

33 TON MOBILIFT

LIFT SYSTEMS, INC.



Global Leaders in Specialized Lifting Equipment!



33 TON

STANDARD EQUIPMENT

ENGINE:

GM 3.0L, 4 cylinder, 75 hp (56 Kw) propane engine

PUMP:

Sundstrand 40 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:

Rockwell planetary drive axle. Full hydrostatic system with spring applied brakes.

WHEELS:

Front: qty. (4) Diameter: 28" Width: 12" Rear: qty. (2) Diameter: 28" Width: 12"

Replaceable polyurethane composition

OSCILLATING REAR STEERING BOX:

Keeps all steering wheels in contact with ground.

GRADABILITY:

Unloaded maximum grade is 26% Loaded maximum grade is 15% 18,000 lbs of draw bar pull unloaded

TRAVEL SPEED UNLOADED:

High Gear: 2.75 mph Low Gear: 0.75 mph

TELESCOPING COUNTERWEIGHT:

Standard counterweight section telescopes 4' using a hydraulic cylinder. Push button control.

HYDRAULIC RESERVOIR:

90 gallons (340 liters)

BOOM:

High strength three section telescoping boom with powered first section and manually extended second section .

Replaceable wear pads on all sliding sections.

BOOM LIFT CYLINDER:

Single cylinder capable of lifting and lowering with a full load. Integral safety holding valve. Spherical bearing ensures constant alignment with the boom.

BOOM TELESCOPE CYLINDER:

Single cylinder capable of telescoping the boom in and out with a full load. Integral safety holding valve.

WINCH:

High performance hydraulic winch. Integral, full load brake. 400' of high capacity 5/8" wire rope standard.

BLOCK:

35 (31.5) ton block standard. Low profile with swivel hook.

POWER BOOM LIFTING EYE:

Qty. (1) located on boom with 33 ton capacity.

WEIGHT:

32,000 lbs base unit Standard "A" counterweight included

COUNTERWEIGHTS:

"A" - non-removable counterweight installed in unit Four (4) additional counterweight plates included with fork lift loops standard. Weight of each plate is 5,500 lbs. Total of additional counterweight is 22,000 lbs.

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.

ANTI-TWO-BLOCK DEVICE:

Safety device installed to prevent hook block from contacting boom.

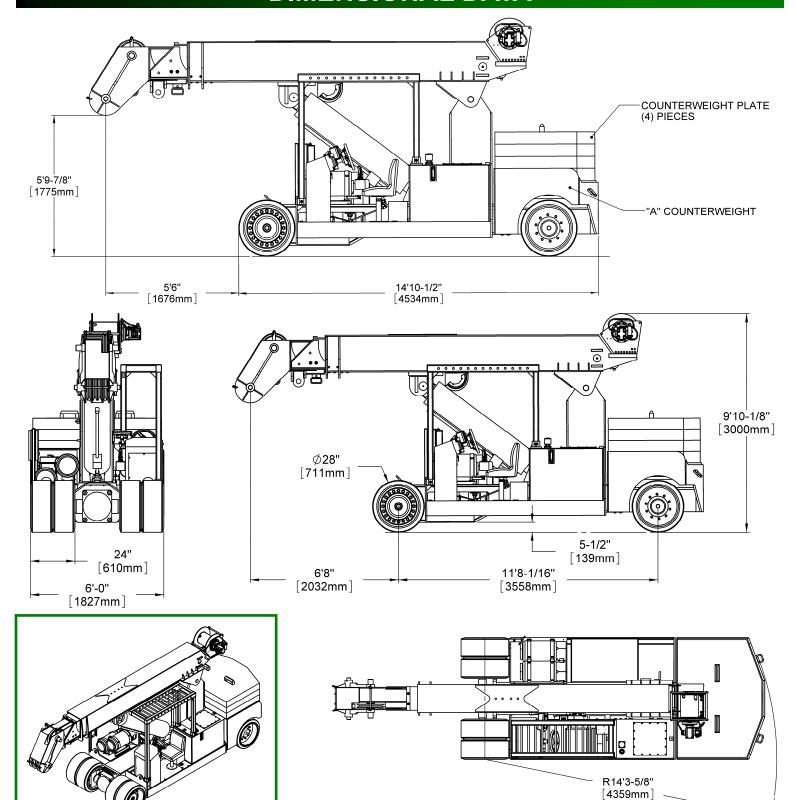
JIB EXTENSION:

