116	19,700	50,900	67,400	80,200	96,900	110,300
	90	50.2	107	14,000	41,800	55,900	67,000	81,500	93,200
	100	43.8	97		34,500	47,200	57,000	69,600	82,100
	110	38.8	85		29,800	40,300	48,100	58,300*	69,800
	120	28.4	69					49,400*	61,500
140	120	18.1	43					38,600*	54,900
	29	82.2	147	204,700	322,200*	330,500*	330,500*	330,500*	326,300*
	30	80.5	147	148,400	266,600*	300,100*	318,500*	318,500*	316,300*
	35	78.4	146	108,200	204,200	245,800*	269,800*	290,800*	297,200*
	40	76.3	145	83,500	161,000	202,900	228,800*	251,200*	266,000*
	50	72.1	141	54,800	110,600	140,300	164,300	194,800	206,200*
	60	67.7	138	38,300	82,700	108,800	124,200	148,700	164,600*
	70	63.1	133	27,800	63,800	85,300	96,400	118,000	135,000*
	80	58.4	127	20,100	51,200	67,700	80,500	97,100	113,000*
	90	53.4	120	14,300	41,900	56,200	67,300	81,600	93,900
	100	48.0	111	10,000	34,800	47,400	57,300	70,000	85,400
	110*	42.1	101		29,100	40,600	49,400	60,800	75,700
150	120	35.4	88		24,400	35,000	43,000	52,400*	61,800
	130	27.3	71					44,000*	55,000
	140	19.4	44					35,800*	49,800
	29	82.3	157	187,800	304,700*	324,700*	324,700*	324,700*	318,000*
	30	81.2	157	148,400	256,200*	299,300*	315,500*	315,500*	308,000*
	35	79.2	156	108,000	203,900	245,200*	268,700*	289,500*	286,200*
	40	77.3	155	83,100	160,800	202,500	228,000*	250,200*	264,800*
	50	73.3	152	54,700	110,000	140,300	163,800	194,300	204,300*
	60	69.2	148	37,700	81,500	105,200	123,500	147,400	162,600*
	70	65.1	144	26,900	63,200	82,600	97,700	117,300	133,200
	80	60.7	139	19,200	52,400	68,900	79,700	96,400	109,600
	90	56.2	132	13,400	41,100	55,400	66,500	81,000	92,700
160	100	51.4	125	9,000	33,800	46,600	56,400	68,200	79,500
	110	46.2	116	5,600	28,100	38,700	48,900	59,900	69,200
	120	40.8	105	2,800	23,300	34,100	42,100	52,900	61,900
	130	34.1	91		19,500	28,400	36,900	45,200*	54,100
	140	28.3	73					36,000*	48,400
	150	14.9	45					30,700*	43,700*
	29	82.1	167		273,900*	310,700*	318,300*	316,000*	300,500*
	30	81.7	167		256,300*	298,800*	312,900*	312,900*	301,400*
	35	79.9	166		204,600	245,400*	268,800*	284,700*	278,500*
	40	78.1	166		161,100	203,300	228,200*	250,300*	268,300*
	50	74.4	162		110,900	140,800	164,700	194,800	204,000*
	60	70.8	158		81,700	105,400	123,700	147,600	162,500*

* Indicates ratings limited by factors other than tipping.



