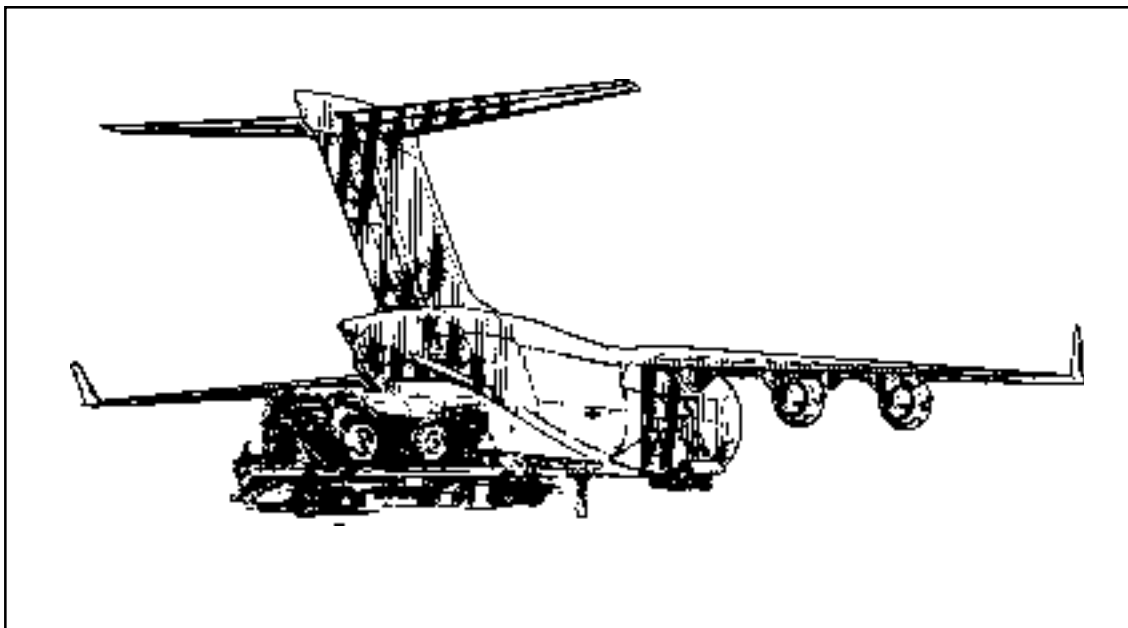


ARMY FM 4-20.116 (FM 10-516)
AIR FORCE TO 13C7-1-13

AIRDROP OF SUPPLIES AND EQUIPMENT:
**Reference Data for Airdrop Platform
Loads**



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CHANGE NO. 1

**AIRDROP OF SUPPLIES AND EQUIPMENT
REFERENCE DATA FOR AIRDROP PLATFORM LOADS**

This change adds platform loads and equipment that have been approved since FM 4-20.116/TO 13C7-1-13 was published. Overhang identified in this manual does not include the Extraction Parachute Jettison System (EPJS). Airdrop loads that use the EPJS have a 30-inch overhang on the rear of the platform.

FM 4-20.116/TO 13C7-1-13, 20 August 2001, is changed as follows:

1. New or changed material is identified by a vertical bar () in the margin opposite the changed material.
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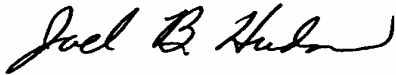
<u>Remove old pages</u>	<u>Insert new pages</u>
i through vii	i through vii
2-1 through 2-8	2-1 through 2-8
2-17 through 2-34	2-17 through 2-32
3-1 and 3-2	3-1 and 3-2
3-5 through 3-22	3-4.1 through 3-22
3-31 through 3-34	3-31 through 3-34
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3-85 and 3-86	3-85 and 3-86
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4-1 and 4-2	4-1 through 4-8
	5-1 and 5-2
Glossary-1 and Glossary-2	Glossary-1 and Glossary-2
References 1 through References 3	References 1 through References 3

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Field Manual
NO 4-20.116
Technical Order
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HEADQUARTERS
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Washington, DC, 1 October 2004

Airdrop of Supplies and Equipment Reference Data for Airdrop Platform Loads

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PREFACE

SCOPE

This manual provides a ready-reference planning guide for loads rigged for airdrop. It illustrates the rigged load and contains dimensional data, weight, and center of balance (CB) for each load. Information is also provided on aircraft, extraction parachutes and reference tables of miscellaneous information on materials used to fabricate and maintain air items and to rig airdrop equipment. Overhang identified in this manual does not include the Extraction Parachute Jettison System (EPJS). Airdrop loads that use the EPJS have a 30-inch overhang on the rear of the platform.

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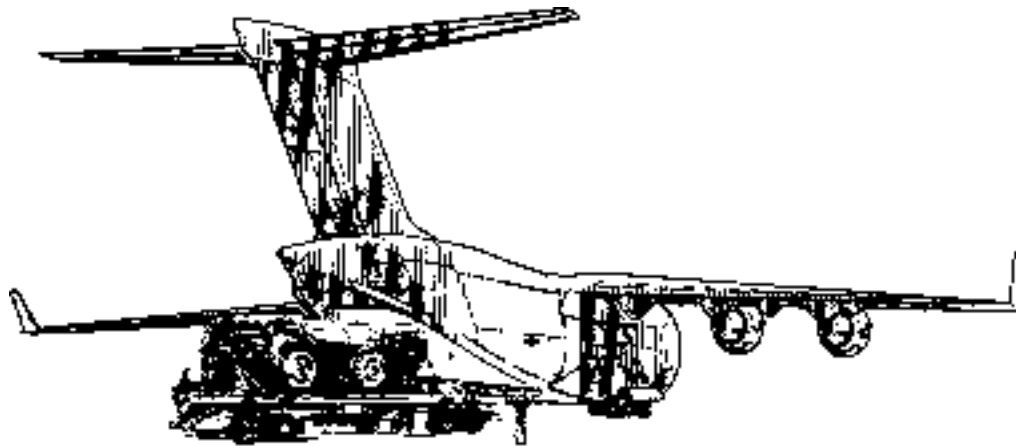
Chapter 1 Introduction

GENERAL

1-1. The information in this manual may be used to compute aircraft requirements and to assist the rigger and loadmaster during joint inspection of airdrop loads. The publication containing the procedure for preparing and rigging each load is indicated with the data for the load.

SPECIAL CONSIDERATIONS

1-2. The special considerations applicable to the specific loads are given in the appropriate field manual/technical order.



Chapter 2 Reference Tables

GENERAL

2-1. This chapter contains reference tables of miscellaneous information on materials used to fabricate and maintain air items and to rig airdrop equipment. If detailed information, other than that listed in these tables, is required on specific materials, the DOD Index of Specifications and Standards should be consulted.

TEXTILE TERMINOLOGY

2-2. The textile products listed in this chapter are defined as follows:

a. CORD. Cord is a fibrous, braided, cordage item of any diameter.

b. TAPE. Tape is a narrow fabric, woven or knitted, produced in widths up to and including 8 inches and in weights up to but not including 0.42 ounces per linear yard of 1-inch width.

c. THREAD. Thread is a thin, twisted, smooth strand or filament of vegetable, animal, mineral, or synthetic material, spun out to considerable length, used mainly for hand sewing and machine sewing. The use of thread is determined by a letter or numerical designation which is synonymous.

d. WEBBING. Webbing is a narrow fabric, woven or knitted, produced in widths up to and including 12 inches and in weights of 0.42 ounces or over per linear yard of 1-inch width.

Table 2-1. Chains

Size (in)	Weight (lb per lin ft)	Common iron	Safe working load (lb)		
			High-grade iron	Soft steel	Special steel
1/4	0.8	512	563	619	1,240
3/8	1.7	1,350	1,490	1,650	3,200
1/2	2.5	2,250	2,480	2,630	5,250
5/8	4.3	3,470	3,810	4,230	7,600
3/4	5.8	5,070	5,580	6,000	10,500
7/8	8.0	7,000	7,700	8,250	14,330
1	10.7	9,300	10,230	10,600	18,200
1 1/8	12.5	9,871	10,858	11,944	21,500
1 1/4	16.0	12,186	13,304	14,634	26,300
1 3/8	18.3	14,717	16,188	17,807	32,051

Table 2-2. Cloth, duck, cotton, type III- Army duck

Weight, min (oz per yd)	Breaking strength min (lb)	
	Warp	Fill
8.25	125	120
9.85	160	110
12.30	210	130
14.80	235	175
18.50	315	200

Table 2-3. Cloth, duck, nylon

Weight (oz per sq yd)	Yarns per in		Breaking strength (lb)		Tearing strength (lb)	
	Warp	Fill	Warp	Fill	Warp	Fill
18.5	62	60	1,100	1,100	135	135

Table 2-4. Cloth, duck, nylon, parachute packs

Type	Weight (oz per sq yd)	Breaking strength (lb)		Tearing strength (lb)	
		Warp	Fill	Warp	Fill
I	9.50	400	300	35	45
II	8.75	400	150	35	20
III	7.25	325	275	20	20

Table 2-5. Cloth, muslin, cotton

Type	Weight, min (oz per sq yd)	Yarns per in, min		Breaking strength, min (lb)		Description
		Warp	Fill	Warp	Fill	
I	2.4	64	54	37	26	Type I: Natural
II	2.7	68	62	38	28	Type II: Bleached or dyed
III	2.8	68	66	40	30	Type III: Bleached or dyed pre-shrunk

Table 2-6. Cloth, muslin, cotton (parachute canopy)

Type	Weight, min (oz per sq yd)	Yarns per in, min		Breaking strength, min (lb)		Tearing strength, min (lb)		Air permeability (cu ft min per sq ft)	
		Warp	Fill	Warp	Fill	Warp	Fill	Min	Max
II	3.5	54	56	48	42	3.0	2.5	170	230
III	3.6	56	58	48	45	3.0	2.5	130	190

Table 2-7. Cloth, nylon, parachute, cargo

Type	Weight, max (oz per sq yd)	Breaking strength, min (lb)	
		Warp	Fill
I	2.25	85	85
II	3.50	135	135

Table 2-8. Cloth, parachute, nylon, cargo, and deceleration

Type	Weight, max (oz per sq yd)	Thickness, min (in)	Breaking strength, min (lb)		Tearing strength, min (lb)	
			Warp	Fill	Warp	Fill
I	4.75	.020	200	200	15	15
II	7.00	.024	300	300	20	20
IIa	10.50	.025	500	500	75	75
III	14.00	.035	600	600	75	75

Table 2-9. Cloth, parachute, nylon

Type	Weight, max (oz per sq yd)	Thickness, min (in)	Breaking strength, min (lb/in)		Tearing strength, min (lb)		Note
			Warp	Fill	Warp	Fill	
I	1.1	.003	42	42	5	5	Type I: Rip-stop weave
II	1.6	.004	50	50	5	5	Type II: Twill weave
III	1.6	.004	50	50	5	5	Type III: Rip-stop weave

Table 2-10. Cloth, sateen, cotton

Class	Weight, max (oz per sq yd)	Yarns per in, min		Breaking strength, min (lb)		Note
		Warp	Fill	Warp	Fill	
1	9.0	85	48	115	100	Class 1: Dyed Class 2: White
2	9.0	85	48	100	90	

Table 2-11. Cord, nylon

Type	Breaking strength, min (lb)	Elongation, min (%)	Weight, min (ft per lb)	Note
I	95	30	950	One black thread in sleeve
IA	100	30	1050	
II	400	30	260	
IIA	225	30	495	
III	550	30	225	
IV	750	30	165	

Table 2-12. Cord, nylon, coreless

Type	Breaking strength, min (lb)	Length, min (ft per lb)
I	400	330
IA	400	330
II	550	255
III	750	150
IIIA	800	175
IV	1,000	120
V	1,500	90
VI	2,000	60
VII	2,500	45
VIII	3,000	36
XI	300	480
IV*	1000	120

NOTE: Types IX, X, XII through XXII have been removed from manual.

*This is a class F cord and is treated with a fluorocarbon finish.

Table 2-13. Cord, elastic, exerciser and shock absorber for aeronautical use

Type	Diameter (in)	Load for 100% elongation (lb)	Breaking strength (lb)	Weight (lb per 100 ft)	Note
I	1/4	16-28	120	2.4	Types: I- Straight cord with double-braided cover (shock-absorber) II- Endless ring (Bungee) with double-braided cover (shock-absorber) III- Straight cord with single-braided cover (exerciser)
	3/8	90-150	300	5.5	
	1/2	175-250	400	9.0	
	5/8	250-350	500	14	
	3/4	400-650	1,000	22	
II	1/4	32-56			
	3/8	180-300			
	7/16	260-400			
	1/2	350-500			
	9/16	425-600			
	5/8	500-700			
	11/16	650-850			
III	3/4	800-1,300			
	13/16	1,100-1,500			
	3/16	6-10	45	1.3	
	5/16	8-15	75	3.1	

Table 2-14. Cord, rayon, without core, braided

Type	Length, min (ft per lb)	Breaking strength, min (lb)	Elongation, min (%)
I	126	400	14
II	60	1,000	12
III	39	1,500	--

Table 2-15. Cord, cotton, general-purpose, type I

Size	Diameter (in)	Breaking strength, min (lb)	Linear Density, max (lbs./100ft)		Notes
			Class 1	Classes 2 and 3	
4	1/8	100	0.50	0.60	Classification Types: I- General purpose cord II- Sash cord III- Venetian blind cord IV- Special purpose cord Classes: 1- Natural 2- Polished finish 3- Water and mildew- resistant finish
5	5/32	160	1.00	1.20	
6	3/16	240	1.50	1.80	
7	7/32	300	1.85	2.20	
8	1/4	370	2.25	2.70	
10	5/16	560	3.70	4.35	
12	3/8	720	5.00	5.90	

Table 2-16. Felt sheet, polyester, needle punched

Weight, min (oz/sq yd)	Weight, max (oz/sq yd)	Thickness, min (in)	Thickness, max (in)	Breaking strength, machine direction (lb)	Breaking strength, cross machine direction (lb)	Splitting resistance, machine direction (lb)	Splitting resistance, cross machine direction (lb)
33	40	0.265	0.335	390	580	29	33

Table 2-17. Grommet, metallic

A- Type I, plain grommet with plain washer

Plain grommet							
Size	ID end of bbl	OD under head	Diameter of head	Height overall	Thickness of head	Tolerances (plus or minus)	Nominal thickness of basic metal
00	.176	.218	.425	.170	.035	.005	.009
0	.240	.290	.545	.210	.035	.005	.011
1	.286	.375	.687	.220	.035	.005	.0126
1-J	.298	.375	.680	.295	.032	.005	.0126
2	.362	.475	.815	.250	.035	.005	.0126
2-J	.394	.490	.840	.295	.035	.005	.016
3	.433	.545	.970	.345	.050	.005	.014
4	.486	.630	1.050	.420	.046	.005	.016
5	.594	.785	1.220	.375	.045	.0075	.016
6	.810	.885	1.750	.312	.080	.0075	.0201
Plain washer							
Diameter of hole	OD of washer	Height overall	Tolerances (plus or minus)	Nominal thickness of basic metal			
.218	.460	.029	.005	.009			
.286	.546	.030	.005	.010			
.359	.700	.041	.005	.0126			
.359	.700	.041	.005	.0126			
.453	.835	.045	.005	.0126			
.453	.835	.045	.005	.0126			
.530	.955	.050	.005	.013			
.585	1.062	.050	.005	.013			
.740	1.205	.055	.0075	.0135			
.875	1.828	.070	.0075	.0201			

Table 2-17. Grommet, metallic- Continued

B- Type II, plain grommet with toothed washer

Plain grommet							
Size	ID end of bbl	OD under head	Diameter of head	Height overall	Thickness of head	Tolerances (plus or minus)	Nominal thickness of basic metal
00	.176	.218	.425	.170	.035	.005	.009
0	.240	.290	.545	.210	.035	.005	.011
1	.286	.375	.687	.220	.035	.005	.0126
1-J	.298	.375	.680	.295	.032	.005	.0126
2	.362	.475	.815	.250	.035	.005	.0126
2-J	.394	.490	.840	.295	.035	.005	.016
3	.433	.545	.970	.345	.050	.005	.014
4	.486	.630	1.050	.420	.046	.005	.016
5	.594	.785	1.220	.375	.045	.0075	.016
6	.810	.885	1.750	.312	.080	.0075	.0201
Toothed washer							
Diameter of hole	OD of washer	Height overall	Thickness of head	Tolerances (plus or minus)	Nominal thickness of basic metal		
.290	.570	.125	.035	.005	.0115		
.350	.680	.140	.040	.005	.014		
.350	.680	.140	.040	.005	.014		
.468	.840	.180	.040	.005	.0126		
.468	.840	.180	.040	.005	.016		
.545	.945	.180	.040	.005	.0126		
.593	1.050	.250	.045	.005	.018		
.720	1.190	.288	.050	.0075	.017		

Table 2-17. Grommet, metallic- Continued

C- Type III, rolled rim grommet with spur washer

Rolled rim grommet								
Size	ID end of bbl	OD under head	Diameter of head	Height overall	Thickness of head	Tolerances (plus or minus)	Nominal thickness of basic metal	See Notes
0	.270	.375	.670	.235	.60	.005	.016	1
1	.380	.480	.790	.270	.065	.005	.016	1
2	.425	.532	.890	.325	.070	.005	.019	1
3	.430	.545	.970	.330	.075	.005	.020	2
4	.560	.695	1.120	.400	.080	.005	.020	3
5	.600	.800	1.285	.465	.085	.0075	.021	4
6	.735	.935	1.535	.510	.090	.0075	.0253	4
7	.883	1.080	1.725	.536	.090	.0075	.020	4
8	1.040	1.300	1.865	.555	.090	.0075	.0253	5
<p>Notes: 1. Washers have one row of 6 teeth. 2. Washers have one row of 7 teeth. 3. Washers have one row of 8 teeth. 4. Washers have two rows of 9 teeth each. 5. Washers have two rows of 20 teeth each.</p>								
Spur washer								
Diameter of hole	OD of washer	Height overall	Thickness of head	Tolerances (plus or minus)	Nominal thickness of basic metal			
.345	.645	.150	.060	.005	.016			
.455	.790	.150	.065	.005	.016			
.512	.890	.156	.070	.005	.020			
.537	.970	.190	.075	.005	.020			
.645	1.120	.205	.080	.005	.020			
.777	1.270	.225	.085	.0075	.021			
.875	1.505	.225	.090	.0075	.0253			
1.062	1.725	.225	.090	.0075	.020			
1.195	1.910	.240	.090	.0075	.020			

Table 2-17. Grommet, metallic- Continued

D- Oblong grommet with flat washer

Oblong grommet							
Width of hole	Width under head	Width of head	Height overall	Length of hole	Length under head	Length overall	Corner radius
0.1875 + .000 .002	0.221 + .000 - .003	0.406 + .005 -	0.235 + .005 -	1.24 + .000 - .002	1.284 + .003 -	1.470 + .005 -	0.03125 + .003 -
Flat washer							
Nominal basic-metal thickness	Width of hole	Width of washer	Length of hole	Length overall	Nominal thickness of basic metal		
0.013	0.25 + .003 -	0.4375 + .003 -	1.312 + .003 -	1.50 + .003 -	0.0201		

E- Type V oblong grommet with raised washer

Type V oblong grommet								
Size	Width of hole	Width under head	Width of head	Height overall	Length of hole	Length under head	Length overall	Corner radius
1 (3/8 x 1 1/2)	0.290 + .000 .002	0.395 + .002 -	0.915 + .005 -	0.360 + .005 -	1.406 + .000 - .002	1.515 + .002 -	2.015 + .005 -	0.03125 + .003 -
2 (5/16 x 1)	.175 + .000 .002	.249 + .003 -	.665 + .005 -	.245 + .005 -	.830 + .000 - .002	.910 + .002 -	1.315 + .005 -	.0468 + .003 -
Raised washer								
Nominal thickness of basic metal	Width of hole	Width of washer	Height overall	Length of hole	Length overall	Corner radius	Nominal thickness of basic metal	
0.028	0.420 + .003 -	0.915 + .003 -	0.125 + .003 -	1.532 + .003 -	2.010 + .003 -	0.03215 + .003 -	0.028 .003	
.0201	.275 + .003 -	.625 + .003 -	.100 + .003 -	.950 + .003 -	1.290 + .003 -	.0156 .003	0.0201	

