



**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

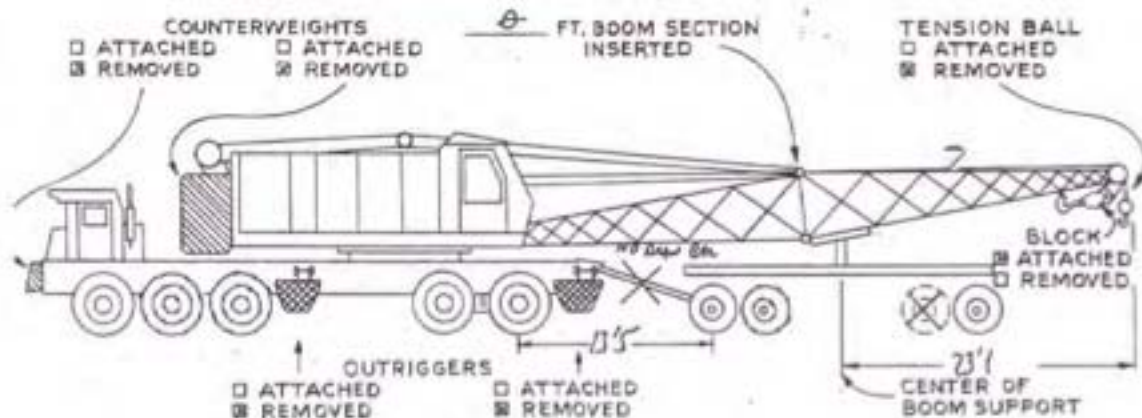
COMPANY NAME \_\_\_\_\_

MAKE AND MODEL Tareckhoff SL400

COMPANY N<sup>o</sup> \_\_\_\_\_

LICENSE N<sup>o</sup> \_\_\_\_\_

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 \_\_\_\_\_



COMPANY NAME & KRSE OR OWNER: \_\_\_\_\_ PHONE: \_\_\_\_\_ INSP. TYPE:  INITIAL  RENEWAL INSPECTION 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  ATTACHED  W/O

FRONT OUTRIGGERS:  REMOVED  ATTACHED REAR OUTRIGGERS:  REMOVED  ATTACHED FRONT TIRES: CAP. 11370 IN. SIZE 170038 L.R. N REAR TIRES: CAP. 11370 IN. SIZE 170038 L.R. N

**UPPER WORKS DATA**

MAKE: Trasworld MODEL: SL 400 SERIAL NO.: Crystal May WEIGHT CLASS (TONS): 400 FUEL LEVEL: 50

CRANE CWT:  REMOVED  ATTACHED DISTANCE FROM C OF UPPER WORKS ROTATION TO C REARMOST CARRIER AXLE: 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: SIZE 225/70R15 CAP. 1621 IN. L.R. H VEH. WIDTH: 8 FT. 6 IN. BOOM SUPPORT VEHICLE LENGTH W/O TOWBAR: 22 FT. 5 IN.

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. OV'LL 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	
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			44540		33460		14460	
PERMIT WEIGHT	54740			44740		34000		15160	

**BOOM INFORMATION**

BOOM TYPE AND DESCRIPTION:  LATTICE  BUTT  HYBR. SECT. \_\_\_\_\_ FT.  TIP  TELESCOPING  JIB ATTACHED

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

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

REAR BOOM OVERHANG: 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: 22 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 Eligibility:  SINGLE TRIP ONLY  REJECTED FOR

CALTRANS REPRESENTATIVE: D. Williams TITLE: P.V.I.