SL400 Truck Crane Standard Boom

BOOM LENGTH (FEET)	RADIUS (FEET)	BOOM ANGLE (DEGREES)	TIP HEIGHT (FEET)	CAPACITIES ON OUTRIGGERS 360° ROTATION (LBS.)					185,000 COUNTERWEIGHT	216,000 COUNTERWEIGHT
				ZERO COUNTERWEIGHT	74,600 COUNTERWEIGHT	114,800 COUNTERWEIGHT	145,600 COUNTERWEIGHT	185,000 COUNTERWEIGHT		
90	19	82.3	96	368,800*	450,000*	480,800*	504,300*	535,100*	544,300*	
	20	81.7	96	324,000*	428,400*	467,800*	480,400*	509,800*	535,600*	
	25	78.4	97	222,500	338,500*	367,300*	367,500*	411,400*	430,960*	
	30	75.1	96	147,300	280,600*	302,800*	321,200*	343,660*	360,260*	
	35	71.8	94	107,800	233,900	247,100*	272,300*	293,100*	308,600*	
	40	68.4	92	85,700	181,200	203,100	229,400*	253,600*	268,560*	
	50	61.2	87	55,400	111,400	141,700	166,100	186,200*	210,960*	
	60	53.5	80	39,900	65,300	107,000	128,300	146,200*	168,600	
	70	44.9	71	29,300*	46,300	84,800	93,800	114,900*	136,300	
	80	34.5	58		52,800	89,400	81,200	81,700*	112,300	
100	90	23.8	37				71,200*		84,800	
	21	81.9	108	267,500*	430,500*	458,300*	467,900*	486,100*	508,960*	
	25	78.6	107	223,800	337,900*	368,800*	368,800*	410,800*	436,200*	
	30	75.7	106	148,100	280,400*	302,800*	320,600*	343,100*	359,560*	
	35	73.7	104	108,400	234,300	247,000*	271,700*	292,860*	307,960*	
	40	70.6	103	83,900	181,400	203,300	230,100*	253,200*	267,960*	
	50	64.4	96	55,400	111,400	141,700	166,100	186,200*	209,960*	
	60	57.7	92	39,900	65,300	108,800	128,200	148,400*	168,400	
	70	50.5	85	29,000	46,600	84,500	94,500	116,360*	136,100	
	80	42.4	75	21,500	52,500	89,000	81,800	86,800*	111,960	
110	90	32.8	61		43,300	57,600	88,400*		94,800	
	100	18.9	38					61,100*	81,800	
	22	82.1	108	271,800*	396,200*	418,300*	437,600*	464,000*	486,700*	
	25	80.8	107	223,900	337,100*	368,000*	368,000*	408,960*	429,360*	
	30	77.9	106	147,800	280,000*	301,200*	318,800*	342,360*	356,700*	
	35	75.2	105	108,200	234,000	248,400*	270,800*	291,600*	307,100*	
	40	72.5	103	83,500	181,000	202,800	229,600*	252,300*	267,100*	
	50	66.9	109	54,900	110,960	141,200	164,800	182,500*	206,100*	
	60	61.0	104	38,800	62,800	108,300	124,600	146,500	167,600*	
	70	54.7	97	28,500	64,800	83,000	93,000	118,900	134,600	
120	80	47.9	89	20,800	51,800	88,400	81,200	87,800	111,300	
	90	40.3	78	15,200	42,700	57,000	88,100	80,800*	84,300	
	100	31.0	63		38,700	48,400	58,100*	69,400*	81,300	
	110	17.8	40					52,700*	75,200	
	23	82.3	128	257,700*	387,400*	380,800*	417,500*	440,400*	456,100*	
	25	81.4	127	224,300	336,000*	364,800*	364,800*	408,960*	428,200*	
	30	78.9	126	147,800	259,400*	300,100*	318,700*	341,100*	357,500*	
	35	76.5	125	107,700	203,700	248,100*	268,700*	290,600*	306,860*	
	40	74.0	124	83,700	180,600	202,800	228,800*	251,200*	266,860*	
	50	68.9	120	64,300	110,300	143,800	164,000	194,500	207,700*	
130	60	63.8	116	38,100	81,800	108,800	124,000	147,800	166,700*	
	70	58.1	110	27,600	63,700	83,200	88,200	117,960	133,700*	
	80	52.2	102	19,900	51,100	67,600	83,400	87,000	110,500	
	90	45.7	90		41,800	56,200	67,300	81,700	89,400	
	100	38.4	82		34,800	47,500	57,300	68,700*	83,400	
	110	29.8	66					59,800*	73,200	
	120	18.8	41					49,400*	62,200	

* includes ratings limited by factors other than tipping.