Table 2-17. Grommet, metallic- Continued
 F- Type VIII eyelet grommet with ring

Type VIII eyelet grommet			Ring			
Size	Weight per gross (approx) (oz*)	"A" diameter after insertion (in)	Size	Weight per gross (approx) (lb) (oz)		"A" diameter (in)
6	30	0.750	6	3	7	1.000
8	36	.825	8	7	6	1.250
10	70	1.250	10	10	5	1.500
11	84	1.500	11	16	14	1.750
15	150	2.000	15	39	14	2.250

*Brass grommets only

Table 2-18. Lumber

A- Minimum dressed sizes of boards (up to 2 inches thick)

Thickness (in)			Face widths (in)		
Minimum size dressed			Minimum size dressed		
Size ordered	Seasoned	Unseasoned	Size ordered	Seasoned	Unseasoned
1	3/4	25/32	2	1 1/2	1 9/16
1 1/4	1	1 1/32	3	2 9/16	2 5/8
1 1/2	1 1/4	1 9/32	4	3 9/16	3 5/8
			5	4 1/2	4 5/8
			6	5 1/2	5 5/8
			7	6 1/2	6 5/8
			8	7 1/2	7 5/8
			9	8 1/2	8 3/4
			10	9 1/2	9 3/4
			11	10 1/2	10 3/4
			12	11 1/2	11 3/4
			14	13 1/2	13 3/4
			16	15 1/2	15 3/4
2	1 1/2	1 9/16	2	1 1/2	1 9/16
			3	2 9/16	2 5/8
			4	3 9/16	3 5/8
			5	4 1/2	4 5/8
			6	5 1/2	5 5/8
			7	6 1/2	6 5/8
			8	7 1/2	7 5/8
			9	8 1/2	8 3/4
			10	9 1/2	9 3/4
			11	10 1/2	10 3/4
			12	11 1/2	11 3/4
			14	13 1/2	13 3/4
			16	15 1/2	15 3/4

Table 2-18. Lumber- Continued

B- Minimum dressed sizes of boards (over 2 inches thick) and timbers

Items	Thickness (in)		Face widths (in)	
	Size ordered	Minimum size dressed	Size ordered	Minimum size dressed
		Seasoned or Unseasoned		Seasoned or Unseasoned
Boards	2 1/2	2 1/8	3	2 5/8
	3	2 1/8	4	3 5/8
	3 1/2	3 1/8	6	5 1/2
	4	3 5/8	8	7 1/2
			10	9 1/2
			12	11 1/2
			14	13 1/2
			16	15 1/2
Timbers	5 and thicker	1/2 off	5 and thicker	1/2 off

C- Finished dressed sizes of seasoned worked lumber

Thickness (in)		Face widths (in)	
Minimum size dressed	Size ordered	Size ordered	Minimum size dressed
3/8	5/16	2	1 1/2
1/2	7/16	3	2 9/16
5/8	9/16	4	3 9/16
3/4	5/8	5	4 1/2
1	3/4	6	5 1/2
1 1/4	1	7	6 1/2
1 1/2	1 1/4	8	7 1/4
1 3/4	1 3/8	9	8 1/4
2	1 1/2	10	9 1/4
2 1/2	2	11	10 1/4
3	2 9/16	12	11 1/4
3 1/2	3 1/16	14	13 1/4
4	3 9/16	16	15 1/4

Table 2-19. Nails
A- Brads

Dash no	Length (in)	Diameter (in)	No per lb (approx)
- 1	3/8	.0348	9520
- 2	1/2	.0348	7060
- 3	5/8	.0348	5680
- 4	3/4	.0348	4800
- 5	7/8	.0348	4220
- 6	1	.054	1502
- 7	1	.0625	1120
- 8	1 1/4	.0625	940
- 9	1 1/2	.080	470
- 10	1 3/4	.0625	672
- 11	1 3/4	.080	400
- 12	2	.080	350
- 13	2 1/4	.080	320
- 14	2 1/2	.080	290

B- Nails, casing

Dash no	Common designation	Length (in)	Diameter (in)	No per lb (approx)
- 15	4d	1 1/2	.080	489
- 16	6d	2	.099	244
- 17	8d	2 1/2	.113	147
- 18	10d	3	.128	96
- 19	12d	3 1/4	.128	88
- 20	16d	3 1/2	.135	74

C- Nails, finishing

Dash no	Common designation	Length (in)	Diameter (in)	No per lb (approx)
- 21	3d	1 1/4	.067	880
- 22	4d	1 1/2	.072	630
- 23	5d	1 3/4	.072	535
- 24	6d	2	.0915	288
- 25	7d	2 1/4	.0915	254
- 26	8d	2 1/2	.099	196
- 27	9d	2 3/4	.099	178
- 28	10d	3	.113	124
- 29	12d	3 1/4	.113	113
- 30	16d	3 1/2	.1205	93
- 31	20d	4	.135	65

Table 2-19. Nails- Continued

D- Nails, bright				
Dash no	Common designation	Length (in)	Diameter (in)	No per lb (approx)
- 1	2d	1	.072	810
- 2	3d	1 1/4	.080	540
- 3	4d	1 1/2	.099	300
- 4	5d	1 3/4	.099	255
- 5	6d	2	.113	170
- 6	7d	2 1/4	.113	150
- 7	8d	2 1/2	.131	95
- 8	9d	2 3/4	.131	90
- 9	10d	3	.1483	65
- 10	12d	3 1/4	.1483	60
- 11	16d	3 1/2	.162	46
- 12	20d	4	.192	28
- 13	30d	4 1/2	.207	20
- 14	40d	5	.2253	17
- 15	50d	5 1/2	.2437	13
- 16	60d	6	.2625	10
E- Nails, zinc-coated				
Dash no	Common designation	Length (in)	Diameter (in)	No per lb (approx)
- 17	2d	1	.072	789
- 18	4d	1 1/2	.099	274
- 19	6d	2	.113	155
- 20	8d	2 1/2	.131	91
- 21	10d	3	.1483	61
- 22	12d	3 1/4	.1483	57
- 23	16d	3 1/2	.162	44
- 24	20d	4	.192	26
- 25	30d	4 1/2	.207	20
- 26	40d	5	.2253	17
- 27	50d	5 1/2	.2437	13
- 28	60d	6	.2625	10

Table 2-19. Nails- Continued

F- Nails, copper			
Dash no	Length (in)	Diameter (in)	No per lb (approx)
- 29	1	.072	704
- 30	1 1/2	.109	208
- 31	2	.120	130
- 32	2 1/2	.134	86
- 33	3	.148	56
- 34	3 1/2	.165	40
- 35	4	.203	23
- 36	4 1/2	.220	18
- 37	5	.238	14

Table 2-20. Parachute, cargo

Type	Weight (lb)	Maximum load limit (lb)
68-inch pilot chute	3	50
T-10 modified cargo	25	500
15-foot cargo extraction	27	500
G-14	37	500
12-foot high velocity	7.75	500
22-foot cargo extraction	31	2,200
26-foot high velocity	22	2,200
G-12E	125	2,200
G-11B/C	250	5,000
G-11D	250	4,250

Table 2-21. Parachute, cargo extraction

Size (ft)	Weight (lb)	
	Canopy	Packed
15	8.0	27.0
22	27.5	31.0
28	36.5	75.0

Table 2-22. Platform, cargo airdrop, type V

Length (ft)	Width (in)	Weight (lb)	Platform surface (sq ft)	Minimum rigged weight (lb)
8	108	820	72	2,520
12	108	1,220	108	3,780
16	108	1,590	144	5,040
20	108	1,950	180	6,300
24	108	2,280	216	7,560
28	108	2,820	252	8,820
32	108	3,056	288	10,080

Table 2-22.1. Platform, Dual Row Airdrop System

Length (ft)	Width (in)	Weight (lb)	Platform surface (sq ft)	Minimum rigged weight (lb)
18	88	1,590 w/o outriggers	132	7,500
18	88	1,942 w/ outriggers	132	7,500

Table 2-23. Plywood, flat panel

Thickness (in)	Width (in)	Length (in)	Note
1/4	48	96	<p>Types:</p> <p>Exterior:</p> <p>Type I- The glue line is water - proof and unaffected by micro-organisms. *Minimum grade standard for airdrop is AC Exterior</p> <p>Type I</p> <p>Interior:</p> <p>Type II- The glue line will withstand occasional wetting and drying.</p> <p>Type III- The glue is suitable only for use where the plywood will not be subjected to water, dampness, or high humidity.</p> <p>Classes:</p> <p>A- Hardwood</p> <p>B- Douglas fir</p> <p>C- Pine</p> <p>D- Western softwood</p> <p>E- Southern pine</p>
3/8	48	96	
1/2	48	96	
5/8	48	96	
3/4	48	96	
1	48	96	

Table 2-24. Tape, nylon, parachute

Class	Type	Width (in)	Weight (yd per lb)	Breaking Strength (lb)
A Extra lightweight	I	.250	1300	13
	II	.375	875	18
	III	.625	440	43
	IV	1.250	260	65
	V	2.000	165	96
B Lightweight	I	.250	970	22
	II	.375	650	33
	II	.625	360	70
	IV	1.250	210	120
	V	2.000	120	200
	VI	5.000	50	100
C Mediumweight	I	.250	770	39
	II	.375	520	58
	III	.625	335	90
	IV	1.250	160	185
	V	2.000	100	300
D Heavyweight	I	1.250	80	280
	II	2.000	45	460
E Extra heavyweight	I	1.250	50	650
	II	2.000	30	1,000

Table 2-25. Rope, manila and sisal has been removed

Table 2-26. Type XXVI, sling, cargo, airdrop

No per suspension point	No of loops per sling	Safe load
1	2 4	0 to 14,000 14,001 to 40,000

Table 2-27. Sling, endless

Fiber Rope				
Type	Rope circumference (in)	Inside perimeter (ft)	Safe working load (lb)	Breaking strength (lb)
I	3	24	1,800	9,000
II	3 1/4	40	2,100	10,500
II	3 1/2	80	2,400	12,000
IV	4	80	3,000	15,000
Wire Rope, grommet				
Diameter (in)	Safe working load (lb)		Proof load vertical hitch (lb)	Breaking strength (lb)
	Vertical hitch	Choker hitch		
3/4	15,200	11,400	30,400	76,000

Table 2-28. Tape, textile, cotton, general-purpose

Type	Width (in)	Warp strength (lb)
I	3/16	22
I	1/4	25
I	3/8	30
I	1/2	42
I	5/8	50
I	3/4	65
I	7/8	80
I	1	85
I	1 1/8	95
I	1 1/4	115
I	1 1/2	130
II	3/16	14
II	1/4	18
II	3/8	24
II	1/2	35

Table 2-29. Tape, textile, nylon

Type	Width (in)	Thickness (in)	Weight min (oz per lin yd)	Breaking strength min (lb)	Elongation min (%)	Notes
Parachute Construction						
I	1	.025-.045	.35	600	16	Type I- one black thread in center
II	1	.010-.030	.145	300	14	
III	1	.025-.045	0.40	525	16	
Multiple tubular	1 3/8	.020	.40	500	20	

Table 2-30. Tape and webbing, textile, rayon

Type	Width (in)	Length, min (lin yd per lb)	Breaking strength, min (lb)	Notes
I	1/2	400	15	When specified, all rayon tape and webbing will contain one red thread in center. Types: I - Flat-weave tape Ia - Flat-weave webbing II - Tubular-weave webbing
I	9/16	200	50	
I	1 1/8	100	100	
I	1 1/4	80	140	
Ia	3/8	100	160	
Ia	9/16	40	500	
Ia	1	32	500	
Ia	1 5/8	15	750	
II	1/8	125	150	
II	3/16	100	200	
II	1/2	40	500	
II	9/16	40	500	
II	5/8	23	900	

Table 2-31. Tape, textile and webbing, textile, reinforcing, nylon

Type	Width (in)	Thickness (in)	Weight, max (oz per yd)	Breaking strength, min (lb)	Notes
II	1	.025-.035	.40	900	Types: II- Tape, herringbone twill weave III- Tape, plain weave IV- Webbing, plain weave V- Tape, herringbone twill weave VI- Tape, herringbone twill weave
	1 1/2	.025-.035	.60	1,300	
III	2	.025-.035	.80	1,700	
	3/8	.015-.025	.12	200	
	1/2	.015-.025	.15	250	
IV	3/4	.015-.025	.20	400	
	1	.015-.025	.30	525	
	1 1/2	.015-.025	.40	850	
	1/2	.030-.040	.35	550	
	5/8	.030-.040	.40	625	
V	1	.030-.040	.50	1,000	
	1 1/8	.030-.040	.60	1,100	
	1 1/2	.030-.040	.75	1,500	
V	9/16	.020-.030	.20	500	
VI	3/4	.020-.030	.20	425	

Table 2-32. Tape and webbing, textile, cotton reinforcing, woven

Type	Width (in)	Weight, max (oz per lin yd)	Breaking strength, min (lb)	Notes
I	1/4	.11	80	Types: I- Plain
	3/8	.15	120	
	1/2	.22	150	
	5/8	.28	170	
	3/4	.33	200	
II	1	.47	250	II- Double herringbone
	1/2	.15	110	
	3/4	.22	165	
	1	.29	220	
	1 1/4	.36	275	
	1 1/2	.43	330	
	1 3/4	.50	375	
III	2	.57	425	III- Twill
	1/2	.10	45	
	5/8	.12	55	
V	3/4	.14	75	V- Plain (transverse cord)
	1	.65	350	
VI	2	1.30	650	VI- Nonelastic
	5/8	.23	80	
	1	.98	375	

Table 2-33. Thread, nylon

A- Type I -Twisted, multiple cord, soft finish				
Size	Ply	Length, min (yd per lb)	Breaking strength, min (lb)	Notes
00	2	25,801	1.8	
A	3	18,001	2.8	
AA	2 or 3	13,001	4.1	
B	2 or 3	8,701	6.0	
E	3	5,801	9.0	
F	3 or 4	4,001	11.8	
FF	3	2,901	17.5	
3	3	1,951	27.0	
4	3	1,451	36.0	
5	3	1,151	45.0	
6	3	951	54.0	
8	3	701	72.0	
B- Type II -Twisted, bonded, multiple cord, bonded finish				
Size	Ply	Length, min (yd per lb)	Breaking strength, min (lb)	
00	2	2,201	1.8	
A	3	16,201	2.8	
AA	2 or 3	11,701	4.1	
B	2 or 3	7,801	6.0	
E	3	5,201	9.0	
F	3 or 4	3,601	11.8	
FF	3	2,601	17.5	
3	3	1,751	27.0	
4	3	1,301	36.0	
5	3	1,051	45.0	
6	3	851	54.0	
8	3	600	72.0	

Table 2-34. Thread, cotton

Ticket number	Tex (approximate size)	Ply	Yards per lb, min	Breaking strength, min, (lb)
A-Types I and II (machine thread)				
140	19	2	23,000	1.0
90	25	2	17,946	0.9
70	30	2	14,173	1.2
70	30	3	14,173	1.5
50	40	3	11,023	1.8
40	50	3	8,267	2.2
30	60	3	7,087	3.0
30	60	3	7,087	3.2
24	80	4	5,512	3.8
16	105	4	4,134	5.3
12	150	4	3,307	6.8
10	187	3	2,501	6.5
10	225	4	1,901	9.5
10	292	5	1,501	12.5
10	358	6	1,275	15.5
9	255	4	1,831	10.0
8	233	3	2,001	7.0
8	283	4	1,501	11.0
B-Type II (mercerized machine thread)				
30	39	2	11,001	1.6
36	32	2	14,401	1.3
C	72	3	6,010	4.0
B	58	3	7,761	3.2
A	50	3	8,268	2.8
0	40	3	9,920	2.6
00	35	3	12,401	2.1
000	27	3	15,521	1.7
C-Types IV and V (shoe thread)				
8	270	4	1,654	13.0
8	350	5	1,241	17.5
8	400	6	1,103	21.0
8	450	7	993	24.5
8	500	8	827	28.0
8	600	9	709	31.5
8	700	10	621	35.0
8	700	11	621	38.5
8	800	12	552	42.0

Table 2-35. Webbing, textile, woven nylon

Type	Width (in)	Thickness (in)	Weight (oz per lin yd)	Breaking strength (lb)	Identifying yarns
I	9/16	.025-.040	0.28	500	
Ia	3/4	.025-.035	0.32	600	
II	1	.025-.040	0.42	600	
III	1 1/4	.025-.040	0.52	800	
IV	3	.025-.040	1.20	1,800	
VI	1 23/32	.030-.050	1.15	2,500	Two red threads in center
VII	1 23/32	.060-.100	2.35	6,000	Two yellow threads at each edge
VIII	1 23/32	.040-.070	1.60	4,000	Two black threads in center
VIIIa	3	.040-.070	2.80	6,300	
VIIIb	2	.040-.070	1.80	4,500	
VIIIc	2 1/4	.040-.070	2.10	5,300	
IX	3	.065-.100	4.00	9,000	
X	1 23/32	.105-.140	3.70	9,500	
XII	1 23/32	.025-.040	0.85	1,200	One red thread at each edge
XIII	1 23/32	.080-.120	2.90	7,000	Two black threads at each edge
XIV	1/2	.070-.100	0.80	1,200	
XV	2	.035-.050	1.25	1,500	
XVI	1 23/32	.045-.080	2.00	4,500	
XVII	1	.045-.070	1.15	2,500	
XVIII	1	.100-.160	2.05	6,000	
XIX	1 3/4	.100-.130	4.10	10,000	Two green threads in center
XX	1	.180-.210	3.25	9,000	
XXI	1 1/4	.065-.085	1.70	3,600	
XXII	1 23/32	.090-.120	3.50	9,500	Two black threads at each edge
XXIII	1 1/8	.200-.300	3.70	12,000	and in center
XXIV	1 15/16	.055-.075	2.25	5,500	
XXV	1	.080-.125	1.50	4,500	
XXVI	1 3/4	.150-.180	4.90	15,000	Two yellow threads in center
XXVII	1 23/32	.085-.110	2.90	6,500	One black thread at each edge
XXVIII	2 1/4	.080-.110	3.80	8,700	

Table 2-35.1. Webbing, textile, nylon -- Universal Static Line

Width (in)	Thickness (in)	Breaking strength, min (lb)	Weight, max (oz per lin yd)
.75	0.136	4000	1.75

Table 2-35.2. Webbing, nylon, tube edge construction

Width (in)		Thickness (in)	Weight, max (oz per yd)	Breaking Strength, min (lb)	Identification Yarns
Full width	Each edge				
1 23/32	3/16	0.060-0.100	2.35	6,000	4 yellow yarns
1 23/32	3/16	0.080-0.120	2.90	7,000	4 black yarns
1	3/16	0.045-0.075	1.15	2,500	
1 3/4	1/4	0.150-0.190	4.90	15,000	2 yellow yarns in center

Table 2-36. Webbing, textile, nylon, tubular

Width (in)	Thickness (in)	Weight (oz per yd)	Breaking strength (lb)	Identifying yarns
3/8	0.090	0.40	950	Two yellow or black warp yarns in center
1/2	0.090	0.50	1,000	One yellow or black warp yarns in center of one side
9/16	0.090	0.60	1,500	Three yellow or black warp yarns in center
5/8	0.100	0.75	2,250	Two yellow or black warp yarns in center of one side
3/4	0.120	1.05	2,300	One yellow or black warp yarns in center
7/8	0.120	1.00	3,100	None
1	0.120	1.70	4,000	One yellow or black warp yarns in center of one side