Remarks:



## SL400 Truck Crane Standard Boom

BOOM LENGTH (FEET)	RADIUS (FEET)	BOOM ANGLE (DEGREE)	TIP HEIGHT (FEET)	CAPACITIES ON OUTRIGGERS SEE ROTATION (LBS.)						
				ZERO COUNTERWEIGHT	74,000 COUNTERWEIGHT	114,000 COUNTERWEIGHT	146,000 COUNTERWEIGHT	185,000 COUNTERWEIGHT	210,000 COUNTERWEIGHT	
210 (600'*)	80	88.6	225	NOT APPLICABLE	40,000	66,130	78,000	90,000	100,000	110,000
	90	86.7	221		40,000	64,330	83,400	95,000	105,000	115,000
	100	83.6	196		30,400	49,330	58,100	67,000	75,000	82,000
	110	80.5	191		26,200	38,200	47,000	56,000	63,000	70,000
	120	57.3	184		21,200	32,130	42,400	50,700	58,100	65,000
	130	54.0	177		17,100	27,130	36,800	44,400	51,100	57,000
	140	50.5	189		13,700	22,800	29,900	36,100	42,100	48,100
	150	46.8	190		10,800	19,200	25,800	34,400	41,100	47,100
	160	42.9	150		8,300	16,200	22,300	30,300	36,700	42,700
	170	38.7	138		6,100	13,800	19,200	26,700	32,700	38,700
	180	34.0	124		4,300	11,200	16,800	23,000*	29,300	35,300
190	28.6	107	2,800	8,200	14,300	20,000*	26,200	32,000*		
200	23.0	85				16,000*	22,000*	28,000*		
210	12.4	52				12,000*	16,000*	20,000*		
220	37	82.2	227	NOT APPLICABLE	NOT APPLICABLE	218,000*	218,000*	218,000*	218,000*	218,000*
	40	81.4	226			207,000*	207,000*	207,000*	207,000*	207,000*
	50	78.7	224			140,200	163,600	180,700*	193,000*	205,000*
	60	76.0	222			134,400	122,800	148,700	165,000*	180,000*
	70	73.3	219			81,400	98,800	118,500	129,000*	139,000*
	80	70.6	216			60,400	78,200	94,900	105,400	115,400
	90	67.8	212			53,600	64,800	79,200	89,200	98,600
	100	64.9	207			44,800	54,400	67,200	77,200	86,600
	110	62.0	202			37,400	48,300	59,000	69,000	78,000
	120	59.0	196			21,300	29,800	36,800	43,000	49,000
	130	55.9	190			26,200	23,900	29,000	33,700	38,300
140	52.6	182	21,900	20,000	23,000	26,300	29,600			
150	49.2	174	18,300	16,300	19,000	22,000	25,000			
160	45.7	165	15,200	13,400	16,400	19,300	22,300			
170	41.8	154	12,800	10,300	12,800	15,800	18,800			
180	37.3	142	10,200	8,300	10,200	12,600	15,000			
190	33.1	127	8,200	6,200	8,200	10,000*	12,000*			
200	27.9	110				8,200*	10,000*			
210	21.5	87				6,400*	8,000*			
220	12.1	63				5,400*	6,800*			
240	39	82.3	247	NOT APPLICABLE	NOT APPLICABLE	204,000*	204,000*	204,000*	204,000*	
	40	82.1	246			201,200*	201,200*	201,200*	201,200*	
	50	79.7	245			139,500	162,800*	173,200*	182,900*	
	60	77.2	243			113,700	122,130	145,900*	164,200*	
	70	74.8	240			86,700	90,900	115,400	128,100*	
	80	72.3	237			64,700	77,900	94,100	107,100*	
	90	69.7	235			52,800	64,300	79,600	90,200	
100	67.1	229	43,900	53,700	66,800	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	114,000	145,000	185,000	215,000
190	33	82.1	197		224,800*	24,490*	244,800*	244,800*	228,000*
	35	81.5	197		204,000	237,290*	237,200*	237,200*	220,400*
	40	80.0	198		161,200	232,890*	227,700*	233,900*	207,400*
	50	76.9	194		110,100	143,430	183,900	180,100*	148,500*
	60	73.8	191		81,300	105,200	123,300	147,200	140,500*
	70	70.8	187		62,800	82,200	97,300	118,500	131,800*
	80	67.3	183		49,900	66,400	79,200	95,800	109,300
	90	64.0	179		40,400	54,700	65,900	80,300	92,300
	100	60.8	173		33,000	45,900	55,600	68,400	79,700
	110	57.3	167		28,800	38,700	47,500	59,000	69,200
	120	53.3	160		22,000	32,900	41,000	51,400	59,700
	130	49.4	152		17,900	27,800	35,800	45,100	52,800
	140	45.2	142		14,800	23,700	30,800	39,800	48,300
	150	40.8	131		11,700	20,200	26,800	35,300	41,900
	160	35.8	118		8,300	17,200	23,400	31200*	37,700
	170	30.1	102		7,300	14,700	20,400	26600*	33,900
180	25.2	82					22200*	30,800	
190	18.1	50					17900*	27,300*	
200	34	82.2	207	NOT APPLICABLE	214,700*	239,890*	238,800*	238,800*	215,800*
	35	81.9	207		204,800	232,890*	232,800*	232,800*	213,100*
	40	80.5	208		160,800	201800*	215,200*	215,200*	200,400*
	50	77.8	204		109,700	138,900	183,400	194,500*	177,900*
	60	74.8	201		80,700	104,400	122,800	148,700	158,800*
	70	71.8	198		62,100	81,800	96,700	118,300	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	78,200
	110	58.9	179		26,000	38,000	46,800	58,200	67,500
	120	55.4	172		21,100	32,000	40,200	50,800	59,200
	130	51.8	165		17,000	27,000	34,700	44,300	52,000
	140	48.1	156		13,800	22,800	29,800	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	34.8	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	51				14,400	23,200*		
210	35	82.3	217		205,900	225,890*	225,800*	225,800*	203,200*
	40	80.9	218		161,800	231,890*	228,200*	228,200*	191,400*
	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	118,700	130,800*