SL400 Truck Crane Standard Boom

BOOM LENGTH (FEET)	RADIUS (FEET)	BOOM ANGLE (DEGREES)	TIP HEIGHT (FEET)	CAPACITIES ON OUTRIGGERS 360° ROTATION (LBS)					
				ZERO COUNTERWEIGHT	74,000 COUNTERWEIGHT	114,000 COUNTERWEIGHT	145,000 COUNTERWEIGHT	185,000 COUNTERWEIGHT	215,000 COUNTERWEIGHT
45	13	82.3	53	501,200*	640,500*	883,300*	1,101,400*	1,303,300*	1,503,300*
	15	79.7	53	490,400*	632,800*	870,000*	1,089,900*	1,291,000*	1,491,000*
	20	73.1	51	330,000*	429,800*	459,700*	482,300*	511,700*	538,600*
	25	66.1	48	217,100	313,400*	354,900*	387,100*	413,300*	432,700*
	30	58.7	46	144,600	238,200	271,400*	298,400*	328,000*	360,000*
	35	50.8	42	105,800	188,600*	214,500*	234,900	260,800*	310,300*
55	40	41.1	37	81,900	150,900*	172,200*	188,900*	213,100*	268,800*
	15	81.8	63	490,400*	632,800*	870,000*	1,089,900*	1,291,000*	1,491,000*
	20	76.2	62	332,000*	429,800*	459,400*	482,300*	511,400*	538,200*
	25	70.7	60	219,200	327,700*	368,600*	389,000*	413,000*	432,400*
	30	65.0	58	146,400	252,600*	290,800*	312,900*	345,300*	391,700*
	35	58.9	55	106,700	202,000*	229,700*	251,100*	279,000*	310,100*
65	40	52.4	51	82,800	160,300	188,400*	208,300*	229,600*	268,700*
	50	36.7	40	55,300	111,000	130,800*	143,900*	160,800*	211,700*
	15	82.0	73	458,600*	620,000*	855,700*	1,083,400*	1,298,400*	1,508,500*
	20	78.4	72	330,400*	429,600*	459,200*	481,300*	511,300*	536,300*
	25	73.8	71	220,800	337,500*	388,000*	388,000*	412,900*	450,300*
	30	69.1	69	146,500	261,000*	301,000*	322,500*	345,200*	391,600*
75	35	64.2	66	107,500	203,500	239,200*	261,400*	280,400*	310,000*
	40	59.1	64	83,800	161,100	187,900*	210,900*	240,300*	268,700*
	50	47.8	52	55,800	111,600	141,800*	155,800*	173,800*	211,700*
	60	33.5	43	39,800	83,600	104,000*	114,000*	128,500*	170,100
	17	82.3	83	429,700*	600,700*	834,000*	1,081,200*	1,304,300*	1,503,300*
	20	80.0	83	330,200*	429,800*	459,300*	480,900*	510,400*	534,200*
85	25	76.1	81	221,700	338,900*	387,800*	388,000*	412,000*	491,400*
	30	72.0	80	148,800	261,000*	302,600*	321,800*	344,300*	390,700*
	35	67.9	78	107,600	203,600	244,800*	267,900*	289,500*	308,100*
	40	63.7	75	83,900	161,000	202,900	222,800*	247,800*	268,900*
	50	54.8	69	55,300	111,300	141,800	162,100*	180,300*	210,900*
	60	44.2	59	39,900	83,300	107,000	122,800*	137,400*	168,800
95	70	31.0	45	29,400	65,400	84,600*	93,400*	108,100*	137,100
	19	81.8	93	396,200*	490,200*	680,700*	904,400*	1,098,300*	1,300,200*
	20	81.2	93	324,400*	426,600*	497,900*	480,900*	610,000*	633,800*
	25	77.7	92	222,700	338,600*	387,900*	387,800*	413,800*	491,000*
	30	74.2	90	147,400	260,700*	302,700*	321,500*	343,900*	360,300*
	35	70.7	88	106,000	204,000	247,200*	270,400*	290,200*	308,700*
105	40	67.0	86	83,700	161,300	203,200	227,500*	250,000*	268,600*
	50	59.3	81	55,400	111,400	141,700	165,100	188,100*	210,800*
	60	50.9	73	39,900	83,300	107,000	125,300	143,000*	168,800
	70	41.2	63	25,500	65,500	84,800	99,800	112,400*	138,300
	80	29.0	48					88,200*	112,300

* Indicates ratings limited by factors other than lifting.



SL400
Ratings with HYDRORIGGER™
Capacity Chart
 (Thousands of Pounds)

MAIN BOOM — FREE — OVER REAR ONLY (+/- 5 deg) — 75% tipping

COUNTERWEIGHT: Upper 74,000 lbs. / Front Bumper 18,000 lbs.

