30 TONNE MOBILIFT

by

LIFT SYSTEMS, INC.

Global Leaders in Specialized

Lifting Equipment!

MOBILIFT

30 TONNE

STANDARD EQUIPMENT

ENGINE:
GM 3.0L, 4 cylinder, 56 Kw (75 hp) 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: 711 mm (28")
Width: 305 mm (12")
Rear: qty. (2)
Diameter: 711 mm (28")
Width: 305 mm (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%
8,164 kg of draw bar pull unloaded

TRAVEL SPEED UNLOADED:
High Gear: 4.42 km/h (2.75 mph)
Low Gear: 1.20 km/h (0.75 mph)

TELESCOPING COUNTERWEIGHT:
Standard counterweight section telescopes 1.22m (4') using a hydraulic cylinder. Push button control.

HYDRAULIC RESERVOIR:
340 liters (90 gallons)

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. 122 m of high capacity 15.875 mm wire rope standard.

BLOCK:
31.5 tonne block standard. Low profile with swivel hook.

POWER BOOM LIFTING EYE:
Qty. (1) located on boom with
30 tonne capacity.

WEIGHT:
14,530 kg base unit (32,000 lbs)
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 2,497 kg (5,500 lbs).
Total of additional counterweight is 9,988 kg (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

MOBILIFT

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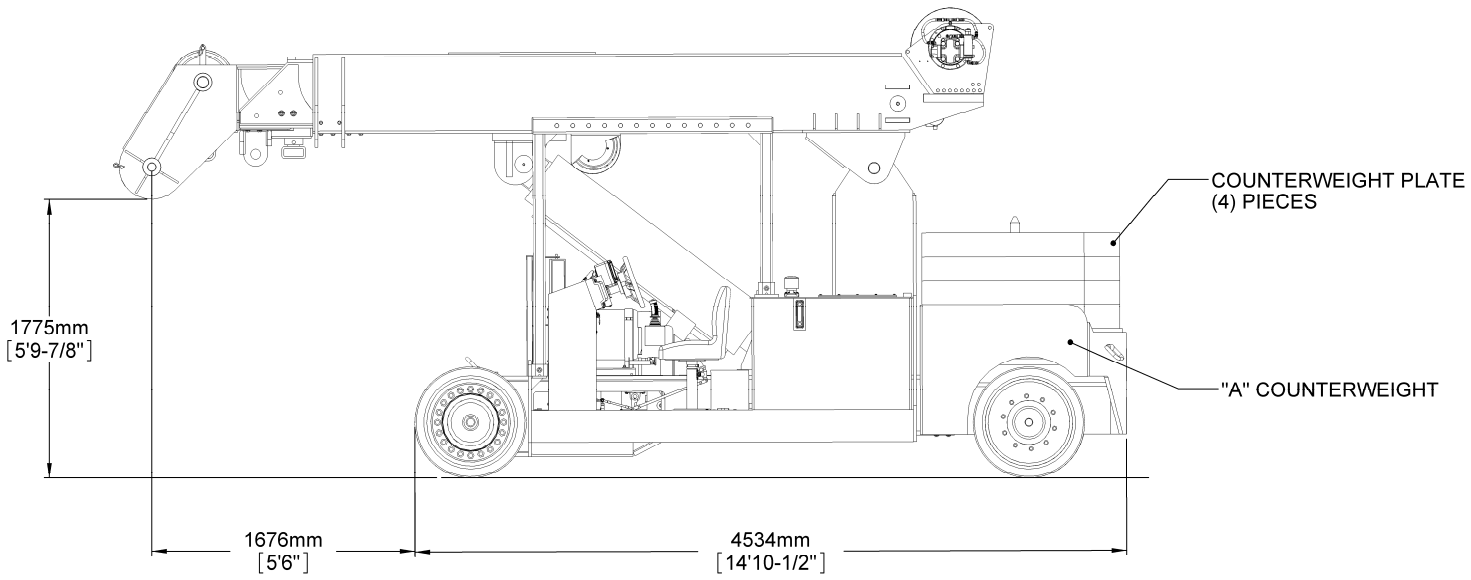
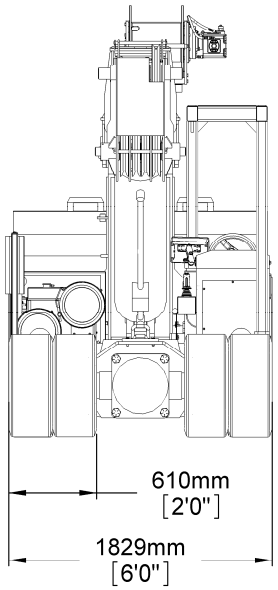
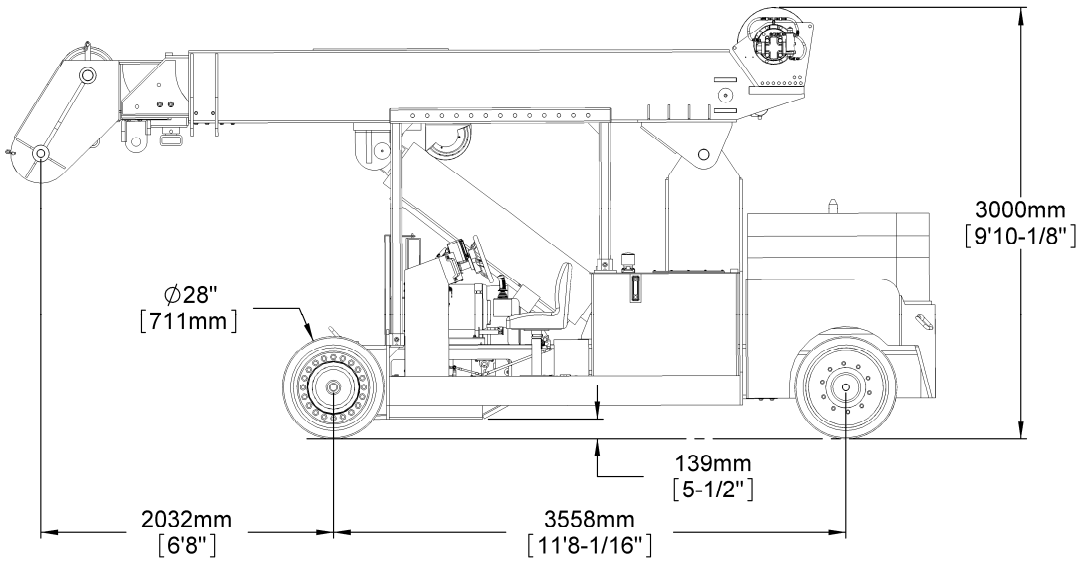
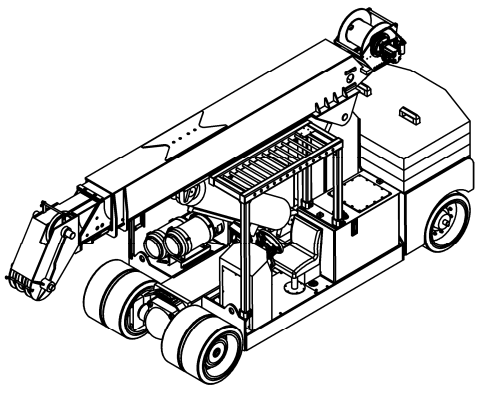
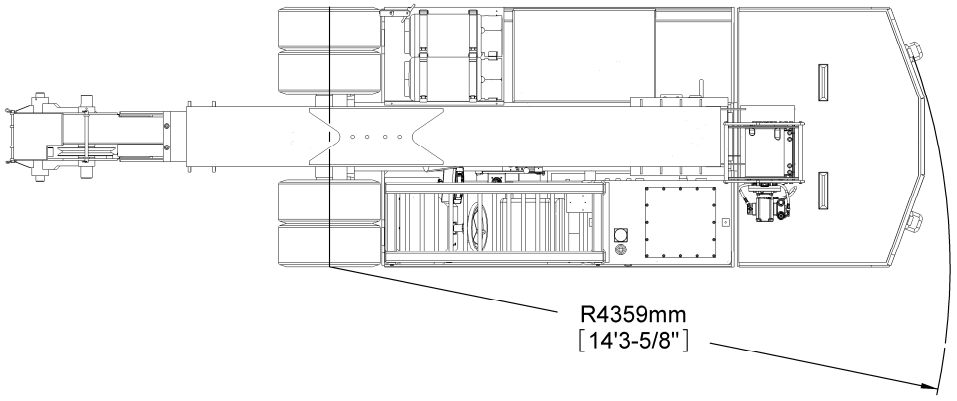
DIMENSIONAL DATA