\* Indicates ratings limited by factors other than lipping

## 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	114,900	145,900	185,900	215,000
160 (cont.)	70	82.7	155	NOT APPLICABLE	63,300	82,700	97,800	117,400	133,300
	80	82.7	150		50,900	67,000	79,800	96,400	109,900
	90	58.8	144		41,000	55,400	66,500	80,900	92,900
	100	54.2	137		33,800	46,500	56,200	69,100	79,900
	110	49.6	129		27,900	38,600	48,200	59,800	69,000
	120	44.7	120		23,000	33,900	41,500	52,200	60,800
	130	39.2	108		19,100	29,000	36,600	46,100	53,700
	140	33.0	94		15,800	25,000	32,100	39,600*	48,000
150	25.4	75				32,300*	43,200		
160	16.4	49				28,800*	38,800*		
170	30	82.2	177	NOT APPLICABLE	258,700*	287,900*	306,900*	306,000*	292,500*
	35	80.5	176		204,400	244,700*	267,500*	276,100*	271,600*
	40	78.8	175		161,700	202,800	227,400*	248,900*	252,000*
	50	75.3	173		109,800	140,100	162,900	182,800*	202,200*
	60	71.8	170		81,000	104,700	123,100	147,000	165,800*
	70	68.2	166		62,600	82,000	97,100	116,700	132,100*
	80	64.5	161		49,700	65,200	79,000	95,700	109,100
	90	60.9	156		40,300	54,600	66,700	83,200	97,900
	100	56.7	150		32,900	45,700	56,500	69,300	79,700
	110	52.5	142		26,900	38,700	47,500	59,000	68,200
	120	48.3	134		22,000	32,800	41,000	51,400	59,800
	130	43.2	124		18,100	28,000	35,700	45,200	52,900
	140	38.0	112		14,800	23,600	31,000	40,000*	47,100
	150	31.9	97		12,100	20,500	27,100	34,000*	42,200
160	24.8	77				28,600*	36,100		
170	13.9	47				22,800*	34,000*		
180	37	82.3	187	NOT APPLICABLE	246,400*	287,400*	296,900*	296,900*	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*	242,600*
	50	76.2	183		110,200	140,500	163,900	182,800*	202,300*
	60	72.8	180		81,300	105,000	125,400	147,300	160,800*
	70	69.6	177		62,800	82,200	97,300	116,900	132,000*
	80	66.0	172		49,900	66,400	79,200	95,800	109,200
	90	62.4	167		40,400	54,700	65,800	80,300	92,000
	100	58.7	160		32,900	45,700	56,800	69,300	79,700
	110	54.9	155		26,800	38,700	47,500	59,000	68,200
	120	50.9	147		21,900	32,800	41,000	51,300	59,700
	130	46.8	138		17,900	27,800	35,800	45,000	51,700
	140	41.9	127		14,500	23,700	30,800	38,800	46,900
	150	36.8	115		11,700	20,200	26,700	33,000*	41,900
160	31.0	100	9,300	17,200	23,200	29,600*	37,700		
170	23.9	83				24,900*	33,900		
180	13.5	49				19,900*	30,100		

