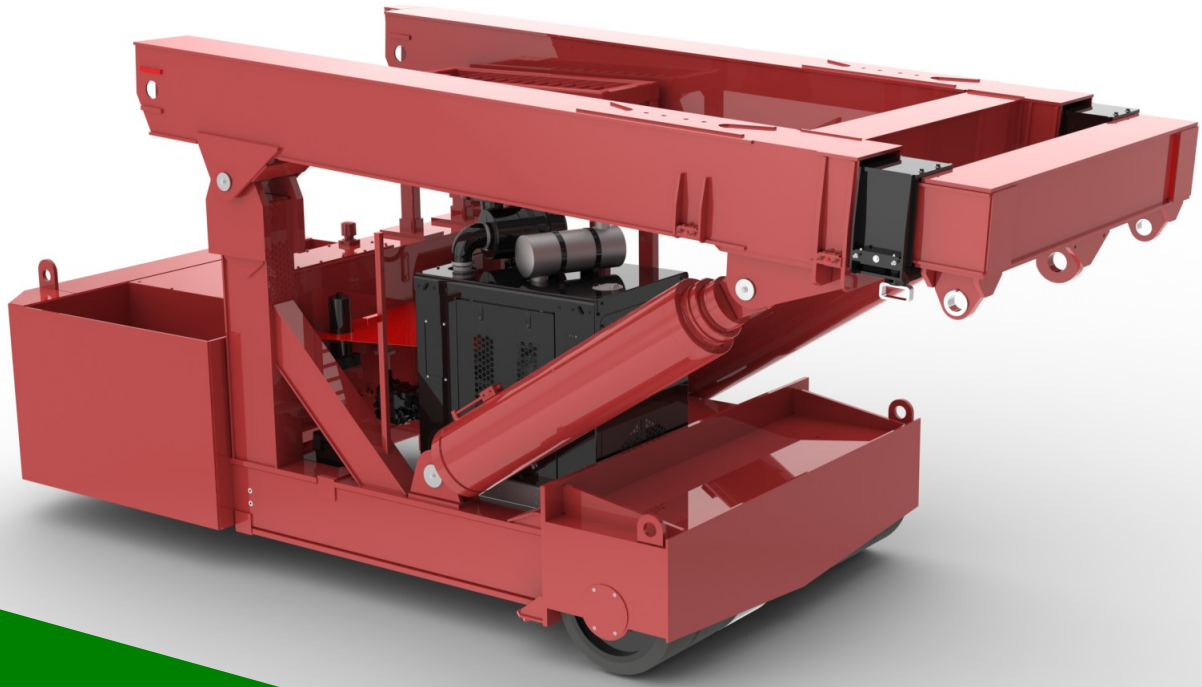
68 TONNE TWINLIFT

by

LIFT SYSTEMS, INC.



Global Leaders in Specialized

Lifting Equipment!

TWINLIFT

68 TONNE

STANDARD EQUIPMENT

ENGINE:
Cummins Diesel Engine: QSB3.3P
81 kW (108 hp) intermittent @ 2200 rpm
U.S. EPA Tier 3
CARB Tier 3
EU Stage III
Torque @ 1600 rpm, 415 N-m (306 ft-lbs)

PUMP:
Sundstrand 90 series drive pump

CONTROL SYSTEM:
CARL (Computer Assisted Remote Lifting) Control System. Monitors Boom Angle, Boom Extension, Pressure, Counterweight Load Pin. Automatic Shutdown for overload conditions. Large easy to read display screen with push button navigation and dial adjustment.

CONTROLS:
Separate controls for each function.
Combination of foot pedal, joystick, and push button controls allows for multiple functions to be performed at the same time.

DRIVE:
Poclain MK35 drive motors (qty. 3)
(2) in front, (1) in rear steering box.

WHEELS:
Front: qty. (4)
Diameter: 711mm
Width: (2) @ 406 mm and (2) @ 254 mm
Rear: qty. (2)
Diameter: 711 mm
Width: 406 mm
Replaceable polyurethane composition

STEERING:
90 degree steering of rear wheels.

OSCILLATING REAR STEERING BOX:
Keeps all steering wheels in contact with ground.

GRADABILITY:
Unloaded maximum grade is 20%
Loaded maximum grade is 10%

GROUND BEARING PRESSURE:
Loaded Front Tires: 25.3 kg/cm^2 maximum
Unloaded Rear Tires: 30.9 kg/cm^2 maximum

TRAVEL SPEED UNLOADED:
Travel Mode - High Gear = 0.0 to 2.73 km/h
Travel Mode - Low Gear = 0.0 to 1.38 km/h
Work Mode - Low Gear = 0.0 to 0.67 km/h

TELESCOPING COUNTERWEIGHT:
Standard counterweight section telescopes 1524mm using (2) hydraulic cylinders. Push button control.

HYDRAULIC RESERVOIR:
530 liters (140 gallons)

BOOM LIFT CYLINDERS:
Twin cylinders capable of lifting and lowering with a full load. Safety holding valves installed on both cylinders. Spherical bearings ensure constant alignment with the boom.

BOOM TELESCOPE CYLINDERS:
Twin cylinders capable of telescoping the boom in and out with a full load. Safety holding valves are installed on both cylinders.

