

SIGNAL WORDS

This manual classifies personal injury risks and situations that might cause property damage with "Signal words". Signal words indicate the seriousness of injuries that might result if a particular act or omission occurs.

A DANGER	Identifies a hazardous situation which, if not avoided, <u>WILL</u> result in DEATH or SERIOUS INJURY. Use of this signal word is limited to the most extreme situations.
AWARNING	Identifies a hazardous situation which, if not avoided, COULD result in DEATH or SERIOUS INJURY.
A CAUTION	Indicates a hazardous situation which, if not avoided, COULD result in MINOR or MODERATE injury.
NOTICE	Identifies practices likely to result in product/property damage, such as operation that might damage the boom.

Safe Use Recommendations:

Vestil strives to identify all foreseeable hazards associated with the use of its products. However, material handling is dangerous and no manual can address every possible risk. The most effective means for avoiding injury is for the end user to apply sound judgment whenever using this device.

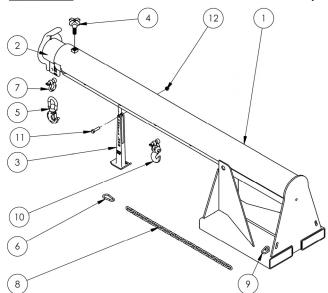
WARNING Material handling is dangerous. Improper or careless operation might result in serious personal injuries. Acquire a copy of the latest version of ANSI B56.1, which is freely downloadable on www.ITSDF.org. Apply all relevant portions of Part II "For the User". The following recommendations are intended to complement the guidance provided in B56.1.

• Always use this boom in compliance with all rules applied to fork truck attachment at your worksite.

• Failure to read and understand the instructions included in this manual before using or servicing the boom constitutes misuse.

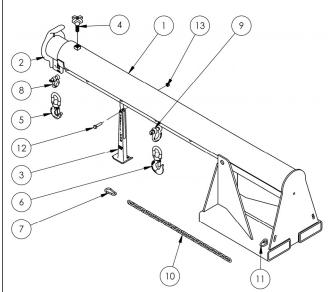
- DO NOT use a damaged boom. Inspect the boom before each use according to the relevant inspection instructions that appear on p. 25-26 to determine whether the boom is in normal operating condition.
- DO NOT contact electrified wires with the boom.
- DO NOT use the boom if the safety chain is damaged or missing. The only purpose of the safety chain is to prevent the boom from sliding off of the forks—it is NOT intended or designed to bear the full load rating.
- DO NOT lift the boom until it is securely connected to the carriage of the fork truck with the restraint strap.
- DO NOT attempt to lift a load weighing more than the boom's maximum rated load. Load ratings for all boom variants appear on pages 4, 6, 8, 10, 12, 14, 16, 18, 20, and 22.
- NEVER lift this boom over people.
- DO NOT permit any person to stand beneath or travel under the boom or the load.
- Inform everyone in the area that you are going to use the boom. Instruct them to stay clear of the boom and the supported load during use.
- DO NOT allow people to ride on either the boom or the load.
- DO NOT use the boom if any product label (see p. 27) is unreadable, damaged, or missing. Contact Vestil to order a replacement label(s).
- ALWAYS apply proper (fork) lift operation practices learned during your training program.
- Always make sure that shackle pins (see shackles in exploded parts diagrams, pp. 3-22) are secure before applying a load to the load hook. Tighten the screw pin <u>before each use</u>.
- Before raising the boom from the floor AND before attaching the load to the boom, tilt the fork lift mast away from the boom to ensure that the boom will not slide towards the tips of the forks.
- ALWAYS follow the loading and use instructions that appear on p. 23-25. Failure to properly position a load might cause a dangerous degree of load swing when the boom is elevated.
- Only use the boom to lift loads. DO NOT use the boom to drag items.
- Transport loads with the bottom of the load and the forks as low as possible.
- Drive suspended loads at low speed. Brake and turn slowly cautiously.
- DO NOT modify the boom in any way. Modifications automatically void the limited warranty (see p. 28) and might make the boom unsafe to use.

FIG. 1A: LM-1T-3-24 & LM-1T-4k Exploded Parts Diagram & Bill of Materials



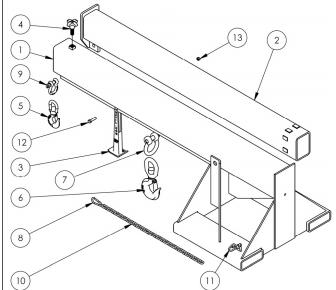
ltem	Part No.	Description	Quantity
		Weldment, frame, boom/base, 4k:	
	08-514-176	LM-1T-4-11	1
1	08-514-111	LM-1T-4-24 & LM-1T-3-24	1
	08-514-177	LM-1T-4-30	1
	08-514-178	LM-1T-4-36	1
2	08-514-261	Weldment, inner tube	1
3	08-014-134	Frame, front support leg casting	1
4	08-025-004	X-handle, locking bolt	1
5	08-145-001	Swivel hook, 2-ton	1
6	08-145-041	⁵ / ₁₆ " snap hook	1
7	08-145-010	¹ / ₂ " shackle, 2-ton	1
8	99-145-037	⁵ / ₁₆ " chain 36" long	1
9	99-145-084	Lap link	1
10	99-645-019	2-ton hook and shackle	1
11	11211	¹ / ₂ " -13UNC x 2" HHCS zinc-plated bolt	1
12	36109	¹ / ₂ " – 13UNC hex nut	1

FIG. 1B: LM-1T-6k Exploded Parts Diagram & Bill of Materials



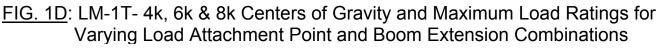
ltem	Part No.	Description	Quantity
		Weldment, frame, boom/base, 6k:	
	08-514-179	LM-1T-6-11	1
1	08-514-113	LM-1T-6-24	1
	08-514-180	LM-1T-6-30	1
	08-514-181	LM-1T-6-36	1
2	08-514-261	Weldment, inner tube	1
3	08-014-134	Frame, front support leg casting	1
4	08-025-004	X-handle, locking bolt	1
5	08-145-001	Swivel hook, 2-ton	1
6	08-145-002	Swivel hook, 3-ton	1
7	08-145-041	⁵ / ₁₆ " snap hook	1
8	08-145-010	¹ / ₂ " shackle, 2-ton	1
9	99-145-019	⁵ / ₈ " 3.25-ton shackle	1
10	99-145-037	⁵ / ₁₆ " chain 36" long	1
11	99-145-084	Lap link	1
12	11211	¹ / ₂ " -13UNC x 2" HHCS zinc-plated	1
12	11211	bolt	
13	36109	¹ / ₂ " – 13UNC hex nut	1

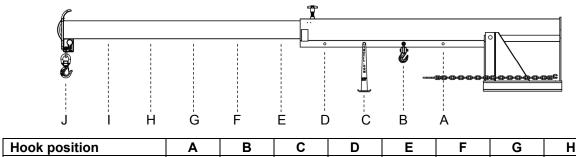
FIG. 1C: LM-1T-8k Exploded Parts Diagram & Bill of Materials



ltem	Part No.	Description	Quantity
		Weldment, frame, boom/base, 8k:	
1	08-514-115	LM-1T-8-24	1
	08-514-315	LM-1T-8-30	1
	08-514-316	LM-1T-8-36	1
2	08-514-272	Weldment, inner tube	1
3	08-014-134	Frame, front support leg casting	1
4	08-025-004	X-handle, locking bolt	1
5	08-145-002	Swivel hook, 3-ton	1
6	08-145-005	Swivel hook, 5-ton	1
7	08-145-006	⁷ / ₈ " 6.5-ton shackle	1
8	08-145-041	⁵ / ₁₆ " snap hook	1
9	99-145-019	⁵ / ₈ " 3.25-ton shackle	1
10	99-145-037	⁵ / ₁₆ " chain 36" long	1
11	99-145-084	Lap link	1
12	11211	¹ / ₂ " -13UNC x 2" HHCS zinc- plated bolt	1
13	36110	¹ / ₂ " – 13UNC zinc-plated hex nut	1

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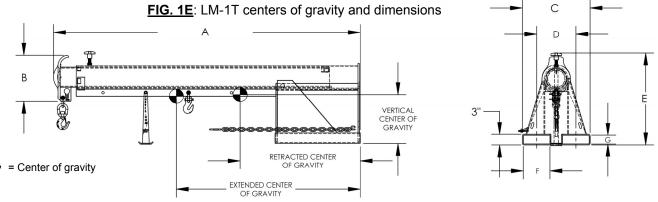




HOOK POSITION	A	D	J	U		Γ	9	п		J
Distance from end of	36"	48"	60"	72"	84"	96"	108"	120"	132"	144"
boom in inches (cm)	91 cm	122 cm	152 cm	183 cm	213 cm	244 cm	274 cm	305 cm	335 cm	366 cm
Maximum rated load of a load suspended from a single hook located at the corresponding "Hook position".										
LM-1T-3-24	3000 lb.	2750 lb.	2500 lb.	2250 lb.	2000 lb.	1750 lb.	1500 lb.	1250 lb.	1000 lb.	750 lb.
LIVI-11-3-24	1363 kg	1250 kg	1136 kg	1022 kg	909 kg	795 kg	681 kg	568 kg	454 kg	340 kg
LM-1T-4k	4000 lb.	3750 lb.	3500 lb.	3250 lb.	3000 lb.	2750 lb.	2500 lb.	2250 lb.	2000 lb.	1750 lb.
	1820 kg	1705 kg	1590 kg	1477 kg	1363 kg	1250 kg	1136 kg	1022 kg	909 kg	795 kg
LM-1T-6k	6000 lb.	5000 lb.	4500 lb.	4000 lb.	3500 lb.	3000 lb.	2600 lb.	2300 lb.	2000 lb.	1800 lb.
LIVI-TT-OK	2727 kg	2272 kg	2045 kg	1820 kg	1590 kg	1363 kg	1181 kg	1045 kg	909 kg	818 kg
LM-1T-8k	8000 lb.	6650 lb.	6000 lb.	5300 lb.	4650 lb.	4000 lb.	3500 lb.	3000 lb.	2600 lb.	2200 lb.
LIVI-TT-OK	3636 kg	3022 kg	2727 kg	2409 kg	2113 kg	1820 kg	1590 kg	1363 kg	1181 kg	1000 kg

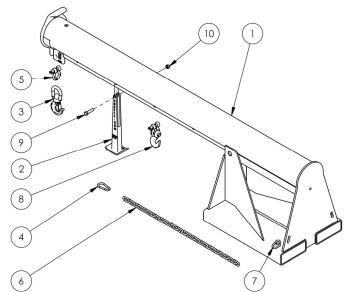
The center of gravity of the boom changes as boom length changes. As shown in the diagram below, the horizontal center of gravity may be located at any point from RHCG to EHCG:

- <u>Retracted horizontal center of gravity (RHCG)</u>: boom fully *retracted* and unloaded. RHCG is measured from the "origin point" of the above diagram (edges of the fork pockets);
- Extended horizontal center of gravity (EHCG): boom fully extended and unloaded. EHCG is also measured from the "origin point" of the above diagram (edges of the fork pockets);
- All other combinations of boom extension and load position produce a horizontal center of gravity located somewhere between RHCG and EHCG.