\* 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	216,000 COUNTERWEIGHT
130	29	82.0	137	225,300	395,600*	394,800*	394,400*	438,400*	420,400*
	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*	269,400*	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	184,300	194,900	206,800*
	60	65.8	127	36,100	81,800	105,900	123,900	147,900	164,900*
	70	60.8	121	27,900	63,800	83,100	96,200	117,800	130,700
	80	55.8	116	19,700	50,800	67,400	80,200	96,900	110,300
	90	53.2	117	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		28,800	40,300	49,100	59,300*	69,800
	120	28.4	69					49,400*	61,900
	130	18.1	43					39,600*	54,900
140	26	82.2	147	204,700	322,200*	330,500*	330,500*	330,500*	326,300*
	30	80.6	147	148,400	266,800*	300,100*	318,500*	318,500*	318,300*
	35	78.4	146	128,200	204,200	245,800*	269,800*	290,900*	297,200*
	40	76.3	145	83,500	161,000	202,900	228,800*	251,200*	268,000*
	50	72.1	141	54,800	110,600	140,300	184,300	194,900	208,200*
	60	67.7	138	38,300	82,700	108,800	124,200	148,100	164,600*
	70	63.1	133	27,800	63,800	85,300	96,400	118,000	130,900*
	80	58.4	127	20,100	51,200	67,700	80,800	97,100	110,900*
	90	53.4	120	14,300	41,900	56,200	67,300	81,600	93,900
	100	48.3	111	10,000	34,800	47,400	57,300	70,000	83,400
	110*	42.1	101		29,100	40,600	49,400	60,800	73,100
	120	35.4	88		24,400	35,000	43,000	52,400*	61,900
	130	27.3	71					44,000*	55,000
140	19.4	44					35,800*	49,900	
150	27	82.3	157	187,800	304,700*	324,700*	324,700*	324,700*	318,000*
	30	81.2	157	148,400	256,200*	299,200*	315,500*	315,500*	308,000*
	35	79.2	156	128,000	200,900	245,200*	269,700*	289,500*	298,200*
	40	77.3	155	83,100	160,800	202,900	228,000*	250,200*	264,800*
	50	73.3	152	54,100	110,600	140,300	183,800	194,300	204,300*
	60	69.2	148	37,700	81,800	105,200	123,500	147,400	162,600*
	70	65.1	144	26,900	63,200	82,600	97,700	117,300	130,200
	80	60.7	139	19,200	52,400	68,900	79,700	96,400	108,600
	90	56.2	132	13,400	41,100	55,400	66,500	81,000	92,700
	100	51.4	125	9,600	33,800	45,600	56,400	69,200	79,900
	110	46.2	116	5,600	28,100	38,700	48,900	59,900	69,200
	120	40.8	106	2,800	23,300	34,100	42,100	52,900	61,900
	130	34.1	91		19,500	29,400	36,900	45,200*	54,100
140	26.3	73					38,000*	48,400	
150	18.9	45					30,700*	43,200*	
160	29	82.1	167		273,900*	310,700*	318,300*	318,600*	300,500*
	30	81.7	167		256,300*	298,900*	312,900*	312,900*	301,400*
	35	79.9	166		204,600	245,400*	269,800*	284,700*	276,500*
	40	78.1	166		161,100	203,300	228,200*	250,300*	268,300*
	50	74.4	162		110,900	140,800	184,100	194,800	204,000*
	60	70.8	159		81,700	105,400	123,700	147,600	162,600*