Table 2-37. Webbing, textile, cotton warp

Type	Width (in)	Thickness (in)	Weight (oz per yd)	Breaking strength, warp full width min (lb)	Notes
I	9/16	.040-.050	0.40	350	Classes: 1A- Undyed and not fungus proofed 1B- Undyed and fungus proofed 2A- Dyed and not fungus proofed 2B- Dyed and fungus proofed 3- Resin dyed and fungus proofed during dyeing Identifying threads: Two black threads at each edge Two black threads in center
II	1	.040-.050	0.75	575	
III	1 1/4	.040-.050	0.90	750	
IV	3	.050-.100	2.50	1,900	
V	5	.050-.100	4.30	2,750	
VI	1 3/4	.070-.095	2.20	1,500	
VII	1 3/4	.140-.170	3.00	2,600	Two red threads in center Two red threads at each edge Two yellow threads in center
VIII	1 3/4	.070-.095	3.00	1,200	
IX	3	.090-.115	4.65	4,500	
X	1 3/4	.125-.170	4.00	4,700	
XII	1 3/4	.040-.060	1.25	900	
XIII	1 3/4	.095-.130	3.40	3,400	
XV	1 3/4	.130-.150	3.50	4,500	
XVI	1 3/4	.090-.115	2.60	2,700	
XVII	1	.075-.095	1.25	900	
XVIII	2 1/2	.050-.060	1.40	1,250	
XIX	2	.130+/- .010	3.68	2,500	
XX	5/8	.075-.095	0.45	200	

Table 2-38. Webbing, textile, elastic, cotton

Type	Class	Width max (in)	Thickness (in)	Weight (oz per lin yd)	Load range to produce 50% elongation (lb)		
I	1	3/8	.016-.046	0.28	1.15-3.25		
		1/2	.016-.046	0.38	1.35-3.75		
		3/4	.016-.046	0.53	1.80-5.00		
		7/8	.016-.046	0.55	0.90-4.37		
		1	.016-.046	0.73	3.00-5.50		
		1 1/2	.016-.046	1.00	5.00-7.00		
		2	.031-.061	1.60	6.00-11.00		
		2 1/2	.031-.061	2.00	8.00-12.00		
		2	3*	1 1/2	.094-.156	2.30	7.20-17.50
				1 1/2	.094-.156	2.35	15.30-31.25
II	1	1	.030-.060	0.80	3.00-6.00		
		1 1/2	.030-.060	1.20	4.00-7.50		

*Used for parachute packs and ripcord grip pockets

Table 2-39. Webbing, textile, cotton, general-purpose

A-Type II, medium- weight webbing (hard texture)			
Width (in)	Weight (oz per lin yd)	Breaking strength full width min(lb)	Notes
3/8	0.20	100	Classes: 1- Natural 1a- Natural, water-repellent, mildew-resistant, 2,2' methylenebis (4-chlorophenol) 1b- Natural, water-repellent, mildew-resistant, (copper 8-quinolinolate) 2- Bleached 2a- Bleached, water-repellent, mildew-resistant, 2,2' methylenebis (4-chlorophenol) 3- Dyed 4- Dyed, water-repellent, mildew-resistant, (copper 8-quinolate) 7- Dyed, water-repellent, mildew-resistant, 2,2' methylenebis (4-chlorophenol) 8- Dyed, water-repellent
1/2	0.32	160	
5/8	0.40	200	
3/4	0.48	235	
1	0.65	315	
1 1/4	0.81	385	
1 1/2	0.97	460	
2	1.30	585	
2 3/4	1.78	760	
3	1.95	810	
3 3/4	2.43	315*	
5	3.25	315*	
5 5/8	3.65	315*	

*Indicates breaking strength per inch

Table 2-39. Webbing, textile, cotton, general-purpose- Continued

B-Type IIa, medium weight webbing (soft texture)		
Width (in)	Weight (oz per lin yd)	Breaking strength full width min(lb)
3/8	0.25	130
1/2	0.33	160
5/8	0.41	195
3/4	0.49	230
1	0.65	300
1 1/4	0.81	370
1 1/2	0.97	440
2	1.30	580
2 1/4	1.47	645
C-Type IIb, medium heavyweight webbing		
Width (in)	Weight (oz per lin yd)	Breaking strength full width min (lb)
5/8	0.60	310
3/4	0.72	365
1	0.96	475
1 1/4	1.20	590
1 1/2	1.44	700
2	1.92	925
2 1/4	2.25	1,050
3	2.88	1,375
D-Type III, heavyweight webbing		
Width (in)	Weight (oz per lin yd)	Breaking strength full width min (lb)
5/8	1.00	380
3/4	1.20	460
1	1.33	550
1 1/4	1.50	650
1 1/4	2.00	720
1 1/2	2.40	860
2	2.65	1,100
2 1/2	4.00	1,360
3	4.80	1,560

Table 2-40. Wire strand (6 x 19)

Diameter (in)	Weight (lb per 100 ft)	Breaking strength (tn)		
		Mild plow steel	Plow steel	Improved plow steel
1/4	10	2.07	2.39	2.74
3/8	23	5.0	5.5	6.3
1/2	40	8.5	9.4	10.8
5/8	63	13.1	14.4	16.6
3/4	90	18.7	20.6	23.7
7/8	123	25.4	28.0	32.2
1	160	33.0	36.5	42.0
1 1/8	203	41.5	46.0	53.0
1 1/4	250	51.0	56.5	65.0
1 1/2	360	72.5	80.5	92.5

Table 2-41. Wire strand, steel (corrosion resistant), preformed (aircraft application)

Cable type	Nominal diameter (in)	Breaking strength (lb)	Weight (lb per 100 ft)	Notes
I	1/32	150	.025	Types: I- Nonflexible 1x7, with wire center II- Nonflexible 1x19, with wire center
	3/64	375	0.55	
II	1/16	500	0.85	
	5/64	800	1.40	
	3/32	1,200	2.00	
	7/64	1,600	2.70	
	1/8	2,100	3.50	
	5/32	3,300	5.50	
	3/16	4,700	7.70	
	7/32	6,300	10.20	
1/4	8,200	13.50		
5/16	12,500	21.00		

Table 2-42. Miscellaneous hardware and equipment

Item	Breaking strength (lb)
Adapter, parachute harness, quick-fit	2,500
Adapter, parachute harness, reversible, quick-fit	2,500
Clevis, riser, airdrop, type III	2,000
Clevis, suspension, airdrop, type I:	
1- inch diameter (large suspension clevis)	40,000
3/4- inch diameter (cargo suspension clevis)	20,000
5/8- inch diameter (small suspension clevis)	20,000
Clevis, tiedown, airdrop, type II:	
5/8- inch diameter	15,000
1/2- inch diameter	7,000
Container kits, airdrop:	
A-7A, Sling assembly	500
A-10, Net	300
A-21, Bag	500
A- 22, Bag	2,200
Link assembly, type IV	40,000
Two point link assembly, 3 3/4	30,000
Two point link assembly, 5 1/2	30,000
Link, parachute, connector, L- bar type	3,000
Ring, parachute harness "D"	5,000
Ring, parachute harness "V"	2,500
Ring, parachute harness, quick-fit, "V" type	2,500
Snap, parachute harness, ejector	2,500
Snap, parachute harness, quick-fit, ejector	2,500
Strapping, steel, 5/8-in wide, 0.02-in thick (safe load per double thickness: 250 lb)	1,000
Tiedown, cargo, aircraft:	
Type CGU-1B	5,000
Type MB-1 or CGU-4/E	10,000
Type MB-2 or CGU-3/E	25,000
Tiedown, cargo, aircraft, nylon web net:	
Type MA-2 (15' x 15')	10,000
Type MA-3 (20' x 15')	10,000

Chapter 3 Rigged Load Reference Data

SECTION I- INTRODUCTION

GENERAL

3-1. This chapter contains illustrations and reference data on completely rigged airdrop platforms.

TYPE V PLATFORM LOW-VELOCITY AIRDROP

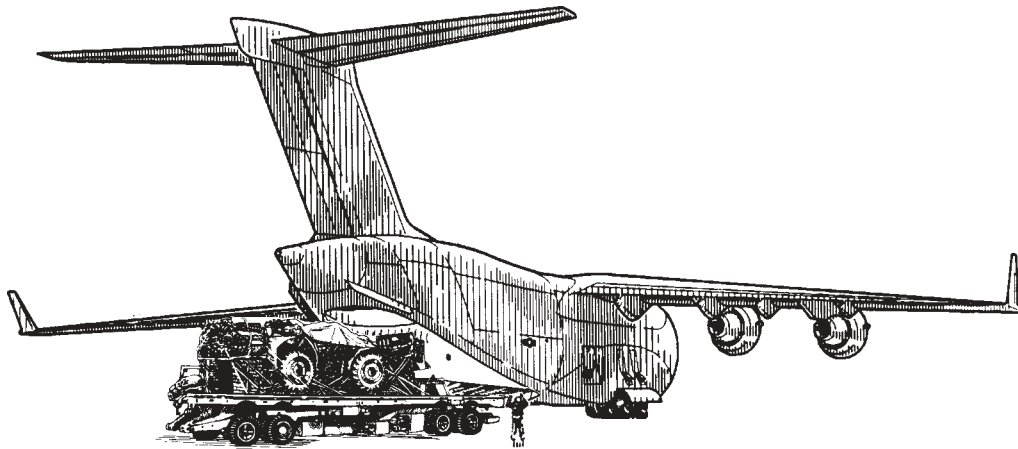
3-2. Loads rigged on type V platform for low-velocity airdrop are contained in section II.

COMBAT-EXPENDABLE PLATFORM LOW-VELOCITY AIRDROP

3-3. Loads rigged on combat-expendable platform for low-velocity airdrop are contained in section III.

MARITIME AERIAL DELIVERY SYSTEMS PLATFORM LOW-VELOCITY AIRDROP

3-4. Loads rigged on maritime aerial delivery systems platform for low-velocity airdrop are contained in section IV.



SECTION II- TYPE V PLATFORM LOW-VELOCITY AIRDROP

PLATFORM OVERHANG

3-5. When the extraction parachute jettison system is used, there will be a 30-inch overhang on the rear of the platform.

One Military Utility Vehicle (M-Gator) Rigged on an 8-Foot Platform



CB

Reference: FM 4-20.108/TO 13C7-2-491

Weight	3,120 pounds
Height	78 inches
Width	108 inches
Overall Length	125 inches
Overhang: Front (Rear of Vehicle)	11 inches
Overhang: Rear (EFTC)	18 inches
CB (from front edge of platform)	49 inches

Accompanying Load: None

Aircraft: C-130, C-141, C-5, and C-17

Extraction System: EFTC

Extraction Parachute C-130: 15-Foot

Extraction Parachute C-141: 15-Foot

Extraction Parachute C-5: 15-Foot

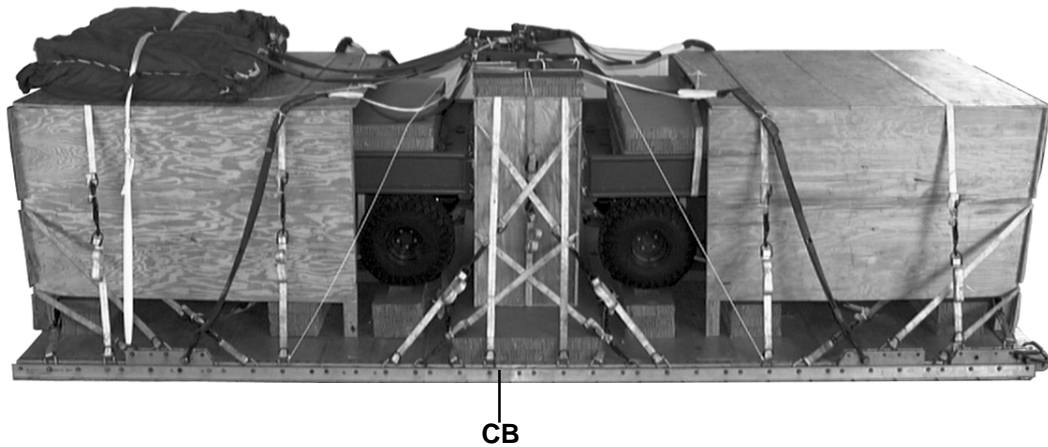
Extraction Parachute C-17: 15-Foot

Platform: 8-Foot Type V

Cargo Parachutes: One G-11B

Figure 3-1. One Military Utility Vehicle (M-Gator) Rigged on an 8-Foot Platform

Two Military Utility Vehicles (M-Gator) and Equipment Box Rigged on a 20-Foot Platform



Reference: FM 4-20.108/TO 13C7-2-491

Weight	8,520 pounds
Height	78 inches
Width	108 inches
Overall Length	260 1/2 inches
Overhang: Front	2 1/2 inches
Overhang: Rear (EFTC)	18 inches
CB (from front edge of platform)	124 inches

Accompanying Load: Equipment box weighing 2,000 pounds is rigged on platform.

Aircraft: C-130, C-141, C-5, and C-17

Extraction System: EFTC

Extraction Parachute C-130: 22-Foot

Extraction Parachute C-141: 22-Foot

Extraction Parachute C-5: 22-Foot

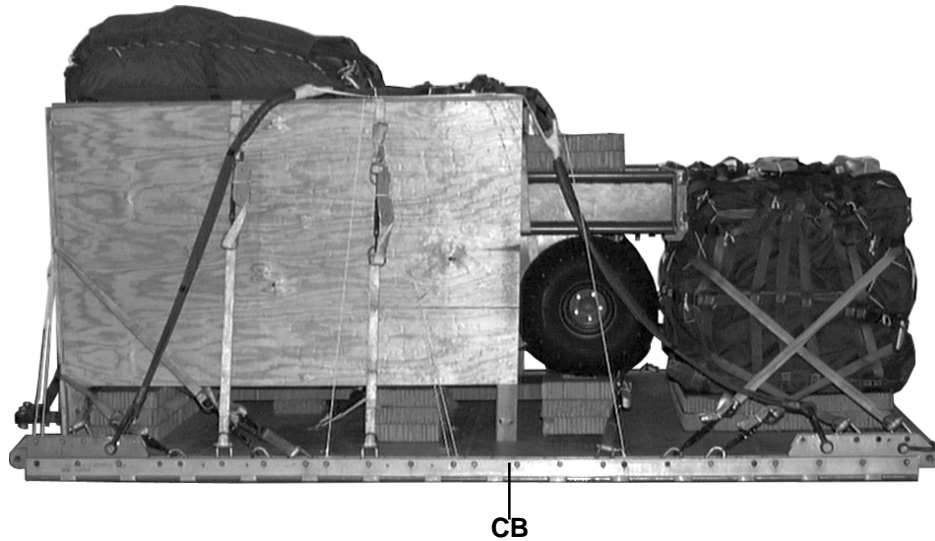
Extraction Parachute C-17: 22-Foot

Platform: 20-Foot Type V

Cargo Parachutes: Two G-11B

Figure 3-2. Two Military Utility Vehicles (M-Gator) and Equipment Box Rigged on a 20-Foot Platform

One Military Utility Vehicle (M-Gator) and an A-22 Cargo Bag on a 12-Foot Platform



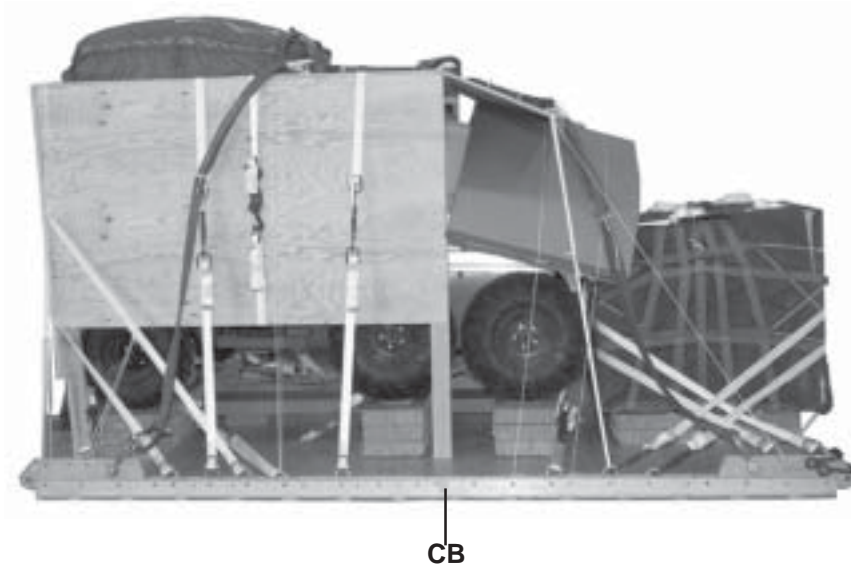
Reference: FM 4-20.108/TO 13C7-2-491

Weight	4,630 pounds
Height	78 inches
Width	108 inches
Overall Length	162 inches
Overhang: Front	0 inches
Overhang: Rear (EFTC)	18 inches
CB (from front edge of platform)	68 inches

Accompanying Load: None
Aircraft: C-130, C-141, C-5, and C-17
Extraction System: EFTC
Extraction Parachute C-130: 15-Foot
Extraction Parachute C-141: 15-Foot
Extraction Parachute C-5: 15-Foot
Extraction Parachute C-17: 15-Foot
Platform: 12-Foot Type V
Cargo Parachutes: One G-11B

Figure 3-3. One Military Utility Vehicle (M-Gator) and an A-22 Cargo Bag on a 12-Foot Platform

M-Gator with First Response Expeditionary (FRE) Fire Vehicle Rigged on a 12-Foot Platform



Reference: FM 4-20.108/TO 13C7-2-491

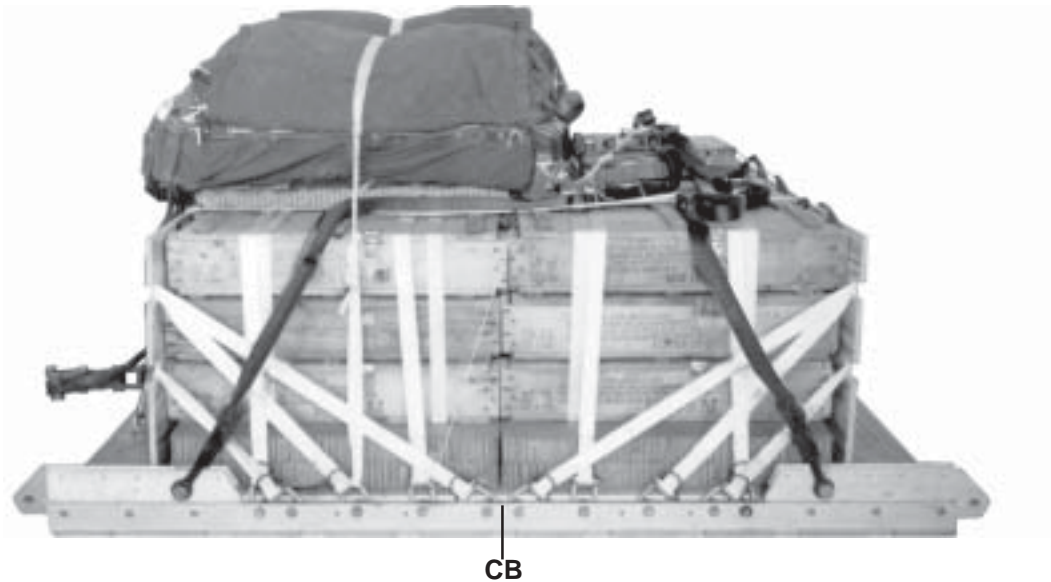
Weight	4,980 pounds
Height	94 inches
Width	108 inches
Overall Length	162 inches
Overhang: Front (A-22 container)	6 inches
Rear (EFTC)	18 inches
CB (from front edge of platform)	70 inches

Accompanying Load: The A-22 container must weigh 1200 pounds.