Consult factory for available capacities



33 TON

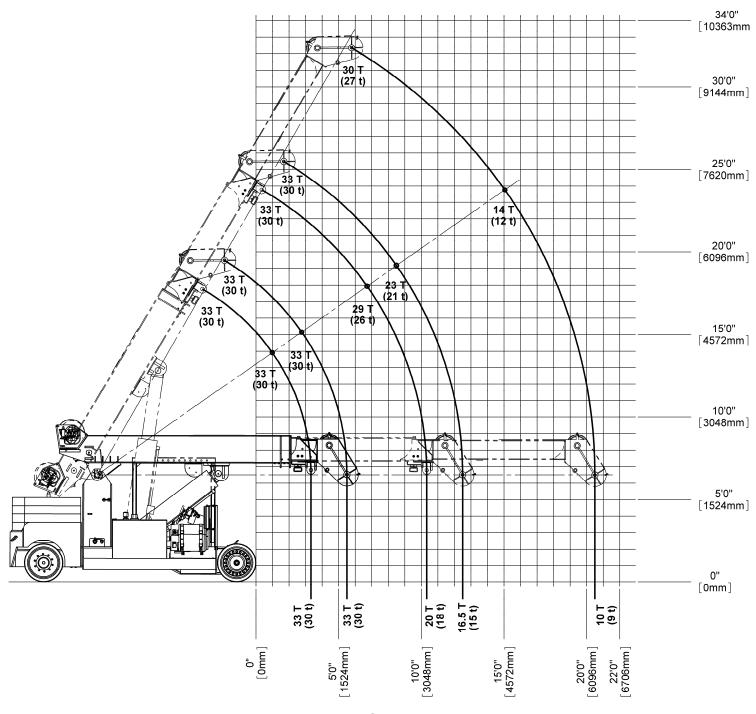
DIMENSIONAL DATA





33 TON

REFERENCE CAPACITY / RANGE DIAGRAM



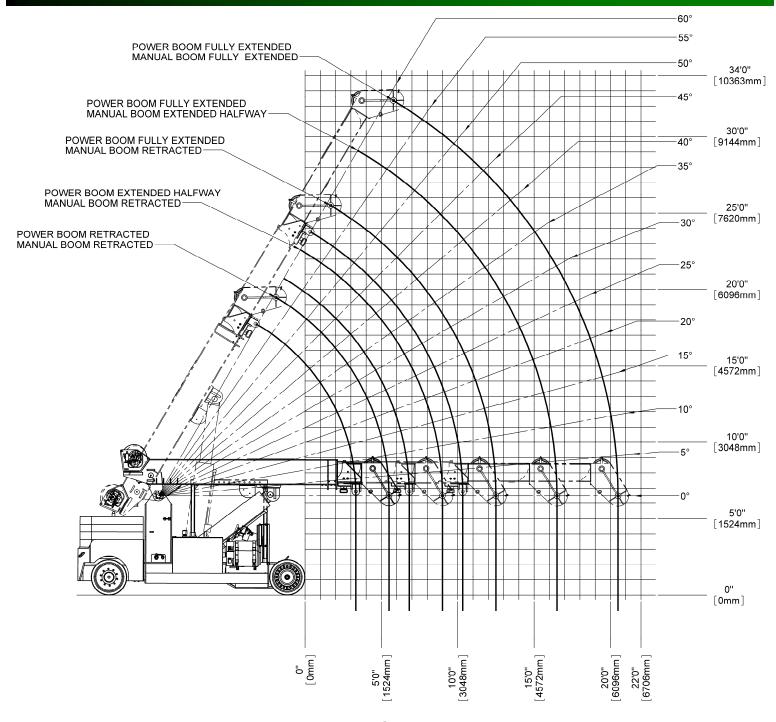
NOTE

- 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.



33 TON

RANGE DIAGRAM



NOTE

- 1. The above chart is for reference purposes only.
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- 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.