RADIUS (FEET)	LENGTH OF BOOM (FEET)		
	45	100	160
15	197		
20	170		
25	141	128	
30	138	117	91
35	127	106	85
40	104	98	76
50	—	74	67
60	—	56	55
80	—	38	34
100	—	24	22

RATINGS INCLUDE WEIGHTS OF THE LOAD, BLOCK, SLINGS AND ANY OTHER LIFTING DEVICES.

CHART SL400.018





SL400 HYDRORIGGER™ (Patented)

HYDRORIGGER™
USED FOR FREE RATINGS AND
TRAVEL ON JOBSITE WITH
ALL COUNTERWEIGHT



(ALSO GENERATES INCREASED SIDE
STABILITY WHEN TRAVELING WITH
LONG BOOM, TOWER OR HEAVY LIFT)



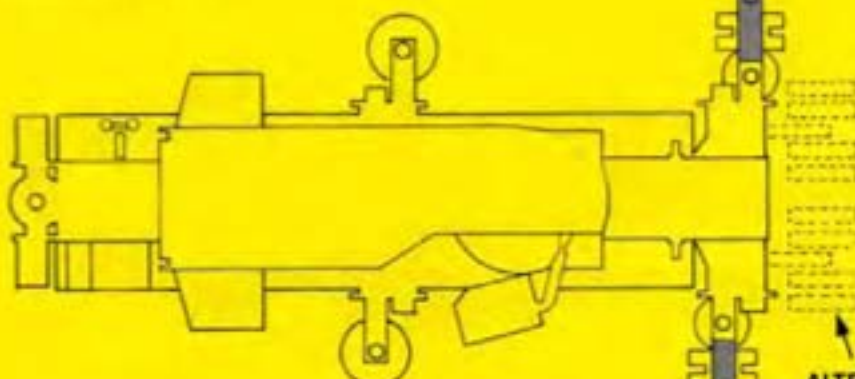
REAR VIEW



18,000 LBS.
BUMPER COUNTERWEIGHT

74,500 LBS.
BASE COUNTERWEIGHT

1400/24
DUAL TIRES



TOP VIEW

ALTERNATIVE
POSITION





SL400
Main Boom
Capacity Chart with
XC COUNTERWEIGHT™
 (Thousands of Pounds)

MAIN BOOM — ON OUTRIGGERS (5) — 360 DEGREE — 85% TIPPING

COUNTERWEIGHT: Upper 185,000 lbs. / Front Bumper 18,000 lbs.
 XC COUNTERWEIGHT™ 100,000 lbs.

LOAD RADIUS (ft.)	MAIN BOOM LENGTH — (ft.)												
(ft.)	45	65	85	100	120	140	160	180	200	220	240	260	280
13	800												
15	730												
16		666											
20	605	600	579										
21				522									
25	500	493	489	488	461								
26						339							
30	428	418	414	412	410	328	313						
31								296					
35	356	363	358	357	354	312	293	275	232				
37										218			
40		320	316	314	311	289	272	254	215	207	201		
42												162	
50		237	247	252	249	248	236	221	186	183	173	144	138
60			194	199	201	201	199	194	166	163	151	132	122
80				134	137	140	139	138	136	135	120	106	96
100					99	103	103	103	101	100	99	89	76
120						78	79	79	79	78	77	75	59
140							61	62	62	62	61	59	46
160								49	50	50	49	47	36
180									40	40	40	38	27
200										32	32	31	20
220											25	24	14
240												14	9

RATINGS INCLUDE WEIGHTS OF THE LOAD, BLOCK, SLINGS AND ANY OTHER LIFTING DEVICES.