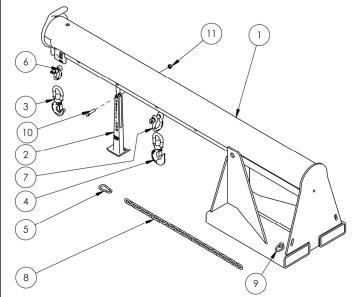
Model	Extended horizontal center of gravity	Retracted horizontal center of gravity	Vertical center of gravity	Α	В	С	D	Е	F	G	Net weight
LM-1T-3-24	48 ¹³ / ₁₆ " (124 cm)	32 ¹¹ / ₁₆ (83 cm)	13 ¹³ / ₁₆ " (33.5 cm)	86-151 ¹ / ₄ "	13"	32"	24"	25 ⁷ / ₈ "	7 ¹ / ₂ "	2 ¹ / ₂ "	434.4 lb.
LM-1T-4-11	51 in. (129.5 cm)	33 ¹⁵ / ₁₆ in. (86.2 cm)	13 ⁵ / ₈ " (34.6 cm)	86-153 ¹ / ₂ "	13"	19"	11"	25 ⁷ / ₈ "	7 ¹ / ₂ "	2 ¹ / ₂ "	404.7 lb.
LM-1T-4-24	48 ¹³ / ₁₆ in. (124.0 cm)	32 ¹¹ / ₁₆ in. (83.0 cm)	13 ³ / ₁₆ " (33.5 cm)	86-153 ¹ / ₂ "	13"	32"	24"	25 ⁷ / ₈ "	7 ¹ / ₂ "	2 ¹ / ₂ "	429.3 lb.
LM-1T-4-30	47 ⁷ / ₁₆ in. (120.5 cm)	32 in. (81.3 cm)	12 ¹⁵ / ₁₆ " (32.9 cm)	86-153 ¹ / ₂ "	13"	38"	30"	25 ⁷ / ₈ "	7 ¹ / ₂ "	2 ¹ / ₂ "	447.4 lb.
LM-1T-4-36	46 ³ / ₁₆ in. (117.3 cm)	31 ⁵ / ₁₆ in. (79.5 cm)	12 ¹¹ / ₁₆ " (32.2 cm)	86-153 ¹ / ₂ "	13"	44"	36"	25 ⁷ / ₈ "	7 ¹ / ₂ "	2 ¹ / ₂ "	465.4 lb.
LM-1T-6-11	47 ⁷ / ₁₆ in. (120.5 cm)	32 ³ / ₁₆ in. (81.8 cm)	12 ⁵ / ₈ " (32.1 cm)	86-153 ¹ / ₂ "	13"	19"	11"	25 ⁷ / ₈ "	7 ¹ / ₄ "	2 ¹ / ₄ "	452.7 lb.
LM-1T-6-24	45 ¹¹ / ₁₆ in. (116 cm)	31 ³ / ₁₆ in. (79.2 cm)	12 ⁵ / ₁₆ " (31.3 cm)	86-153 ¹ / ₂ "	13"	32"	24"	25 ⁷ / ₈ "	7 ¹ / ₄ "	2 ¹ / ₄ "	477.4 lb.
LM-1T-6-30	44 ¹ / ₂ in. (113 cm)	30 ⁹ / ₁₆ in. (77.6 cm)	12 ¹ / ₈ " (30.8 cm)	86-153 ¹ / ₂ "	13"	38"	30"	25 ⁷ / ₈ "	7 ¹ / ₄ "	2 ¹ / ₄ "	497.0 lb.
LM-1T-6-36	43 ³ / ₈ in. (110.2 cm)	29 ¹⁵ / ₁₆ in. (76 cm)	11 ¹⁵ / ₁₆ " (30.3 cm)	86-153 ¹ / ₂ "	13"	44"	36"	25 ⁷ / ₈ "	7 ¹ / ₄ "	2 ¹ / ₄ "	516.5 lb.
LM-1T-8-24	53 ¹ / ₄ in. (135.3 cm)	34 ⁷ / ₁₆ in. (87.5 cm)	13 ⁵ / ₈ " (34.6 cm)	84 ⁵ / ₈ -149 ¹ / ₈ "	11 ¹ / ₂ "	32"	24"	26 ⁹ / ₁₆ "	7 ¹ / ₄ "	2 ¹ / ₄ "	665.3 lb.
LM-1T-8-30	53 ¹ / ₄ in. (135.3 cm)	34 ⁷ / ₁₆ in. (87.5 cm)	13 ⁵ / ₈ " (34.6 cm)	84 ⁵ / ₈ -149 ¹ / ₈ "	11 ¹ / ₂ "	38"	30"	26 ⁹ / ₁₆ "	7 ¹ / ₄ "	2 ¹ / ₄ "	688.5 lb.
LM-1T-8-36	53 ¹ / ₄ in. (135.3 cm)	34 ⁷ / ₁₆ in. (87.5 cm)	13 ⁵ / ₈ " (34.6 cm)	84 ⁵ / ₈ -149 ¹ / ₈ "	11 ¹ / ₂ "	44"	36"	26 ⁹ / ₁₆ "	7 ¹ / ₄ "	2 ¹ / ₄ "	711.7 lb.

FIG. 1F: LM-1NT-4k Exploded Parts Diagram & Bill of Materials



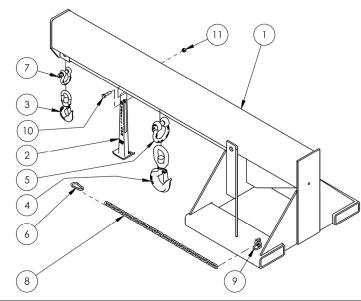
Item	Part No.	Description	Quantity
		Weldment, frame, boom/base:	
	08-514-319	LM-1NT-4-11	1
1	08-514-128	LM-1NT-4-24	1
	08-514-320	LM-1NT-4-30	1
	08-514-321	LM-1NT-4-36	1
2	08-014-134	Frame, front support leg casting	1
3	08-145-001	Swivel hook, 2-ton	1
4	08-145-041	⁵ / ₁₆ " snap hook	1
5	08-145-010	¹ / ₂ " 2-ton shackle	1
6	99-145-037	⁵ / ₁₆ " chain 36" long	1
7	99-145-084	Lap link	1
8	99-645-019	2-ton hook and shackle	1
9	11211	¹ / ₂ in. – 13 UNC x 2in. HHCS zinc- plated bolt	1
10	36109	¹ / ₂ in. – 13 UNC hex nut	1

FIG. 1G: LM-1NT-6k Exploded Parts Diagram & Bill of Materials



Item	Part No.	Description	Quantity
		Weldment, frame, boom/base:	
	08-514-322	LM-1NT-6-11	1
1	08-514-129	LM-1NT-6-24	1
	08-514-323	LM-1NT-6-30	1
	08-514-324	LM-1NT-6-36	1
2	08-014-134	Frame, front support leg casting	1
3	08-145-001	Swivel hook, 2-ton	1
4	08-145-002	Swivel hook, 3-ton	1
5	08-145-041	⁵ / ₁₆ " snap hook	1
6	08-145-010	¹ / ₂ " 2-ton shackle	1
7	99-145-019	⁵ / ₈ " 3.25-ton shackle	1
8	99-145-037	⁵ / ₁₆ " chain 36" long	1
9	99-145-084	Lap link	1
10	11211	¹ / ₂ in. – 13 UNC x 2in. HHCS zinc-plated bolt	1
11	36109	¹ / ₂ in. – 13 UNC hex nut	1

FIG. 1H: LM-1NT-8k Exploded Parts Diagram & Bill of Materials

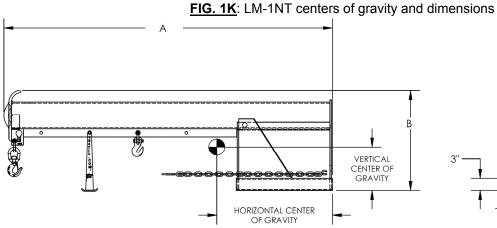


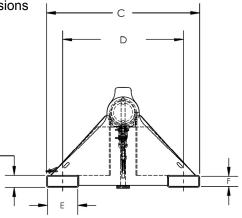
Item	Part No.	Description	Quantity
		Weldment, frame, boom/base:	
1	08-514-130	LM-1NT-8-24	1
	08-514-317	LM-1NT-8-30	1
	08-514-318	LM-1NT-8-36	1
2	08-014-134	Frame, front support leg	1
		casting	
3	08-145-002	Swivel hook, 3-ton	1
4	08-145-005	Swivel hook, 5-ton	1
5	08-145-006	⁷ / ₈ " 6.5-ton shackle	1
6	08-145-041	⁵ / ₁₆ " snap hook	1
7	99-145-019	⁵ / ₈ " 3.25-ton shackle	1
8	99-145-037	⁵ / ₁₆ " chain 36" long	1
9	99-145-084	Lap link	1
10	11211	¹ / ₂ in. – 13 UNC x 2in. HHCS zinc-plated bolt	1
11	36110	¹ / ₂ " – 13UNC zinc-plated hex nut	1

FIG. 1J: LM-1NT- 4k, 6k & 8k Centers of Gravity and Maximum Load Ratings for Varying Load Attachment Points

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Hook position	Α	В	С	D	Е
Distance from end of boom in inches (cm)	36"	48"	60"	72"	84"
	91 cm	122 cm	152 cm	183 cm	213 cm
Maximum rated load of a load s corresponding "Hook position"		from a <i>sing</i>	gle hook loc	ated at the	
LM-1NT-4k	4000 lb.	3750 lb.	3500 lb.	3250 lb.	3000 lb.
	1820 kg	1705 kg	1590 kg	1477 kg	1363 kg
LM-1NT-6k	6000 lb.	5000 lb.	4500 lb.	4000 lb.	3500 lb.
	2727 kg	2272 kg	2045 kg	1820 kg	1590 kg
LM-1NT-8k	8000 lb.	6650 lb.	6000 lb.	5300 lb.	4850 lb.
	3636 kg	3022 kg	2727 kg	2409 kg	2205 kg

Center of gravity has both a horizontal component and a vertical component. The *vertical* center of gravity (VCG) lies along a horizontal line above the bottom edges of the fork pockets. Similarly, the *horizontal* center of gravity (HCG) is located along a vertical line as shown in the diagram below.





Model	Horizontal center of gravity	Vertical center of gravity	Α	в	с	D	Е	F	Net weight
LM-1NT-4-11	28 ¹¹ / ₁₆ " (72.9 cm)	10 ¹³ / ₁₆ " (27.5 cm)	81 ¹ / ₂ "	27 ¹¹ / ₁₆ "	19"	11"	7 ¹ / ₂ "	2 ¹ / ₂ "	309.9 lb.
LM-1NT-4-24	28 ¹¹ / ₁₆ " (72.9 cm)	10 ¹³ / ₁₆ " (27.5 cm)	81 ¹ / ₂ "	24 ¹³ / ₁₆ "	32"	24"	7 ¹ / ₂ "	2 ¹ / ₂ "	334.6 lb.
LM-1NT-4-30	28 ¹¹ / ₁₆ " (72.9 cm)	10 ¹³ / ₁₆ " (27.5 cm)	81 ¹ / ₂ "	24 ¹³ / ₁₆ "	38"	30"	7 ¹ / ₂ "	2 ¹ / ₂ "	352.6 lb.
LM-1NT-4-36	28 ¹¹ / ₁₆ " (72.9 cm)	10 ¹³ / ₁₆ " (27.5 cm)	81 ¹ / ₂ "	24 ¹³ / ₁₆ "	44"	36"	7 ¹ / ₂ "	2 ¹ / ₂ "	370.6 lb.
LM-1NT-6-11	27" (68.6cm)	10 ¹³ / ₁₆ " (27.5 cm)	81 ¹ / ₂ "	24 ¹³ / ₁₆ "	19"	11"	7 ¹ / ₄ "	2 ¹ / ₄ "	357.7 lb.
LM-1NT-6-24	27" (68.6cm)	10 ¹³ / ₁₆ " (27.5 cm)	81 ¹ / ₂ "	24 ¹³ / ₁₆ "	32"	24"	7 ¹ / ₄ "	2 ¹ / ₄ "	382.4 lb.
LM-1NT-6-30	27" (68.6cm)	10 ¹³ / ₁₆ " (27.5 cm)	81 ¹ / ₂ "	24 ¹³ / ₁₆ "	38"	30"	7 ¹ / ₄ "	2 ¹ / ₄ "	402.0 lb.
LM-1NT-6-36	27" (68.6cm)	10 ¹³ / ₁₆ " (27.5 cm)	81 ¹ / ₂ "	24 ¹³ / ₁₆ "	44"	36"	7 ¹ / ₄ "	2 ¹ / ₄ "	421.5 lb.
LM-1NT-8-24	30 ¹ / ₈ " (29.8 cm)	11 ³ / ₄ " (29.8 cm)	80 ¹ / ₈ "	23 ¹ / ₂ "	32"	24"	7 ¹ / ₄ "	2 ¹ / ₄ "	488.4 lb.
LM-1NT-8-30	30 ¹ / ₈ " (29.8 cm)	11 ³ / ₄ " (29.8 cm)	80 ¹ / ₈ "	23 ¹ / ₂ "	38"	30"	7 ¹ / ₄ "	2 ¹ / ₄ "	506.9 lb.
LM-1NT-8-36	30 ¹ / ₈ " (29.8 cm)	11 ³ / ₄ " (29.8 cm)	80 ¹ / ₈ "	23 ¹ / ₂ "	44"	36"	7 ¹ / ₄ "	2 ¹ / ₄ "	525.4 lb.