LIFTING EYES:
Qty. (1) centrally located on boom with 68 tonne capacity
Qty. (2) located on corners of boom with 34 tonne capacity each

WINCH MOUNT:
Standard mount for optional winch

WEIGHT:
21,775 kg (48,000 lbs.)
Standard “A” counterweight included

COUNTERWEIGHTS:
“A” - non-removable counterweight installed in unit
“B” - qty. (2) - 3,311 kg each. - 6,622 kg total
“C” - qty. (1) - 3,832 kg
“D” - qty. (1) - 3,651 kg

TIE DOWN / LIFTING EYES:
Tie down / lifting eyes installed for securing unit during transport and for lifting of the unit.

DRIVER PROTECTION GUARD:
Structural overhead guard for operator protection.

OTHER STANDARD FEATURES:
Back up alarm, horn, strobe light, operator seat complete with safety belt and electric switch.

OPTIONAL EQUIPMENT

RADIO REMOTE CONTROL:
Radio remote control allows full machine functionality from a wireless radio remote. Allows operator optimal view of load. Emergency safety shutdown switch is standard.

59 TONNE SPINNER:
Allows for 360 degree rotation of load

HYDRAULIC WINCH:
Consult factory for available capacities

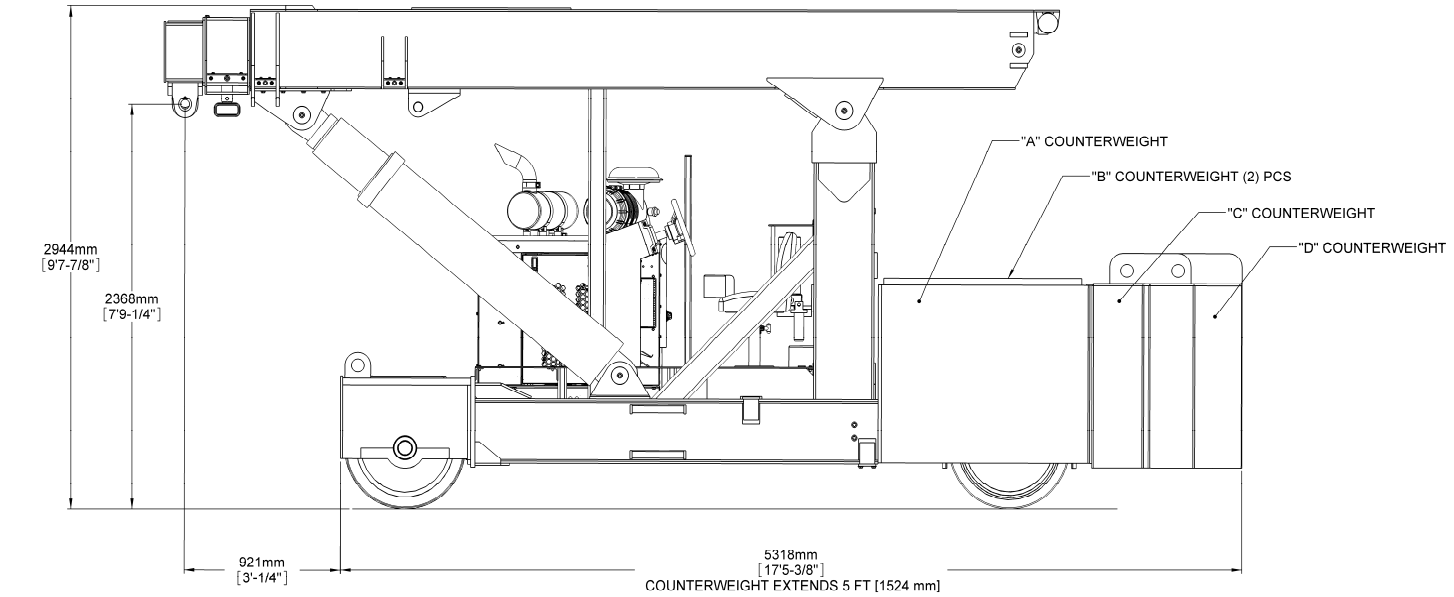
FORKLIFT ATTACHMENT:
Consult factory for available capacities

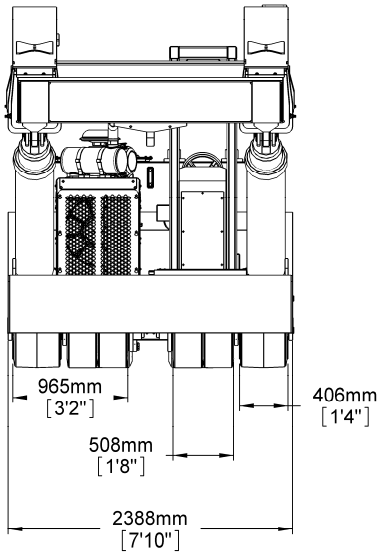
JIB EXTENSION:
Consult factory for available capacities