MOBILIFT

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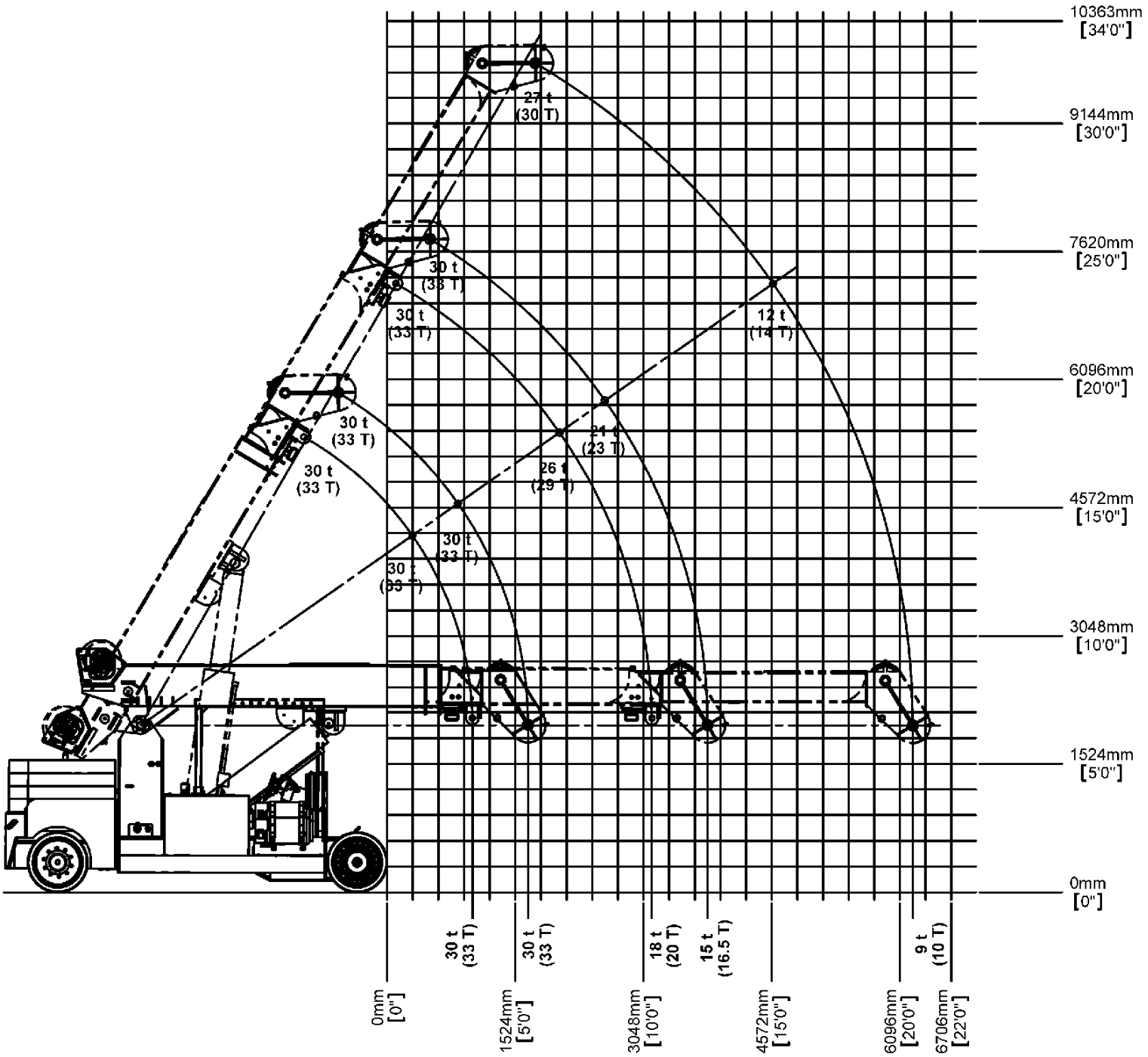
REFERENCE CAPACITY / RANGE DIAGRAM