- Aircraft: C-130, C-141, C-5, and C-17
- Extraction System: EFTC
- Extraction Parachute C-130: 15-Foot
- Extraction Parachute C-141: 15-Foot
- Extraction Parachute C-5: 15-Foot
- Extraction Parachute C-17: 15-Foot
- Platform: 12-Foot Type V
- Cargo Parachutes: One G-11B

Figure 3-3.1. M-Gator with FRE Rigged on a 12-Foot Platform

Bulk Supplies on an 8-Foot Platform



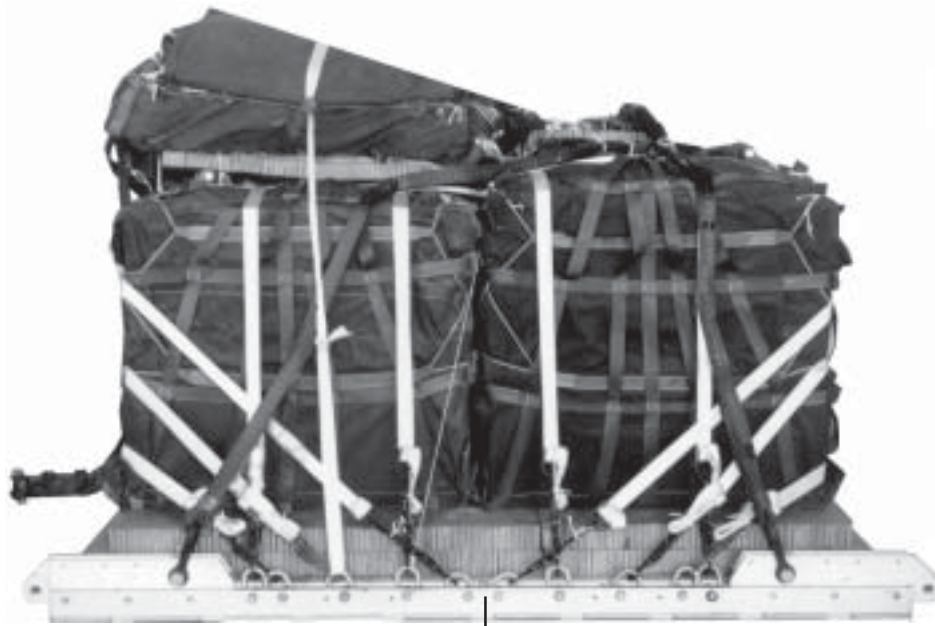
Reference: FM 4-20.112/TO 13C7-1-8

Weight	6,344 pounds
Height	56 inches
Width	108 inches
Overall Length	114 inches
Overhang: Front	0 inches
Rear (EFTC)	18 inches
CB (from front edge of platform)	50 inches

Accompanying Load: None
 Aircraft: C-130, C-141, C-5, and C-17
 Extraction System: EFTC
 Extraction Parachute C-130: 15-Foot
 Extraction Parachute C-141: 15-Foot
 Extraction Parachute C-5: 15-Foot
 Extraction Parachute C-17: 15-Foot
 Platform: 8-Foot Type V
 Cargo Parachutes: Two G-11B

Figure 3-4. Bulk Supplies on an 8-Foot Platform

Bulk Supplies in A-22 Cargo Bags on an 8-Foot Platform



CB

Reference: FM 4-20.112/TO 13C7-1-8

Weight	6,750 pounds
Height	71 inches
Width	108 inches
Overall Length	114 inches
Overhang: Front	0 inches
Rear (EFTC)	18 inches
CB (from front edge of platform)	50 inches

Accompanying Load: None

Aircraft: C-130, C-141, C-5, and C-17

Extraction System: EFTC

Extraction Parachute C-130: 15-Foot

Extraction Parachute C-141: 15-Foot

Extraction Parachute C-5: 15-Foot

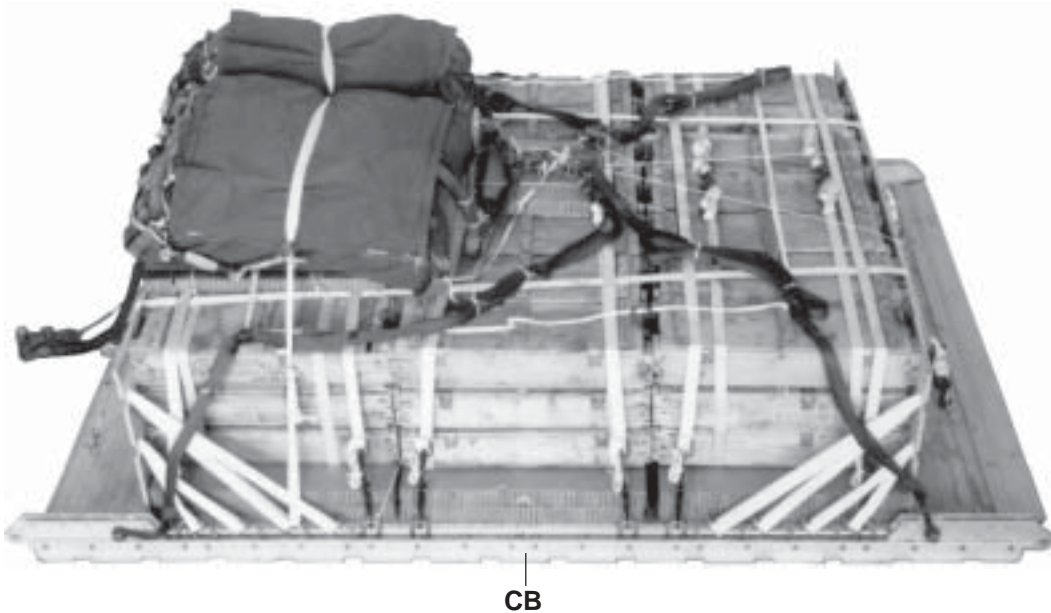
Extraction Parachute C-17: 15-Foot

Platform: 8-Foot Type V

Cargo Parachutes: Two G-11B

Figure 3-5. Bulk Supplies in A-22 Cargo Bags on an 8-Foot Platform

Bulk Supplies on a 12-Foot Platform



Reference: FM 4-20.112/TO 13C7-1-8

Weight	8,904 pounds
Height	56 inches
Width	108 inches
Overall Length	114 inches
Overhang: Front	0 inches
Rear (EFTC)	18 inches
CB (from front edge of platform)	74 inches

Accompanying Load: None

Aircraft: C-130, C-141, C-5, and C-17

Extraction System: EFTC

Extraction Parachute C-130: 22-Foot

Extraction Parachute C-141: 22-Foot

Extraction Parachute C-5: 22-Foot

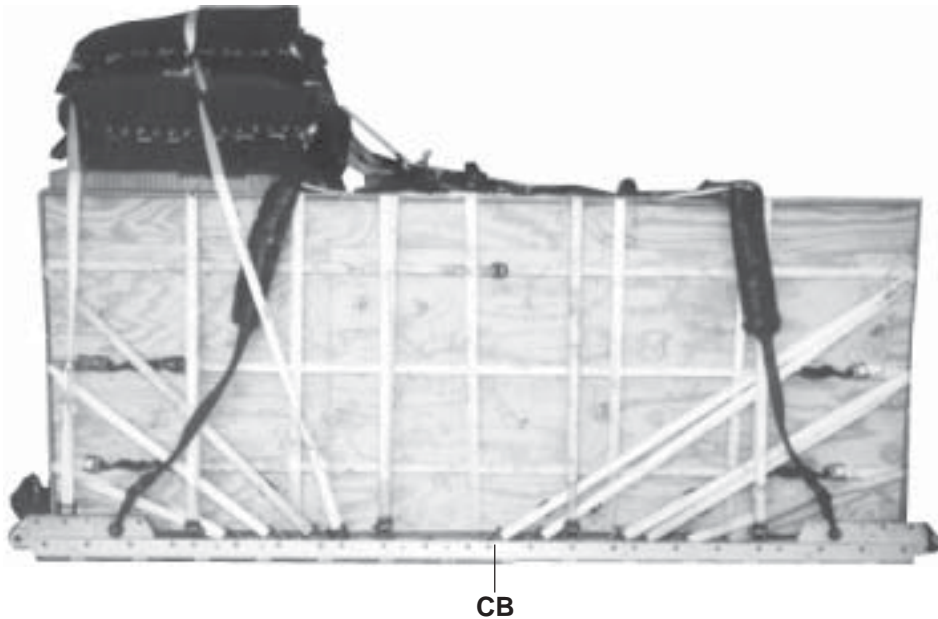
Extraction Parachute C-17: 22-Foot

Platform: 8-Foot Type V

Cargo Parachutes: Two G-11B

Figure 3-6. Bulk Supplies on a 12-Foot Platform

Forward Area Surgical Team (FAST) Equipment on a 12-Foot Platform



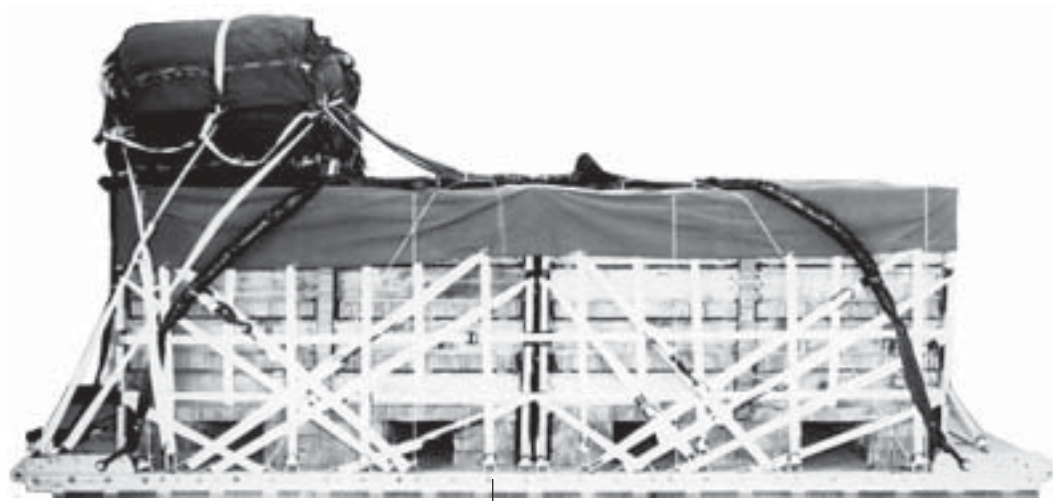
Reference: FM 4-20.112/TO 13C7-1-8

Weight	12,000 pounds
Height	92 inches
Width	108 inches
Overall Length	162 inches
Overhang: Front	0 inches
Rear (EFTC)	18 inches
CB (from front edge of platform)	84 inches

Accompanying Load: None
 Aircraft: C-130, C-141, C-5, and C-17
 Extraction System: EFTC
 Extraction Parachute C-130: 22-Foot
 Extraction Parachute C-141: 22-Foot
 Extraction Parachute C-5: 22-Foot
 Extraction Parachute C-17: 22-Foot
 Platform: 12-Foot Type V
 Cargo Parachutes: Three G-11B

Figure 3-7. Forward Area Surgical Team (FAST) Equipment on a 12-Foot Platform

Bulk Supplies on a 16-Foot Platform



CB

Reference: FM 4-20.112/TO 13C7-1-8

Weight	18,560 pounds
Height	97 1/2 inches
Width	108 inches
Overall Length	210 inches
Overhang: Front	0 inches
Rear (EFTC)	18 inches
CB (from front edge of platform)	106 inches

Accompanying Load: None

Aircraft: C-130, C-141, C-5, and C-17

Extraction System: EFTC

Extraction Parachute C-130: 28-Foot

Extraction Parachute C-141: 28-Foot

Extraction Parachute C-5: 28-Foot

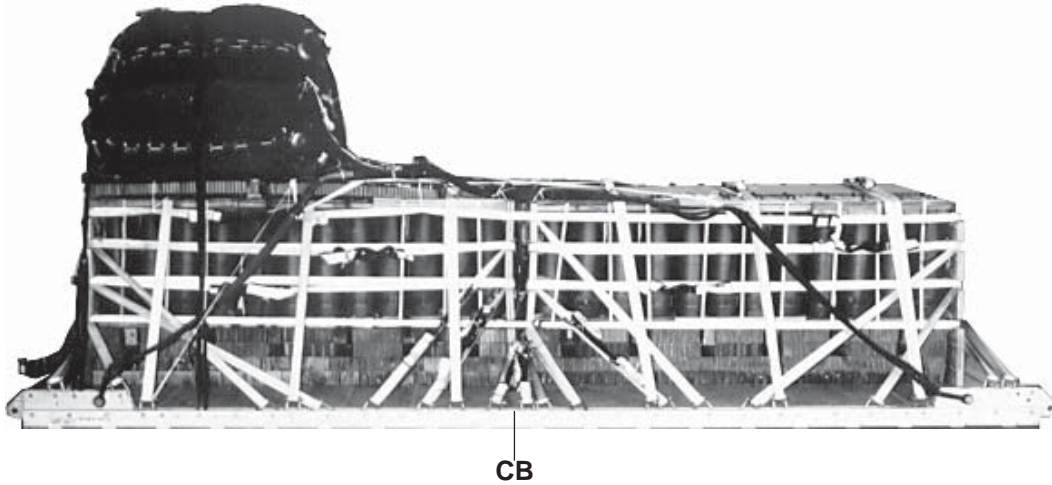
Extraction Parachute C-17: 28-Foot

Platform: 16-Foot Type V

Cargo Parachutes: Four G-11B

Figure 3-8. Bulk Supplies on a 16-Foot Platform

155-mm Ammunition on a 16-Foot Platform



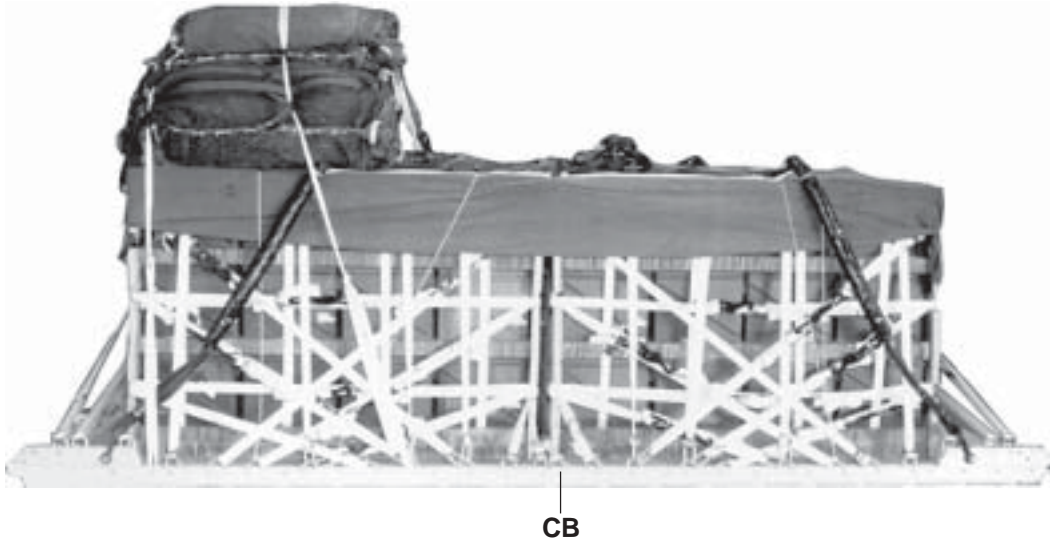
Reference: FM 4-20.112/TO 13C7-1-8

Weight	13,300 pounds
Height	86 inches
Width	108 inches
Overall Length	210 inches
Overhang: Front	0 inches
Rear (EFTC)	18 inches
CB (from front edge of platform)	101 inches

Accompanying Load: None
 Aircraft: C-130, C-141, C-5, and C-17
 Extraction System: EFTC
 Extraction Parachute C-130: 22-Foot
 Extraction Parachute C-141: 22-Foot
 Extraction Parachute C-5: 22-Foot
 Extraction Parachute C-17: 22-Foot
 Platform: 16-Foot Type V
 Cargo Parachutes: Three G-11B

Figure 3-9. 155-mm Ammunition on a 16-Foot Platform

20-mm Ammunition on a 16-Foot Platform



Reference: FM 4-20.112/TO 13C7-1-8

Weight	26,060 pounds
Height	92 inches
Width	108 inches
Overall Length	210 inches
Overhang: Front	0 inches
Rear (EFTC)	18 inches
CB (from front edge of platform)	91 inches

Accompanying Load: None

Aircraft: C-130, C-141, C-5, and C-17

Extraction System: EFTC

Extraction Parachute C-130: 22-Foot

Extraction Parachute C-141: 22-Foot

Extraction Parachute C-5: 22-Foot

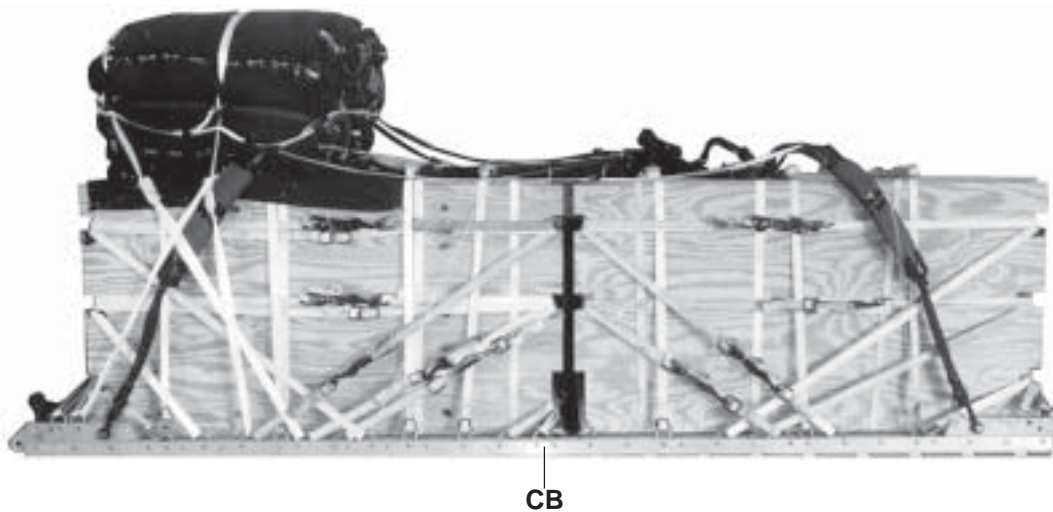
Extraction Parachute C-17: 22-Foot

Platform: 16-Foot Type V

Cargo Parachutes: Five G-11C

Figure 3-10. 20-mm Ammunition on a 16-Foot Platform

Mass Supply Boxes on a 16-Foot Platform



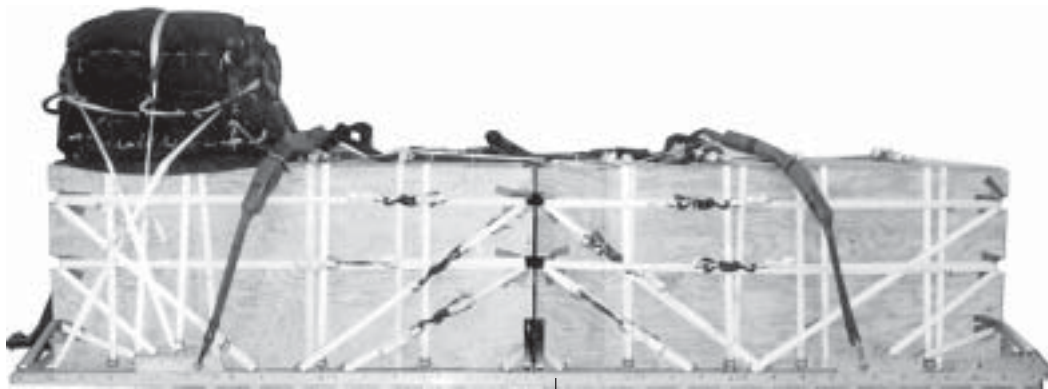
Reference: FM 4-20.112/TO 13C7-1-8

Weight	15,040 pounds
Height	88 inches
Width	108 inches
Overall Length	210 inches
Overhang: Front	0 inches
Rear (EFTC)	18 inches
CB (from front edge of platform)	97 inches