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FIG. 2A: LM-OBT-3-24 & LM-OBT-4k Exploded Parts Diagram & Bill of Materials Item Part No. Quantity Description 1 2 13 Weldment, frame, boom + base: 08-514-119 LM-OBT-4k-24 & LM-OBT-3-24 1 7 1 08-514-298 LM-OBT-4k-30 1 08-514-299 LM-OBT-4k-36 1 2 08-514-293 Weldment, inner tube 1 3 1 01-146-006 Spring 5 Frame, front supporting leg (small) 08-014-069-001 1 4 <u>casti</u>ng 12 5 08-145-001 Swivel hook, 2-ton 1 6 08-145-041 ⁵/₁₆" snap hook 1 4 08-145-010 7 ¹/₂" 2-ton shackle 1 10

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08-645-008

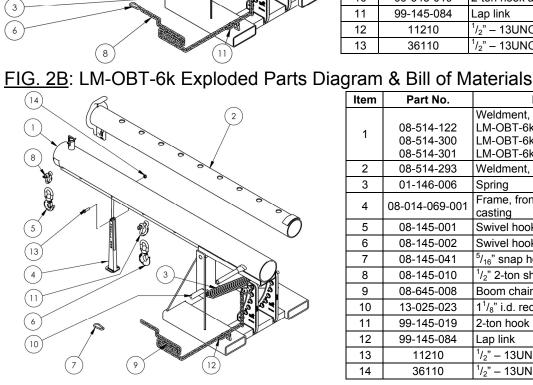
13-025-023

99-645-019

99-145-084

11210

36110



Item	Part No.	Description	Quantity
		Weldment, frame, boom + base:	
1	08-514-122	LM-OBT-6k-24	1
I	08-514-300	LM-OBT-6k-30	1
	08-514-301	LM-OBT-6k-36	1
2	08-514-293	Weldment, inner tube	1
3	01-146-006	Spring	1
4	08-014-069-001	Frame, front supporting leg (small) casting	1
5	08-145-001	Swivel hook, 2-ton	1
6	08-145-002	Swivel hook, 3-ton	1
7	08-145-041	⁵ / ₁₆ " snap hook	1
8	08-145-010	¹ / ₂ " 2-ton shackle	1
9	08-645-008	Boom chain and pin	1
10	13-025-023	1 ¹ /8" i.d. red handle grip	1
11	99-145-019	2-ton hook and shackle	1
12	99-145-084	Lap link	1
13	11210	¹ / ₂ " – 13UNC x 1 ³ / ₄ " hex bolt	1
14	36110	¹ / ₂ " – 13UNC zinc-plated hex nut	1

Boom chain and pin

Lap link

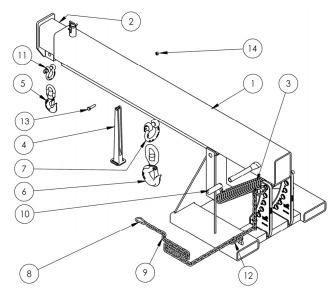
 $1^{1}/_{8}$ " i.d. red handle grip

2-ton hook and shackle

¹/₂" – 13UNC x 1³/₄" hex bolt

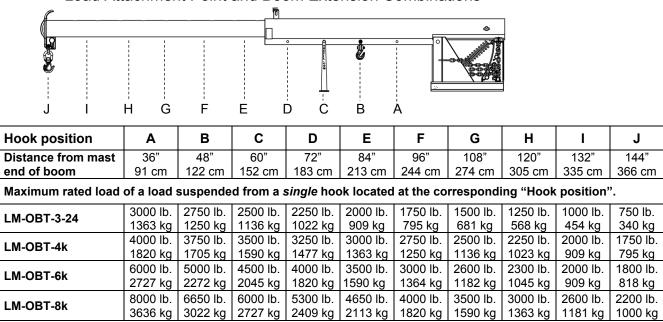
¹/₂" – 13UNC zinc-plated hex nut

FIG. 2C: LM-OBT-8k Exploded Parts Diagram & Bill of Materials



Item	Part No.	Description	Quantity
		Weldment, frame, boom + base:	
1	08-514-125	LM-OBT-8k-24	1
1	08-514-311	LM-OBT-8k-30	1
	08-514-312	LM-OBT-8k-36	1
2	08-014-069-001	Frame, front supporting leg (small) casting	1
3	08-514-310	Weldment, inner tube	1
4	01-146-006	Spring	2
5	08-145-002	Swivel hook, 3-ton	1
6	08-145-005	Swivel hook, 5-ton	1
7	08-145-006	⁷ / ₈ " 6.5-ton shackle	1
8	08-145-041	⁵ / ₁₆ " snap hook	1
9	08-645-008	Boom chain and pin	1
10	13-025-023	1 ¹ / ₈ " i.d. red handle grip	1
11	99-145-019	2-ton hook and shackle	1
12	99-145-084	Lap link	1
13	11211	¹ / ₂ " – 13UNC x 2" hex bolt	1
14	36110	¹ / ₂ " – 13UNC zinc-plated hex nut	1

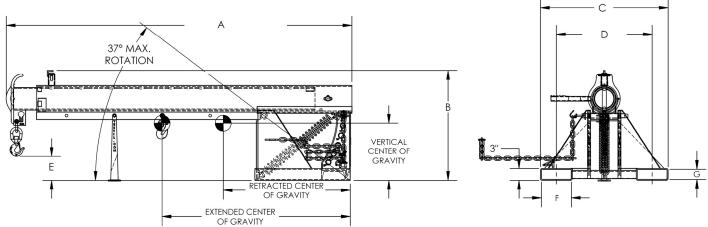




The center of gravity of the boom changes as boom length changes. As shown in the diagram below, the horizontal center of gravity may be located at any point from RHCG to EHCG:

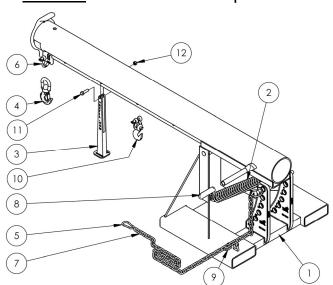
- <u>Retracted horizontal center of gravity (RHCG)</u>: boom fully *retracted* and unloaded. RHCG is measured from the "origin point" of the above diagram (edges of the fork pockets);
- <u>Extended horizontal center of gravity (EHCG)</u>: boom fully *extended* and unloaded. EHCG is also measured from the "origin point" of the above diagram (edges of the fork pockets);
- All other combinations of boom extension and load position produce a horizontal center of gravity located somewhere between RHCG and EHCG.

FIG. 2E: LM-OBT centers of gravity and dimensions



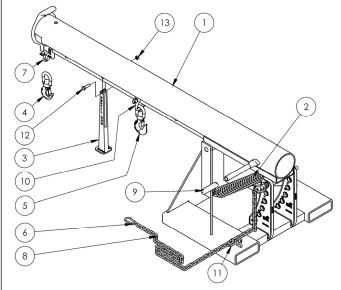
Model	Extended horizontal center of gravity	Retracted horizontal center of gravity	Vertical center of gravity	А	в	с	D	Е	F	G	Net weight
LM-OBT-3-24	47" (119.4 cm)	32 ³ / ₈ " (82.2 cm)	14 ⁵ / ₁₆ " (36.4 cm)	86 ⁵ / ₈ "-146 ⁵ / ₈ "	27 ¹¹ / ₁₆ "	32"	24"	6"	7 ¹ / ₂ "	2 ¹ / ₂ "	436.7 lb.
LM-OBT-4-24	47" (119.4 cm)	32 ³ / ₈ " (82.2 cm)	14 ⁵ / ₁₆ " (36.4 cm)	86 ⁵ / ₈ "-146 ⁵ / ₈ "	27 ¹¹ / ₁₆ "	32"	24"	6"	7 ¹ / ₂ "	2 ¹ / ₂ "	433.9 lb.
LM-OBT-4-30	45 ¹³ / ₁₆ " (116.4 cm)	31 ³ / ₄ " (80.6 cm)	13 ¹⁵ / ₁₆ " (35.4 cm)	86 ⁵ / ₈ "-146 ⁵ / ₈ "	27 ¹¹ / ₁₆ "	38"	30"	6"	7 ¹ / ₂ "	2 ¹ / ₂ "	451.5 lb.
LM-OBT-4-36	44 ¹¹ / ₁₆ " (113.5 cm)	31 ³ / ₁₆ " (79.2 cm)	13 ¹¹ / ₁₆ " (34.8 cm)	86 ⁵ / ₈ "-146 ⁵ / ₈ "	27 ¹¹ / ₁₆ "	44"	36"	6"	7 ¹ / ₂ "	2 ¹ / ₂ "	469.1 lb.
LM-OBT-6-24	44 ¹ / ₁₆ " (112 cm)	30 ¹⁵ / ₁₆ " (78.6 cm)	13 ⁵ / ₁₆ " (33.8 cm)	86 ⁵ / ₈ "-146 ⁵ / ₈ "	27 ¹¹ / ₁₆ "	32"	24"	6"	7 ¹ / ₄ "	2 ¹ / ₄ "	481.9 lb.
LM-OBT-6-30	43" (109.2 cm)	30 ³ / ₈ " (77.2 cm)	13 ¹ / ₁₆ " (33.2 cm)	86 ⁵ / ₈ "-146 ⁵ / ₈ "	27 ¹¹ / ₁₆ "	38"	30"	6"	$7^{1}/_{4}$ "	2 ¹ / ₄ "	501.1 lb.
LM-OBT-6-36	42" (106.7 cm)	29 ¹³ / ₁₆ " (75.7 cm)	12 ¹³ / ₁₆ " (32.5 cm)	86 ⁵ / ₈ "-146 ⁵ / ₈ "	27 ¹¹ / ₁₆ "	44"	36"	6"	7 ¹ / ₄ "	2 ¹ / ₄ "	520.3 lb.
LM-OBT-8-24	51 ¹¹ / ₁₆ " (131.3 cm)	35" (88.9 cm)	15 ¹ / ₄ " (38.7 cm)	85 ¹ / ₄ "-145 ¹ / ₄ "	28 ⁷ / ₈ "	32"	24"	5 ¹ / ₈ "	7 ¹ / ₄ "	2 ¹ / ₄ "	665.0 lb.
LM-OBT-8-30	51 ¹¹ / ₁₆ " (131.3 cm)	35" (88.9 cm)	15 ¹ / ₄ " (38.7 cm)	85 ¹ / ₄ "-145 ¹ / ₄ "	28 ⁷ / ₈ "	38"	30"	5 ¹ / ₈ "	7 ¹ / ₄ "	2 ¹ / ₄ "	684.1 lb.
LM-OBT-8-36	51 ¹¹ / ₁₆ " (131.3 cm)	35" (88.9 cm)	15 ¹ / ₄ " (38.7 cm)	85 ¹ / ₄ "-145 ¹ / ₄ "	28 ⁷ / ₈ "	44"	36"	5 ¹ / ₈ "	7 ¹ / ₄ "	2 ¹ / ₄ "	703.3 lb.

FIG. 2F: LM-OBNT-4k Exploded Parts Diagram & Bill of Materials



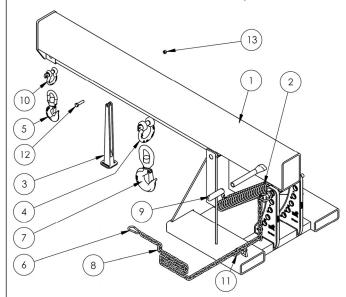
ltem	Part No.	Description	Quantity
		Weldment, frame, boom + base	
1	08-514-132	LM-OBNT-4-24	1
1	08-514-302	LM-OBNT-4-30	1
	08-514-303	LM-OBNT-4-36	1
2	01-146-006	Spring	1
3	08-014-069-001	Frame, front support leg (small) casting	1
4	08-145-001	Swivel hook, 2-ton	1
5	08-145-041	⁵ / ₁₆ " snap hook	1
6	08-145-010	¹ / ₂ " 2-ton shackle	1
7	08-645-008	Assembly, boom chain and pin	1
8	13-025-023	1 ¹ /8" inner diameter red handle grip	1
9	99-145-084	Lap link	1
10	99-645-019	2-ton hook and shackle	1
11	11210	$1/_2$ " – 13UNC x $1^3/_4$ " hex bolt	1
12	36110	$\frac{1}{2}$ " – 13 zinc-plated hex nut	1

FIG. 2G: LM-OBNT-6k Exploded Parts Diagram & Bill of Materials



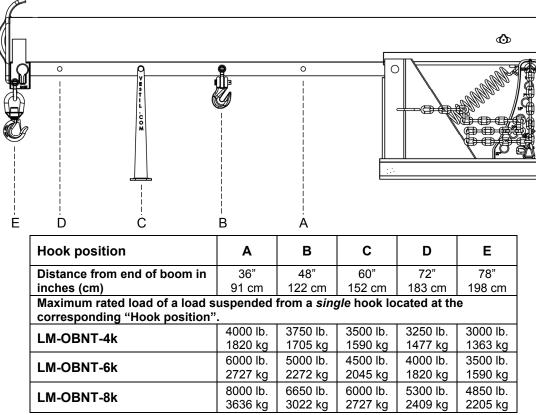
Item	Part No.	Description	Quantity
		Weldment, frame, boom + base	
1	08-514-134	LM-OBNT-6-24	1
1	08-514-304	LM-OBNT-6-30	1
	08-514-305	LM-OBNT-6-36	1
2	01-146-006	Spring	1
3	08-014-069-001	Frame, front support leg (small) casting	1
4	08-145-001	Swivel hook, 2-ton	1
5	08-145-002	Swivel hook, 3-ton	1
6	08-145-041	⁵ / ₁₆ " snap hook	1
7	08-145-010	¹ / ₂ " 2-ton shackle	1
8	08-645-008	Assembly, boom chain and pin	1
9	13-025-023	1 ¹ / ₈ " inner diameter red handle grip	1
10	99-145-019	⁵ / ₈ " 3 ¹ / ₄ -ton shackle	1
11	99-145-084	Lap link	1
12	11210	$\frac{1}{2}$ " – 13UNC x 1 $\frac{3}{4}$ " hex bolt	1
13	36110	¹ / ₂ " – 13 zinc-plated hex nut	1

FIG. 2H: LM-OBNT-8k Exploded Parts Diagram & Bill of Materials

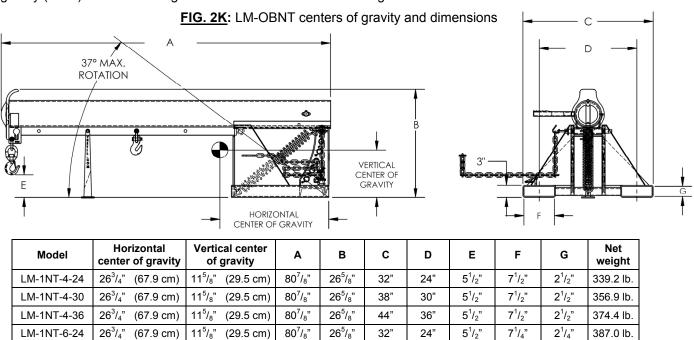


Item	Part No.	Description	Quantity
		Weldment, frame, boom + base	
1	08-514-136	LM-OBNT-8-24	1
	08-514-308	LM-OBNT-8-30	1
	08-514-309	LM-OBNT-8-36	1
2	01-146-006	Spring	2
3	08-014-069-001	Frame, front support leg (small) casting	1
4	08-145-006	⁷ / ₈ " 6 ¹ / ₂ -ton shackle	1
5	08-145-002	Swivel hook, 3-ton	1
6	08-145-041	⁵ / ₁₆ " snap hook	1
7	08-145-005	Swivel hook, 5-ton	1
8	08-645-008	Assembly, boom chain and pin	1
9	13-025-023	1 ¹ / ₈ " inner diameter red handle grip	1
10	99-145-019	⁵ / ₈ " 3 ¹ / ₄ -ton shackle	1
11	99-145-084	Lap link	1
12	11211	¹ / ₂ " – 13UNC x 2" hex bolt	1
13	36110	¹ / ₂ " – 13 zinc-plated hex nut	1

FIG. 2J: LM-OBNT- 4k, 6k & 8k Centers of Gravity and Maximum Load Ratings for Varying Load Attachment Points



Center of gravity has both a horizontal component and a vertical component. The vertical center of gravity (VCG) lies along a horizontal line above the bottom edges of the fork pockets. Similarly, the horizontal center of gravity (HCG) is located along a vertical line as shown in the diagram below.