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.**

MOBILIFT

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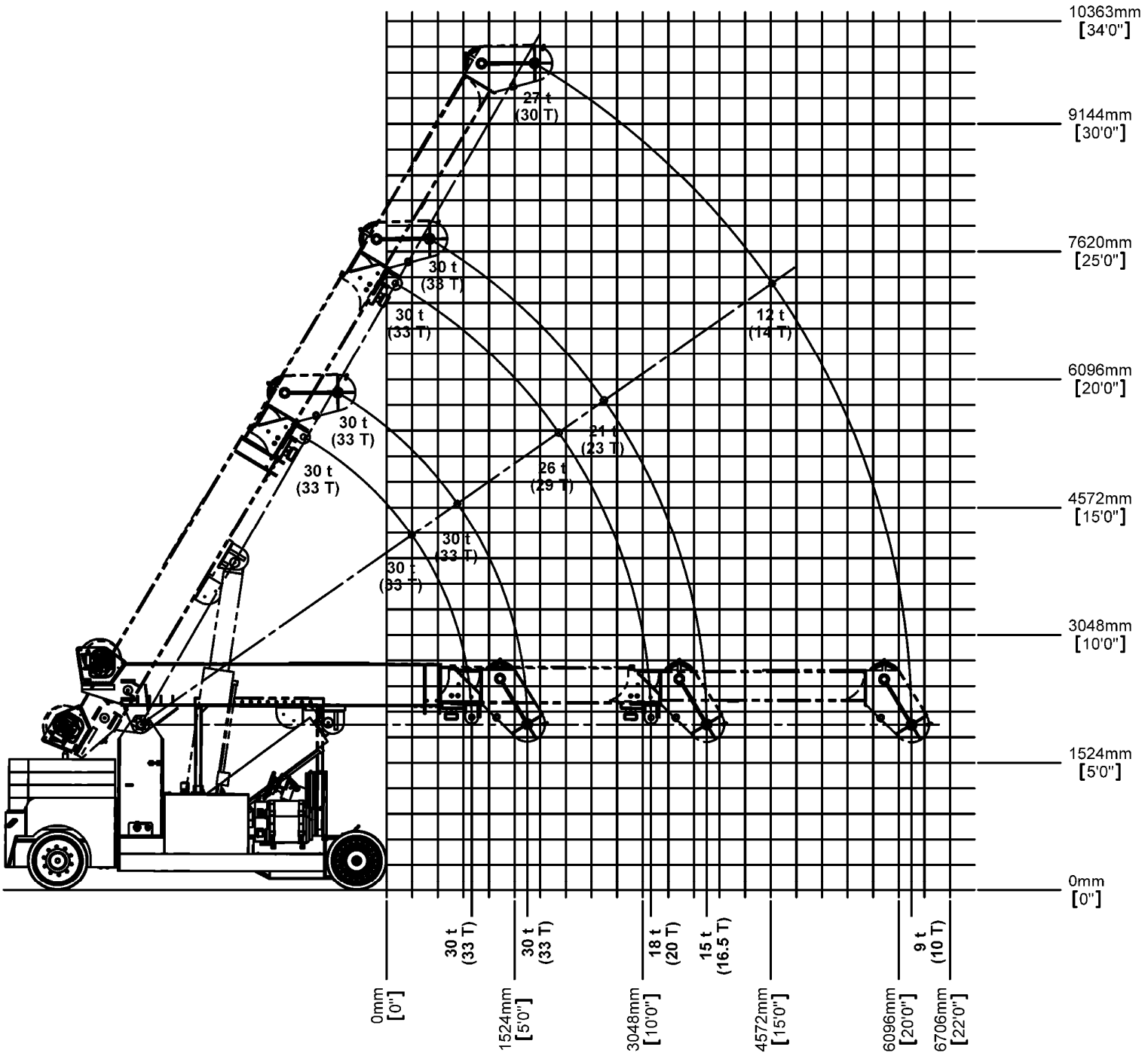
RANGE DIAGRAM