\* 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	74,680 COUNTERWEIGHT	114,690 COUNTERWEIGHT	145,690 COUNTERWEIGHT	185,690 COUNTERWEIGHT	216,680 COUNTERWEIGHT
90	19	82.3	96	398,800*	430,000*	480,800*	504,300*	535,100*	544,300*
	20	81.7	96	324,000*	428,400*	487,800*	480,400*	509,800*	533,600*
	25	78.4	97	222,500	338,900*	387,300*	387,500*	411,400*	430,900*
	30	75.1	96	147,300	280,600*	302,800*	321,200*	343,800*	360,200*
	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*	253,800*	268,500*
	50	61.2	87	55,400	111,400	141,700	166,100	186,200*	210,900*
	60	53.5	80	39,900	85,300	107,000	128,300	146,200*	166,800
	70	44.9	71	29,300*	66,300	84,800	99,800	114,900*	136,300
	80	34.5	58		52,800	69,400	81,200	91,000*	112,300
90	23.8	37					71,200*	84,800	
100	21	81.9	108	267,500*	430,500*	438,300*	487,900*	486,100*	538,900*
	25	78.6	107	223,800	337,800*	388,800*	388,800*	410,800*	436,200*
	30	75.7	106	148,100	280,400*	302,000*	320,600*	343,100*	359,500*
	35	73.7	104	108,400	234,300	247,000*	271,700*	292,800*	307,800*
	40	70.8	103	83,900	181,400	203,300	236,100*	253,200*	267,600*
	50	64.4	96	55,400	111,400	141,700	166,100	191,400*	206,900*
	60	57.7	92	39,300	85,100	108,800	128,200	146,400*	168,400
	70	50.5	85	29,000	66,000	84,500	94,800	116,300*	135,100
	80	42.4	75	21,500	52,500	69,000	81,800	98,800*	111,900
	90	32.8	61		43,300	57,600	69,400*	77,800*	94,800
100	19.8	38					61,100*	81,800	
110	22	82.1	108	271,800*	386,200*	418,300*	437,000*	494,000*	486,700*
	25	80.8	107	223,900	337,100*	388,000*	388,000*	428,900*	429,300*
	30	77.9	106	147,800	280,000*	301,200*	318,800*	342,300*	358,700*
	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	65.9	109	54,900	110,900	141,200	164,800	192,500*	208,100*
	60	61.0	104	38,800	82,800	108,300	124,800	148,500	167,600*
	70	54.7	97	28,500	64,800	83,000	93,300	118,800	134,500
	80	47.9	89	20,800	51,800	68,400	81,200	97,800	111,300
	90	40.3	78	15,200	42,700	57,000	68,500	80,800*	94,300
100	31.0	63		36,700	48,400	58,000*	69,400*	81,300	
110	17.8	48					52,000*	71,200	
120	22	82.3	128	257,700*	387,400*	380,800*	417,500*	440,400*	458,100*
	25	81.4	127	224,300	336,000*	384,800*	384,800*	408,800*	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*	308,800*
	40	74.0	124	83,700	160,600	202,500	228,800*	251,200*	268,800*
	50	68.9	120	54,900	110,300	143,800	164,000	194,500	207,700*
	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	98,200	117,800	133,700*
	80	52.2	102	19,900	51,100	67,600	81,400	97,500	110,500
	90	45.7	90		41,800	56,200	67,300	81,700	93,400
100	38.4	82		34,800	47,500	57,300	68,000*	81,400	
110	29.8	68					59,800*	73,200	