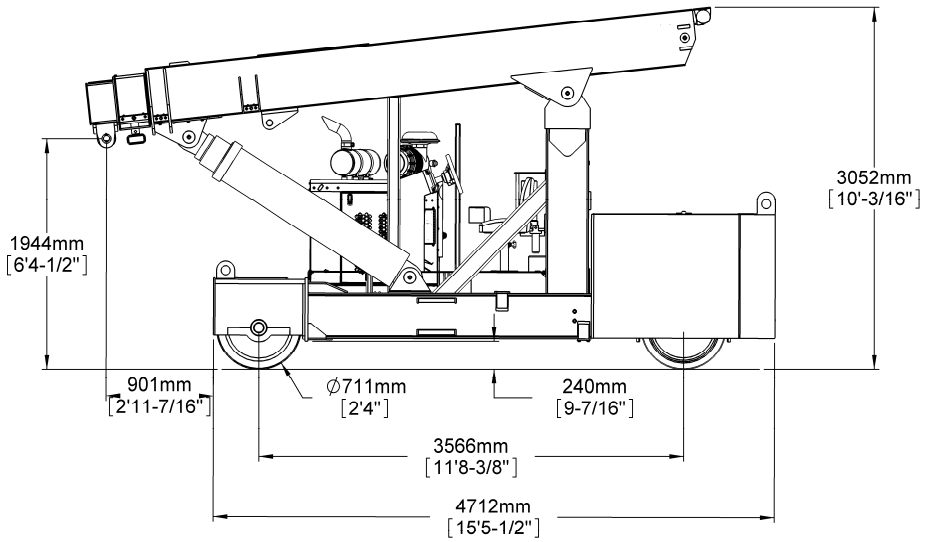
TWINLIFT

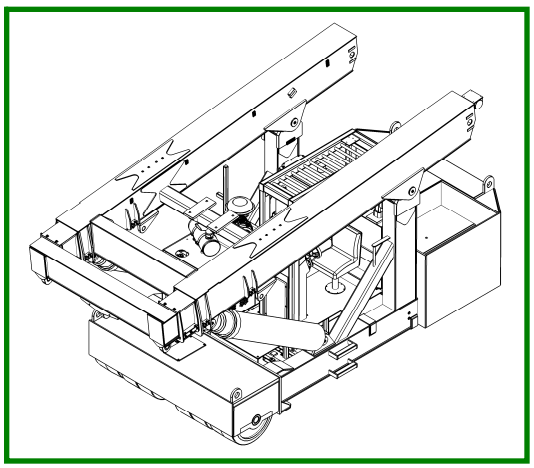
68 TONNE

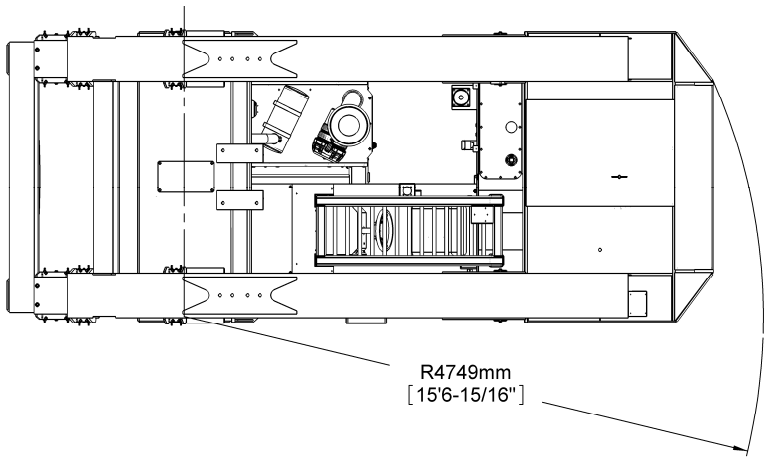
DIMENSIONAL DATA







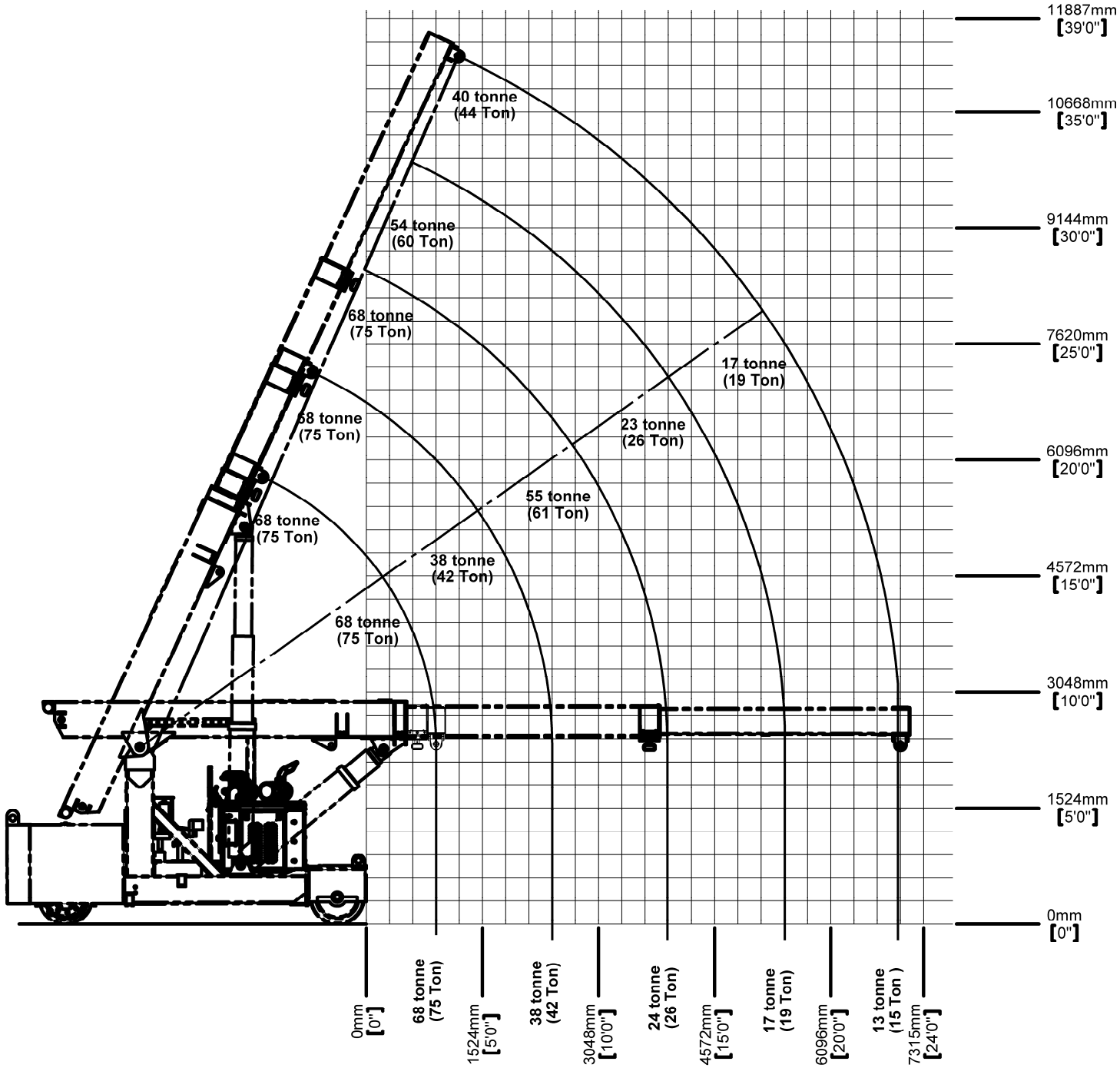




TWINLIFT

68 TONNE

REFERENCE CAPACITY / RANGE DIAGRAM



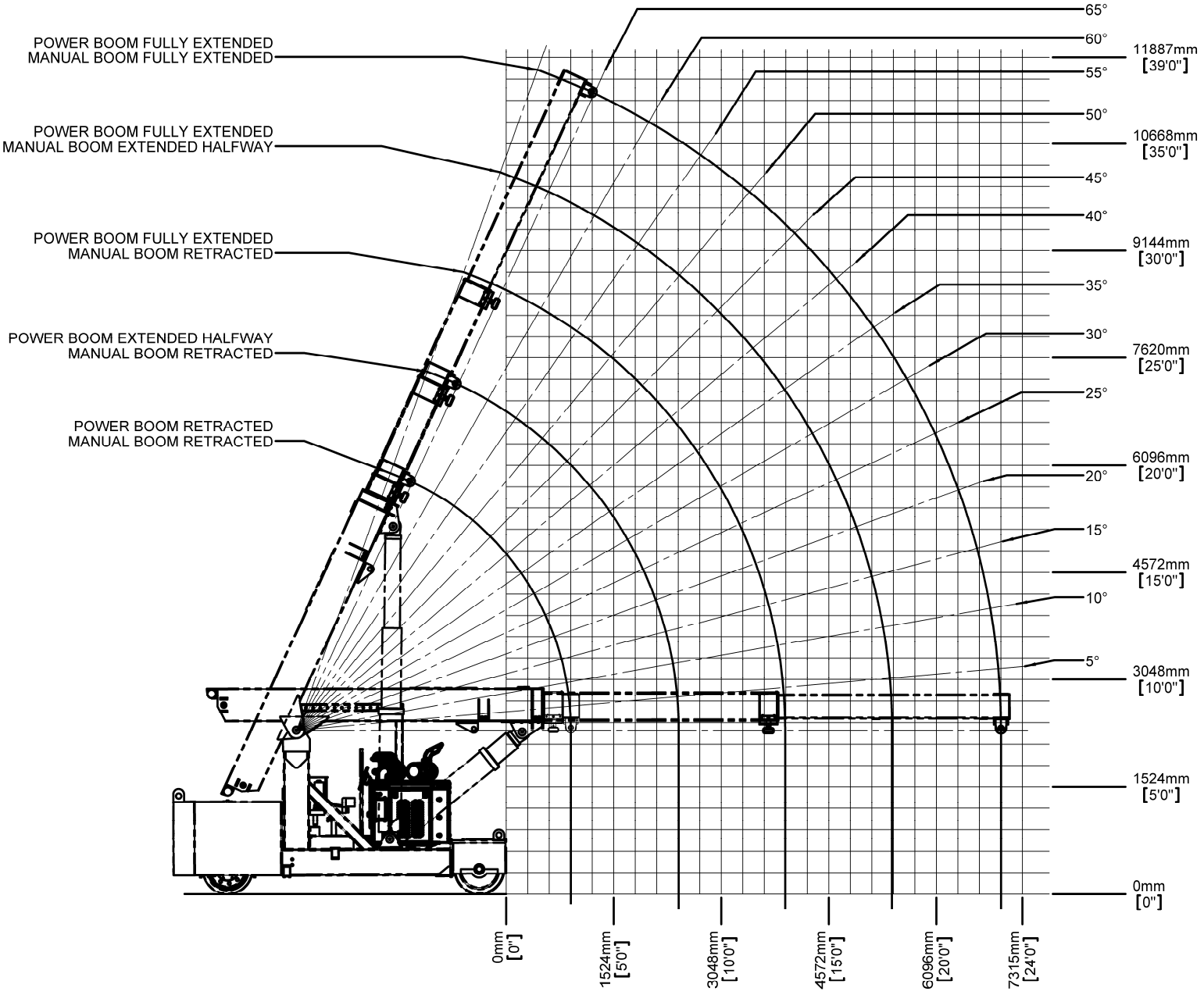
NOTE

1. The above chart is for reference purposes only.
2. Never use the above chart for lift planning calculations
3. Lift plan calculations are to be determined solely by the load charts and range diagrams that are issued for the specific serial numbered machine that is to be used for the specific planned lift.

TWINLIFT

68 TONNE

RANGE DIAGRAM



NOTE

1. **The above chart is for reference purposes only.**
2. **Never use the above chart for lift planning calculations**
3. **Lift plan calculations are to be determined solely by the load charts and range diagrams that are issued for the specific serial numbered machine that is to be used for the specific planned lift.**