26⁵/₈"

26⁵/₈"

25¹/₈"

25¹/₈"

 $25^{1}/_{8}$ "

38"

44"

32"

38'

44"

30"

36"

24"

30"

36"

80⁷/₈"

80⁷/₈"

79¹/₂"

79¹/₂'

79¹/₂"

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(67.9 cm)

(67.9 cm)

(76.8 cm)

(76.8 cm)

(76.8 cm)

LM-1NT-6-30

LM-1NT-6-36

LM-1NT-8-24

LM-1NT-8-30

LM-1NT-8-36

 $26^{3}/_{4}$ "

 $26^{3}/_{4}$ "

 $30^{1}/_{4}$ "

30¹/₄"

 $30^{1}/_{4}$ "

11⁵/₈"

11⁵/₈"

13³/₁₆"

13³/₁₆"

13³/₁₆"

(29.5 cm)

(29.5 cm)

(33.5 cm)

(33.5 cm)

(33.5 cm)

406.2 lb.

425.4 lb.

490.9 lb.

510.0 lb.

521.2 lb.

 $5^{1}/_{2}$ "

 $5^{1}/_{2}$ "

4¹¹/₁₆"

4¹¹/₁₆"

 $4^{11}/_{16}$ "

 $7^{1}/_{4}$ "

 $7^{1}/_{4}$ "

 $7^{1}/_{4}$ "

 $7^{1}/_{4}$ "

 $7^{1}/_{4}$ "

 $2^{1}/_{4}$

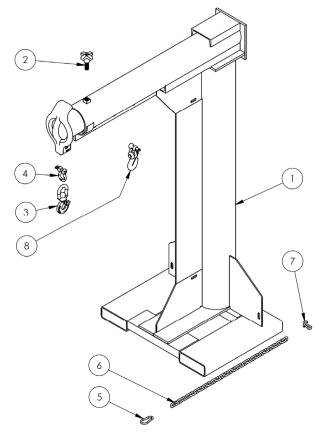
 $2^{1}/_{4}$

 $2^{1}/_{4}$

 $2^{1}/_{4}$

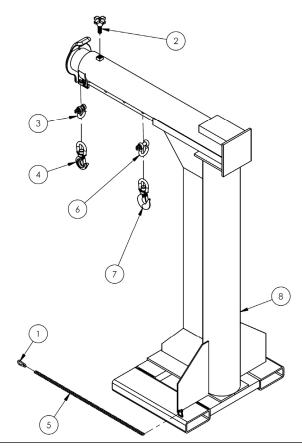
 $2^{1}/_{4}$

FIG. 3A: LM-HRT-4k Exploded Parts Diagram & Bill of Materials



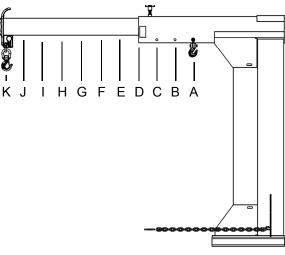
ltem	Part No.	Description	Quantity
		Assembly, frame, boom	
1	08-514-005	LM-HRT-4k 24	1
	08-514-337	LM-HRT-4k-30	1
	08-514-339	LM-HRT-4k-36	1
2	08-025-004	X-handle, locking bolt	1
3	08-145-001	Swivel hook, 2-ton	1
4	08-145-010	¹ / ₂ in. 2-ton shackle	1
5	08-145-041	⁵ / ₁₆ in. snap hook	1
6	99-145-037	⁵ / ₁₆ in. x 36in. chain	1
7	99-145-084	Lap link	1
8	99-645-019	2-ton hook and shackle	1

FIG. 3B: LM-HRT-6k Exploded Parts Diagram & Bill of Materials



Item	Part No.	Description	Quantity
		Assembly, frame, boom	
1	08-514-006	LM-HRT-6k 24	1
	08-514-338	LM-HRT-6k-30	1
	08-514-340	LM-HRT-6k-36	1
2	08-025-004	X-handle, locking bolt	1
3	08-145-001	Swivel hook, 2-ton	1
4	08-145-002	Swivel hook, 3-ton	1
5	08-145-010	¹ / ₂ " 2-ton shackle	1
6	08-145-041	⁵ / ₁₆ " snap hook	1
7	99-145-019	⁵ / ₈ " 3 ¹ / ₄ -ton hook and shackle	1
8	99-145-037	⁵ / ₁₆ ' x 36" chain	1
9	99-145-084	Lap link	1

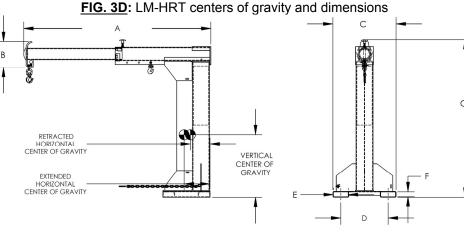
FIG. 3C: LM-HRT- 4k & 6k Centers of Gravity and Maximum Load Ratings for Varying Load Attachment Point and Boom Extension Combinations



Hook position	Α	В	С	D	Е	F	G	н	I	J	к
Distance from end of boom	30" 76 cm	36" 91 cm	42" 107 cm	48" 122 cm	54" 137 cm	60" 152 cm	66" 168 cm	72" 183 cm	78" 198 cm	84" 213 cm	90" 229 cm
Maximum rated load	l of a load	suspend	ed from a	single ho	ok locate	d at the c	orrespond	ding "Hoo	k positior	າ".	
LM-HRT-4-24	4000 lb. 1820 kg	3750 lb. 1705 kg	3500 lb. 1590 kg	3250 lb. 1477 kg	3000 lb. 1363 kg		2500 lb. 1136 kg	2250 lb. 1022 kg	2000 lb. 909 kg	1750 lb. 796 kg	1500 lb. 682 kg
LM-HRT-6-24	6000 lb. 2727 kg	5000 lb. 2273 kg	4500 lb. 2046 kg	4000 lb. 1818 kg	3500 lb. 1591 kg	3000 lb. 1363 kg	2600 lb. 1182 kg	2300 lb. 1046 kg	2000 lb. 909 kg	1800 lb. 818 kg	1550 lb. 705 kg

The center of gravity of the boom changes as boom length changes. As shown in the diagram below, the horizontal center of gravity may be located at any point from RHCG to EHCG:

- <u>Retracted horizontal center of gravity (RHCG)</u>: boom fully retracted and unloaded. RHCG is measured from the "origin point" of the above diagram (edges of the fork pockets);
- <u>Extended horizontal center of gravity (EHCG)</u>: boom fully *extended and unloaded*. EHCG is also measured from the "origin point" of the above diagram (edges of the fork pockets);
- All other combinations of boom extension and load position produce a horizontal center of gravity located somewhere between RHCG and EHCG.

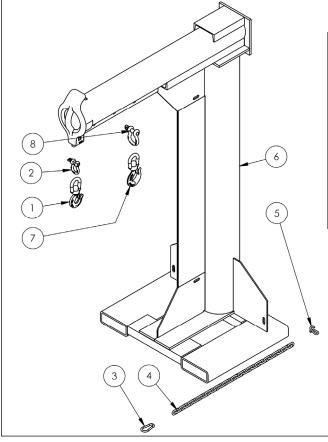


Model	Extended horizontal center of gravity	Retracted horizontal center of gravity	Vertical center of gravity	А	в	С	D	Е	F	G	Net weight
LM-HRT-4-24	13 ³ / ₁₆ " (33.5 cm)	10" (25.4 cm)	38 ¹¹ / ₁₆ " (98.3 cm)	54 ⁷ / ₈ "-94 ⁷ / ₈ "	13"	32"	24"	7 ¹ / ₂ "	2 ¹ / ₂ "	79 ¹³ / ₁₆ "	943.7 lb.
LM-HRT-4-30	13 ¹ / ₈ " (33.3 cm)	10 ¹ / ₄ " (26 cm)	37 ⁵ / ₁₆ " (94.8 cm)	54 ⁷ / ₈ "-94 ⁷ / ₈ "	13"	38"	30"	7 ¹ / ₂ "	2 ¹ / ₂ "	79 ¹³ / ₁₆ "	958.9 lb.
LM-HRT-4-36	13 ¹ / ₁₆ " (33.2 cm)	10 ¹ / ₄ " (26 cm)	36 ¹³ / ₁₆ " (93.5 cm)	54 ⁷ / ₈ "-94 ⁷ / ₈ "	13"	44"	36"	7 ¹ / ₂ "	2 ¹ / ₂ "	79 ¹³ / ₁₆ "	974.1 lb.
LM-HRT-6-24	13 ³ / ₁₆ " (33.5 cm)	10 ³ / ₈ " (26.4 cm)	36 ¹³ / ₁₆ " (93.5 cm)	54 ⁷ / ₈ "-94 ⁷ / ₈ "	13"	32"	24"	7 ¹ / ₄ "	2 ¹ / ₄ "	79 ¹³ / ₁₆ "	978.2 lb.
LM-HRT-6-30	13 ¹ / ₈ " (33.3 cm)	10 ³ / ₈ " (26.4 cm)	36 ⁵ / ₁₆ " (92.3 cm)	54 ⁷ / ₈ "-94 ⁷ / ₈ "	13"	38"	30"	7 ¹ / ₄ "	2 ¹ / ₄ "	79 ¹³ / ₁₆ "	993.4 lb.
LM-HRT-6-36	13 ¹ / ₈ " (33.3 cm)	10 ³ / ₈ " (26.4 cm)	35 ¹³ / ₁₆ " (91 cm)	54 ⁷ / ₈ "-94 ⁷ / ₈ "	13"	44"	36"	7 ¹ / ₄ "	2 ¹ / ₄ "	79 ¹³ / ₁₆ "	1008.6 lb.

FIG. 3E: LM-HRNT-4k Exploded Parts Diagram & Bill of Materials 1 3 2 7 4 5

ltem	Part No.	Quantity	
		Frame, boom + base weldment:	
1	08-514-007	LM-HRNT-4-24	1
I	08-514-341	LM-HRNT-4-30	1
	08-514-343	LM-HRNT-4-36	1
2	08-145-001	2-ton hook	1
3	08-145-010	Specialty hardware: 2-ton shackle	1
4	08-145-041	⁵ / ₁₆ in. snap hook	1
5	99-145-037	⁵ / ₁₆ in. x 36in. chain	1
6	99-145-084	Lap link	1
7	99-645-019	2-ton hook and shackle	1

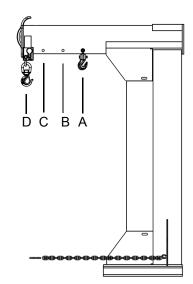
FIG. 3F: LM-HRNT-6k Exploded Parts Diagram & Bill of Materials



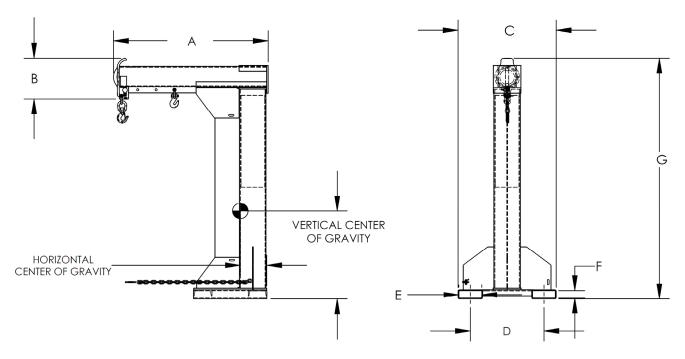
Item	Part No.	Description	Quantity
1	08-145-001	Swivel hook, 2-ton	1
2	08-145-010	¹ / ₂ " 2-ton shackle	1
3	08-145-041	⁵ / ₁₆ " snap hook	1
4	99-145-037	⁵ / ₁₆ " chain 36" long	1
5	99-145-084	Lap Link	1
6	08-514-008 08-514-342 08-514-344	Frame, boom + base weldment: LM-HRNT-6-24 LM-HRNT-6-30 LM-HRNT-6-36	1 1 1
7	08-145-002	Swivel hook, 3-ton	1
8	99-145-019	⁵ / ₈ " 3 ¹ / ₄ -ton shackle	1