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.**

MOBILIFT

30 TONNE

LOAD CHARTS FOR BASE UNIT WITH NO COUNTERWEIGHT

30 TONNE MOBILIFT LOAD CHART

MLLC239 2/17/2009

FOR USE WITH HOOK BLOCK ONLY
STANDARD NON-REMOVABLE "A" COUNTERWEIGHT

LOAD RADIUS (METERS FROM FRONT)	FULLY EXTENDED BOOM LENGTH (METERS) 4.5		6.7		9.1		FULLY RETRACTED BOOM LENGTH (METERS) 4.5		6.7		9.1	
	∠°		LOADED BOOM ANGLE ∠°		MANUAL FLY SECTION		∠°		LOADED BOOM ANGLE ∠°		MANUAL FLY SECTION	
0.0	50	30,000					50	30,000				
0.3	45	30,000					45	30,000				
0.6	39	30,000	58	30,000	SEE NOTES		39	25,400	58	24,800	SEE NOTES	
0.9	33	23,100	55	22,600	LOADED BOOM ANGLE ∠°		33	19,000	55	18,500	LOADED BOOM ANGLE ∠°	
1.2	25	18,400	52	18,000			25	15,100	52	14,600		
1.5	14	15,200	48	14,800			14	12,400	48	12,000		
1.6	0	14,000					0	11,400				
1.8			45	12,500	59	13,000			45	10,200	59	10,600
2.1	SEE NOTE (E)		41	10,800	56	11,200	SEE NOTE (E)		41	8,700	56	9,200
2.4			37	9,500	54	9,900			37	7,600	54	8,000
2.7			32	8,400	52	8,800			32	6,700	52	7,100
3.0			27	7,500	49	7,900			27	6,000	49	6,300
3.3			21	6,800	47	7,100			21	5,400	47	5,700
3.6			18	6,200	44	6,500			12	4,800	44	5,200
3.8									0	4,600		
3.9					41	5,900					41	4,800
4.2					38	5,500					38	4,300
4.5					35	5,100					35	4,000
4.8					32	4,700					32	3,700
5.1					28	4,300					28	3,400
5.4					23	4,100					23	3,200
5.7					18	3,800					18	2,900
6.0					10	3,600					10	2,800
6.2					0	3,500					0	2,700

NOTES:
A) FLY SECTION CAPACITIES ARE LIMITED BY ANGLE. DO NOT USE LOAD RADIUS WHEN USING 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 CYLINDER MUST BE FULLY RETRACTED AND AGAINST STOPS.

WARNING
FOR BOOM LENGTHS LESS THAN 13.4M WITH FLY SECTION EXTENDED, THE RATED LOADS ARE DETERMINED BY BOOM ANGLE ONLY, IN THE COLUMN HEADED BY 13.4M BOOM. FOR BOOM ANGLES NOT SHOWN USE RATINGS OF THE NEXT LOWER BOOM ANGLE.

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

LOAD CHARTS FOR BASE UNIT WITH 1 COUNTERWEIGHT SLAB

30 TONNE MOBILIFT LOAD CHART

MLLC240 2/17/2009

FOR USE WITH HOOK BLOCK ONLY
STANDARD NON-REMOVABLE "A" COUNTERWEIGHT
PLUS (1) COUNTERWEIGHT PLATE

LOAD RADIUS (METERS FROM FRONT)	FULLY EXTENDED BOOM LENGTH (METERS) 4.5		6.7		9.1		FULLY RETRACTED BOOM LENGTH (METERS) 4.5		6.7		9.1	
	∠°		LOADED BOOM ANGLE ∠°		MANUAL FLY SECTION		∠°		LOADED BOOM ANGLE ∠°		MANUAL FLY SECTION	
0.0	50	30,000					50	30,000				
0.3	45	30,000					45	30,000				
0.6	39	30,000	58	30,000	SEE NOTES		39	30,000	58	30,000	SEE NOTES	
0.9	33	30,000	55	30,000	LOADED BOOM ANGLE ∠°		33	24,700	55	24,200	LOADED BOOM ANGLE ∠°	
1.2	25	24,600	52	24,200			25	19,600	52	19,200		
1.5	14	20,400	48	20,000			14	16,200	48	15,900		
1.6	0	18,900					0	15,000				
1.8			45	17,000	59	17,500			45	13,500	59	13,900
2.1	SEE NOTE (E)		41	14,700	56	15,200	SEE NOTE (E)		41	11,600	56	12,100
2.4			37	13,000	54	13,400			37	10,200	54	10,600
2.7			32	11,600	52	11,900			32	9,100	52	9,400
3.0			27	10,400	49	10,700			27	8,100	49	8,500
3.3			21	9,400	47	9,800			21	7,300	47	7,700
3.6			18	8,600	44	8,900			12	6,700	44	7,000
3.8			0	8,300					0	6,400		
3.9					41	8,200					41	6,400
4.2					38	7,600					38	5,900
4.5					35	7,000					35	5,500
4.8					32	6,600					32	5,100
5.1					28	6,100					28	4,700
5.4					23	5,800					23	4,400
5.7					18	5,400					18	4,100
6.0					10	5,100					10	3,900
6.2					0	4,900					0	3,800