33 TON

LOAD CHARTS FOR BASE UNIT WITH NO COUNTERWEIGHT

LOAD RADIUS	33 TON MOBILIFT LOAD CHART FOR USE WITH HOOK BLOCK ONLY												
(FEET					STANDARD NO	N-REMOVABL	E "A" COUNTER	RWEIGHT					
FROM		FULLY EXTENDED FULLY RETRACTED											
FRONT)	∆°		BOOM LENGT	H (FEET)			\(\alpha^\circ\)		BOOM LENGT	H (FEET)			
	\rightarrow	15		22		30	\longrightarrow	15		22		30	
0	50	66,139	LOADED BOOM X°		MANUAL FLY		50	66,139	LOADED X°		MANUAL FLY		
1	45	66,139	ANGLE		SECTION		45	66,139	BOOM ANGLE		SECTION		
2	39	66,139	58	66,139	SEE NOTES		39	56,000	58	54,800	SEE NOTES		
3	33	51,000	55	50,000			33	41,900	55	40,900		.	
4	25	40,600	52	39,700	LOADED		25	33,300	52	32,400	LOADED BOOM		
5	14	33,600	48	32,700	BOOM ANGLE		14	27,400	48	26,600	ANGLE -		
5.5	0	31,000					0	25,300					
6			45	27,700	59	28,800			45	22,500	59	23,500	
7	SEE NOTE (E)	1	41	24,000	56	24,900	SEE NOTE (E)		41	19,300	56	20,300	
8			37	21,000	54	21,900			37	16,900	54	17,800	
9			32	18,600	52	19,500			32	14,900	52	15,800	
10	1		27	16,700	49	17,500	1		27	13,300	49	14,100	
11			21	15,100	47	15,800			21	12,000	47	12,700	
12			18	13,700	44	14,400	1		12	10,800	44	11,600	
12.5	1		0	13,100			1		0	10,300			
13	NOTES:				41	13,200	WARNING				41	10.600	
14		CAPACITIES ARE	LIMITED BY ANGLI	E. DO NOT	38	12,200	FOR BOOM LEI		N 30' WITH FLY SE		38	9,700	
15		ADIUS WHEN USIN			35	11,300			ARE DETERMINED EADED BY 30' BOO		35	8,900	
16			E ARE BASED ON RUCTURAL STREN		32	10,500			E RATINGS OF THE		32	8,300	
17	STABILITY.				28	9,700	LOWER BOOM	ANGLE.			28	7,700	
18	C) RATINGS BEL	OW THE BOLD LIN	IE ARE BASED ON	85% OF	23	9,100	7				23	7,100	
19		IES ARE IN POUND	os.		18	8,500	CAUTION!				18	6,600	
20			E FULLY RETRACT	TED AND	10	8,000	DO NOT EXTEND OR RETRACT COUNTERWEIGHT WITH ANY 10 LOAD SUSPENDED ON HOOK OR FORKS.					6,200	
20.5	AGAINST STO	PS.			0	7,800	LOAD SUSPEN	DED ON HOOK OH	runks.		0	6,000	

LOAD CHARTS FOR BASE UNIT WITH 1 COUNTERWEIGHT SLAB

RADIUS		33 TON MOBILIFT LOAD CHART												
	FOR USE WITH HOOK BLOCK ONLY													
					STANDARD NO									
(FEET		PLUS (1) COUNTERWEIGHT PLATE												
FROM	FULLY EXTENDED FULLY RETRACTED													
FRONT)	∠°		BOOM LENGT	, ,			∠°		BOOM LENGT	H (FEET)				
	·	15		22		30	· ·	15		22		30		
0	50	66,139	LOADED BOOM X°		MANUAL FLY		50	66,139	LOADED X°		MANUAL FLY			
1	45	66,139	ANGLE -		SECTION		45	66,139	BOOM ANGLE		SECTION			
2	39	66,139	58	66,139	SEE NOTES		39	66,139	58	66,139	SEE NOTES			
3	33	66,139	55	66,139			33	54,500	55	53,400				
4	25	54,300	52	53,400	LOADED ×°		25	43,400	52	42,500	LOADED BOOM			
5	14	45,000	48	44,200	BOOM ANGLE		14	35,900	48	35,100	ANGLE -			
5.5	0	41,700					0	33,200						
6			45	37,600	59	38,600			45	29,800	59	30,800		
7	SEE NOTE (E)		41	32,600	56	33,600	SEE NOTE (E)		41	25,700 56		26,700		
8			37	28,700	54	29,600			37	22,600	54	23,500		
9			32	25,600	52	26,400			32	20,100	20,900			
10			27	23,000	49	23,800]		27	18,000	49	18,800		
11			21	20,900	47	21,700			21 16,300 12 14,800		47	17,000		
12			18	19,100	44	19,800					44	15,500		
12.5			0	18,300					0	14,200				
13	NOTES:				41	18,200					41	14,300		
14		CAPACITIES ARE LI	IMITED BY ANGLE. I	DO NOT	38	16,800	WARNING				38	13,100		
15		DIUS WHEN USING			35	15,600	FOR BOOM LEN		30' WITH FLY SECT		35	12,200		
16			ARE BASED ON TH JCTURAL STRENG		32	14,600			RE DETERMINED B ADED BY 30' BOOM		32	11,300		
17	STABILITY.				28	13,600			GS OF THE NEXT L		28	10,500		
18	C) RATINGS BELC TIPPING.	OW THE BOLD LINE	ARE BASED ON 85	5% OF	23	12,800	BOOM ANGLE.				23	9,800		
19		S ARE IN POUNDS	3.		18	12,000					18	9,200		
20			FULLY RETRACTE	D AND	10	11,300	CAUTION!				10	8,700		
20.5	AGAINST STOR	PS.			0	11,000		D OR RETRACT C DED ON HOOK OR	OUNTERWEIGHT V	ITH ANY	0	8,400		
	-					•]	ook on						