CHART SL400.019

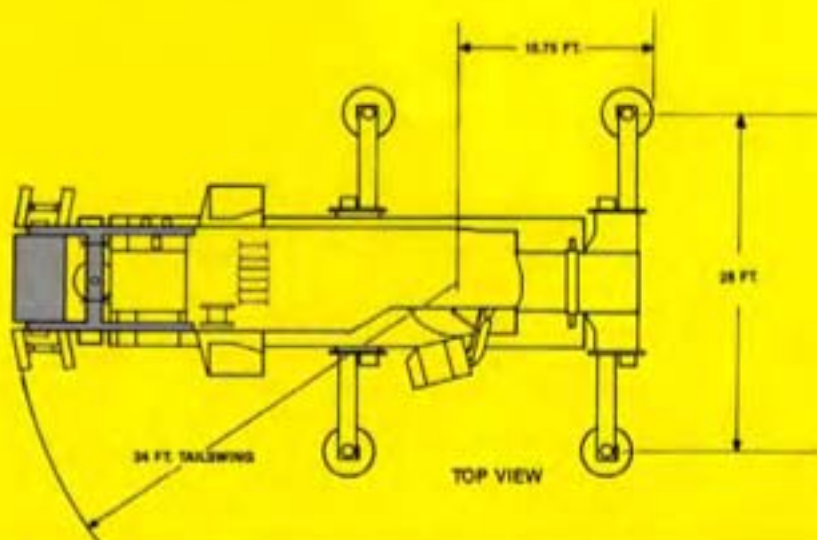




SL400 XC COUNTERWEIGHT™

(Patent Pending)

Where additional lift capacity is a priority, TWC offers various types of heavy lift systems. The **XC COUNTERWEIGHT™** shown below, is a low cost system that will increase the crane's capacity by up to 75% over standard chart values. This patented system will be an attractive feature to any user/owner.





SL400 Carrier Specifications

TYPE:	12 x 4 292 inch wheelbase.
FRAME:	Tubular boxed design using high strength alloy steel throughout.
ENGINE:	Detroit Diesel Model 8V92TA, 450 HP @ 2100 RPM. 100 Gallon fuel tank.
COOLING:	120 degree ambient cooling system.
CLUTCH:	Spicer 15.5", Model AS 1552.
TRANSMISSION-MAIN:	Eaton RTO 1561B, 18 Speed Roadranger.
TRANSMISSION-AUX:	Eaton AT 1202, 2 speed.
DROP BOX:	Single speed transfer case.
AXLES-REAR:	Rockwell High Speed Planetary, Model SPROC-1356-P.
AXLES-FRONT:	Eaton Model 24T2.
SUSPENSION:	Hydraulic-Nitrogen, front & rear.
TIRES:	Goodyear 1400 x 24-20 PRL.
BRAKES:	Servo assisted air brakes on all wheels. Parking brakes on rear axles only.
STEERING:	Ross-Garrison Hydraulic Mechanical System. 20" tilt & telescopic wheel.
OUTRIGGERS:	4 out & down type hydraulic outriggers with pin mounted 50" dia. floats. Front mounted fifth outrigger is pin connected to front bumper counterweight, with a removable 40" dia. float.
COUNTERWEIGHT:	18,000 lb. front bumper counterweight std. Used for all ratings and boom erection.
HYDRAULICS:	2,500 PSI system utilizing two gear pumps provides power for pin removal, steering, suspension and outriggers. 80 gallon reservoir.
DRIVERS CAB:	One man, 32" wide, with heater and full carrier instrumentation.
ELECTRICAL:	12 Volt, 65 amp alternator, 2 batteries.

CARRIER PERFORMANCE

SPEED ON HIGHWAY:	55 MPH
GRADEABILITY ON HIGHWAY (at wheel slip):	55%
SPEED OFF HIGHWAY (low-low 1000 RPM):	75 MPH
GRADEABILITY OFF HIGHWAY (at wheel slip):	26%
TURNING RADIUS:	70 ft.
TRAVEL TIME BETWEEN REFUELING (approx.):	5 to 6 hrs.