FIG. 3G: LM-HRNT- 4k & 6k Centers of Gravity and Maximum Load Ratings for Varying Load Attachment Points

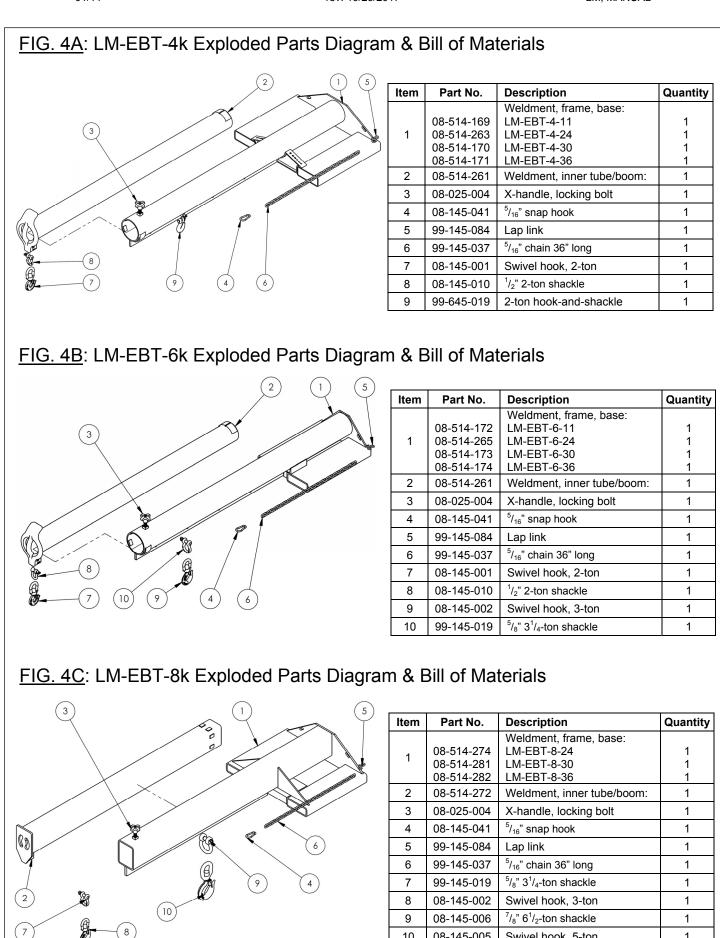
Hook position	Α	В	С	D
Distance from end of boom in inches (cm)	30"	36"	42"	48"
	76 cm	91 cm	107 cm	122 cm
Maximum rated load in pounds hook located at the correspond			ded from a	single
LM-HRNT-4k	4000 lb.	3750 lb.	3500 lb.	3250 lb.
	1820 kg	1705 kg	1590 kg	1477 kg
LM-HRNT-6k	6000 lb.	5000 lb.	4500 lb.	4000 lb.
	2727 kg	2045 kg	1727 kg	1363 kg



Center of gravity has both a horizontal component and a vertical component. The *vertical* center of gravity (VCG) lies along a line 38 inches (~97 cm) from the bottom edges of the fork pockets. Similarly, the *horizontal* center of gravity (HCG) is located 8 inches (~20cm) from the front edge of the vertical support.



Model	Horizontal center of gravity	Vertical center of gravity	Α	в	с	D	Е	F	G	Net weight
LM-HRNT-4-24	8 ⁵ / ₈ " (21.9 cm)	28 ¹¹ / ₁₆ " (72.9 cm)	50 ³ / ₈ "	13 ¹ / ₄ "	32"	24"	7 ¹ / ₂ "	2 ¹ / ₂ "	78 ⁹ / ₁₆ "	882.3 lb.
LM-HRNT-4-30	8 ⁵ / ₈ " (21.9 cm)	28 ¹¹ / ₁₆ " (72.9 cm)	50 ³ / ₈ "	13 ¹ / ₄ "	38"	30"	7 ¹ / ₂ "	2 ¹ / ₂ "	78 ⁹ / ₁₆ "	897.5 lb.
LM-HRNT-4-36	8 ⁵ / ₈ " (21.9 cm)	28 ¹¹ / ₁₆ " (72.9 cm)	50 ³ / ₈ "	13 ¹ / ₄ "	44"	36"	7 ¹ / ₂ "	2 ¹ / ₂ "	78 ⁹ / ₁₆ "	912.7 lb.
LM-HRNT-6-24	8 ¹³ / ₁₆ " (22.4 cm)	27 ⁷ / ₈ " (68.9 cm)	50 ³ / ₈ "	13 ¹ / ₄ "	32"	24"	7 ¹ / ₄ "	2 ¹ / ₄ "	78 ⁹ / ₁₆ "	916.6 lb.
LM-HRNT-6-30	8 ¹³ / ₁₆ " (22.4 cm)	27 ⁷ / ₈ " (68.9 cm)	50 ³ / ₈ "	13 ¹ / ₄ "	38"	30"	7 ¹ / ₄ "	2 ¹ / ₄ "	78 ⁹ / ₁₆ "	931.8 lb.
LM-HRNT-6-36	8 ¹³ / ₁₆ " (22.4 cm)	27 ⁷ / ₈ " (68.9 cm)	50 ³ / ₈ "	13 ¹ / ₄ "	44"	36"	7 ¹ / ₄ "	2 ¹ / ₄ "	78 ⁹ / ₁₆ "	947.0 lb.



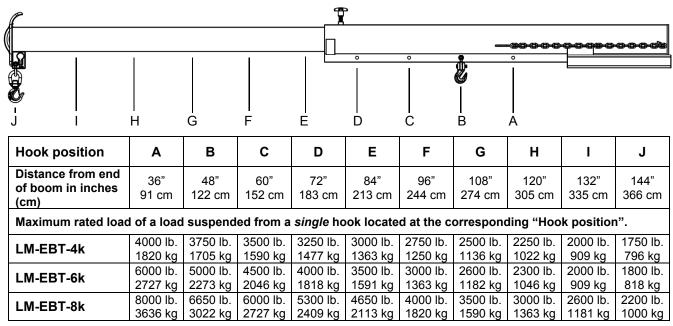
10

08-145-005

1

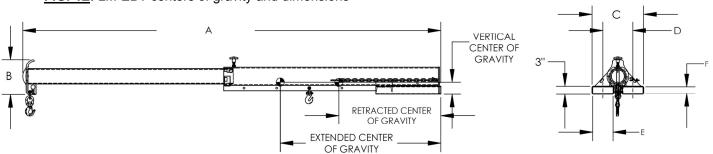
Swivel hook, 5-ton

FIG. 4D: LM-EBT – 4k, 6k & 8k Centers of Gravity and Maximum Load Ratings for Varying Load Attachment Point and Boom Extension Combinations



The center of gravity of the boom changes as boom length changes. As shown in the diagram below, the horizontal center of gravity may be located at any point from RHCG to EHCG:

- <u>Retracted horizontal center of gravity (RHCG)</u>: boom fully *retracted* and unloaded. RHCG is measured from the "origin point" of the above diagram (edges of the fork pockets);
- <u>Extended horizontal center of gravity (EHCG)</u>: boom fully *extended* and unloaded. EHCG is also measured from the "origin point" of the above diagram (edges of the fork pockets);
- All other combinations of boom extension and load position produce a horizontal center of gravity located somewhere between RHCG and EHCG.

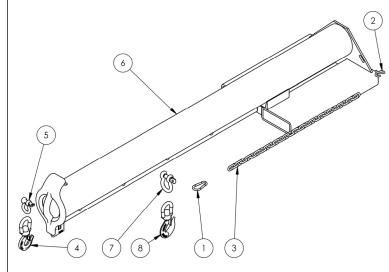


Model	Extended horizontal center of gravity	Retracted horizontal center of gravity	Vertical center of gravity	Α	в	с	D	Е	F	Net weight
LM-EBT-4-11	58 ¹ / ₁₆ " (147.5 cm)	37 ¹ / ₂ " (95.2 cm)	5 ¹ / ₁₆ " (12.9 cm)	86 ¹ / ₄ -153 ³ / ₄ "	13"	19"	11"	7 ¹ / ₂ "	2 ¹ / ₂ "	335.9 lb.
LM-EBT-4-24	55 ³ / ₁₆ " (140.2 cm)	36 ⁵ / ₁₆ " (92.2 cm)	4 ⁷ / ₁₆ " (11.3 cm)	86 ¹ / ₄ -153 ³ / ₄ "	13"	32"	24"	7 ¹ / ₂ "	2 ¹ / ₂ "	354.0 lb.
LM-EBT-4-30	54 ¹ / ₈ " (137.5 cm)	35 ⁵ / ₁₆ " (89.7 cm)	4 ¹ / ₂ " (11.4 cm)	86 ¹ / ₄ -153 ³ / ₄ "	13"	38"	30"	7 ¹ / ₂ "	2 ¹ / ₂ "	367.0 lb.
LM-EBT-4-36	52 ⁷ / ₈ " (134.3 cm)	34 ⁹ / ₁₆ " (87.8 cm)	4 ¹ / ₂ " (11.4 cm)	86 ¹ / ₄ -153 ³ / ₄ "	13"	44"	36"	7 ¹ / ₂ "	2 ¹ / ₂ "	377.9 lb.
LM-EBT-6-11	54 ³ / ₁₆ " (137.6 cm)	35 ¹¹ / ₁₆ " (90.6 cm)	4 ¹³ / ₁₆ " (12.2 cm)	86 ¹ / ₄ -153 ³ / ₄ "	13"	19"	11"	7 ¹ / ₄ "	2 ¹ / ₄ "	368.7 lb.
LM-EBT-6-24	52 ⁵ / ₁₆ " (132.9 cm)	34 ⁷ / ₁₆ " (87.5 cm)	4 ¹ / ₈ " (10.5 cm)	86 ¹ / ₄ -153 ³ / ₄ "	13"	32"	24"	7 ¹ / ₄ "	2 ¹ / ₄ "	386.8 lb.
LM-EBT-6-30	50 ¹⁵ / ₁₆ " (129.4 cm)	33 ¹³ / ₁₆ " (85.9 cm)	4 ¹ / ₄ " (10.8 cm)	86 ¹ / ₄ -153 ³ / ₄ "	13"	38"	30"	7 ¹ / ₄ "	2 ¹ / ₄ "	403.6 lb.
LM-EBT-6-36	49 ⁷ / ₈ " (126.7 cm)	33 ¹ / ₄ " (84.5 cm)	4 ³ / ₁₆ " (10.6 cm)	86 ¹ / ₄ -153 ³ / ₄ "	13"	44"	36"	7 ¹ / ₄ "	2 ¹ / ₄ "	414.6 lb.
LM-EBT-8-24	57 ¹ / ₈ " (145.1 cm)	38" (96.5 cm)	4 ¹³ / ₁₆ " (12.2 cm)	84 ⁷ / ₈ -149 ³ / ₈ "	11 ¹ / ₂ "	32"	24"	7 ¹ / ₄ "	2 ¹ / ₄ "	606.3 lb.
LM-EBT-8-30	57 ¹ / ₈ " (145.1 cm)	38" (96.5 cm)	4 ¹³ / ₁₆ " (12.2 cm)	84 ⁷ / ₈ -149 ³ / ₈ "	11 ¹ / ₂ "	38"	30"	7 ¹ / ₄ "	2 ¹ / ₄ "	621.2 lb.
LM-EBT-8-36	57 ¹ / ₈ " (145.1 cm)	38" (96.5 cm)	4 ¹³ / ₁₆ " (12.2 cm)	84 ⁷ / ₈ -149 ³ / ₈ "	11 ¹ / ₂ "	44"	36"	7 ¹ / ₄ "	2 ¹ / ₄ "	635.8 lb.