TWINLIFT

68 TONNE

LOAD CHARTS FOR "A" COUNTERWEIGHT

68 TONNE TWINLIFT LOAD CHART

FOR USE WITH LIFTING EYE ONLY
STANDARD NON-REMOVABLE "A" COUNTERWEIGHT

TLLC104
10/10/2007
REV.A

FULLY EXTENDED

LOAD RADIUS (METERS FROM FRONT)	BOOM LENGTH (METERS) 5.03		6.55		8.08		9.60		11.13	
	∠°		LOADED BOOM ANGLE		LOADED BOOM ANGLE		LOADED BOOM ANGLE		LOADED BOOM ANGLE	
-1.37	65	68,000								
-1.22	63	68,000								
-0.91	57	68,000						MANUAL FLY SECTION SEE NOTES		
-0.61	52	68,000	64	68,000						
-0.30	46	68,000	60	68,000						
0.00	39	68,000	56	68,000	65	68,000				
0.30	32	61,000	52	59,600	62	58,900				
0.61	22	42,100	48	41,000	59	40,400	65	41,000		
0.91	0	32,000	44	31,100	56	30,600	63	31,100		
1.22			39	24,900	53	24,400	60	24,900	65	25,200
1.52			33	20,600	49	20,300	58	20,600	63	20,900
1.83			27	17,600	46	17,200	55	17,600	61	17,800
2.13	SEE NOTE "E"		17	15,300	42	14,900	53	15,300	59	15,500
2.35			0	13,900						