SL400 Crane Specifications

FRAME:	Alloy steel construction
ENGINE:	Detroit Diesel Model 8V92TA, 500 HP @ 2100 RPM. 125 Gallon fuel tank.
COOLING:	120 degree ambient cooling system.
PUMP DRIVE:	Five pad gearbox with antivibration coupling.
HYDRAULIC SYSTEM:	Closed loop system utilizing individual variable displacement piston pumps for main, auxiliary, boom hoist, swing and third drum (if ordered). Main and auxiliary pumps drive variable displacement motors with fixed displacement motors used for other functions.
CONTROL SYSTEM:	Electronic joy stick controls for all functions. Control Load Lowering is standard on main and auxiliary hoists, with free-fall available as an option on the auxiliary hoist.
DRUMS:	Main, auxiliary, boom hoist and optional third drum are all equipped with Labus grooving. In addition, each hoist has an in-drum planetary gearing and spring set-hydraulic release parking brake. Control Load Lowering is complimented by spring set locking pawls. A hydraulic disc brake is supplied with the auxiliary hoist free fall option.
BOOM SUSPENSION:	17 part boom hoist utilizing a 30 foot live mast.
BOOM:	Tubular chord design, 102" wide x 54" deep. Basic working boom consists of a 25' inner, 45' center and 20' outer. Boom outer is equipped with a 10 sheave offset boom tip. Nylon sheaves are used throughout.
SWING:	Hydrostatic swing using a variable displacement piston pump, fixed displacement piston motor, planetary gearbox and pinion with spring set hydraulic brake. Swing bearing is 106" diameter.
OPERATORS CAB:	Modular design retracts to 11' travel width and extends hydraulically to provide increased operator visibility while working. Sound insulation, air conditioner, heater, defroster, windshield washer and wiper are standard.
COUNTERWEIGHT:	185,000 lb., 4 piece counterweight, underhung from crane structure. Hydraulic removal on carrier deck.
ELECTRICAL:	12 Volt, 65 amp alternator, 2 batteries

CRANE PERFORMANCE

MAIN HOIST LINE PULL:	55,000 lbs. max.
MAIN HOIST LINE SPEED:	275 FPM max.
AUXILIARY HOIST LINE PULL:	55,000 lbs. max.
AUXILIARY HOIST LINE SPEED:	275 FPM max.
THIRD DRUM LINE PULL:	55,000 lbs. max.
THIRD DRUM LINE SPEED:	225 FPM max.
SWING SPEED (single swing motor):	2 RPM
SWING SPEED (dual swing motor):	1 RPM





SL400

30 Ton Jib

Capacity Chart

(Thousands of Pounds)

30 TON JIB — 5 DEG. OFFSET — ON OUTRIGGERS — 360 DEGREE — 85%

COUNTERWEIGHT: Upper 185,000 lbs. / Front Bumper 18,000 lbs.

BOOM LENGTH (ft.)	LOAD RADIUS (ft.)	JIB LENGTH — (ft.)					
		30	40	50	60	70	80
200	40	60.0	60.0				
	60	60.0	60.0	60.0	60.0		
	80	60.0	60.0	60.0	60.0	60.0	57.7
	100	60.0	60.0	60.0	56.7	50.1	45.9
	120	50.8	51.2	51.6	47.4	41.1	38.0
	140	39.2	39.4	39.8	40.0	35.1	32.2
	160	30.8	30.8	31.0	31.3	30.2	30.4
	180	22.8	22.9	22.9	23.0	23.2	23.6
	200	14.5	14.7	14.9	15.2	15.4	15.8

BOOM LENGTH (ft.)	LOAD RADIUS (ft.)	JIB LENGTH — (ft.)						
		30	40	50	60	70	80	90
240	60	60.0	60.0	60.0	60.0	60.0	60.0	48.1
	80	60.0	60.0	60.0	60.0	60.0	56.0	45.5
	100	60.0	60.0	60.0	59.9	56.4	50.2	40.1
	120	49.1	49.5	49.8	50.0	46.9	41.6	34.7
	140	37.3	37.7	38.0	38.2	38.4	36.8	29.0
	160	28.3	28.7	29.0	29.2	29.4	29.4	27.5
	180	21.6	22.0	22.3	22.5	22.7	23.0	22.7
	200	16.5	16.9	17.2	17.4	17.6	17.8	17.5
	220	11.3	11.6	11.8	11.8	12.0	12.3	12.0
	240	5.5	5.8	5.8	6.0	6.0	6.3	6.0

RATINGS INCLUDE WEIGHTS OF THE LOAD, BLOCK, SLINGS AND ANY OTHER LIFTING DEVICE.



CHART SL400.J010





SL400 **Main Boom** **Capacity Chart** (Thousands of Pounds)

MAIN BOOM — ON OUTRIGGERS (5) — 360 DEGREE — 85% TIPPING

COUNTERWEIGHT: Upper 185,000 lbs. / Front Bumper 18,000 lbs.