NOTES:
A) FLY SECTION CAPACITIES ARE LIMITED BY ANGLE. DO NOT USE LOAD RADIUS WHEN USING 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 CYLINDER MUST BE FULLY RETRACTED AND AGAINST STOPS.

WARNING
FOR BOOM LENGTHS LESS THAN 13.4M WITH FLY SECTION EXTENDED, THE RATED LOADS ARE DETERMINED BY BOOM ANGLE ONLY, IN THE COLUMN HEADED BY 13.4M BOOM. FOR BOOM ANGLES NOT SHOWN USE RATINGS OF THE NEXT LOWER BOOM ANGLE.

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.

MOBILIFT

30 TONNE

LOAD CHARTS FOR BASE UNIT WITH 2 COUNTERWEIGHT SLABS

30 TONNE MOBILIFT LOAD CHART

MLLC241
2/17/2009

FOR USE WITH HOOK BLOCK ONLY
STANDARD NON-REMOVABLE "A" COUNTERWEIGHT
PLUS (2) COUNTERWEIGHT PLATES

LOAD RADIUS (METERS FROM FRONT)	FULLY EXTENDED						FULLY RETRACTED					
	BOOM LENGTH (METERS)						BOOM LENGTH (METERS)					
	∠°	4.5	LOADED BOOM ANGLE ∠°	6.7	9.1		∠°	4.5	LOADED BOOM ANGLE ∠°	6.7	9.1	
0.0	50	30,000			MANUAL FLY		50	30,000			MANUAL FLY	
0.3	45	30,000			SECTION		45	30,000			SECTION	
0.6	39	30,000	58	30,000	SEE NOTES		39	30,000	58	30,000	SEE NOTES	
0.9	33	30,000	55	30,000			33	30,000	55	30,000		
1.2	25	30,000	52	30,000	LOADED BOOM ANGLE ∠°		25	24,200	52	23,800	LOADED BOOM ANGLE ∠°	
1.5	14	25,600	48	25,200			14	20,100	48	19,700		
1.6	0	23,700					0	18,600				
1.8			45	21,500	59	21,900			45	16,800	59	17,200
2.1	SEE NOTE (E)		41	18,700	56	19,100	SEE NOTE (E)		41	14,500	56	15,000
2.4			37	16,500	54	16,900			37	12,800	54	13,200
2.7			32	14,700	52	15,100			32	11,400	52	11,800
3.0			27	13,300	49	13,600			27	10,200	49	10,600
3.3			21	12,100	47	12,400			21	9,300	47	9,600
3.6			18	11,000	44	11,400			12	8,500	44	8,800
3.8			0	10,600					0	8,100		
3.9					41	10,500					41	8,100
4.2					38	9,700					38	7,500
4.5					35	9,000					35	6,900
4.8					32	8,400					32	6,500
5.1					28	7,900					28	6,000
5.4					23	7,400					23	5,700
5.7					18	7,000					18	5,300
6.0					10	6,600					10	5,000
6.2					0	6,400					0	4,800

NOTES:
A) FLY SECTION CAPACITIES ARE LIMITED BY ANGLE. DO NOT USE LOAD RADIUS WHEN USING 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 CYLINDER MUST BE FULLY RETRACTED AND AGAINST STOPS.