2.44					38	13,100	50	13,400	57	13,600
2.74					34	11,700	47	12,000	55	12,200
3.05					29	10,500	44	10,700	53	11,000
3.35					23	9,500	41	9,700	50	9,900
3.66					16	8,600	38	8,900	48	9,100
3.81					0	8,300				
3.96							35	8,200	46	8,300
4.27							31	7,500	43	7,700
4.57							26	6,900	41	7,100
4.88							21	6,400	38	6,600
5.18							15	6,000	35	6,200
5.33							0	5,800		
5.49									32	5,800
5.79									28	5,400
6.10									24	5,100
6.40									20	4,800
6.71									14	4,500
6.86									0	4,400

NOTES:
A) MANUAL FLY SECTION CAPACITIES ARE LIMITED BY ANGLE. DO NOT USE LOAD RADIUS WHEN USING MANUAL FLY SECTION.
B) RATINGS ABOVE THE BOLD LINE ARE BASED ON THE MACHINE'S HYDRAULIC OR STRUCTURAL STRENGTH AND NOT STABILITY.
C) RATINGS BELOW THE BOLD LINE ARE BASED ON 85% OF TIPPING.
D) ALL CAPACITIES ARE IN KILOGRAMS.
E) TELESCOPE CYLINDERS MUST BE FULLY RETRACTED AND AGAINST STOPS.
F) BOOM LENGTH IS FROM REAR OF BOOM TO CENTER OF LIFT EYE.