FIG. 4E: LM-EBT centers of gravity and dimensions

FIG. 4F: LM-EBNT-4k Exploded Parts Diagram & Bill of Materials 1 Item Part No. Description Quantity Weldment, frame, boom/base: 08-514-287 LM-EBNT-4-11 1 1 08-514-003 LM-EBNT-4-24 1 08-514-288 LM-EBNT-4-30 1 LM-EBNT-4-36 08-514-289 1 2 08-145-041 ⁵/₁₆" snap hook 1 6 3 99-145-084 Lap link 1 4 99-145-037 ⁵/₁₆" x 36" chain 1 4 5 08-145-001 Swivel hook, 2-ton 1 2 1 6 08-145-010 ¹/₂" 2-ton shackle 99-645-019 2-ton hook and shackle 7 1 5

FIG. 4G: LM-EBNT-6k Exploded Parts Diagram & Bill of Materials



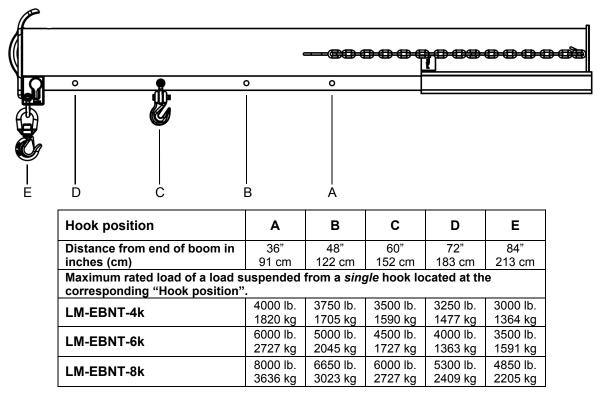
Item	Part No.	Description	Quantity
1	08-145-041	⁵ / ₁₆ " snap hook	1
2	99-145-084	Lap link	1
3	99-145-037	⁵ / ₁₆ " x 36" chain	1
4	08-145-001	Swivel hook, 2-ton	1
5	08-145-010	¹ / ₂ " 2-ton shackle	1
6		Weldment, frame, boom/base: LM-EBNT-6-11 LM-EBNT-6-24 LM-EBNT-6-30 LM-EBNT-6-36	1 1 1 1
7	99-145-019	⁵ / ₈ " 3 ¹ / ₄ -ton shackle	1
8	08-145-002	Swivel hook, 3-ton	1

FIG. 4H: LM-EBNT-8k Exploded Parts Diagram & Bill of Materials

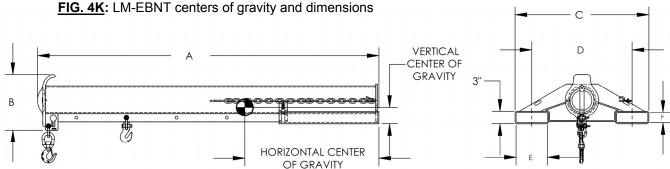
	3
5	

ltem	Part No.	Description	Quantity
		Weldment, frame, boom/base:	
1	08-514-191	LM-EBNT-8-24	1
	08-514-283	LM-EBNT-8-30	1
	08-514-284	LM-EBNT-8-36	1
2	08-145-041	⁵ / ₁₆ " snap hook	1
3	99-145-084	Lap link	1
4	99-145-037	⁵ / ₁₆ " x 36" chain	1
5	99-145-019	⁵ / ₈ " 3 ¹ / ₄ -ton shackle	1
6	08-145-002	Swivel hook, 3-ton	1
7	08-145-006	⁷ / ₈ " 6 ¹ / ₂ -ton shackle	1
8	08-145-005	Swivel hook, 5-ton	1

FIG. 4J: LM-EBNT- 4k, 6k & 8k Centers of Gravity and Maximum Load **Ratings for Varying Load Attachment Points**



Center of gravity has both a horizontal component and a vertical component. The vertical center of gravity (VCG) lies along a line 15 inches (~38 cm) from the bottom edges of the fork pockets. Similarly, the horizontal center of gravity (HCG) is located 35-7/8 inches (~91 cm) from the outer edges of the fork pockets.



Model	Horizontal center of gravity	Vertical center of gravity	Α	В	С	D	Е	F	Net weight
LM-EBNT-4-11	32 ¹ / ₁₆ " (81.4 cm)	3 ¹⁵ / ₁₆ " (10.0 cm)	81 ³ / ₄ "	13 ⁵ / ₁₆ "	19"	11"	7 ¹ / ₂ "	2 ¹ / ₂ "	239.6 lb.
LM-EBNT-4-24	28 ¹¹ / ₁₆ " (72.9 cm)	3 ¹⁵ / ₁₆ " (10.0 cm)	81 ⁵ / ₈ "	13 ⁵ / ₁₆ "	32"	24"	$7^{1}/_{2}$ "	2 ¹ / ₂ "	257.7 lb.
LM-EBNT-4-30	32 ¹ / ₁₆ " (81.4 cm)	3 ¹⁵ / ₁₆ " (10.0 cm)	81 ³ / ₄ "	13 ⁵ / ₁₆ "	38"	30"	7 ¹ / ₂ "	2 ¹ / ₂ "	270.7 lb.
LM-EBNT-4-36	32 ¹ / ₁₆ " (81.4 cm)	3 ¹⁵ / ₁₆ " (10.0 cm)	81 ³ / ₄ "	13 ⁵ / ₁₆ "	44"	36"	7 ¹ / ₂ "	2 ¹ / ₂ "	281.7 lb.
LM-EBNT-6-11	30 ¹ / ₈ " (76.5 cm)	3 ⁵ / ₈ " (9.2 cm)	81 ³ / ₄ "	13 ⁵ / ₁₆ "	19"	11"	7 ¹ / ₄ "	2 ¹ / ₄ "	276.1 lb.
LM-EBNT-6-24	30 ¹ / ₈ " (76.5 cm)	3 ⁵ / ₈ " (9.2 cm)	81 ⁵ / ₈ "	13 ⁵ / ₁₆ "	32"	24"	7 ¹ / ₄ "	2 ¹ / ₄ "	294.1 lb.
LM-EBNT-6-30	30 ¹ / ₈ " (76.5 cm)	3 ⁵ / ₈ " (9.2 cm)	81 ³ / ₄ "	13 ⁵ / ₁₆ "	38"	30"	7 ¹ / ₄ "	2 ¹ / ₄ "	307.1 lb.
LM-EBNT-6-36	30 ¹ / ₈ " (76.5 cm)	3 ⁵ / ₈ " (9.2 cm)	81 ³ / ₄ "	13 ⁵ / ₁₆ "	44"	36"	7 ¹ / ₄ "	2 ¹ / ₄ "	318.1 lb.
LM-EBNT-8-24	32 ⁵ / ₁₆ " (82.1 cm)	4 ¹ / ₁₆ " (10.3 cm)	80 ³ / ₈ "	11 ¹ / ₂ "	32"	24"	7 ¹ / ₄ "	2 ¹ / ₄ "	429.4 lb.
LM-EBNT-8-30	32 ⁵ / ₁₆ " (82.1 cm)	4 ¹ / ₁₆ " (10.3 cm)	80 ³ / ₈ "	11 ¹ / ₂ "	38"	30"	7 ¹ / ₄ "	2 ¹ / ₄ "	444.3 lb.
LM-EBNT-8-36	32 ⁵ / ₁₆ " (82.1 cm)	4 ¹ / ₁₆ " (10.3 cm)	80 ³ / ₈ "	11 ¹ / ₂ "	44"	36"	7 ¹ / ₄ "	2 ¹ / ₄ "	458.9 lb.

FIG. 4K: LM-EBNT centers of gravity and dimensions

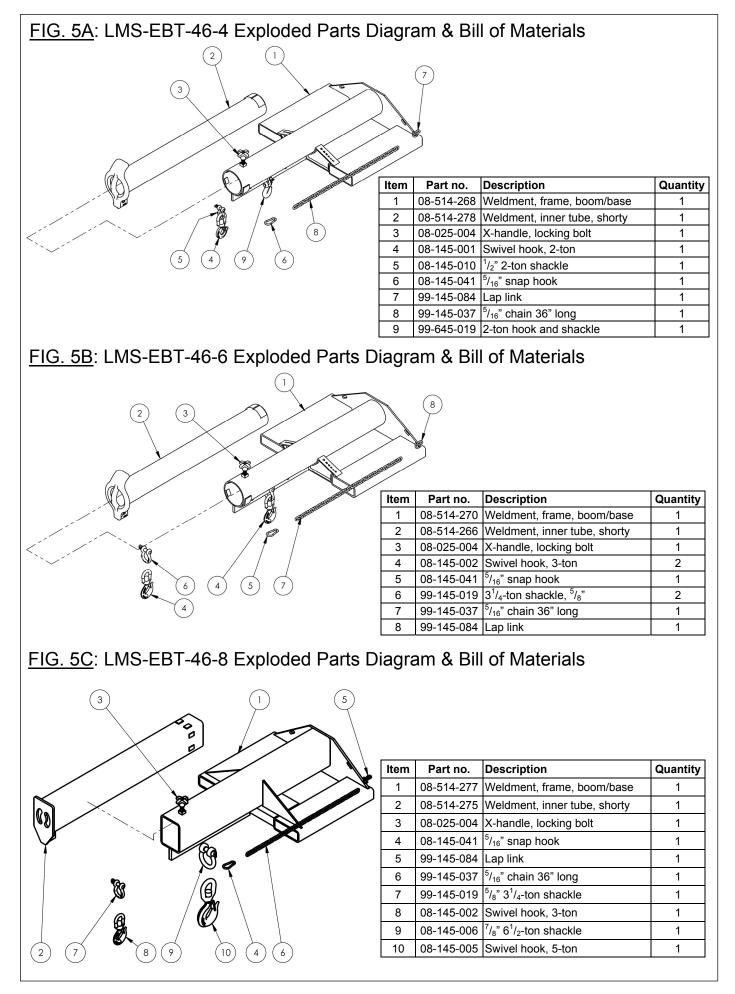
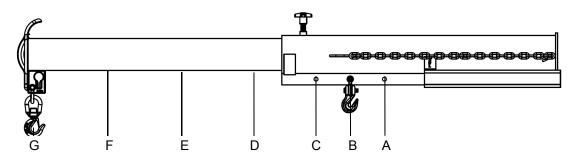


FIG. 5D: LMS-EBT-4k, 6k & 8k Centers of Gravity and Maximum Load **Ratings for Varying Load Attachment Points**



(r							
Hook position	Α	В	С	D	Е	F	G
Distance from end of boom	31"	37"	43"	52 ³ / ₄ "	66"	79 ¹ / ₄ "	92 ³ / ₄ "
	79 cm	94 cm	109 cm	134 cm	168 cm	201 cm	236 cm
Maximum rated load of a load s position".	uspended	from a sing	gle hook lo	cated at th	e correspo	nding "Ho	ok
LMS-EBT-46-4	4000 lb.	3880 lb.	3760 lb.	3560 lb.	3290 lb.	3020 lb.	2750 lb.
	1820 kg	1763 kg	1709 kg	1618 kg	1495 kg	1372 kg	1250 kg
LMS-EBT-46-4	6000 lb.	5710 lb.	5420 lb.	4945 lb.	4300 lb.	3650 lb.	3000 lb.
	2727 kg	2595 kg	2463 kg	2247 kg	1954 kg	1659 kg	1364 kg
Distance from end of boom	31"	37"	43"	52"	64"	76 ¹ / ₂ "	89"
	79 cm	94 cm	109 cm	134 cm	168 cm	201 cm	236 cm
LMS-EBT-46-8	8000 lb.	7600 lb.	7200 lb.	6610 lb.	5825 lb.	5010 lb.	4200 lb.
	3636 kg	3454 kg	3272 kg	3004 kg	2647 kg	2277 kg	1909 kg

The center of gravity of the boom changes as boom length changes. As shown in the diagram below, the horizontal center of gravity may be located at any point from RHCG to EHCG:

- Retracted horizontal center of gravity (RHCG): boom fully retracted and unloaded. RHCG is measured from the • "origin point" of the above diagram (edges of the fork pockets);
- Extended horizontal center of gravity (EHCG): boom fully extended and unloaded. EHCG is also measured from • the "origin point" of the above diagram (edges of the fork pockets);
- All other combinations of boom extension and load position produce a horizontal center of gravity located • somewhere between RHCG and EHCG.

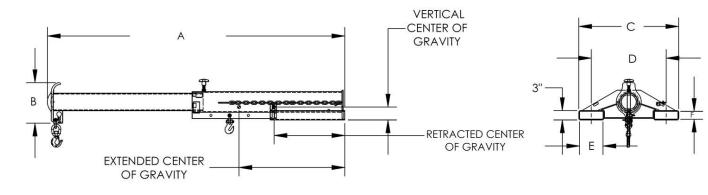


FIG. 5E: LMS-46 centers of gravity and dimensions

Model	Extended horizontal center of gravity	Retracted horizontal center of gravity	Vertical center of gravity	Α	В	С	D	ш	F	Net weight
LMS-EBT-46-4	33 ⁵ / ₁₆ " (84.6 cm)	22 ¹⁵ / ₁₆ " (58.3 cm)	4 ¹ / ₈ " (10.5 cm)	55 ¹ / ₄ -95 ¹ / ₄ "	13"	32"	24"	7 ¹ / ₂ "	2 ¹ / ₂ "	267.2 lb.
LMS-EBT-46-6	31 ⁵ / ₁₆ " (79.5 cm)	22 ¹ / ₁₆ " (56 cm)	3 ³ / ₄ " (9.5 cm)	55 ¹ / ₄ -95 ¹ / ₄ "	13"	32"	24"	7 ¹ / ₄ "	2 ¹ / ₄ "	302.5 lb.
LMS-EBT-46-8	34 ¹ / ₁₆ " (86.5 cm)	22 ³ / ₄ " (57.8 cm)	4 ³ / ₈ " (11.1 cm)	53 ⁷ / ₈ -90 ⁷ / ₈ "	11 ¹ / ₂ "	32"	24"	7 ¹ / ₄ "	2 ¹ / ₄ "	442.3 lb.