LOAD RADIUS (ft.)	45	65	85	100	120	140	160	180	200	220	240	260	280
13	800												
15	668												
16		629											
20	511	511	510										
21				486									
25	413	412	411	410	408								
26						330							
30	329	345	343	343	341	318	312						
31								296					
35		290	293	292	290	290	284	275	232				
37										218			
40		240	253	253	251	251	250	248	215	207	201		
42												162	
50			186	191	194	194	194	193	184	180	173	144	138
60			143	148	147	148	147	147	146	146	145	132	122
80				95	97	97	96	95	95	94	94	93	93
100					68	70	69	68	67	67	66	65	65
120						52	52	51	50	50	49	47	47
140							39	39	39	38	37	35	35
160								29	30	29	28	26	26
180										22	21	20	19
200											16	14	14
220												10	9
240													6

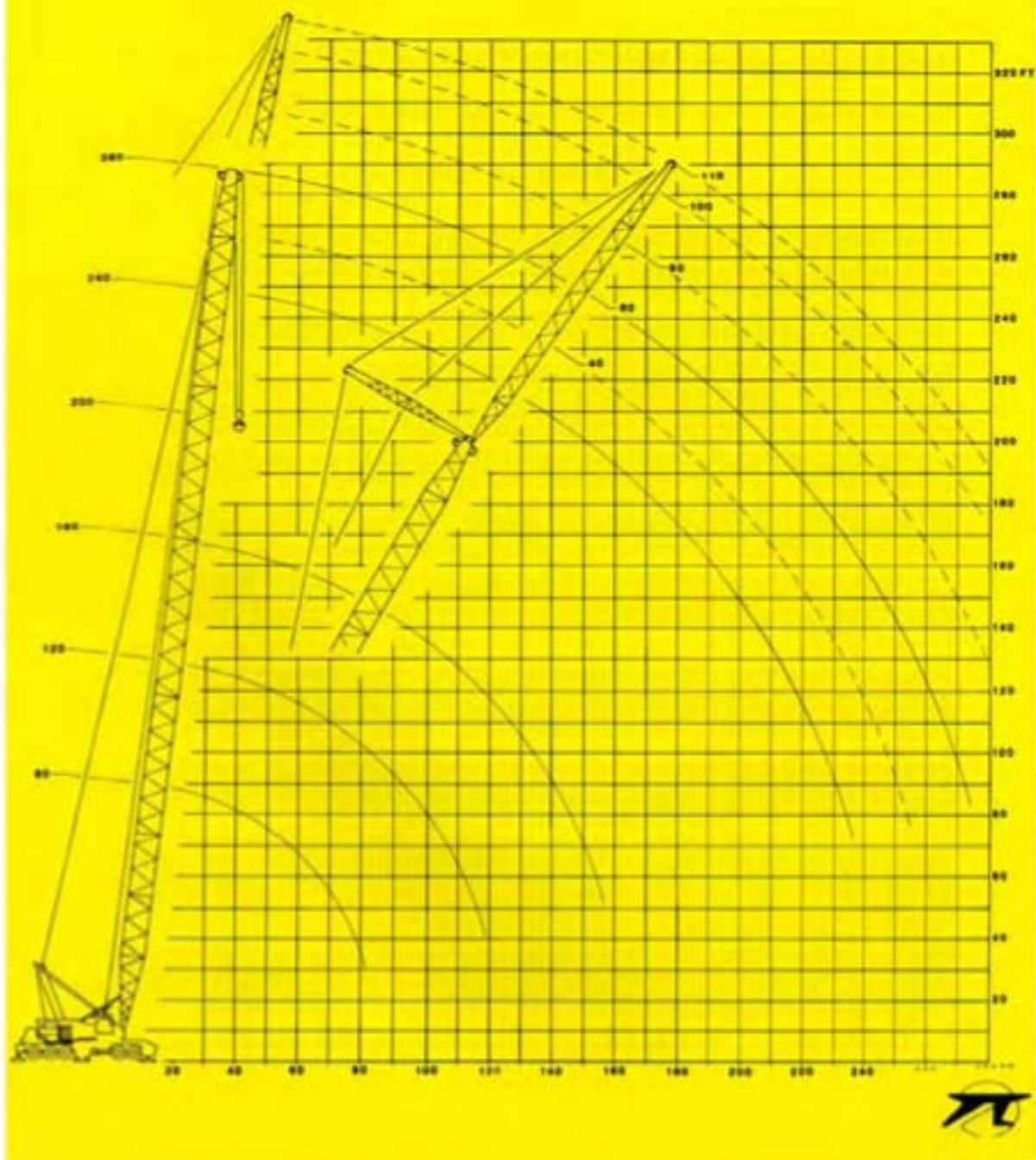
RATINGS INCLUDE WEIGHTS OF THE LOAD, BLOCK, SLINGS AND ANY OTHER LIFTING DEVICES.