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.



33 TON

LOAD CHARTS FOR BASE UNIT WITH 2 COUNTERWEIGHT SLABS

LOAD					22 TON A	/ODILIET	LOAD CH	JADT				MLLC231		
RADIUS												2/17/2009		
					FOR U STANDARD NO		K BLOCK ONLY							
(FEET														
FROM		PLUS (2) COUNTERWEIGHT PLATES FULLY EXTENDED FULLY RETRACTED												
FRONT)			BOOM LENGT					1	BOOM LENGT					
FRONT)	∠°	15	BOOM LENGT	. ,		30	∠°	15		22		30		
			LOADED	22		30				22		30		
0	50	66,139	BOOM X°		MANUAL FLY		50	66,139	LOADED NO		MANUAL FLY			
1	45	66,139	ANGLE -		SECTION		45	66,139	ANGLE		SECTION			
2	39	66,139	58	66,139	SEE NOTES		39	66,139	58	66,139	SEE NOTES			
3	33	66,139	55	66,139			33	66,139	55	66,139		,		
4	25	66,139	52	66,139	LOADED X°		25	53,500	52	52,600	LOADED BOOM			
5	14	56,500	48	55,700	BOOM ANGLE		14	44,400	48	43,600	ANGLE -			
5.5	0	52,300					0	41,100						
6			45	47,500	59	48,500			59	38,100				
7	SEE NOTE (E))	41	41,300	56	42,200			41	32,100	56	33,100		
8	1		37	36,400	54	37,300	SEE NOTE (E))	37	28,300	54	29,200		
9	1		32	32,500	52	33,400	1		32	25,200	52	26,100		
10	1		27	29,400	49	30,200			27	22,700	49	23,500		
11			21	26,700	47	27,500			21	20,600	47	21,300		
12			18	24,400	44	25,200			12	18,800	44	19,500		
12.5			0	23,500					0	18,000				
13	NOTES:				41	23,200					41	18,000		
14		CAPACITIES ARE L	IMITED BY ANGLE.	DO NOT	38	21,500	WARNING				38	16,600		
15	USE LOAD RA	DIUS WHEN USING	FLY SECTION.		35	20,000	FOR BOOM LEN		30' WITH FLY SECT		35	15,400		
16			ARE BASED ON THUCTURAL STRENG		32	18,700			RE DETERMINED B ADED BY 30' BOOM		32	14,400		
17	STABILITY.				28	17,500			GS OF THE NEXT L		28	13,400		
18	C) RATINGS BELI	OW THE BOLD LINE	E ARE BASED ON 8	5% OF	23	16,500	BOOM ANGLE.				23	12,600		
19		ES ARE IN POUNDS	3.		18	15,500					18	11,800		
20	E) TELESCOPE C	YLINDER MUST BE	FULLY RETRACTE	D AND	10	14,700	CAUTION!				10	11,100		
20.5	AGAINST STO		0	14,300	DO NOT EXTEND OR RETRACT COUNTERWEIGHT WITH ANY LOAD SUSPENDED ON HOOK OR FORKS.					10,800				
					· · · · · · · · · · · · · · · · · · ·									