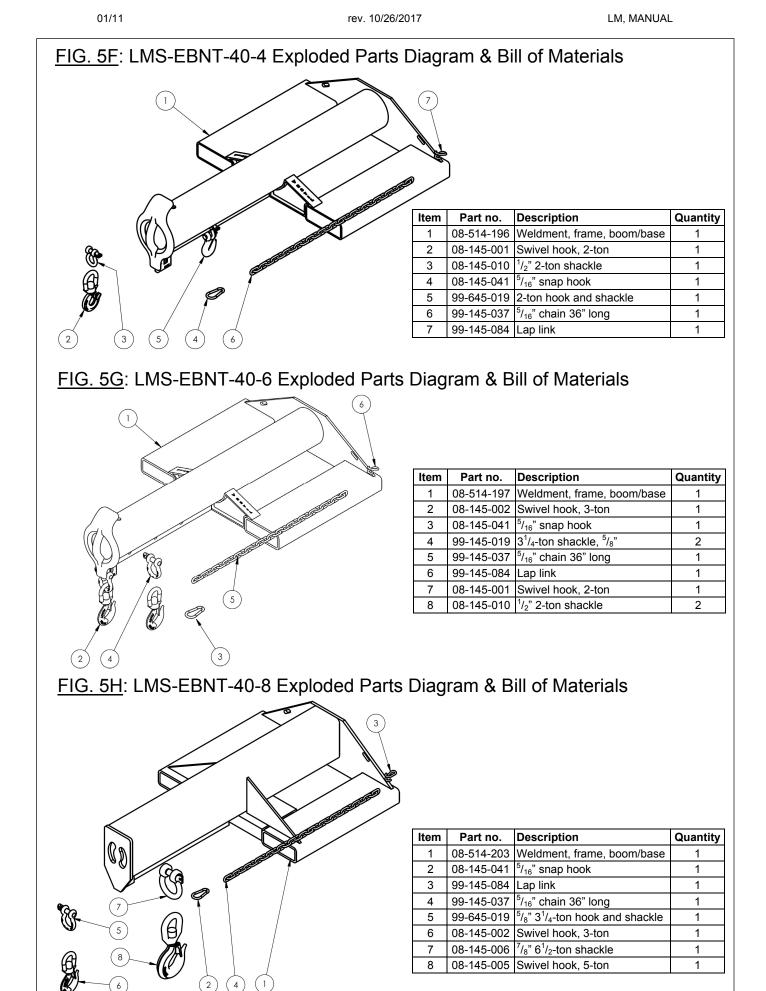
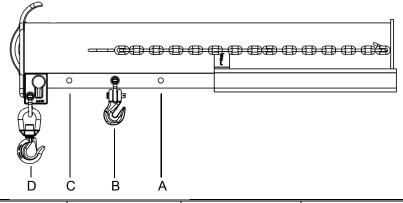


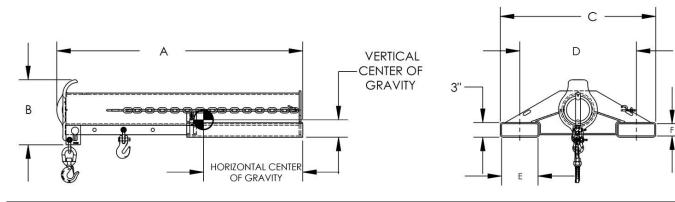
FIG. 5J: LMS-EBNT-40-4k, 6k & 8k Centers of Gravity and Maximum Load Ratings for Varying Load Attachment Points



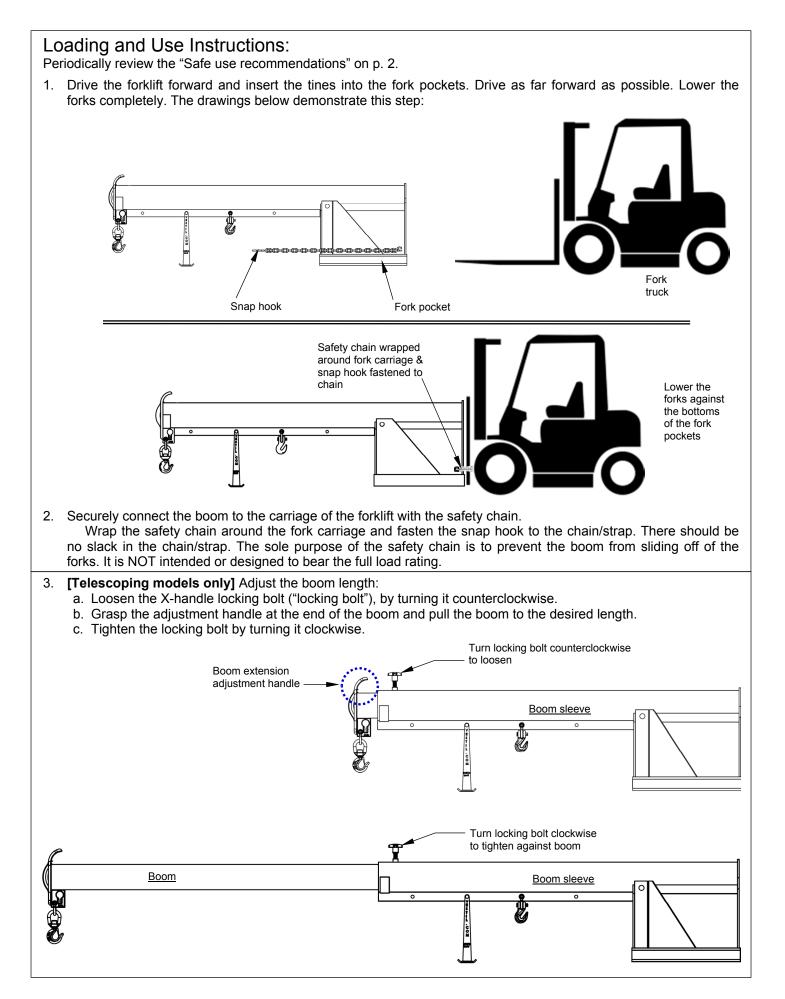
Hook position	Α	В	С	D
Distance from end of boom	31"	37"	43"	48 ¹ / ₈ "
	79 cm	94 cm	109 cm	122 cm
Maximum rated load of a loa				
LMS-EBNT-46-4	4000 lb.	3915 lb.	3830 lb.	3750 lb.
	1820 kg	1779 kg	1740 kg	1705 kg
LMS-EBNT-46-4	6000 lb.	5650 lb.	5300 lb.	5000 lb.
	2727 kg	2568 kg	2409 kg	(2045 kg
Distance from end of boom	31"	37"	43"	47 ¹ / ₂ "
	79 cm	94 cm	109 cm	122 cm
LMS-EBNT-46-8	8000 lb.	7275 lb.	6550 lb.	6000 lb.
	3636 kg	3306 kg	2977 kg	3023 kg

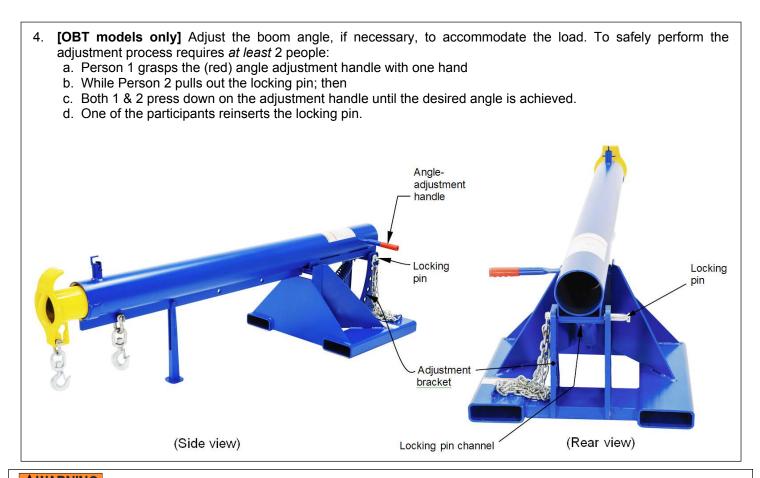
Center of gravity has both a horizontal component and a vertical component. The *vertical* center of gravity (VCG) lies along a line parallel to the bottom edges of the fork pockets. Similarly, the *horizontal* center of gravity (HCG) lies along a vertical line from the outer edges of the fork pockets.

FIG. 5K: LMS-EBNT centers of gravity and dimensions



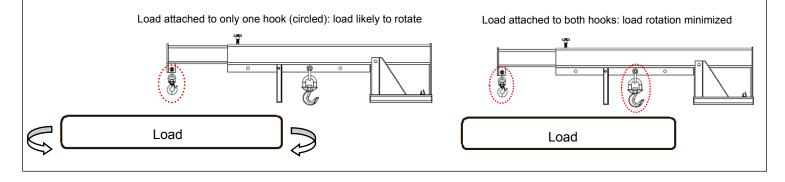
Model	Horizontal center of gravity	Vertical center of gravity	A	В	С	D	Е	F	Net weight
LMS-EBNT-40-4	20 ⁷ / ₁₆ " (20.4 cm)	3 ⁹ / ₁₆ " (9.0 cm)	50 ³ / ₄ "	13 ⁵ / ₁₆ "	32"	24"	7 ¹ / ₂ "	2 ¹ / ₂ "	204 lb.
LMS-EBNT-40-6	19 ¹ / ₂ " (49.5 cm)	3 ¹ / ₄ " (8.3 cm)	50 ⁵ / ₈ "	13 ⁵ / ₁₆ "	32"	24"	7 ¹ / ₄ "	2 ¹ / ₄ "	239 lb.
LMS-EBNT-40-8	20 ⁵ / ₈ " (52.4 cm)	3 ⁵ / ₈ " (9.2 cm)	49 ³ / ₈ "	11 ¹ / ₂ "	32"	24"	7 ¹ / ₄ "	2 ¹ / ₄ "	329 lb.





AWARNING Material handling is dangerous. Improper use of this product might result in serious personal injuries.

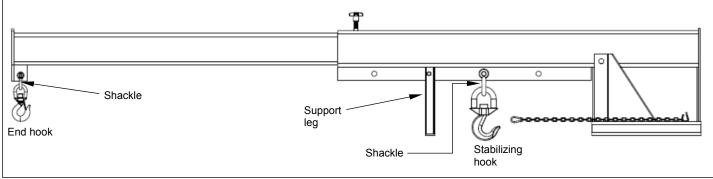
- Confirm that the load weighs less than the maximum rated load of your boom AND that your fork lift is rated to lift the combined weight of the boom and the load.
- Contact the manufacturer of your fork lift BEFORE using the boom. Request that the lift manufacturer provide:
 - 1. Written approval to use the boom with your lift truck; AND
 - 2. Markings (labels) for the lift truck that:
 - Identify your LM-boom; AND
 - Provide the approximate <u>net</u> weight of the forklift truck and boom at the maximum fork elevation with a laterally-centered load. [29 CFR 1910.178(a)(5)].
- DO NOT use the boom until the forklift manufacturer provides adjusted maximum rated load tags for your fork lift.
- DO NOT attempt to lift loads weighing more than the rated load of either the boom or lift truck, whichever is smaller. Maximum rated load information appears in the tables on pages 4, 6, 8, 10, 12, 14, 16, 18, 20, and 22.
- Strictly adhere to all rules applied at your worksite regarding forklift operation, fork attachment usage, and load rigging.
- ONLY use rigging having maximum load ratings that exceed the load weight.
- DO NOT connect a load to only 1 hook, which will cause the load to rotate during lifting and transport operations. Loads should connect to both hooks simultaneously.



Test the stability of the load in the rigging. Raise the forks *slowly* to minimize load movement. Raise the forks until the load is entirely suspended from the boom. Watch the load and boom closely for *either* of the following issues: 1) Load sliding in rigging; or 2) Boom sliding towards tips of forks. If you notice either issue, immediately lower the forks and adjust the rigging. Retest the stability of the load in the rigging

• While transporting a load with the boom, the load should only be 6-8 inches above the ground. Adjust load height to avoid obstacles along the travel path.

- DO NOT exceed approximately 1.5mph (2.4kph) while transporting a load with the boom.
- Travel ONLY on smooth, level surfaces. Turn slowly and smoothly.
- If the load is unstable while suspended, DO NOT use the boom.
- 5. Attach the load to the boom by connecting the load to appropriate rigging. Attach the rigging to the end hook or to both the end hook and the stabilizing hook (see diagram below).
 - a. Verify that the load attachment is stable;
 - b. Raise the load until it is elevated no more than 6-8 inches above the ground (entirely suspended from the boom).
 - c. Slowly transport the load to the desired unloading location;
 - d. Slowly lower the load until it is entirely supported by the ground and there is slack in all rigging.
 - e. Disconnect the rigging from the hooks;
 - f. Adjust the fork position until no more than 6-8 inches above the ground;
 - g. Return the boom to its storage location.
 - NOTE: Return OBT and OBNT model booms to the fully lowered (horizontal) position by reversing Step 4 on p. 24 BEFORE backing out of the fork pockets.



Inspections:

WARNING Immobilize the boom before conducting inspections and performing maintenance. If an inspection reveals problems, restore the boom to normal operating condition BEFORE using it again. DO NOT use a boom that is structurally damaged in any way. Structural damage includes, but is not limited to, cracked welds, warping or deformation of the fork pockets, support leg, frame members, boom, or boom sleeve.

Inspect the boom regularly. An example of an inspection procedure appears in

- 1. <u>Regular inspection</u> before using the boom (including its first use) inspect the following components for conditions that might interfere with normal operation:
 - <u>Frame and fork pockets</u>: fork pockets should be square and solid. Each pocket should be rigidly welded to the frame. Excessive wear or damage (or indications of metal fatigue) to any portion of the fork pockets, support frame, boom or boom sleeve.
 - <u>Boom</u>: check all welds. The boom should be straight and undamaged, i.e. no cracks, punctures, warps, etc. Telescoping models should slide without binding inside the receiver/sleeve.
 - <u>Safety chain</u>: all links of the chain should be intact and of equal dimensions. The chains should be securely attached to the frame by means of a lap link. The snap hook at the end of the chain should close completely and automatically.
 - <u>Hooks and shackles</u>: examine both the end hook and the stabilizing hook. Record the measurement of the throat opening of each hook and compare the measurements with those taken during the very first inspection. Replace a hook if its throat opening is more than 15 percent wider than the original throat opening measurement, or if the hook is twisted more than 10° from the plane of the unbent hook. Discard the damaged hook. The latch of the end hook should close automatically. Shackles should be securely attached to the underside of the boom. Examine all pins that attach shackles to the boom for cracks and warps.
 - Locking bolt (telescoping models only): confirm that the locking bolt securely engages the top of the boom.
 - <u>Support leg</u>: inspect the support leg. It should be straight, undamaged (no cracks or deformations), and securely attached to the underside of the boom.