120	18.8	47					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
40	13	82.3	53	501,200*	540,500*	583,300*	710,400*	800,300*	800,300*
	15	79.7	53	490,400*	532,800*	573,000*	629,300*	688,200*	688,200*
	20	73.1	51	330,000*	429,800*	459,700*	482,300*	511,700*	535,600*
	25	66.1	49	217,100	313,400*	354,900*	387,100*	413,300*	432,700*
	30	58.7	48	144,000	238,200*	271,400*	298,400*	329,000*	362,000*
	35	50.8	42	106,800	188,800*	214,900*	234,800*	260,800*	310,300*
50	40	41.1	37	81,900	150,900*	172,200*	188,800*	213,700*	269,800*
	15	87.8	63	490,400*	562,900*	600,300*	629,900*	687,700*	688,200*
	20	76.2	62	332,000*	429,800*	459,400*	482,300*	515,400*	535,200*
	25	70.7	60	219,200	327,700*	368,900*	399,300*	413,000*	432,400*
	30	65.0	58	146,400	252,600*	290,800*	312,800*	345,300*	371,700*
	35	58.9	55	106,700	202,000*	229,700*	251,500*	279,000*	310,700*
60	40	52.4	51	82,800	160,300	188,400*	206,300*	228,800*	269,700*
	50	36.7	48	55,300	111,000	130,800*	143,800*	160,800*	211,700*
	15	82.0	73	458,600*	530,000*	565,700*	583,600*	629,400*	658,200*
	20	78.4	72	330,400*	429,600*	459,200*	481,300*	515,300*	535,200*
	25	73.8	71	220,800	337,500*	368,000*	388,900*	412,900*	432,300*
	30	69.1	69	146,500	261,000*	291,000*	322,500*	345,200*	365,800*
70	35	64.2	66	107,500	203,500	239,200*	261,400*	290,400*	310,000*
	40	59.1	64	83,800	161,100	197,900*	219,800*	243,900*	269,700*
	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*	114,800*	128,800*	170,700
	17	82.3	83	429,700*	500,200*	534,000*	580,200*	644,300*	620,700*
	20	80.0	83	330,200*	429,800*	458,300*	480,900*	510,400*	534,200*
80	25	76.1	81	221,700	338,900*	367,800*	388,000*	412,000*	431,400*
	30	72.0	80	148,800	261,000*	302,900*	321,900*	344,300*	360,700*
	35	67.9	78	107,600	203,600	244,800*	267,800*	293,500*	309,100*
	40	63.7	76	83,900	161,000	202,900	222,800*	247,800*	268,900*
	50	54.8	69	55,300	111,200	141,600	162,100*	180,300*	210,900*
	60	44.2	59	39,900	83,300	107,000	122,800*	137,400*	169,800
90	70	31.0	48	29,400	68,400	84,800*	93,400*	106,700*	137,100
	19	81.9	93	366,200*	430,200*	480,700*	544,400*	608,300*	560,200*
	20	81.2	93	324,400*	426,800*	457,900*	480,500*	510,200*	530,800*
	25	77.7	92	222,700	338,600*	367,600*	387,600*	415,600*	431,000*
	30	74.2	90	147,400	260,700*	302,700*	321,300*	343,900*	360,300*
	35	70.7	88	106,600	204,000	247,200*	270,400*	290,200*	308,700*
100	40	67.0	86	83,700	161,300	203,200	227,500*	250,300*	268,600*
	50	59.3	81	55,400	111,400	141,700	163,100	188,100*	210,600*
	60	50.9	73	39,800	83,300	107,000	125,300	143,300*	168,800
	70	41.2	63	25,400	65,500	84,800	99,800	112,400*	136,300
	80	30.0	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