Accompanying Load: None
 Aircraft: C-130, C-141, C-5, and C-17
 Extraction System: EFTC
 Extraction Parachute C-130: 22-Foot
 Extraction Parachute C-141: 22-Foot
 Extraction Parachute C-5: 22-Foot
 Extraction Parachute C-17: 22-Foot
 Platform: 16-Foot Type V
 Cargo Parachutes: Four G-11B

Figure 3-11. Mass Supply Boxes on a 16-Foot Platform

Mass Supply Boxes on a 20-Foot Platform



CB

Reference: FM 4-20.112/TO 13C7-1-8

Weight	16,300 pounds
Height	88 inches
Width	108 inches
Overall Length	258 inches
Overhang: Front	0 inches
Rear (EFTC)	18 inches
CB (from front edge of platform)	126 inches

Accompanying Load: None

Aircraft: C-130, C-141, C-5, and C-17

Extraction System: EFTC

Extraction Parachute C-130: 22-Foot

Extraction Parachute C-141: 22-Foot

Extraction Parachute C-5: 22-Foot

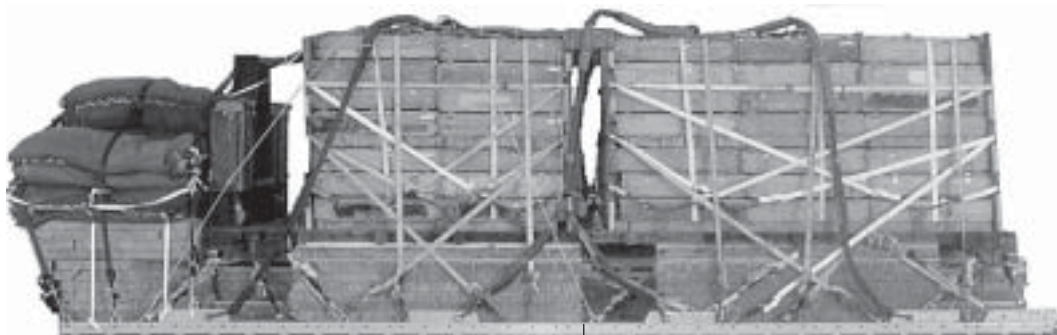
Extraction Parachute C-17: 22-Foot

Platform: 20-Foot Type V

Cargo Parachutes: Four G-11B

Figure 3-12. Mass Supply Boxes on a 20-Foot Platform

Palletized Load System (PLS) Pallet with 105-mm Ammunition on a 24-Foot Platform



CB

Reference: FM 4-20.112/TO 13C7-1-8

Weight	33,343 pounds
Height	97 inches
Width	108 inches
Overall Length	310 inches
Overhang: Front	0 inches
Rear (cargo parachutes)	22 inches
CB (from front edge of platform)	132 inches

Accompanying Load: None

Aircraft: C-130, C-141, C-5, and C-17

Extraction System: EFTC

Extraction Parachute C-130: Two 28-Foot

Extraction Parachute C-141: Two 28-Foot

Extraction Parachute C-5: Two 28-Foot

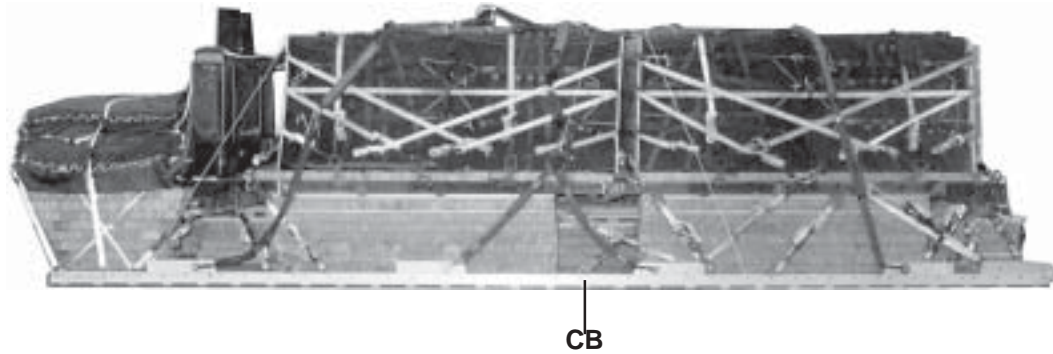
Extraction Parachute C-17: Two 28-Foot

Platform: 24-Foot Type V

Cargo Parachutes: Seven G-11C

Figure 3-13. Palletized Load System (PLS) Pallet with 105-mm Ammunition on a 24-Foot Platform

PLS Pallet with A-22 Containers on a 24-Foot Platform



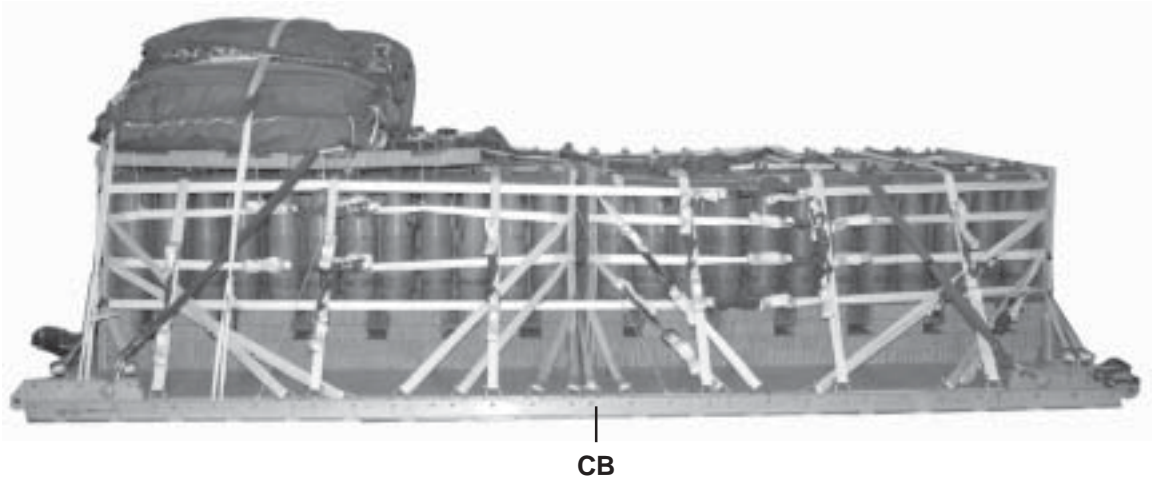
Reference: FM 4-20.112/TO 13C7-1-8

Weight	24,278 pounds
Height	84 inches
Width	108 inches
Overall Length	306 inches
Overhang: Front	0 inches
Rear (EFTC)	18 inches
CB (from front edge of platform)	137 inches

Accompanying Load: None
 Aircraft: C-130, C-141, C-5, and C-17
 Extraction System: EFTC
 Extraction Parachute C-130: 28-Foot
 Extraction Parachute C-141: 28-Foot
 Extraction Parachute C-5: 28-Foot
 Extraction Parachute C-17: 28-Foot
 Platform: 24-Foot Type V
 Cargo Parachutes: Five G-11C

Figure 3-14. PLS Pallet with A-22 Containers on a 24-Foot Platform

155-MM Ammunition Modular Artillery Charge System (MACS) Rigged on a 16-Foot Platform



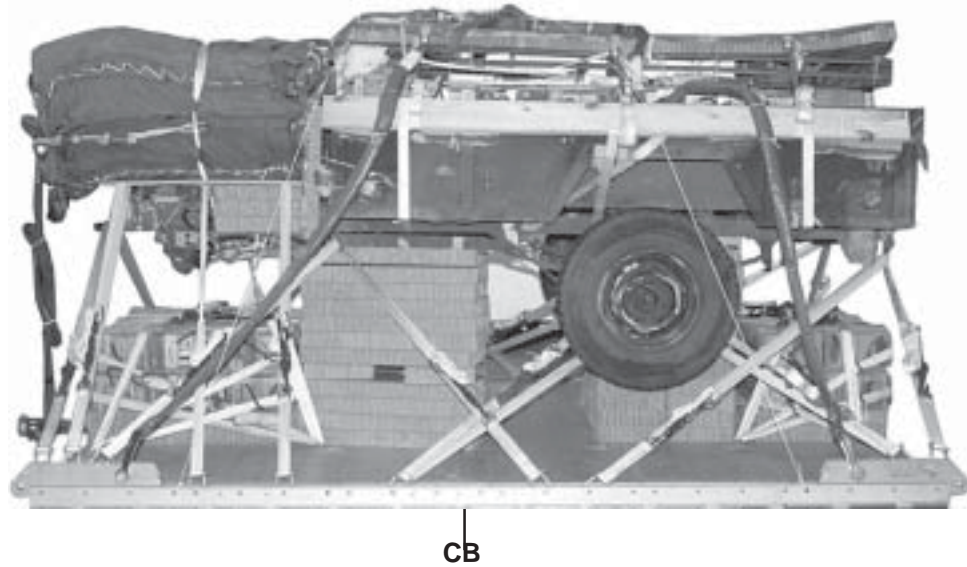
Reference: FM 4-20.112/TO 13C7-1-8

Weight	11,460 pounds
Height	48 inches
Width	108 inches
Overall Length	196 inches
Overhang: Front	0 inches
Rear (EFTC)	18 inches
CB (from front edge of platform)	96 inches

Accompanying Load: None
 Aircraft: C-130, C-141, C-5, and C-17
 Extraction System: EFTC
 Extraction Parachute C-130: 28-Foot
 Extraction Parachute C-141: 28-Foot
 Extraction Parachute C-5: 28-Foot
 Extraction Parachute C-17: 28-Foot
 Platform: 24-Foot Type V
 Cargo Parachutes: Five G-11C

Figure 3-14.1. 155-MM Ammunition (MACS) Rigged on a 16-Foot Platform

3/4-Ton Cargo Trailer



Reference: FM 4-20.113/TO 13C7-3-51

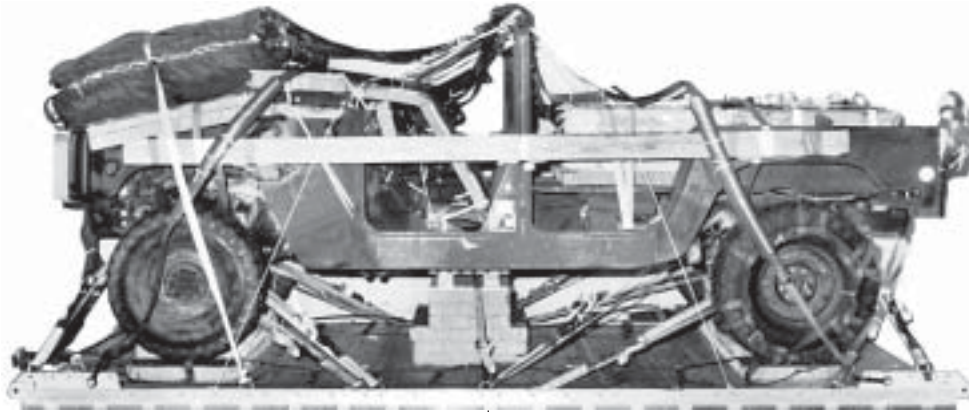
Weight	5,920 pounds
Height	72 inches
Width	108 inches
Overall Length	163 inches
Overhang: Front	0 inches
Rear (EFTC)	19 inches
CB (from front edge of platform)	70 inches

Accompanying Load: Maximum accompanying load of 1,500 pounds stowed in trailer with additional load of 2,500 pounds stowed on platform.

- Aircraft: C-130, C-141, C-5, and C-17
- Extraction System: EFTC
- Extraction Parachute C-130: 15-Foot
- Extraction Parachute C-141: 15-Foot
- Extraction Parachute C-5: 15-Foot
- Extraction Parachute C-17: 15-Foot
- Platform: 12-Foot Type V
- Cargo Parachutes: Two G-11B

Figure 3-15. 3/4-Ton Cargo Trailer

M998 Cargo/Troop Carrier



CB

Reference: FM 4-20.117/TO 13C7-1-111

Weight	9,750 pounds
Height	86 inches
Width	108 inches
Overall Length	215 inches
Overhang: Front	0 inches
Rear (EFTC)	18 inches
CB (from front edge of platform)	95 inches

Accompanying Load: Minimum accompanying load of 800 pounds and a maximum load of 2,000 pounds must be rigged in the truck.

Aircraft: C-130, C-141, C-5, and C-17

Extraction System: EFTC

Extraction Parachute C-130: 22-Foot

Extraction Parachute C-141: 22-Foot

Extraction Parachute C-5: 22-Foot

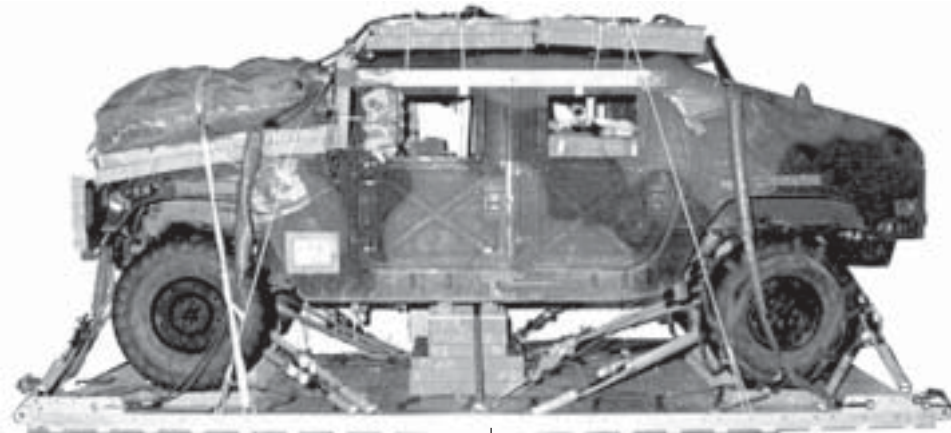
Extraction Parachute C-17: 22-Foot

Platform: 16-Foot Type V

Cargo Parachutes: Two G-11B

Figure 3-16. M998 Cargo/Troop Carrier

M1025 Armament Carrier



CB

Reference: FM 4-20.117/TO 13C7-1-111

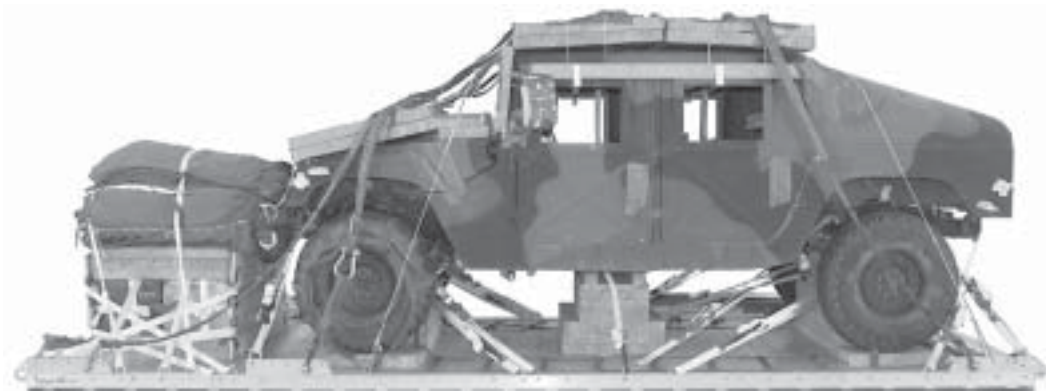
Weight	9,820 pounds
Height	91 inches
Width	108 inches
Overall Length	215 inches
Overhang: Front	0 inches
Rear (EFTC)	18 inches
CB (from front edge of platform)	96 inches

Accompanying Load: Minimum accompanying load of 800 pounds and a maximum load of 2,000 pounds must be rigged in the truck.

- Aircraft: C-130, C-141, C-5, and C-17
- Extraction System: EFTC
- Extraction Parachute C-130: 22-Foot
- Extraction Parachute C-141: 22-Foot
- Extraction Parachute C-5: 22-Foot
- Extraction Parachute C-17: 22-Foot
- Platform: 16-Foot Type V
- Cargo Parachutes: Two G-11B

Figure 3-17. M1025 Armament Carrier

M1025 Armament Carrier with Additional Accompanying Ammunition Load on a 20-Foot Platform



CB

Reference: FM 4-20.117/TO 13C7-1-111

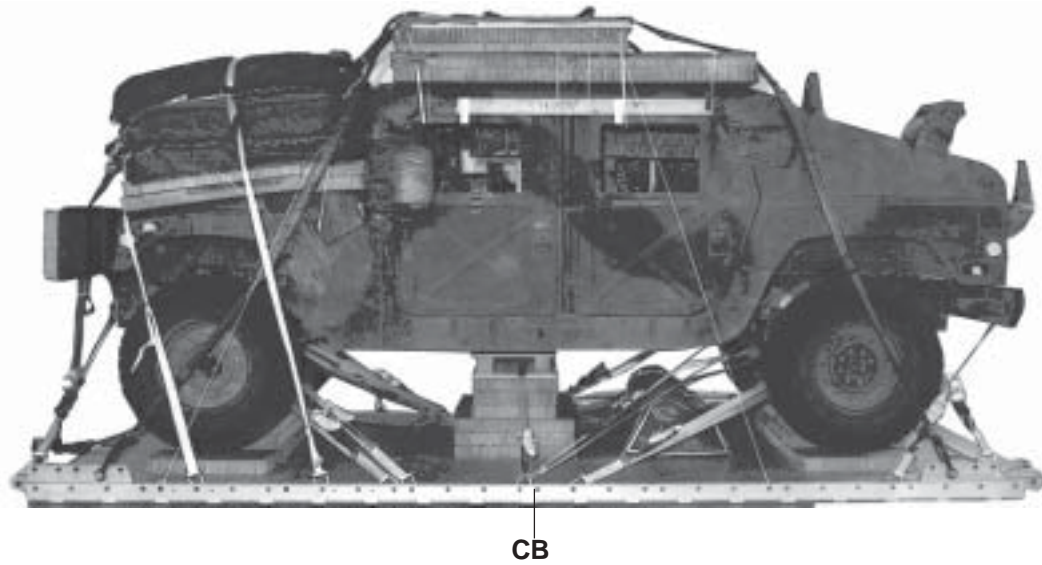
Weight	11,740 pounds
Height	91 inches
Width	108 inches
Overall Length	265 inches
Overhang: Front	0 inches
Rear (EFTC)	18 inches
CB (from front edge of platform)	112 inches

Accompanying Load: Ammunition rigged on platform and any accompanying load stowed in truck must weigh no less than 3,300 pounds and no more than 4,300 pounds.