WARNING
FOR BOOM LENGTHS LESS THAN 13.4M WITH FLY SECTION EXTENDED, THE RATED LOADS ARE DETERMINED BY BOOM ANGLE ONLY, IN THE COLUMN HEADED BY 13.4M BOOM. FOR BOOM ANGLES NOT SHOWN USE RATINGS OF THE NEXT LOWER BOOM ANGLE.

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

LOAD CHARTS FOR BASE UNIT WITH 3 COUNTERWEIGHT SLABS

30 TONNE MOBILIFT LOAD CHART

MLLC242
2/17/2009

FOR USE WITH HOOK BLOCK ONLY
STANDARD NON-REMOVABLE "A" COUNTERWEIGHT
PLUS (3) COUNTERWEIGHT PLATES

LOAD RADIUS (METERS FROM FRONT)	FULLY EXTENDED						FULLY RETRACTED					
	BOOM LENGTH (METERS)						BOOM LENGTH (METERS)					
	∠°	4.5	LOADED BOOM ANGLE ∠°	6.7	9.1		∠°	4.5	LOADED BOOM ANGLE ∠°	6.7	9.1	
0.0	50	30,000			MANUAL FLY		50	30,000			MANUAL FLY	
0.3	45	30,000			SECTION		45	30,000			SECTION	
0.6	39	30,000	58	30,000	SEE NOTES		39	30,000	58	30,000	SEE NOTES	
0.9	33	30,000	55	30,000			33	30,000	55	30,000		
1.2	25	30,000	52	30,000	LOADED BOOM ANGLE ∠°		25	29,000	52	28,700	LOADED BOOM ANGLE ∠°	
1.5	14	30,000	48	30,000			14	23,900	48	23,600		
1.6	0	28,700					0	22,200				
1.8			45	25,900	59	26,400			45	20,100	59	20,500
2.1	SEE NOTE (E)		41	22,600	56	23,000	SEE NOTE (E)		41	17,500	56	17,900
2.4			37	20,000	54	20,400			37	15,400	54	15,800
2.7			32	17,900	52	18,200			32	13,700	52	14,100
3.0			27	16,100	49	16,500			27	12,400	49	12,700
3.3			21	14,700	47	15,100			21	11,200	47	11,600
3.6			18	13,500	44	13,800			12	10,200	44	10,600
3.8			0	13,000					0	9,900		
3.9					41	12,700					41	9,700
4.2					38	11,800					38	9,000
4.5					35	11,000					35	8,400
4.8					32	10,300					32	7,800
5.1					28	9,700					28	7,300
5.4					23	9,100					23	6,900
5.7					18	8,600					18	6,500
6.0					10	8,100					10	6,100
6.2					0	7,900					0	6,000

NOTES:
A) FLY SECTION CAPACITIES ARE LIMITED BY ANGLE. DO NOT USE LOAD RADIUS WHEN USING 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 CYLINDER MUST BE FULLY RETRACTED AND AGAINST STOPS.

WARNING
FOR BOOM LENGTHS LESS THAN 13.4M WITH FLY SECTION EXTENDED, THE RATED LOADS ARE DETERMINED BY BOOM ANGLE ONLY, IN THE COLUMN HEADED BY 13.4M BOOM. FOR BOOM ANGLES NOT SHOWN USE RATINGS OF THE NEXT LOWER BOOM ANGLE.

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.

MOBILIFT

30 TONNE

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

30 TONNE MOBILIFT LOAD CHART

MLLC243
2/17/2009

FOR USE WITH HOOK BLOCK ONLY
STANDARD NON-REMOVABLE "A" COUNTERWEIGHT
PLUS (4) COUNTERWEIGHT PLATEST

FULLY EXTENDED

LOAD RADIUS (METERS FROM FRONT)	BOOM LENGTH (METERS) 4.5	4.5	LOADED BOOM ANGLE	6.7	9.1	9.1
	∠°				MANUAL FLY SECTION	
0.0	50	30,000			SEE NOTES	
0.3	45	30,000			LOADED BOOM ANGLE ∠°	
0.6	39	30,000	58	30,000		
0.9	33	30,000	55	30,000		
1.2	25	30,000	52	30,000		
1.5	14	30,000	48	30,000		
1.6	0	30,000				
1.8			45	30,000	59	27,600
2.1	SEE NOTE (E)		41	26,500	56	26,500
2.4			37	23,500	54	23,900
2.7			32	21,000	52	21,400
3.0			27	19,000	49	19,400
3.3			21	17,300	47	17,700
3.6			18	15,900	44	16,200
3.8			0	15,300		
3.9					41	15,000
4.2					38	13,900
4.5					35	13,000
4.8					32	12,200
5.1					28	11,400
5.4					23	10,700
5.7					18	10,200
6.0					10	9,600
6.2					0	9,400