FULLY RETRACTED

BOOM LENGTH (METERS) ∠°	5.03		6.55		8.08		9.60		11.13	
		LOADED BOOM ANGLE		LOADED BOOM ANGLE		LOADED BOOM ANGLE		LOADED BOOM ANGLE		LOADED BOOM ANGLE
65	68,000									
63	68,000							MANUAL FLY SECTION SEE NOTES		
57	68,000									
52	68,000	64	68,000							
46	68,000	60	68,000							
39	68,000	56	68,000	65	68,000					
32	47,600	52	46,200	62	45,400					
22	32,700	48	31,700	59	31,000	65	31,700			
0	24,900	44	23,900	56	23,400	63	23,900			
		39	19,000	53	18,600	60	19,000	65	19,400	
		33	15,700	49	15,400	58	15,700	63	16,000	
		27	13,400	46	13,000	55	13,400	61	13,600	
SEE NOTE "E"		17	11,600	42	11,200	53	11,600	59	11,800	
		0	10,500							
				38	9,800	50	10,100	57	10,300	
				34	8,700	47	9,000	55	9,200	
				29	7,800	44	8,000	53	8,200	
				23	6,900	41	7,300	50	7,400	
				16	6,300	38	6,600	48	6,800	
				0	5,800					
						35	6,000	46	6,200	
						31	5,500	43	5,700	
						26	5,000	41	5,200	
						21	4,700	38	4,800	
						15	4,300	35	4,500	
						0	4,200			
								32	4,200	
								28	3,900	
								24	3,600	
								20	3,400	
								14	3,200	
								0	3,100	

CAUTION!
DO NOT EXTEND OR RETRACT COUNTERWEIGHT WITH ANY LOAD SUSPENDED ON HOOK OR FORKS.

LOAD CHARTS FOR "A" AND "B" COUNTERWEIGHT

68 TONNE TWINLIFT LOAD CHART

FOR USE WITH LIFTING EYE ONLY
STANDARD NON-REMOVABLE "A" COUNTERWEIGHT WITH "B" COUNTERWEIGHT ADDED

TLLC105
10/10/2007
REV.A

FULLY EXTENDED

LOAD RADIUS (METERS FROM FRONT)	BOOM LENGTH (METERS) 5.03		6.55		8.08		9.60		11.13	
	∠°		LOADED BOOM ANGLE		LOADED BOOM ANGLE		LOADED BOOM ANGLE		LOADED BOOM ANGLE	
-1.37	65	68,000								
-1.22	63	68,000								
-0.91	57	68,000						MANUAL FLY SECTION SEE NOTES		
-0.61	52	68,000	64	68,000						
-0.30	46	68,000	60	68,000						
0.00	39	68,000	56	68,000	65	68,000				
0.30	32	68,000	52	68,000	62	68,000				
0.61	22	68,000	48	68,000	59	67,100	65	54,600		
0.91	0	53,800	44	52,700	56	52,200	63	51,700		
1.22			39	42,500	53	42,000	60	42,500	65	40,400
1.52			33	35,500	49	35,100	58	35,500	63	35,700
1.83			27	30,300	46	30,000	55	30,300	61	30,600
2.13	SEE NOTE "E"		17	26,500	42	26,200	53	26,500	59	26,700
			0	24,200						
2.44					38	23,100	50	23,400	57	23,700
2.74					34	20,700	47	21,000	55	21,200
3.05					29	18,700	44	19,000	53	19,200
3.35					23	17,100	41	17,300	50	17,500
3.66					16	15,600	38	15,900	48	16,100
					0	15,000				
3.96							35	14,600	46	14,800
4.27							31	13,600	43	13,800
4.57							26	12,700	41	12,800
4.88							21	11,800	38	12,000
5.18							15	11,100	35	11,200
							0	10,700		
5.49									32	10,600
5.79									28	10,000
6.10									24	9,400
6.40									20	8,900
									14	8,500
6.71									0	8,300

NOTES:
A) MANUAL FLY SECTION CAPACITIES ARE LIMITED BY ANGLE. DO NOT USE LOAD RADIUS WHEN USING MANUAL FLY SECTION.
B) RATINGS ABOVE THE BOLD LINE ARE BASED ON THE MACHINE'S HYDRAULIC OR STRUCTURAL STRENGTH AND NOT STABILITY.
C) RATINGS BELOW THE BOLD LINE ARE BASED ON 85% OF TIPPING.
D) ALL CAPACITIES ARE IN KILOGRAMS.
E) TELESCOPE CYLINDERS MUST BE FULLY RETRACTED AND AGAINST STOPS.
F) BOOM LENGTH IS FROM REAR OF BOOM TO CENTER OF LIFT EYE.

FULLY RETRACTED

BOOM LENGTH (METERS) ∠°	5.03		6.55		8.08		9.60		11.13	
		LOADED BOOM ANGLE		LOADED BOOM ANGLE		LOADED BOOM ANGLE		LOADED BOOM ANGLE		LOADED BOOM ANGLE
65	68,000									
63	68,000							MANUAL FLY SECTION SEE NOTES		
57	68,000									
52	68,000	64	68,000							
46	68,000	60	68,000							
39	68,000	56	68,000	65	68,000					
32	68,000	52	68,000	62	68,000					
22	52,500	48	51,400	59	50,800	65	51,400			
0	40,000	44	39,000	56	38,600	63	39,000			
		39	31,400	53	30,900	60	31,400	65	31,700	
		33	26,100	49	25,700	58	26,100	63	26,400	
		27	22,300	46	21,900	55	22,300	61	22,500	
SEE NOTE "E"		17	19,400	42	19,000	53	19,400	59	19,600	
		0	17,700							
				38	16,800	50	17,100	57	17,400	
				34	15,000	47	15,300	55	15,500	
				29	13,500	44	13,800	53	14,000	
				23	12,200	41	12,500	50	12,700	
				16	11,200	38	11,500	48	11,700	
				0	10,700					
						35	10,600	46	10,700	
						31	9,700	43	9,900	
						26	9,000	41	9,200	
						21	8,400	38	8,600	
						15	7,900	35	8,000	
						0	7,600			
								32	7,500	
								28	7,100	
								24	6,700	
								20	6,300	
								14	6,000	
								0	5,800	

CAUTION!
DO NOT EXTEND OR RETRACT COUNTERWEIGHT WITH ANY LOAD SUSPENDED ON HOOK OR FORKS.