LOAD CHARTS FOR BASE UNIT WITH 3 COUNTERWEIGHT SLABS

LOAD RADIUS		33 TON MOBILIFT LOAD CHART FOR USE WITH HOOK BLOCK ONLY STANDARD NON-REMOVABLE "A" COUNTERWEIGHT											
(FEET							E "A" COUNTER						
FROM		FULLY EXTENDED FULLY RETRACTED											
FRONT)	\(\alpha^\circ\)		BOOM LENGT	H (FEET)			\(\alpha^\circ\)	BOOM LENGTH (FEET)					
	\rightarrow	15		22		30	\rightarrow	15		22		30	
0	50	66,139	LOADED BOOM X°		MANUAL FLY		50	66,139	LOADED X°		MANUAL FLY		
1	45	66,139	ANGLE		SECTION		45	66,139	BOOM ANGLE		SECTION		
2	39	66,139	58	66,139	SEE NOTES		39	66,139	58	66,139	SEE NOTES		
3	33	66,139	55	66,139			33	66,139	55	66,139		. 1	
4	25	66,139	52	66,139	LOADED NO NO		25	64,000	52	63,300	LOADED BOOM		
5	14	66,139	48	66,139	ANGLE		14	52,900	48	52,100	ANGLE -		
5.5	0	63,300					0	49,000					
6	1		45	57,300	59	58,300			45	44,400	59	45,400	
7	SEE NOTE (E)		41	49,900	56	50,900	SEE NOTE (E)	1	41	38,600	56	39,500	
8	_		37	44,100	54	45,000			37	34,000	54	34,900	
9	_		32	39,500	52	40,300			32	30,400	52	31,200	
10	_		27	35,700	49	36,500	_		27	27,400	49	28,200	
11	_		21	32,500	47	33,300			21	24,900	47	25,600	
12	_		18	29,800	44	30,500	_		12 0	22,700 21,900	44	23,500	
12.5	_		0	28,700									
13	NOTES:				41	28,200	_				41	21,600	
14	A) FLY SECTION		IMITED BY ANGLE.	DO NOT	38	26,200	WARNING				38	20,000	
15		DIUS WHEN USING	FLY SECTION. ARE BASED ON TH	ıc	35	24,400			30' WITH FLY SECT RE DETERMINED B		35	18,600	
16			JCTURAL STRENG		32	22,800			ADED BY 30' BOOM		32	17,400	
17	STABILITY.				28	21,400		HOWN USE RATIN	GS OF THE NEXT L	OWER	28	16,300	
18	TIPPING.	OW THE BOLD LINE	ARE BASED ON 8	5% OF	23	20,200	BOOM ANGLE.				23	15,300	
19	D) ALL CAPACITIE	S ARE IN POUNDS			18	19,000	_				18	14,400	
20	E) TELESCOPE C AGAINST STO		FULLY RETRACTE	D AND	10	18,000	CAUTION!	ID OR RETRACT C	OUNTERWEIGHT V	/ITH ANY	10	13,600	
20.5] AGAINST STO	· 0.			0	17,600		DED ON HOOK OR		·····Anı	0	13,300	

NOTE:

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33 TON

LOAD CHARTS FOR BASE UNIT WITH FULL COUNTERWEIGHT (4 SLABS)