18,000 LBS.  
BUMPER COUNTERWEIGHT

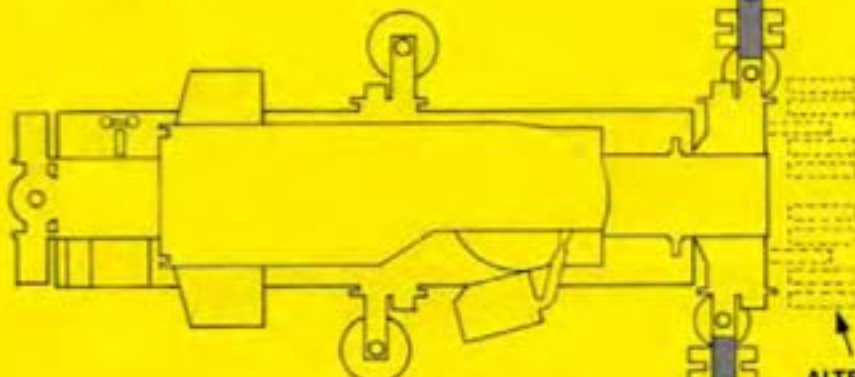
74,500 LBS.  
BASE COUNTERWEIGHT



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



REAR VIEW



TOP VIEW

1400/24  
DUAL TIRES

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.)												
	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 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 SPRC-1356-P.
AXLES-FRONT:	Eaton Model 24T2.
SUSPENSION:	Hydraulic-Nitrogen, front & rear.
TIRES:	Goodyear 1400 x 24-20 PR.
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 Lebus 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 94" 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, underslung 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	36.4	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	11.6	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.)	MAIN BOOM LENGTH — (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

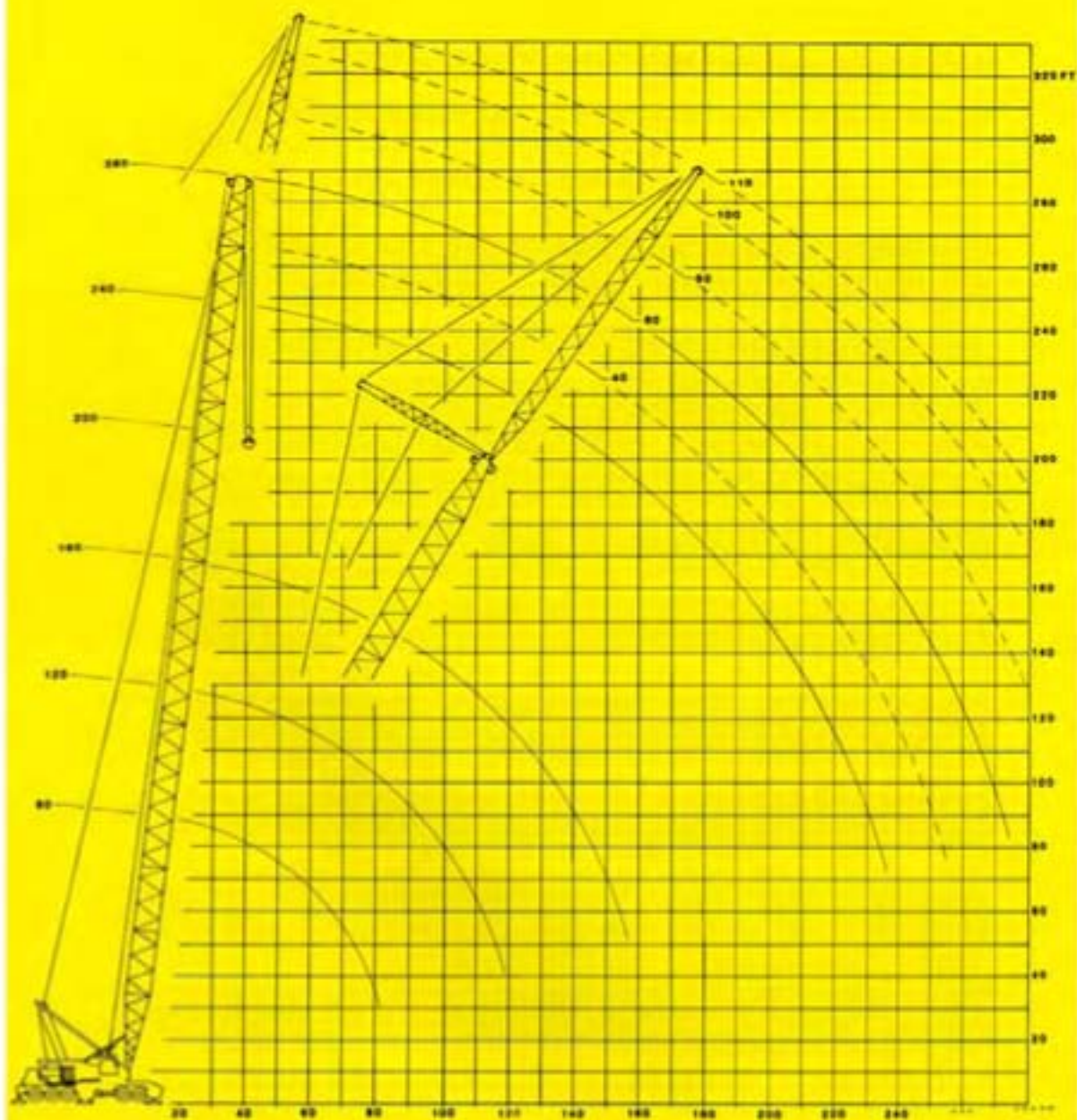
RATINGS INCLUDE WEIGHTS OF THE LOAD, BLOCK, SLINGS AND ANY OTHER LIFTING DEVICES.