- Aircraft: C-130, C-141, C-5, and C-17
- Extraction System: EFTC
- Extraction Parachute C-130: 22-Foot
- Extraction Parachute C-141: 22-Foot
- Extraction Parachute C-5: 22-Foot
- Extraction Parachute C-17: 22-Foot
- Platform: 20-Foot Type V
- Cargo Parachutes: Three G-11B

Figure 3-18. M1025 Armament Carrier with Additional Accompanying Ammunition Load on a 20-Foot Platform

M1025 Armament Carrier Rigged with Striker



Reference: FM 4-20.117/TO 13C7-1-111

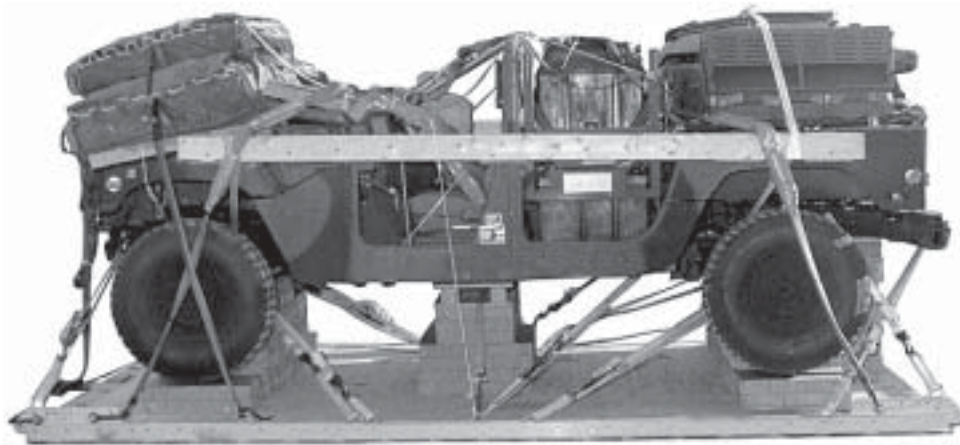
Weight	11,389 pounds
Height	98 inches
Width	108 inches
Overall Length	215 inches
Overhang: Front	0 inches
Rear (EFTC)	18 inches
CB (from front edge of platform)	97 inches

Accompanying Load: Striker and accessories.

- Aircraft: C-130, C-141, C-5, and C-17
- Extraction System: EFTC
- Extraction Parachute C-130: 22-Foot
- Extraction Parachute C-141: 22-Foot
- Extraction Parachute C-5: 22-Foot
- Extraction Parachute C-17: 22-Foot
- Platform: 16-Foot Type V
- Cargo Parachutes: Three G-11B

Figure 3-18.1 M1025 Armament Carrier Rigged with Striker

M56 Smoke Generator Rigged in M1113



CB

Reference: FM 4-20.117/TO 13C7-1-111

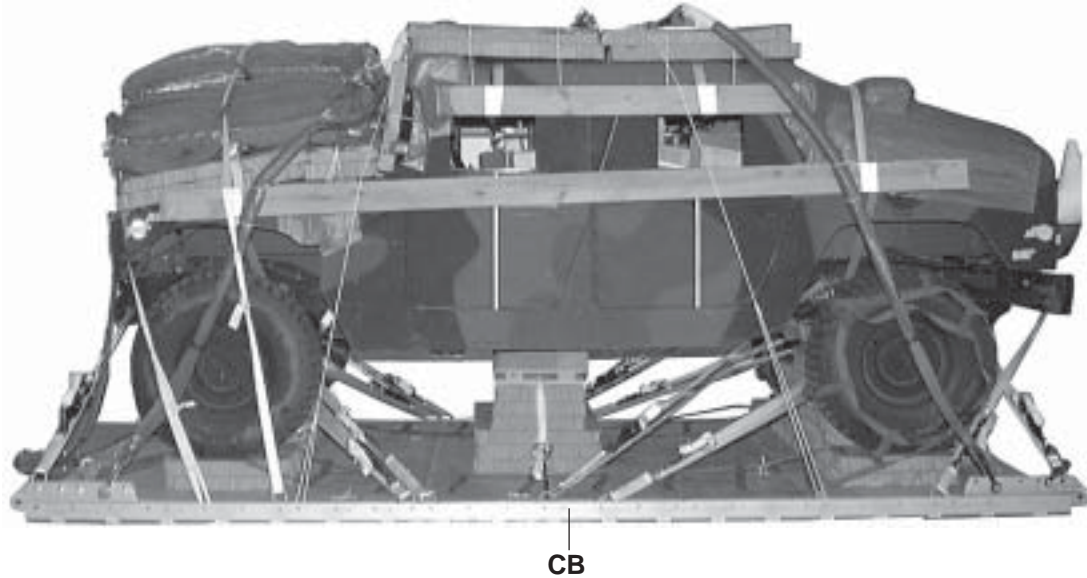
Weight	11,960 pounds
Height	97 inches
Width	108 inches
Overall Length	215 inches
Overhang: Front (Rear Bumper)	8 inches
Rear (EFTC)	18 inches
CB (from front edge of platform)	91 inches

Accompanying Load: An accompanying load weighing a minimum of 800 pounds and a maximum of 2,500 pounds must be rigged in the truck.

- Aircraft: C-130, C-141, C-5, and C-17
- Extraction System: EFTC
- Extraction Parachute C-130: 22-Foot
- Extraction Parachute C-141: 22-Foot
- Extraction Parachute C-5: 22-Foot
- Extraction Parachute C-17: 22-Foot
- Platform: 16-Foot Type V
- Cargo Parachutes: Three G-11B

Figure 3-19. M56 Smoke Generator Rigged in M1113

M1114 Up-Armored Armament Carrier



Reference: FM 4-20.117/TO 13C7-1-111

Weight	15,240 pounds
Height	98 inches
Width	108 inches
Overall Length	210 inches
Overhang: Front	0 inches
Rear (EFTC)	18 inches
CB (from front edge of platform)	92 inches

Accompanying Load: Minimum accompanying load of 800 pounds and a maximum load of 2,000 pounds must be rigged in the truck.

- Aircraft: C-130, C-141, C-5, and C-17
- Extraction System: EFTC
- Extraction Parachute C-130: 22-Foot
- Extraction Parachute C-141: 22-Foot
- Extraction Parachute C-5: 22-Foot
- Extraction Parachute C-17: 22-Foot
- Platform: 32-Foot Type V
- Cargo Parachutes: Five G-11C

Figure 3-19.1. M1114 Up-Armored Armament Carrier

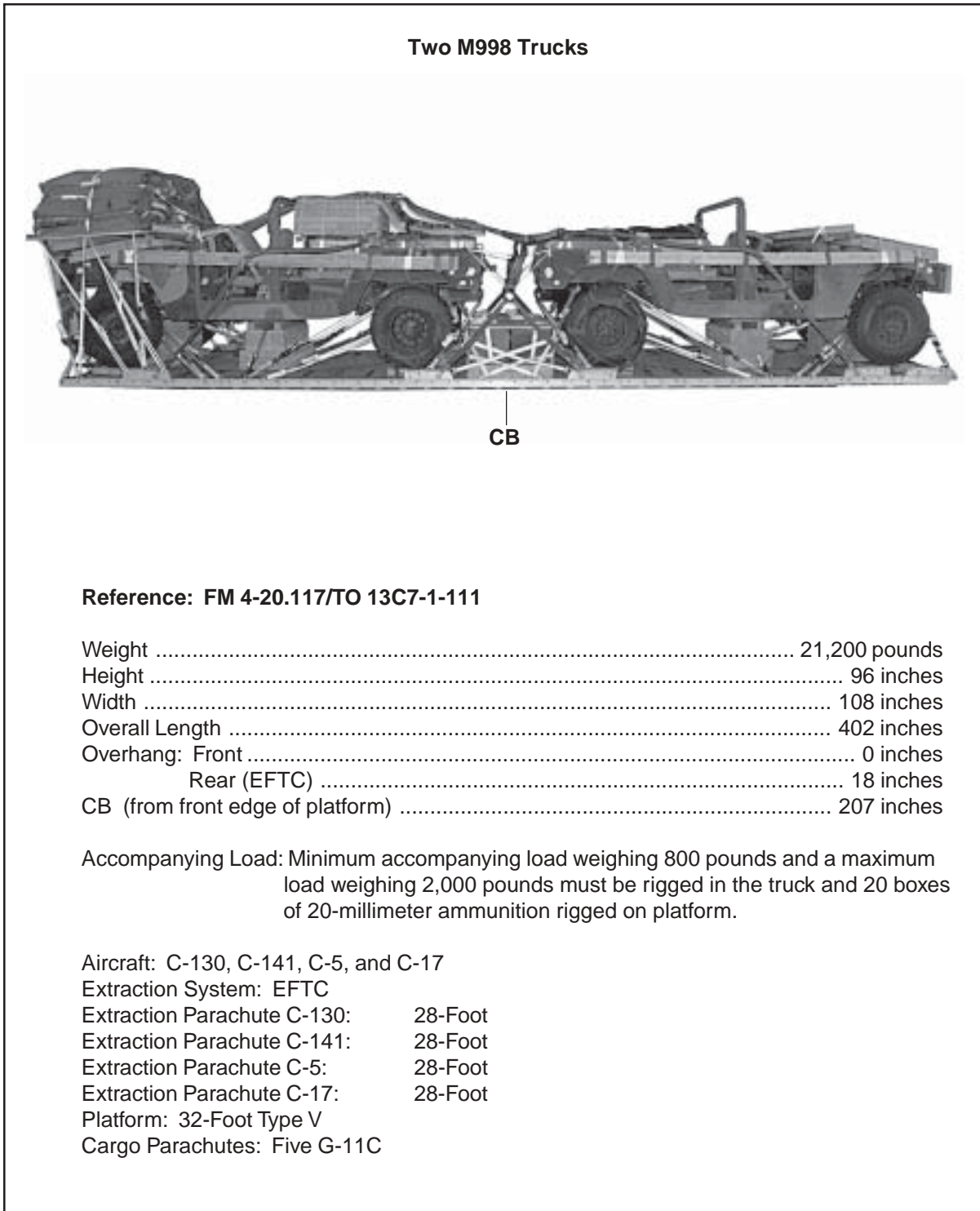
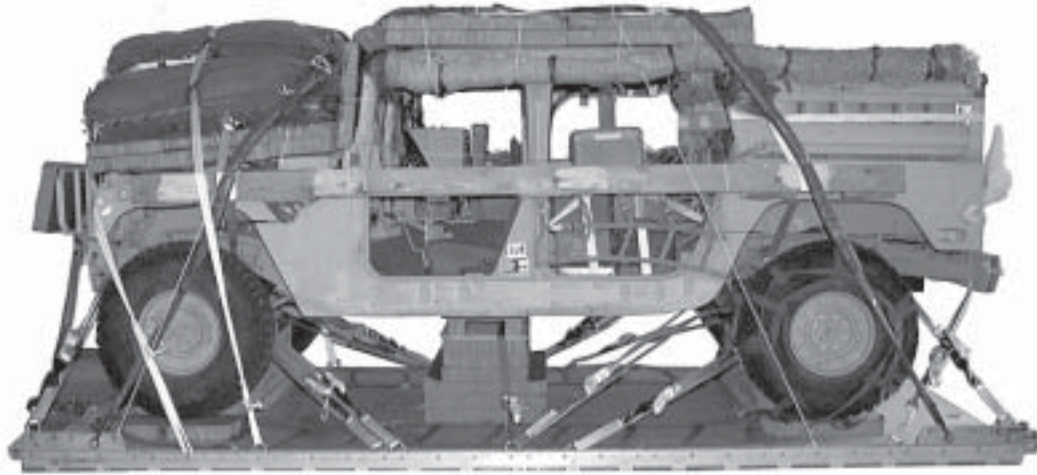


Figure 3-20. Two M998 Trucks

Ground Mobility Vehicle



CB

Reference: FM 4-20.117/TO 13C7-1-111

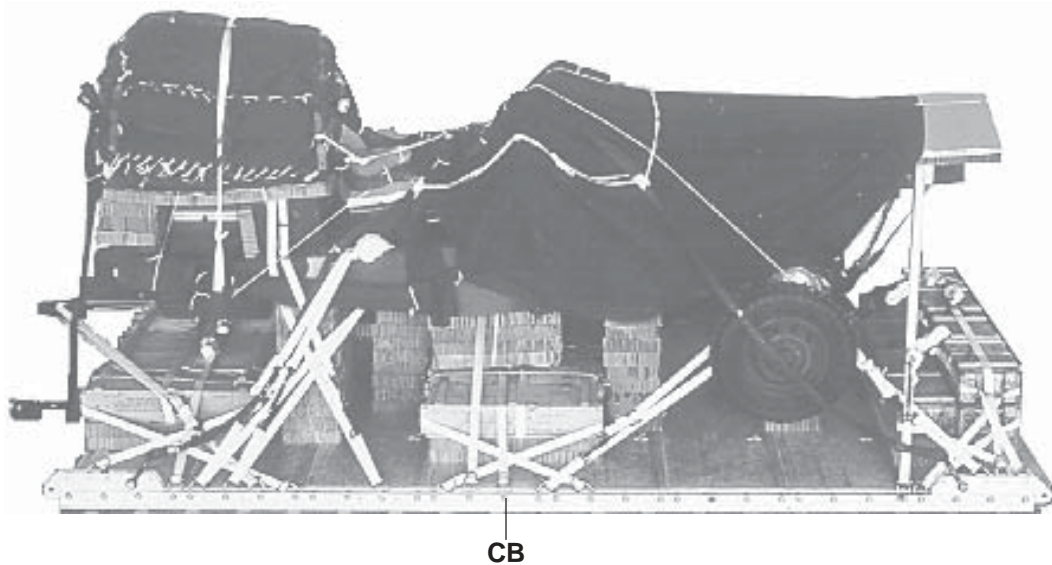
Weight	12,420 pounds
Height	94 inches
Width	108 inches
Overall Length	210 inches
Overhang: Front	0 inches
Rear (EFTC)	18 inches
CB (from front edge of platform)	96 inches

Accompanying Load: Accompanying load weighs 2,140 pounds.

- Aircraft: C-130, C-141, C-5, and C-17
- Extraction System: EFTC
- Extraction Parachute C-130: 22-Foot
- Extraction Parachute C-141: 22-Foot
- Extraction Parachute C-5: 22-Foot
- Extraction Parachute C-17: 22-Foot
- Platform: 16-Foot Type V
- Cargo Parachutes: Three G-11B

Figure 3-20.1 Ground Mobility Vehicle

M102 Howitzer Rigged with 17 Boxes of Ammunition



Reference: FM 10-519/TO 13C7-10-31/FMFM 7-55

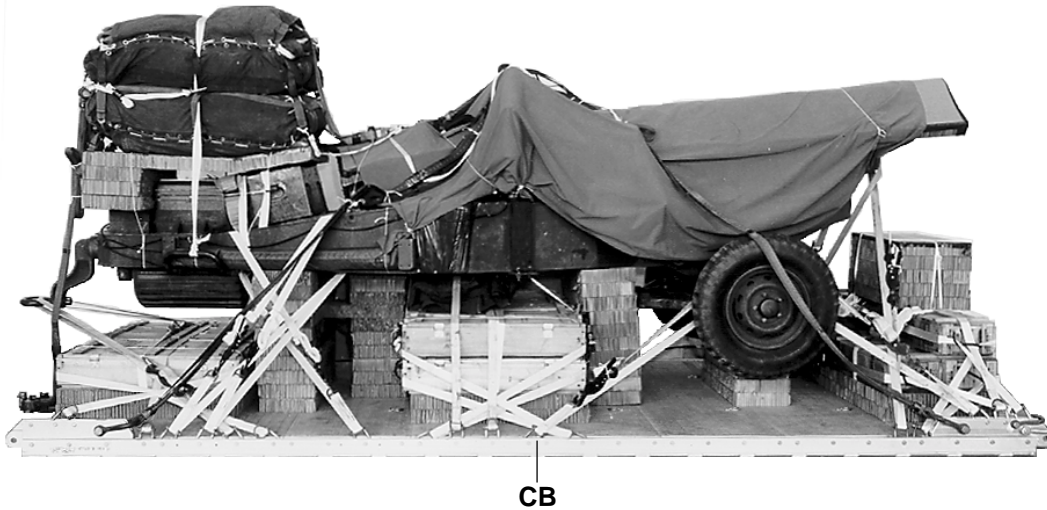
Weight	8,060 pounds
Height	88 inches
Width	90 1/2 inches
Overall Length	210 inches
Overhang: Front	0 inches
Rear (EFTC)	18 inches
CB (from front edge of platform)	98 inches

Accompanying Load: Accompanying load weighing 2,040 pounds rigged on platform.

- Aircraft: C-130, C-141, C-5, and C-17
- Extraction System: EFTC
- Extraction Parachute C-130: 22-Foot
- Extraction Parachute C-141: 22-Foot
- Extraction Parachute C-5: 22-Foot
- Extraction Parachute C-17: 22-Foot
- Platform: 16-Foot Type V
- Cargo Parachutes: Two G-11B

Figure 3-21. M102 Howitzer Rigged with 17 Boxes of Ammunition

M102 Howitzer Rigged with 23 Boxes of Ammunition



Reference: FM 10-519/TO 13C7-10-31/FMFM 7-55

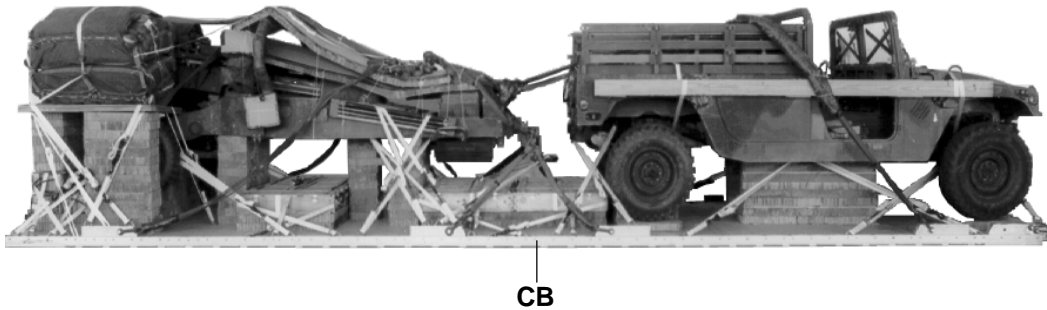
Weight	8,800 pounds
Height	90 1/2 inches
Width	108 inches
Overall Length	210 inches
Overhang: Front	0 inches
Overhang: Rear (EFTC)	18 inches
CB (from front edge of platform)	98 inches

Accompanying Load: Accompanying load weighing 2,760 pounds rigged on platform.

- Aircraft: C-130, C-141, C-5, and C-17
- Extraction System: EFTC
- Extraction Parachute C-130: 22-Foot
- Extraction Parachute C-141: 22-Foot
- Extraction Parachute C-5: 22-Foot
- Extraction Parachute C-17: 22-Foot
- Platform: 16-Foot Type V
- Cargo Parachutes: Two G-11B

Figure 3-22. M102 Howitzer Rigged with 23 Boxes of Ammunition

M102 Howitzer with 1 1/2-ton Truck



Reference: FM 10-519/TO 13C7-10-31/FMFM 7-55

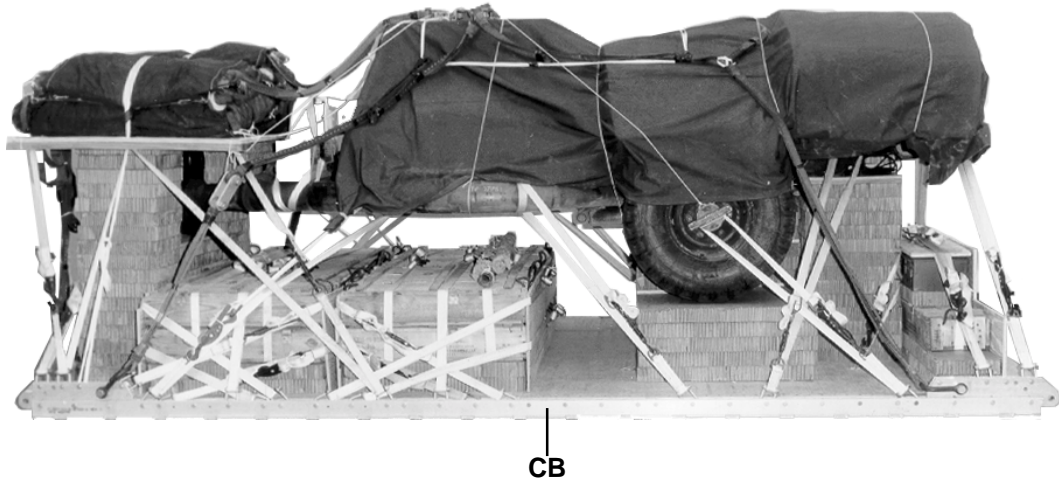
Weight	17,770 pounds
Height	83 inches
Width	108 inches
Overall Length	402 inches
Overhang: Front	0 inches
Overhang: Rear (EFTC)	18 inches
CB (from front edge of platform)	196 inches

Accompanying Load: Accompanying load weighing 800 to 2,000 pounds must be rigged in truck and 22 boxes of 105mm ammunition on platform.