NOTE:
Specifications are provided in metric dimensions. All equipment dimensions, designs, specifications, calculations, etc., as described, are subject to change at manufacturer's discretion at any time and without notice. Weights are approximate and may vary. Data herein is for informational purposes only and will not be construed to guarantee suitability of equipment for any particular as performance my vary with conditions encountered. Warranty will apply as written in standard contract form upon purchase of equipment. Capacities are for reference only and must not be used for any serial numbered machine. Serial numbered load charts may be obtained from Lift Systems, Inc.

TWINLIFT

68 TONNE

LOAD CHARTS FOR “A”, “B”, AND “C” COUNTERWEIGHT

68 TONNE TWINLIFT LOAD CHART

FOR USE WITH LIFTING EYE ONLY
STANDARD NON-REMOVABLE "A" COUNTERWEIGHT WITH "B","C" COUNTERWEIGHT ADDED

TLLC106
10/10/2007
REV.A

FULLY EXTENDED

LOAD RADIUS (METERS FROM FRONT)	BOOM ANGLE	BOOM LENGTH (METERS) 5.03	6.55		8.08		9.60		11.13	
			LOADED BOOM ANGLE		LOADED BOOM ANGLE		LOADED BOOM ANGLE		LOADED BOOM ANGLE	
-1.37	65	68,000								
-1.22	63	68,000								
-0.91	57	68,000								
-0.61	52	68,000	64	68,000						
-0.30	46	68,000	60	68,000						
0.00	39	68,000	56	68,000	65	68,000				
0.30	32	68,000	52	68,000	62	68,000				
0.61	22	68,000	48	68,000	59	67,100	65	54,600		
0.91	0	68,000	44	67,700	56	63,600	63	51,700		
1.22			39	54,600	53	54,100	60	49,100	65	40,400
1.52			33	45,600	49	45,200	58	45,600	63	38,700
1.83			27	39,100	46	38,700	55	39,100	61	37,100
2.13	SEE NOTE "E"		17	34,200	42	33,800	53	34,200	59	34,400
2.35			0	31,300						
2.44					38	30,000	50	30,300	57	30,600
2.74					34	26,900	47	27,200	55	27,400
3.05					29	24,400	44	24,700	53	24,900
3.35					23	22,200	41	22,500	50	22,700
3.66					16	20,400	38	20,700	48	20,900
3.81					0	19,600				
3.96							35	19,100	46	19,300
4.27							31	17,800	43	18,000
4.57							26	16,600	41	16,700
4.88							21	15,500	38	15,700
5.18							15	14,600	35	14,700
5.33							0	14,100		
5.49									32	13,900
5.79									28	13,100
6.10									24	12,400
6.40									20	11,800
6.71									14	11,200
6.86									0	11,000

MANUAL FLY SECTION SEE NOTES

NOTES:
A) MANUAL FLY SECTION CAPACITIES ARE LIMITED BY ANGLE. DO NOT USE LOAD RADIUS WHEN USING MANUAL FLY SECTION.
B) RATINGS ABOVE THE BOLD LINE ARE BASED ON THE MACHINE'S HYDRAULIC OR STRUCTURAL STRENGTH AND NOT STABILITY.
C) RATINGS BELOW THE BOLD LINE ARE BASED ON 85% OF TIPPING.
D) ALL CAPACITIES ARE IN KILOGRAMS.
E) TELESCOPE CYLINDERS MUST BE FULLY RETRACTED AND AGAINST STOPS.
F) BOOM LENGTH IS FROM REAR OF BOOM TO CENTER OF LIFT EYE.

FULLY RETRACTED

BOOM ANGLE	BOOM LENGTH (METERS) 5.03	6.55		8.08		9.60		11.13	
		LOADED BOOM ANGLE		LOADED BOOM ANGLE		LOADED BOOM ANGLE		LOADED BOOM ANGLE	
65	68,000								
63	68,000								
57	68,000								
52	68,000	64	68,000						
46	68,000	60	68,000						
39	68,000	56	68,000	65	68,000				
32	68,000	52	68,000	62	68,000				
22	66,900	48	65,900	59	65,300	65	54,600		
0	51,200	44	50,200	56	49,700	63	50,200		
		39	40,400	53	39,900	60	40,400	65	40,400
		33	33,700	49	33,300	58	33,700	63	34,000
		27	28,800	46	28,500	55	28,800	61	29,100
SEE NOTE "E"		17	25,200	42	24,800	53	25,100	59	25,400
		0	22,900						
				38	21,900	50	22,300	57	22,500
				34	19,600	47	19,900	55	20,100
				29	17,700	44	18,000	53	18,200
				23	16,100	41	16,400	50	16,600
				16	14,800	38	15,100	48	15,200
				0	14,200				
						35	13,900	46	14,100
						31	12,900	43	13,100
						26	12,000	41	12,200
						21	11,200	38	11,300
						15	10,500	35	10,700
						0	10,200		
								32	10,000
								28	9,400
								24	8,900
								20	8,400
								14	8,000
								0	7,800

MANUAL FLY SECTION SEE NOTES

CAUTION!
DO NOT EXTEND OR RETRACT COUNTERWEIGHT WITH ANY LOAD SUSPENDED ON HOOK OR FORKS.