• <u>Labels</u>: the product should always be labeled as shown in the labeling diagram on p. 27. Replace any label that is damaged, significantly faded, or not easily readable from a reasonable distance.

2. <u>Annual performance evaluation</u>: At least once per year, authorized personnel should lift a maximum rated load with the boom. Afterwards, conduct a "Prior-to-use inspection". Confirm that the product is in normal operating condition before returning it to service.

Maintenance:

Implement a maintenance program to ensure that the boom remains in normal operating condition. The following steps should be utilized in conjunction with maintenance procedures applicable to fork truck attachments provided in the most recent edition of ANSI B56.1.

Step 1: Tag the boom, "Out of Service."

Step 2: Remove dirt and other matter from all surfaces.

<u>Step 3</u>: Conduct a "Prior-to-use" inspection (see p. 25). If severe deformities, corrosion, rusting, or excessive wear of structural members is found, DO NOT use the product.

Step 4: Perform all necessary adjustments, replacements and/or repairs but DO NOT modify the boom.

AWARNING DO NOT return the boom to service until all necessary adjustments and repairs are complete! There is a significant difference between necessary adjustments and repairs, and modifications. An "adjustment" is a simple correction that restores the boom to normal operating condition, such as tightening loose fasteners or removing dirt or other debris from surfaces. Repair means removal of worn parts and installing replacement parts.

A "modification" is a change that <u>alters the boom from original operating condition</u>, like bending the structural members or removing parts. <u>NEVER</u> modify the boom without the express, written approval of Vestil. Modifications might make the boom unsafe to use and automatically void the Limited Warranty.

<u>Step 5</u>: Make a dated record of all repairs, adjustments, and replacements performed.

Labeling diagram:

Each boom should be labeled as shown below. Replace any label that is damaged or not easily readable.

One of labels 928-935 as indicated in the table (on either fork pocket)

				A	WA		IN	G					
 Law req Writt Mark Mark DO NOT DO NOT the max 	ator and/ r use if si uires you en appro iings (lab Identify ti Give app [29 CFR use boo r attempt imum rat	or bystar afety cha u to conta val to us els) for li his fork-n roximate 1910.174 m UNTIL t to lift mo	nders. To ain/strap i act manu e boom v ift truck ti nounted i net weig 8(a)(5)] . lift truck ore than of the BC	reduce t is damag facturer of with lift tri hat: boom; Al <u>aht</u> of tru k manufa the rated DOM ONI	the risks: ged or ab of your (f uck [29 C ND ck and b ck and b ck and b clurer p i load of t LY; you N	ork) lift tr CFR 1910 com at n rovides of the boom AUST co	ruck BEF 0.178(a)) naximum corrected	ORE u: [4)]; fork ele I maxin uck, whi	sult in seri sing boom wation with um rated chever is s priate tabl	to reque n laterall load tag	est: ly-center ls for you The table	ed load. Ir forklift a below s	truck.
				A	32.81.822		EN		A				
	- Identifi Den pe	etiquetas quen est aso neto mente ce	e auge d aproxima	le la horo ado del c	quilla mor amion y	ntada; Y el augo a		vación	de la horqi	uilla máx	dima con	la carga	
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la corret NO inte del ense tasada o M L K MOKPORTO M L K MOKPORTO Distance from ouder edges et ganhoù Distance from ouder edges et mother (ense) Distance from ouder edges et serremos esterios de bashorquilas en ce)	cta carga nte eleva nha la má fe la etiqu J I A 36 (~91)	HASTA q máxima r más de ixima cau ueta que H G B 48 (~122)	el fab tasada p la carga ga tasad el fabric F E C 60 (-152)	ricante d para su c a tasada a da para E ante le h I D C D 72 (-183)	le la cam amionett del auge EL AUGE a proveit B E E 84 (~213)	A 91.5 91.5 91.5	078. neta elev DEBE co	radora, mparar И Ц Ц Ц Ц Ц Ц Ц Ц Ц Ц Ц Ц Ц Ц Ц Ц Ц Ц	lo que sea la tabla co feight of M M-boom by todel: Peso del M-Auge por todelo):	menor. in la con LM-C LM-C J J 121.5 (~309)	La table recta car DBT-4k DBT-6k DBT-6k K K 129 (~328)	a contini ga máxir 405 (~ 456 (~3 622 (~ L 136.5 (~347)	na 184 kg) 207.3 kg) 283 kg)
la corret NO inte del ense tasada co la constructiona del const tasada co la constructiona del constru	ta carga nte eleva rha la má de la etiq J I A A (~91) rated loa gancho.)	HASTA q máxima rmás de ixima car ueta que H G B (~122) H G H G	ue el fab tasada p la carga rga tasad el fabric F E c 60 (~152) unds (kg urga tasad	ricante d para su c tasada para E ante le h I D C D 72 (~183)) of a loa	le la cam tamioneta del auge EL AUGE a proveic B E E B E E 84 (-213) id susper ids (kg) de	A 91.5 91.5 91.5 91.5 92.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1	6 99 (-251) m a sing	H 106.5 (-271) H H	lo que sea la tabla co feight of M-boom by todel: *eso del M-Auge por todelo): I I 114 (-290) located at u un solo ga	LM-C LM-C LM-C LM-C LM-C LM-C LM-C LM-C	La table recta car PBT-4k PBT-6k RBT-6k K 129 (-328) (-328) espondir alizado a	a contini ga máxir 405 (~ 456 (~ 622 (- 1 136.5 (-347)	na 184 kg) 207.3 kg) 283 kg) M 144 (~366) mdiente
la corres NO inte del ense tasada o Multi Multi Hook Position (Posicion del gancho) Distance from outer edges e fork posteta in inches (om) (Datancia descente) Distancia descente) Multi Multi Maximum in Maximum in	ta carga te eleva réa la má de la etiqu J I A 36 (~91) rated loa ition". (h pancho.) 4000 (~1820)	HASTA q máxima r más de ixima cau ueta que H G B 48 (~122) di in pou dáxima ca state da di n pou dáxima ca	ue el fab tasada p la carga ga tasac el fabric F E c 60 (~152) mnds (kg urga tasad (~152)	Trante dopara su o tasada su o tasada tasada da para E ante le h I D C D 72 (-183)) of a loa a en pour 3250 (-1477)	le la cam camioneta del auge E. AUGE a proveio B B E E 84 (-213) d susper dd susper dd susper	a elevadi a elevadi do.	Dra. neta elev DEBE co	иаdora, mparar (L L L L L L L L L L L L L L L L L L L	lo que sea la tabla co feight of M-boom by loodelo): I I I I I I I I I I I I I I I I I I I	menor. r LM-C LM-C LM-C J 121.5 (-309) the corr ncho loc 2220 (-1010)	La table recta car BBT-4k BBT-6k BBT-8k K 129 (~328) espondir alizado a l 2060 (~936)	a contini ga máxir 405 (- 456 (-3 456 (-3 456 (-3 456 (-3 456 (-3 47) 1945 (-884)	na 184 kg) 207.3 kg) 283 kg) M 144 (-366) ondiente 1750 (~795)
la corret NO inter del ense tasada d L K HOR POSITIAN (Pasicion del ganho) Datance fore outer edges ef forei positeta in destri la externo se externo se externo se externo se	ta carga nte eleva rha la má de la etiq J I A 36 (~91) rated loa ition". (h pancho.) 4000	HASTA q máxima r más de ixima car ueta que H G B 48 (~122) dí in pot. Aáxima ca	ue el fab tasada p la carga rga tasad el fabric F E C 60 (-152) mds (kg urga tasad	ricante d para su c tasada a la para E ante le h I D C D 72 (~183)) of a loa a en pour	le la cam amioneta del auge EL AUGE a proveio B E E 84 (-213) d susper nds (kg) di	A 91.5 (-232) PHONE AND A CONTRACT OF A C	6 99 (-251) 2690	H 106.5 (-271) 2450	for the second sec	menor. LM-C J LM-C J 121.5 (-309) the corr nncho loc 2220	La table recta car BT-4k BT-6k BT-8k K 129 (~328) (~328) espondir alizado a	a contini ga máxir 405 (~ 456 (~3 622 (~ L 136.5 (~347) ¹⁹ a corespo 1945	na 184 kg) 207.3 kg) 283 kg) M 144 (~366) indiente 1750

Label	Model
928	LM-OBT
929	LM-OBNT
930	LM-1T
931	LM-EBT
932	LM-HRT
933	LM-EBNT
934	LM-HRNT
935	LM-1NT
962	LMS-EBT
963	LMS-EBNT

Label 287 (on either fork pocket)

MODEL/MODÉLO/MODÈLE	
CAPACITY	lbs.
CAPACIDAD/CAPACITÉ	kgs.
SERIAL/SERIE/SÉRIE	
VESTIL MANUFACTURING CORPORAT sales@vestil.com • www.vestil.com	10 N 287 FREV 09/08

Label 218 (on either fork pocket)

🛦 WARNING Improper use might result in death or serious personal injury. Attach device to fork carriage with safety chain/strap. cadenas/correrás. · Drive lift truck forward until forks contact ends of fork pockets.

- · Chain/straps must not be able to disconnect (slide free) from carriage.
- · Safety chain/strap must be taut. Connect chain/ strap to carriage via shortest line.

ADVERTENCIAS

- El uso imapropiado puede resultar en muerte o herirás personales. Atar aparato al mástil del montagcargas con
- · Maneje el montacargas para adelante hasta que las cuñas hagan contacto con la orilla del bolsillo de las cuñas.
- · La cadenas y correas no deben de deslizarse (soltarse) del mástil del montacargas.
- · La cadena/correa de seguridad debe de estar apretado. 218 rev 0910 Asegure la cadena/correa al mástil via la ruta mas corta.

LIMITED WARRANTY

Vestil Manufacturing Corporation ("Vestil") warrants this product to be free of defects in material and workmanship during the warranty period. *Our warranty obligation is to provide a replacement for a defective original part if the part is covered by the warranty, after we receive a proper request from the warrantee (you) for warranty service.*

Who may request service?

Only a warrantee may request service. You are a warrantee if you purchased the product from Vestil or from an authorized distributor AND Vestil has been fully paid.

What is an "original part"?

An original part is a part *used to make the product as shipped* to the warrantee.

What is a "proper request"?

A request for warranty service is proper if Vestil receives: 1) a photocopy of the <u>Customer Invoice</u> that displays the shipping date; AND 2) a <u>written request</u> for warranty service including your name and phone number. Send requests by any of the following methods:

Mail	<u>Fax</u>	<u>Email</u>
Vestil Manufacturing Corporation	(260) 665-1339	info@vestil.com
2999 North Wayne Street, PO Box 507	<u>Phone</u>	
Angola, IN 46703	(260) 665-7586	

In the written request, list the parts believed to be defective and include the address where replacements should be delivered.

What is covered under the warranty?

After Vestil receives your request for warranty service, an authorized representative will contact you to determine whether your claim is covered by the warranty. Before providing warranty service, Vestil may require you to send the entire product, or just the defective part or parts, to its facility in Angola, IN. The warranty covers defects in the following *original* dynamic components: motors, hydraulic pumps, electronic controllers, switches and cylinders. It also covers defects in <u>original</u> parts that wear under normal usage conditions ("wearing parts"), such as bearings, hoses, wheels, seals, brushes, and batteries.

How long is the warranty period?

The warranty period for original dynamic components is <u>1 year</u>. For wearing parts, the warranty period is <u>90 days</u>. The warranty periods begin on the date when Vestil ships the product to the warrantee. If the product was purchased from an authorized distributor, the periods begin when the distributor ships the product. Vestil may, at its sole discretion, extend the warranty periods for products shipped from authorized distributors by *up to* 30 days to account for shipping time.

If a defective part is covered by the warranty, what will Vestil do to correct the problem?

Vestil will provide an appropriate replacement for any *covered* part. An authorized representative of Vestil will contact you to discuss your claim.

What is <u>not</u> covered by the warranty?

- 1. Labor;
- 2. Freight;
- 3. Occurrence of any of the following, which automatically voids the warranty:
 - Product misuse;
 - Negligent operation or repair;
 - Corrosion or use in corrosive environments;
 - Inadequate or improper maintenance;
 - Damage sustained during shipping;
 - Collisions or other incidental contacts causing damage to the product;
 - <u>Unauthorized modifications</u>: DO NOT modify the product IN ANY WAY without first receiving written authorization from Vestil. Modification(s) might make the product unsafe to use or might cause excessive and/or abnormal wear.

Do any other warranties apply to the product?

Vestil Manufacturing Corp. makes no other express warranties. All implied warranties are disclaimed to the extent allowed by law. Any implied warranty not disclaimed is limited in scope to the terms of this Limited Warranty.