NOTES:
A) FLY SECTION CAPACITIES ARE LIMITED BY ANGLE. DO NOT USE LOAD RADIUS WHEN USING 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 CYLINDER MUST BE FULLY RETRACTED AND AGAINST STOPS.

FULLY RETRACTED

LOAD RADIUS (METERS FROM FRONT)	BOOM LENGTH (METERS) 4.5	4.5	LOADED BOOM ANGLE	6.7	9.1	9.1
	∠°				MANUAL FLY SECTION	
0.0	50	30,000			SEE NOTES	
0.3	45	30,000			LOADED BOOM ANGLE ∠°	
0.6	39	30,000	58	30,000		
0.9	33	30,000	55	30,000		
1.2	25	30,000	52	30,000		
1.5	14	27,900	48	27,700		
1.6	0	25,900				
1.8			45	23,400	59	23,900
2.1	SEE NOTE (E)		41	20,400	56	20,800
2.4			37	18,000	54	18,400
2.7			32	16,100	52	16,400
3.0			27	14,500	49	14,900
3.3			21	13,200	47	13,500
3.6			12	12,100	44	12,400
3.8			0	11,600		
3.9					41	11,400
4.2					38	10,600
4.5					35	9,900
4.8					32	9,200
5.1					28	8,700
5.4					23	8,100
5.7					18	7,700
6.0					10	7,300
6.2					0	7,100

WARNING
FOR BOOM LENGTHS LESS THAN 13.4M WITH FLY SECTION EXTENDED, THE RATED LOADS ARE DETERMINED BY BOOM ANGLE ONLY, IN THE COLUMN HEADED BY 13.4M BOOM. FOR BOOM ANGLES NOT SHOWN USE RATINGS OF THE NEXT LOWER BOOM ANGLE.

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

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

30 TONNE MOBILIFT LOAD CHART

MLLC248
2/17/2009

FOR USE WITH POWER BOOM LIFT EYE ONLY
STANDARD NON-REMOVABLE "A" COUNTERWEIGHT
PLUS (4) COUNTERWEIGHT PLATES

FULLY EXTENDED

LOAD RADIUS (METERS FROM FRONT)	∠°	POWER BOOM RETRACTED	∠°	POWER BOOM EXTENDED
0.0	41	30,000		
0.3	33	30,000	57	30,000
0.6	25	30,000	54	30,000
0.9	11	30,000	50	30,000
1.0	0	30,000		
1.2	SEE NOTE (D)		46	30,000
1.5			42	30,000
1.8			38	29,800
2.1			33	26,200
2.4			27	23,200
2.7			20	20,700
3.0			10	18,700
3.1			0	18,200

NOTES:

A) RATINGS ABOVE THE BOLD LINE ARE BASED ON THE MACHINE'S HYDRAULIC OR STRUCTURAL STRENGTH AND NOT STABILITY.
B) RATINGS BELOW THE BOLD LINE ARE BASED ON 85% OF TIPPING.

C) ALL CAPACITIES ARE IN KILOGRAMS.

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

FULLY RETRACTED

LOAD RADIUS (METERS FROM FRONT)	∠°	POWER BOOM RETRACTED	∠°	POWER BOOM EXTENDED
0.0	41	30,000		
0.3	33	30,000	57	30,000
0.6	25	30,000	54	30,000
0.9	11	30,000	50	30,000
1.0	0	30,000	0	
1.2	SEE NOTE (D)		46	30,000
1.5			42	27,000
1.8			38	23,000
2.1			33	20,000
2.4			27	17,600
2.7			20	15,800
3.0			10	14,200
3.1			0	13,800

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

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