LOAD CHARTS FOR “A”, “B”, “C”, AND “D” COUNTERWEIGHT

68 TONNE TWINLIFT LOAD CHART

FOR USE WITH LIFTING EYE ONLY
STANDARD NON-REMOVABLE "A" COUNTERWEIGHT WITH "B","C","D" COUNTERWEIGHT ADDED

TLLC107
10/9/2007
REV.A

FULLY EXTENDED

LOAD RADIUS (METERS FROM FRONT)	BOOM ANGLE	BOOM LENGTH (METERS) 5.03	6.55		8.08		9.60		11.13	
			LOADED BOOM ANGLE		LOADED BOOM ANGLE		LOADED BOOM ANGLE		LOADED BOOM ANGLE	
-1.37	65	68,000								
-1.22	63	68,000								
-0.91	57	68,000								
-0.61	52	68,000	64	68,000						
-0.30	46	68,000	60	68,000						
0.00	39	68,000	56	68,000	65	68,000				
0.30	32	68,000	52	68,000	62	68,000				
0.61	22	68,000	48	68,000	59	67,100	65	54,600		
0.91	0	68,000	44	68,000	56	63,600	63	51,700		
1.22			39	66,600	53	60,600	60	49,100	65	40,400
1.52			33	55,700	49	55,400	58	46,800	63	38,700
1.83			27	47,900	46	47,500	55	44,700	61	37,100
2.13	SEE NOTE "E"		17	41,900	42	41,500	53	41,900	59	34,600
2.35			0	38,300						
2.44					38	36,900	50	37,200	57	33,300
2.74					34	33,100	47	33,400	55	32,200
3.05					29	30,000	44	30,300	53	30,500
3.35					23	27,400	41	27,700	50	27,900
3.66					16	25,200	38	25,500	48	25,700
3.81					0	24,300				
3.96							35	23,600	46	23,800
4.27							31	21,900	43	22,100
4.57							26	20,500	41	20,700
4.88							21	19,200	38	19,400
5.18							15	18,000	35	18,200
5.33							0	17,500		
5.49									32	17,200
5.79									28	16,300
6.10									24	15,500
6.40									20	14,700
6.71									14	14,000
6.86									0	13,600

MANUAL FLY SECTION SEE NOTES

NOTES:
A) MANUAL FLY SECTION CAPACITIES ARE LIMITED BY ANGLE. DO NOT USE LOAD RADIUS WHEN USING MANUAL FLY SECTION.
B) RATINGS ABOVE THE BOLD LINE ARE BASED ON THE MACHINE'S HYDRAULIC OR STRUCTURAL STRENGTH AND NOT STABILITY.
C) RATINGS BELOW THE BOLD LINE ARE BASED ON 85% OF TIPPING.
D) ALL CAPACITIES ARE IN KILOGRAMS.
E) TELESCOPE CYLINDERS MUST BE FULLY RETRACTED AND AGAINST STOPS.
F) BOOM LENGTH IS FROM REAR OF BOOM TO CENTER OF LIFT EYE.

FULLY RETRACTED

BOOM ANGLE	BOOM LENGTH (METERS) 5.03	6.55		8.08		9.60		11.13	
		LOADED BOOM ANGLE		LOADED BOOM ANGLE		LOADED BOOM ANGLE		LOADED BOOM ANGLE	
65	68,000								
63	68,000								
57	68,000								
52	68,000	64	68,000						
46	68,000	60	68,000						
39	68,000	56	68,000	65	68,000				
32	68,000	52	68,000	62	68,000				
22	68,000	48	68,000	59	67,100	65	54,600		
0	62,500	44	61,400	56	60,900	63	51,700		
		39	49,500	53	49,100	60	49,100	65	40,400
		33	41,400	49	41,000	58	41,400	63	38,700
		27	35,500	46	35,100	55	35,500	61	35,700
SEE NOTE "E"		17	31,000	42	30,600	53	31,000	59	31,200
		0	28,300						
				38	27,100	50	27,400	57	27,700
				34	24,300	47	24,600	55	24,900
				29	22,000	44	22,300	53	22,500
				23	20,000	41	20,400	50	20,500
				16	18,400	38	18,700	48	18,900
				0	17,700				
						35	17,300	46	17,500
						31	16,000	43	16,200
						26	14,900	41	15,100
						21	14,000	38	14,100
						15	13,100	35	13,300
						0	12,700		
								32	12,500
								28	11,800
								24	11,200
								20	10,600
								14	10,100
								0	9,800

MANUAL FLY SECTION SEE NOTES

CAUTION!
DO NOT EXTEND OR RETRACT COUNTERWEIGHT WITH ANY LOAD SUSPENDED ON HOOK OR FORKS.

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