- Aircraft: C-130, C-141, C-5, and C-17**
- Extraction System: EFTC**
- Extraction Parachute C-130: 28-Foot**
- Extraction Parachute C-141: 28-Foot**
- Extraction Parachute C-5: 28-Foot**
- Extraction Parachute C-17: 28-Foot**
- Platform: 32-Foot Type V**
- Cargo Parachutes: Four G-11B**

Figure 3-23. M102 Howitzer with 1 1/4-ton Truck

M119 Howitzer Rigged with 30 Boxes of Ammunition



Reference: FM 10-519/TO 13C7-10-31/FMFM 7-55

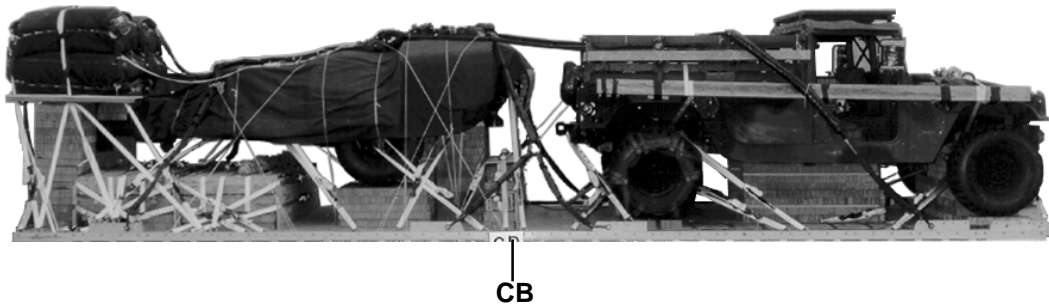
Weight	10,000 pounds
Height	75 inches
Width	108 inches
Overall Length	210 inches
Overhang: Front	0 inches
Overhang: Rear (EFTC)	18 inches
CB (from front edge of platform)	100 inches

Accompanying Load: Accompanying load weighing 3,713 pounds rigged on platform.

- Aircraft: C-130, C-141, C-5, and C-17**
- Extraction System: EFTC**
- Extraction Parachute C-130: 22-Foot**
- Extraction Parachute C-141: 22-Foot**
- Extraction Parachute C-5: 22-Foot**
- Extraction Parachute C-17: 22-Foot**
- Platform: 16-Foot Type V**
- Cargo Parachutes: Two G-11B**

Figure 3-24. M119 Howitzer Rigged with 30 Boxes of Ammunition

M119 Howitzer with 1 1/4-Ton Truck



Reference: FM 10-519/TO 13C7-10-31/FMFM 7-55

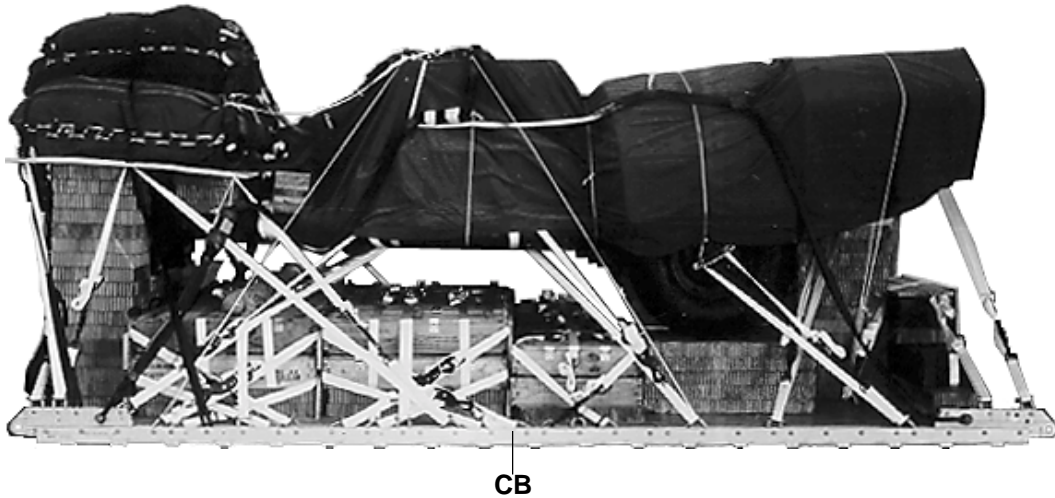
Weight	20,160 pounds
Height	91 inches
Width	108 inches
Overall Length	402 inches
Overhang: Front	0 inches
Overhang: Rear (EFTC)	18 inches
CB (from front edge of platform)	201 inches

Accompanying Load: Accompanying load weighing 3,360 pounds is rigged on platform with additional load of 800 to 2,000 pounds rigged in truck.

- Aircraft: C-130, C-141, C-5, and C-17**
- Extraction System: EFTC**
- Extraction Parachute C-130: 28-Foot**
- Extraction Parachute C-141: 28-Foot**
- Extraction Parachute C-5: 28-Foot**
- Extraction Parachute C-17: 28-Foot**
- Platform: 32-Foot Type V**
- Cargo Parachutes: Four G-11B**

Figure 3-25. M119 Howitzer with 1 1/4-Ton Truck

M119 Howitzer Rigged with 81-Millimeter Mortar



Reference: FM 10-519/TO 13C7-10-31/FMFM 7-55

Weight	11,200 pounds
Height	86 inches
Width	108 inches
Overall Length	210 inches
Overhang: Front	0 inches
Overhang: Rear (EFTC)	18 inches
CB (from front edge of platform)	105 inches

Accompanying Load: Accompanying load weighing 3,713 pounds rigged on platform.

- Aircraft: C-130, C-141, C-5, and C-17**
- Extraction System: EFTC**
- Extraction Parachute C-130: 22-Foot**
- Extraction Parachute C-141: 22-Foot**
- Extraction Parachute C-5: 22-Foot**
- Extraction Parachute C-17: 22-Foot**
- Platform: 16-Foot Type V**
- Cargo Parachutes: Three G-11B**

Figure 3-26. M119 Howitzer Rigged with 81-Millimeter Mortar

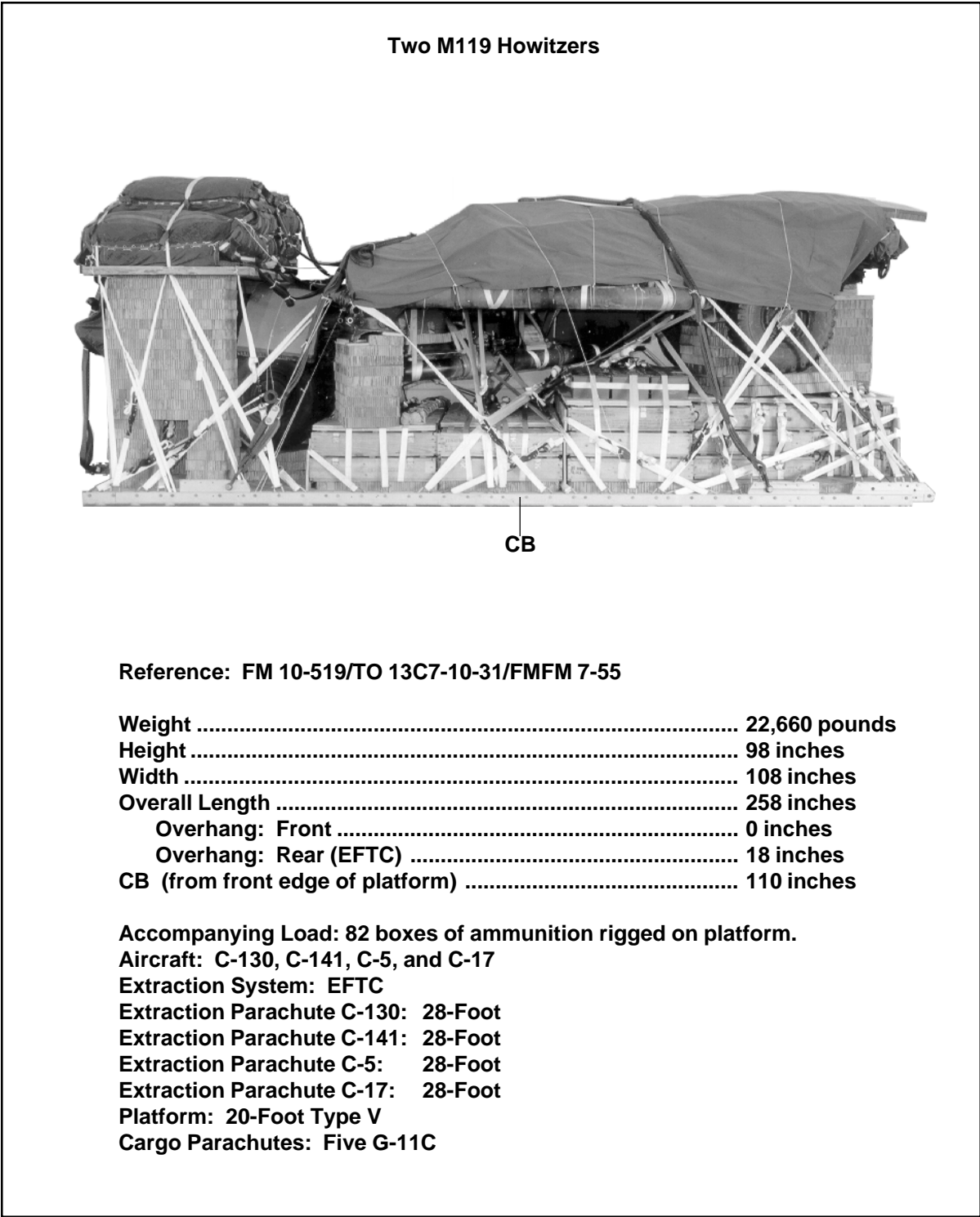


Figure 3-27. Two M119 Howitzers

Two M119 Howitzers with Light Ammunition



CB

Reference: FM 10-519/TO 13C7-10-31/FMFM 7-55

Weight	19,320 pounds
Height	99 1/2 inches
Width	108 inches
Overall Length	258 inches
Overhang: Front	0 inches
Overhang: Rear (EFTC)	18 inches
CB (from front edge of platform)	112 inches

Accompanying Load: 63 boxes of ammunition rigged on platform.

Aircraft: C-130, C-141, C-5, and C-17

Extraction System: EFTC

Extraction Parachute C-130: 28-Foot

Extraction Parachute C-141: 28-Foot

Extraction Parachute C-5: 28-Foot

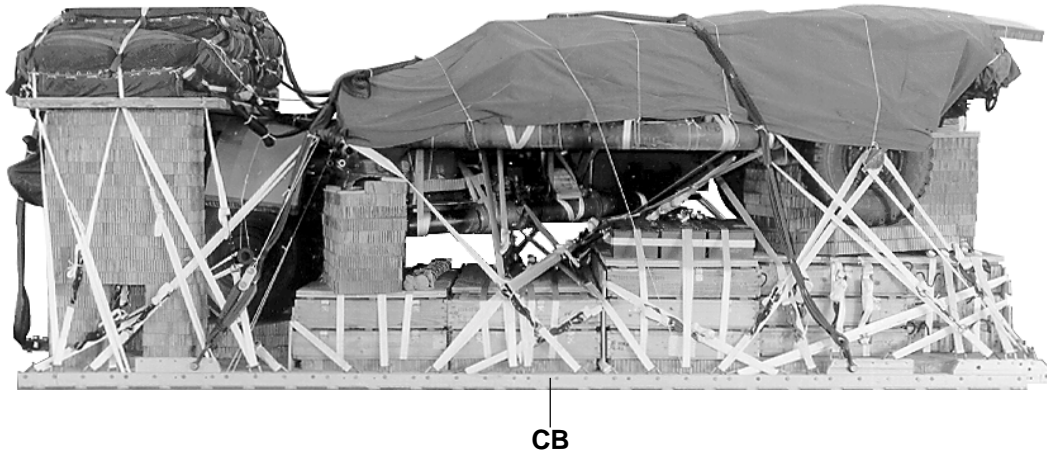
Extraction Parachute C-17: 28-Foot

Platform: 20-Foot Type V

Cargo Parachutes: Four G-11B

Figure 3-28. Two M119 Howitzers with Light Ammunition

Two M119 Howitzers Rigged with Two 81-mm Mortars



Reference: FM 10-519/TO 13C7-10-31/FMFM 7-55

Weight	21,940 pounds
Height	98 inches
Width	108 inches
Overall Length	258 inches
Overhang: Front	0 inches
Overhang: Rear (EFTC)	18 inches
CB (from front edge of platform)	110 inches

Accompanying Load: 68 boxes of ammunition rigged on platform.