LOAD	33 TON MOBILIFT LOAD CHART													
RADIUS					FOR U	SE WITH HOC	K BLOCK ONLY	<i>(</i>				2/17/2009		
		STANDARD NON-REMOVABLE "A" COUNTERWEIGHT												
(FEET		PLUS (4) COUNTERWEIGHT PLATES												
FROM	FULLY EXTENDED FULLY RETRACTED													
FRONT)	∠°	l	BOOM LENGT	, ,			∠°	BOOM LENGTH (FEET)						
		15		22		30	'	15		22		30		
0	50	66,139	LOADED BOOM X°		MANUAL FLY		50	66,139	LOADED X°		MANUAL FLY			
1	45	66,139	ANGLE		SECTION		45	66,139	BOOM ANGLE		SECTION			
2	39	66,139	58	66,139	SEE NOTES		39	66,139	58	66,139	SEE NOTES			
3	33	66,139	55	66,139			33	66,139	55	66,139				
4	25	66,139	52	66,139	LOADED VO		25	66,139	52	66,139	LOADED X°			
5	14	66,139	48	66,139	BOOM ANGLE		14	61,700	48	61,100	ANGLE			
5.5	0	66,139			, and L		0	57,200			1			
6			45	66,139	59	61,000			45	51,700	59	52,700		
7	SEE NOTE (E)		41	58,600	56	58,600	SEE NOTE (E)		41 45,000		56	45,900		
8	1		37	51,900	54	52,700	1		37	39,700	54	40,600		
9	1		32	46,500	52	47,300	1		32	35,500	52	36,300		
10	1		27	42,000	49	42,800	1		27	32,000	49	32,900		
11	1		21	38,300	47	39,100			21	29,200	47	29,900		
12	1		18	35,200	44	35,900			12	26,700	44	27,500		
12.5	1		0	33,900			1		0	25,700				
13	NOTES:				41	33,200				•	41	25,300		
14		CAPACITIES ARE L	MITED BY ANGLE.	DO NOT	38	30,800	WARNING				38	23,500		
15	USE LOAD RAI	DIUS WHEN USING	FLY SECTION.		35	28,800	FOR BOOM LEN		30' WITH FLY SECT		35	21,900		
16			ARE BASED ON TH JCTURAL STRENG		32	26,900			RE DETERMINED E ADED BY 30' BOOM		32	20,400		
17	STABILITY.	DIAULIO ON STRI	JOI JUNAL STRENG	III AND NOT	28	25,300			GS OF THE NEXT L		28	19,200		
18		OW THE BOLD LINE	ARE BASED ON 8	5% OF	23	23,800	BOOM ANGLE.				23	18,000		
19	TIPPING. D) ALL CAPACITIE	S ARE IN POUNDS	š.		18	22,500					18	17,000		
20	E) TELESCOPE C	YLINDER MUST BE	FULLY RETRACTE	D AND	10	21,300	CAUTION!				10	16,100		
20.5	AGAINST STO	PS.			0	20,800		ID OR RETRACT C DED ON HOOK OR	OUNTERWEIGHT V	VITH ANY	0	15,700		
	-				,		LOAD SOSPEN	DED SIT HOOK ON	i oimo.					
												ļ		

LOAD CHARTS FOR POWER BOOM PICKING EYE + FULL COUNTERWEIGHT (4 SLABS)

LOAD			33	TON MOBIL	IET I OA	D CHART		MLLC238					
RADIUS				R USE WITH POV				2/17/2009					
		STANDARD NON-REMOVABLE "A" COUNTERWEIGHT											
(FEET		PLUS (4) COUNTERWEIGHT PLATES											
FROM	FULLY EXTENDED FULLY RETRACTED												
FRONT)	∠°	POWER BOOM	×°	POWER BOOM	×°	POWER BOOM	×o	POWER BOOM					
	\triangle	RETRACTED	\triangle	EXTENDED	\triangle	RETRACTED	\triangle	EXTENDED					
0	41	66,139			41	66,139							
1	33	66,139	57	66,139	33	66,139	57	66,139					
2	25	66,139	54	66,139	25	66,139	54	66,139					
3	11	66,139	50	66,139	11	66,139	50	66,139					
3.3	0	66,139			0	66,139							
4		SEE NOTE (D)	46	66,139		SEE NOTE (D)	46	66,139					
5			42	66,139			42	59,720					
6			38	65,700			38	50,900					
7			33	57,900			33	44,200					
8]		27	51,200			27	39,000					
9			20	45,800			20	34,900					
10			10	41,400			10	31,500					
10.3	1		0	40,200			0	30,500					
NOTES:													
NOTES:													
MACHINE'S H STABILITY.	HYDRAULIC OR ST	IE ARE BASED ON THE RUCTURAL STRENGT NE ARE BASED ON 85°	H AND NOT	CAUTION! DO NOT EXTEND OR RETRACT COUNTERWEIGHT WITH ANY LOAD SUSPENDED ON HOOK OR FORKS.									
C) ALL CAPACIT	IES ARE IN POUNI	os.											

LIFT SYSTEMS, INC.

OFFICE: 1505 - 7th Street East Moline, IL 61244 MAILING ADDRESS: P.O. Box 906 Moline, IL 61266

D) TELESCOPE CYLINDER MUST BE FULLY RETRACTED AND AGAINST STOPS.

TEL: +1-309-764-9842 FAX: +1-309-764-9848

EMAIL: liftit@lift-systems.com WEB: www.lift-systems.com