CHART SL400.017

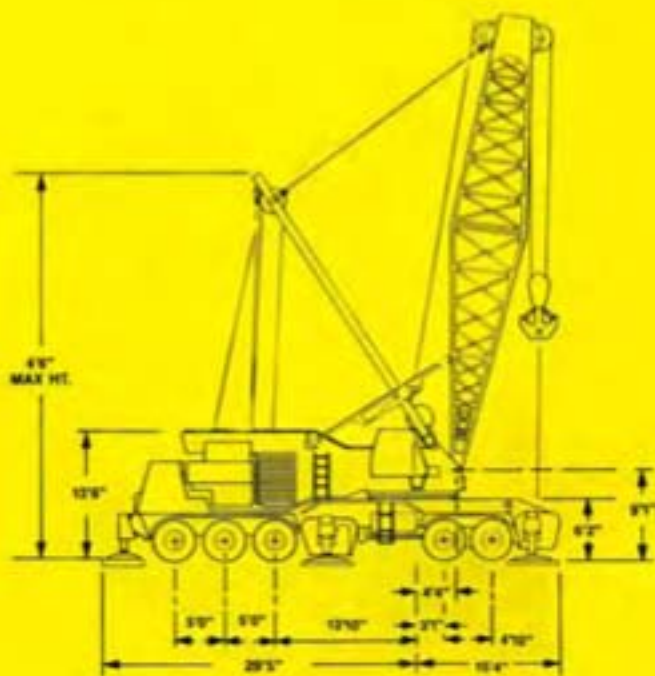
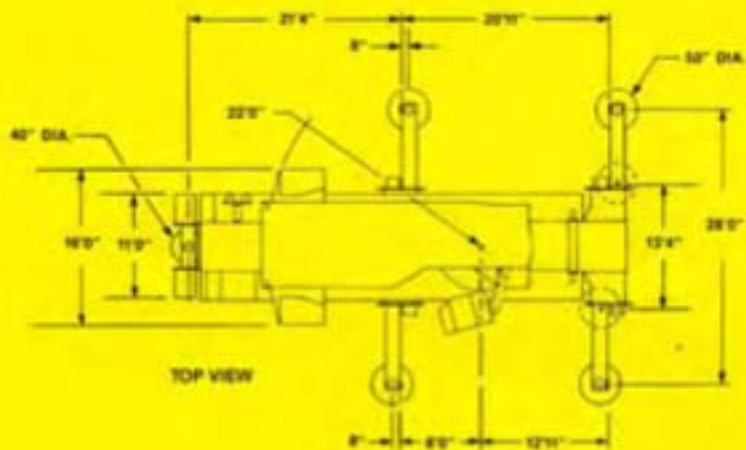




# SL400 Range Chart



## SL400 Dimension Chart







**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: ≈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**



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