CHART SL400.017





SL400 Range Chart





TOP VIEW

40" DIA.

27'8"

22'8"

20'11"

8"

60" DIA.

16'0"

11'0"

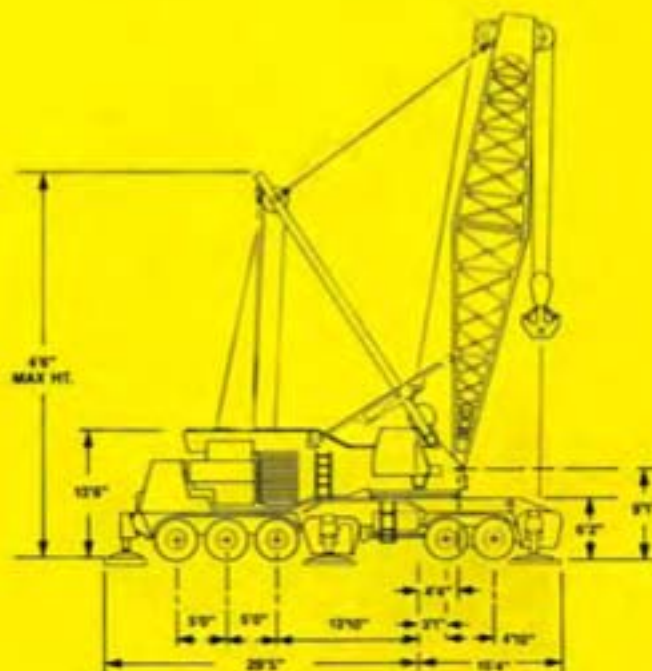
13'4"

28'0"

8"

8'6"

12'10"





**TRANS WORLD
CRANE**

SL400



400 TON LATTICE-BOOM TRUCK CRANE



TWC SL400

(Street Legal 400 Ton) Capacity

Lattice Boom Truck Crane

280' Standard Boom

- (1) 25' Inner Section
- (1) 20' Tip
- (1) 10' Center
- (1) 20' Center
- (1) 45' Center
- (4) 50' Center
- (1) 20' (6' Assembler +14' Center)

Total 340'

30 Ton Jib

- (1) 15' Butt
- (1) 15' Tip
- (2) 10' Section(s)
- (1) 20' Section
- (1) 30' Section

Total: 90'

Special Equipment

- Equipped w/Hydroriggers
(8 Wheel System Jobsite
Transport Stabilizer)
- Low Profile Street Legal,
High Speed Transport
Boom Dolly
- Rooster Sheave With:
 - ♦ 80,000lb Capacity
 - ♦ Ball
 - ♦ Single Sheave Load Block



TWC SL400 **(Street Legal 400 Ton) Capacity** **Lattice Boom Truck Crane**

SL400 Description:

This unique machine, although originally manufactured in 1991, was reconditioned and repowered with environmentally conscious Cummins Engine(s) in 2008

Features:

- **Total Miles: $\approx$ 2,700**
- **Total Hours: Less Than 3500**
- **New Tier 3 Cummins Engine(s) on Crane Upper & Carrier**
- **New Transmission**
- **Power Train Saver**
- **State-of-the-Art Computer Electronic Control System (a.k.a. "The Crane Brain")**
- **High Speed, Low Profile Custom Dolly for Street Legal Highway Travel**
- **Equipped w/Hydroriggers Enabling Jobsite Mobility in Full Dress**
- **New Tires (14.00-24)**
- **Caltrans Certified For Annual Permit in California**
- **CARB Certified**
- **FED OSHA/CAL OSHA Crane Certification**



View thousands of Crane Specifications on

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