Aircraft: C-130, C-141, C-5, and C-17

Extraction System: EFTC

Extraction Parachute C-130: 28-Foot

Extraction Parachute C-141: 28-Foot

Extraction Parachute C-5: 28-Foot

Extraction Parachute C-17: 28-Foot

Platform: 20-Foot Type V

Cargo Parachutes: Five G-11C

Figure 3-29. Two M119 Howitzers Rigged with Two 81-mm Mortars

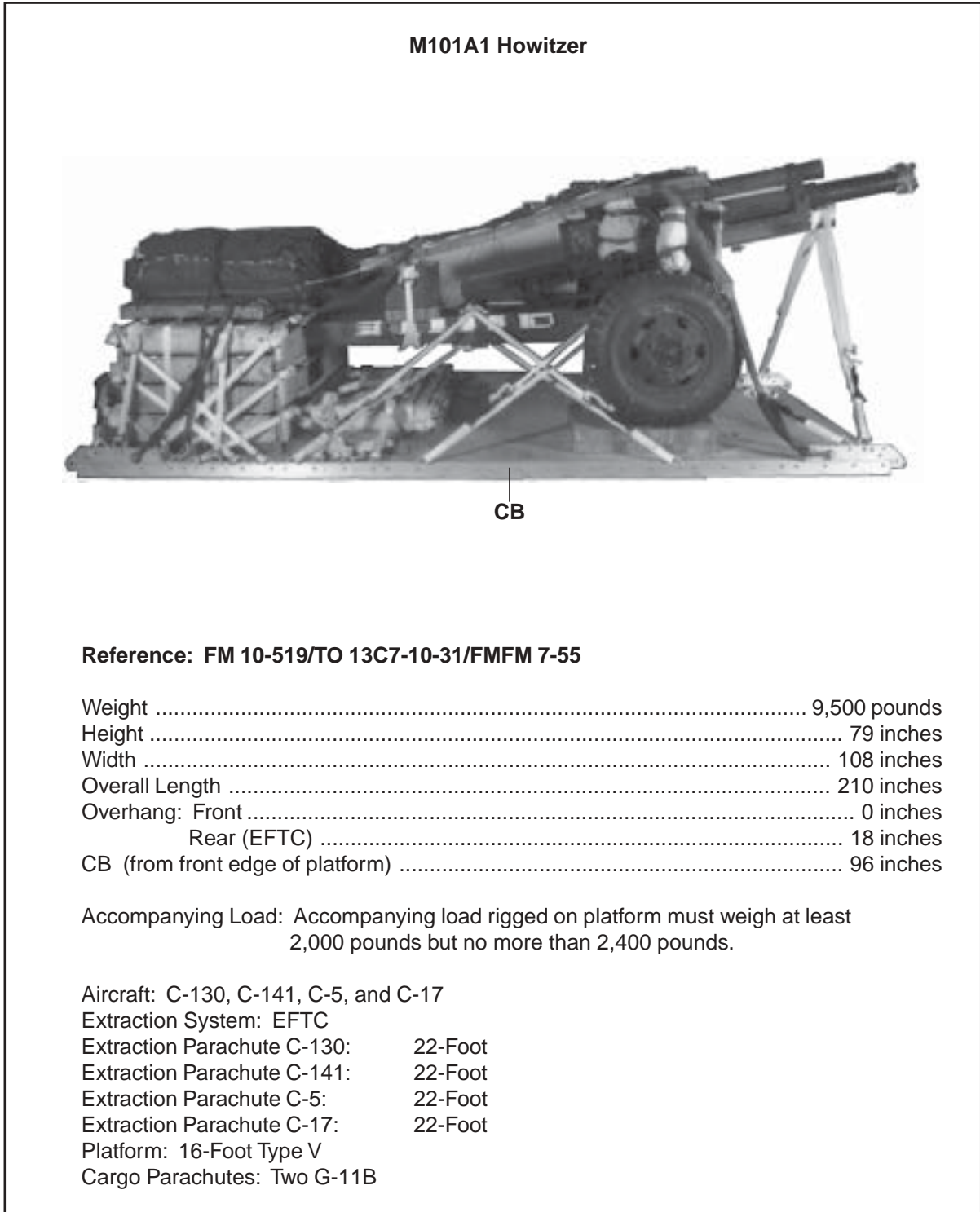


Figure 3-30. M101A1 Howitzer

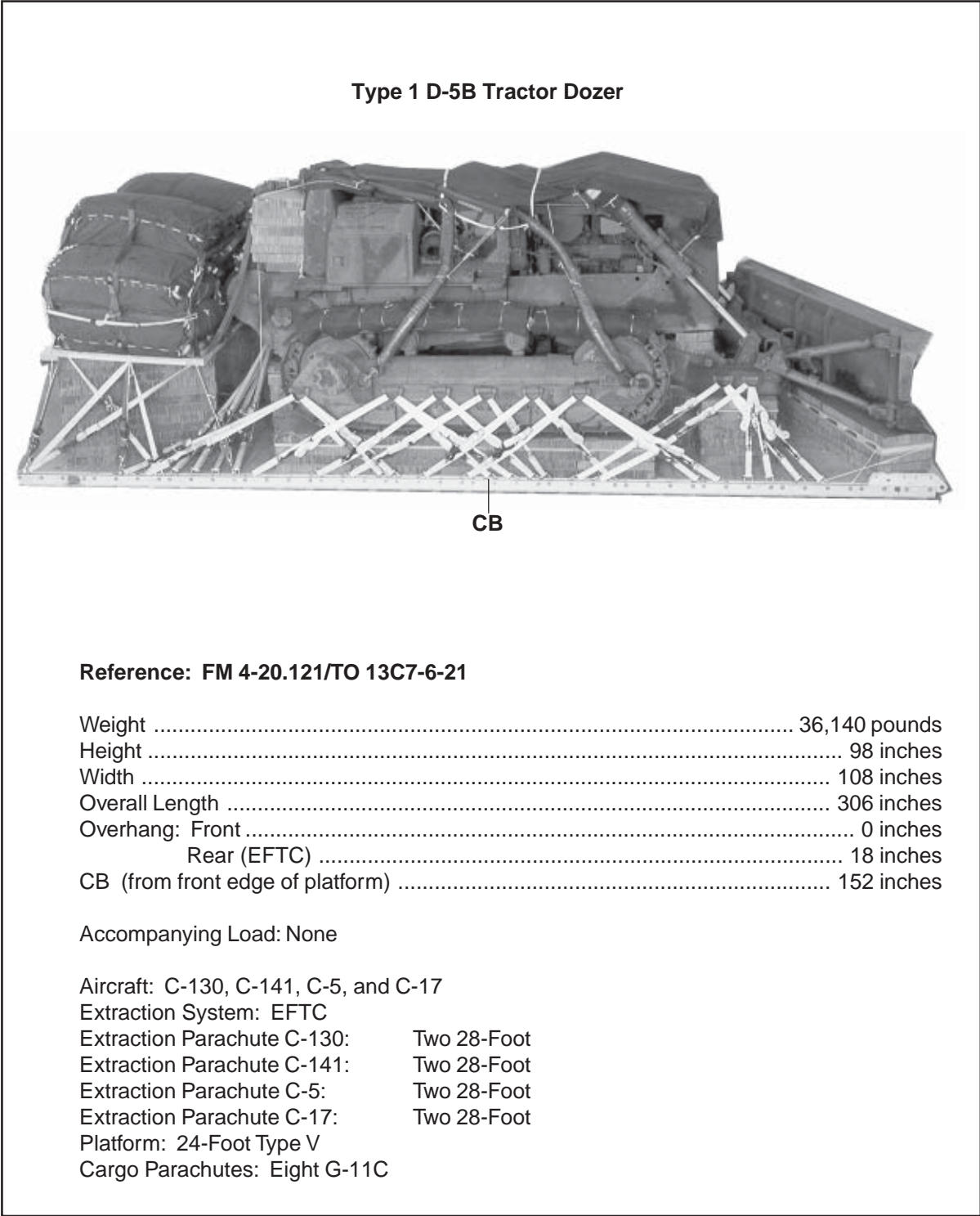
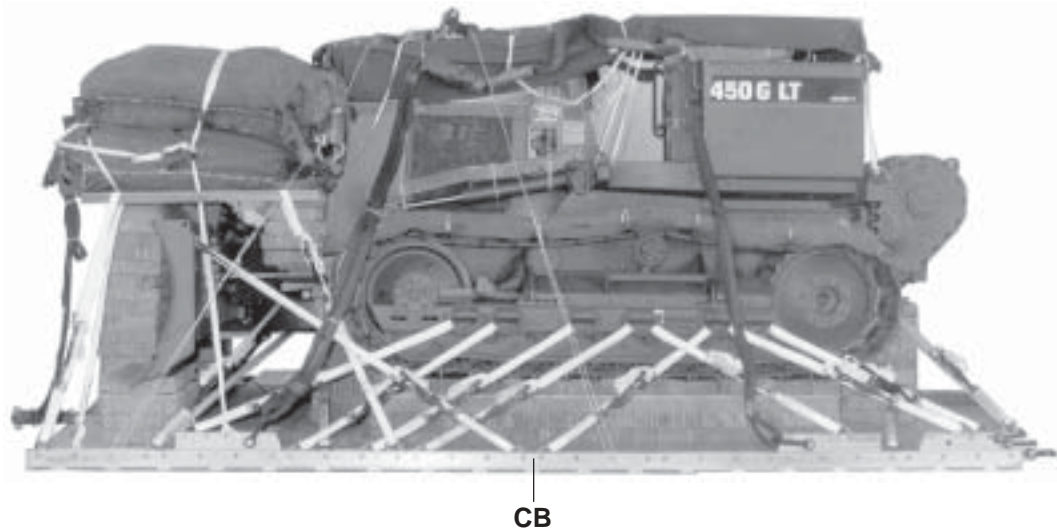


Figure 3-31. Type 1 D-5B Tractor Dozer

John Deere 450G Lt Full- Tracked Bulldozer



Reference: FM 4-20.121/TO 13C7-6-21

Weight	20,960 pounds
Height	94 inches
Width	108 inches
Overall Length	215 inches
Overhang: Front	0 inches
Rear (EFTC)	18 inches
CB (from front edge of platform)	84 inches

Accompanying Load: None

Aircraft: C-130, C-141, C-5, and C-17

Extraction System: EFTC

Extraction Parachute C-130: 28-Foot

Extraction Parachute C-141: 28-Foot

Extraction Parachute C-5: 28-Foot

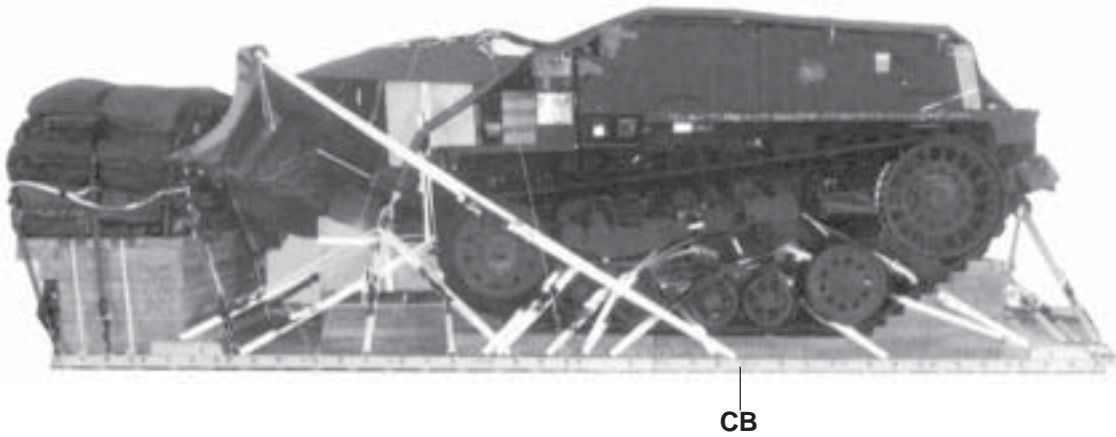
Extraction Parachute C-17: 28-Foot

Platform: 16-Foot Type V

Cargo Parachutes: Four G-11B

Figure 3-32. John Deere 450G Lt Full- Tracked Bulldozer

Deployable Universal Combat Earthmover (DEUCE)



Reference: FM 4-20.121/TO 13C7-6-21

Weight	40,340 pounds
Height	101 1/2 inches
Width	110 inches
Overall Length	310 inches
Overhang: Front	0 inches
Rear (Parachute Stowage Tray)	22 inches
CB (from front edge of platform)	122 inches

Accompanying Load: None

- Aircraft: C-130, C-5, and C-17
- Extraction System: EFTC
- Extraction Parachute C-130: Two 28-Foot
- Extraction Parachute C-141: NA
- Extraction Parachute C-5: Two 28-Foot
- Extraction Parachute C-17: Two 28-Foot
- Platform: 24-Foot Type V
- Cargo Parachutes: Eight G-11C

Figure 3-33. Deployable Universal Combat Earthmover (DEUCE)

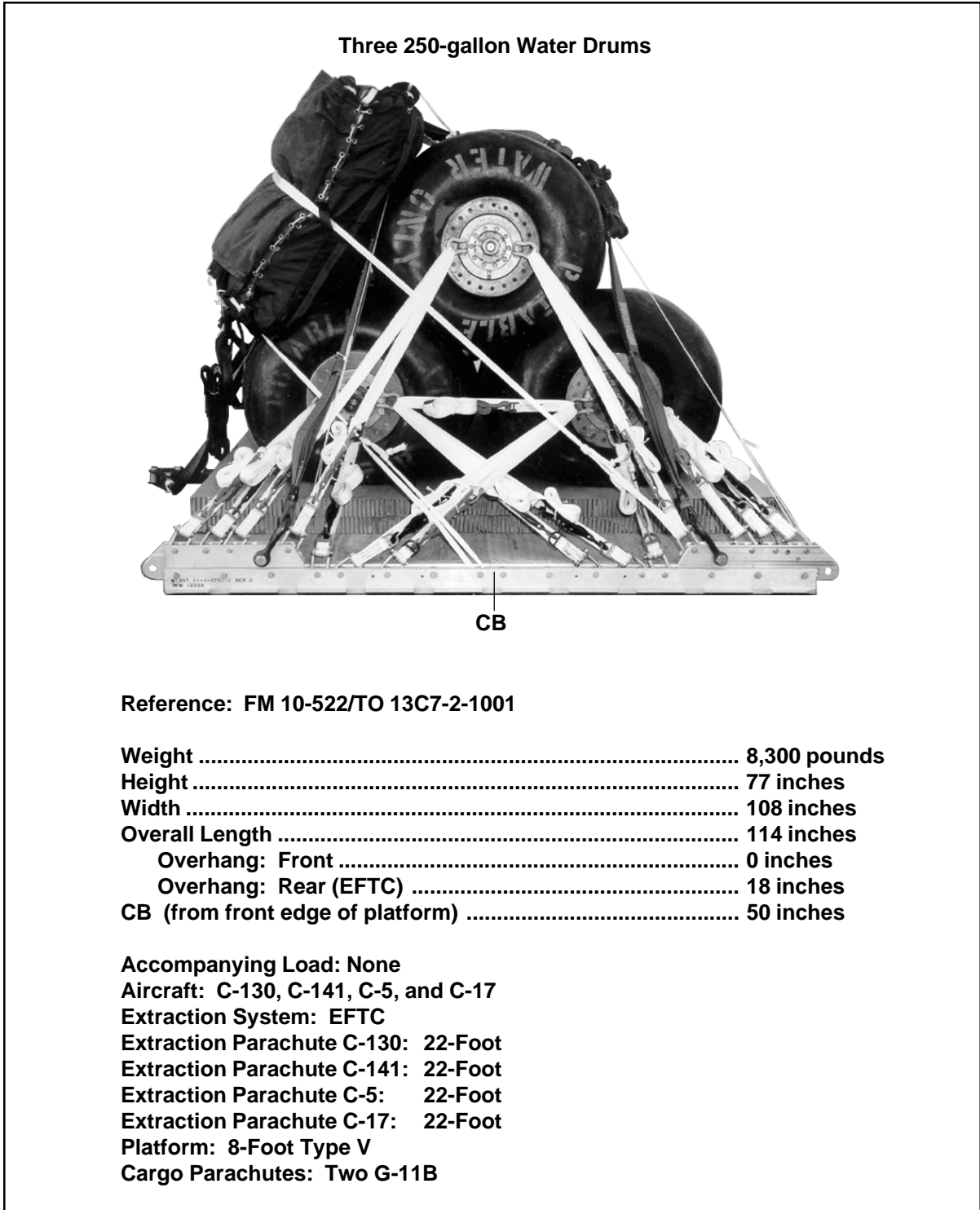


Figure 3-34. Three 250-gallon Water Drums

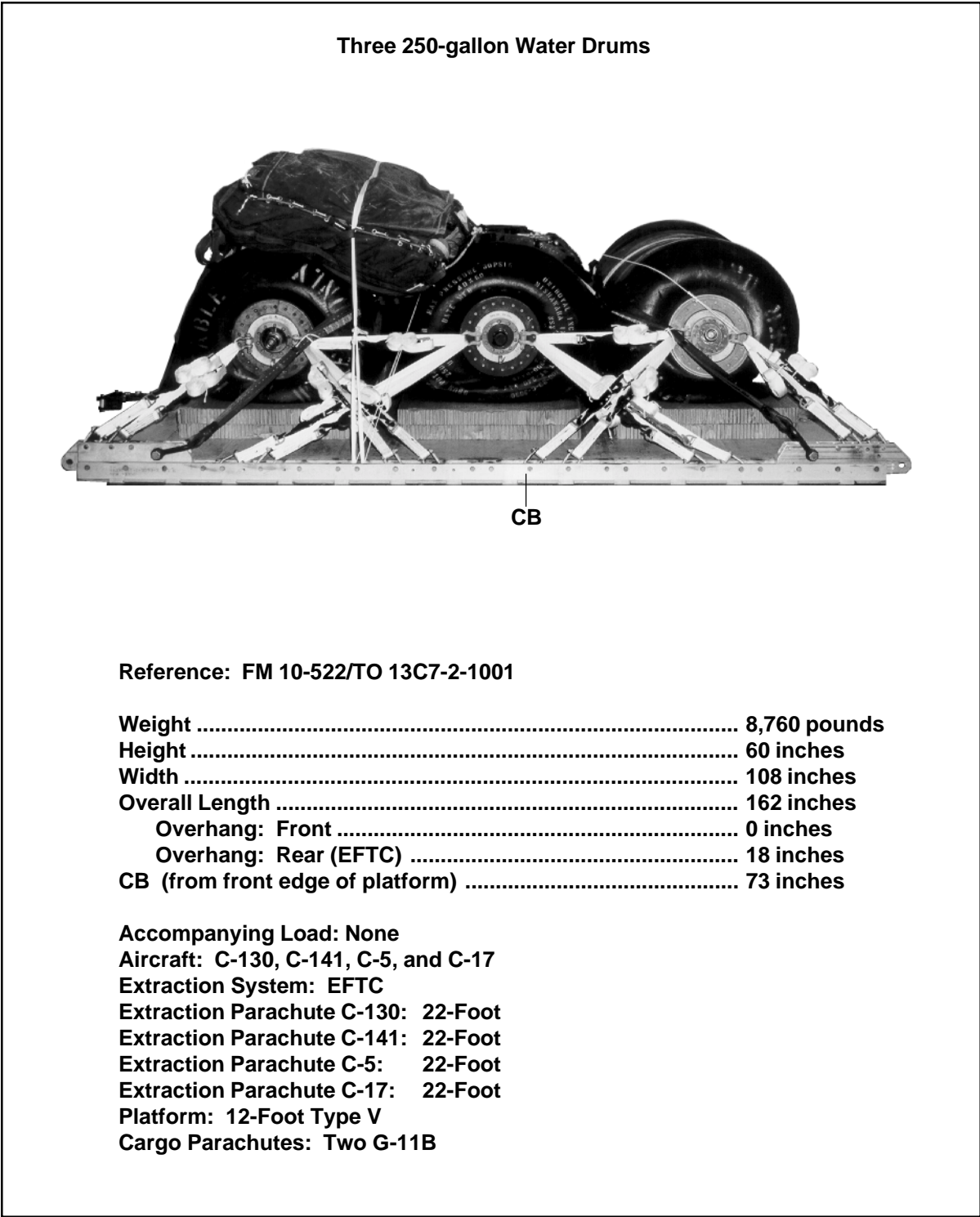
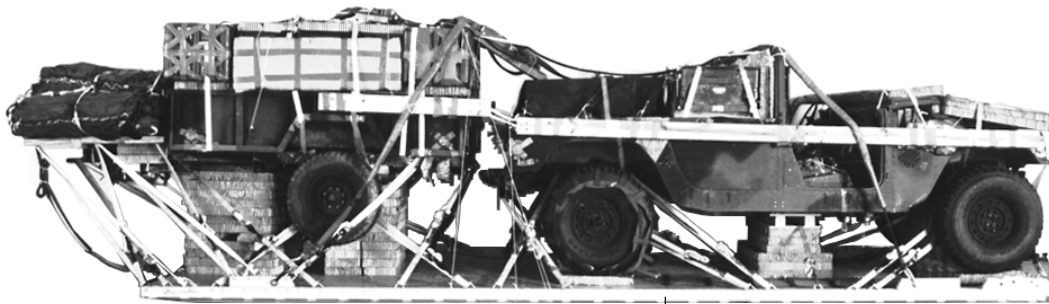


Figure 3-35. Three 250-gallon Water Drums

Mobile Microwave Landing System (MMLS) in an M998 and a 3/4-Ton Trailer



CB

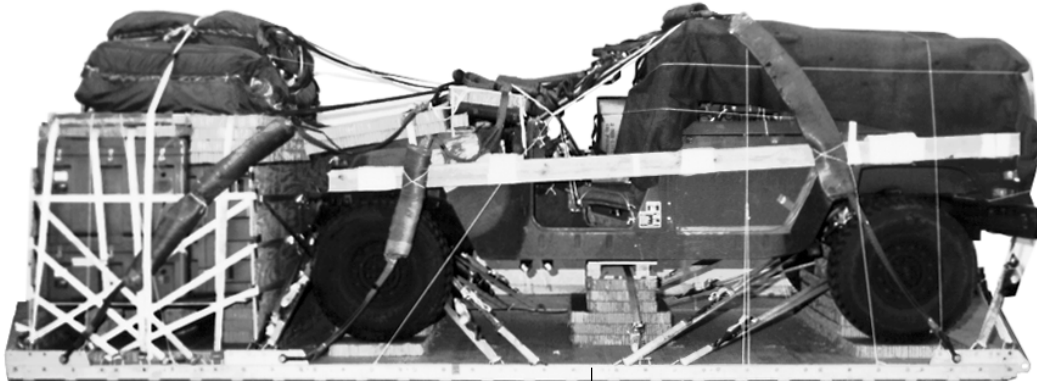
Reference: FM 10-500-23/TO 13C7-14-461

Weight	13,289 pounds
Height	99 inches
Width	108 inches
Overall Length	333 inches
Overhang: Front	0 inches
Overhang: Rear (Cargo Parachutes)	45 inches
CB (from front edge of platform)	140 inches

Accompanying Load: None
 Aircraft: C-130, C-141, C-5, and C-17
 Extraction System: EFTC
 Extraction Parachute C-130: 22-Foot
 Extraction Parachute C-141: 22-Foot
 Extraction Parachute C-5: 22-Foot
 Extraction Parachute C-17: 22-Foot
 Platform: 24-Foot Type V
 Cargo Parachutes: Three G-11B

Figure 3-36. Mobile Microwave Landing System (MMLS) in an M998 and a 3/4-Ton Trailer

Standard Intergrated Command Post System (SICPS) with the CHS-2



CB

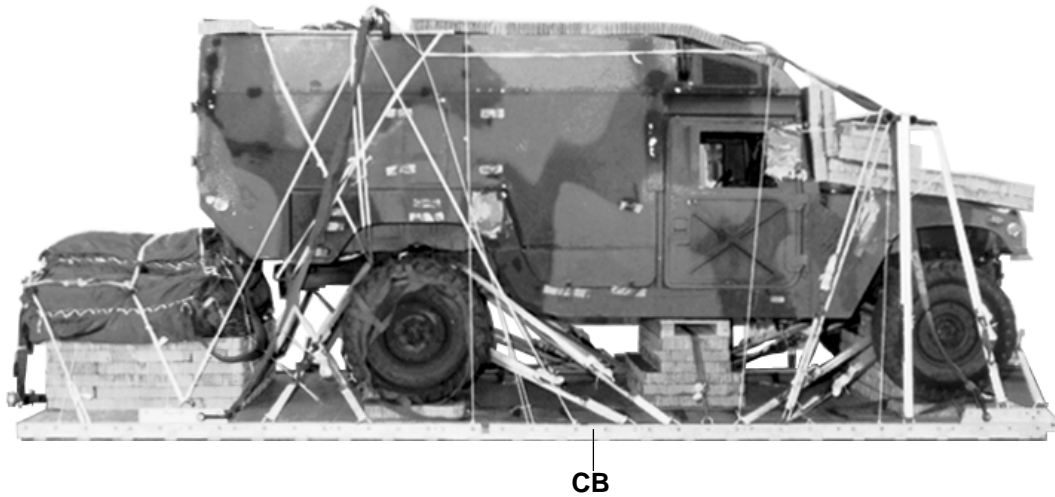
Reference: FM 10-500-23/TO 13C7-14-461

Weight	12,100 pounds
Height	94 inches
Width	108 inches
Overall Length	258 inches
Overhang: Front	0 inches
Overhang: Rear (EFTC)	18 inches
CB (from front edge of platform)	110 inches

Accompanying Load: None
Aircraft: C-130, C-141, C-5, and C-17
Extraction System: EFTC
Extraction Parachute C-130: 22-Foot
Extraction Parachute C-141: 22-Foot
Extraction Parachute C-5: 22-Foot
Extraction Parachute C-17: 22-Foot
Platform: 20-Foot Type V
Cargo Parachutes: Three G-11B

Figure 3-37. Standard Intergrated Command Post System (SICPS) with the CHS-2

Command Assault Vehicle (CAV)



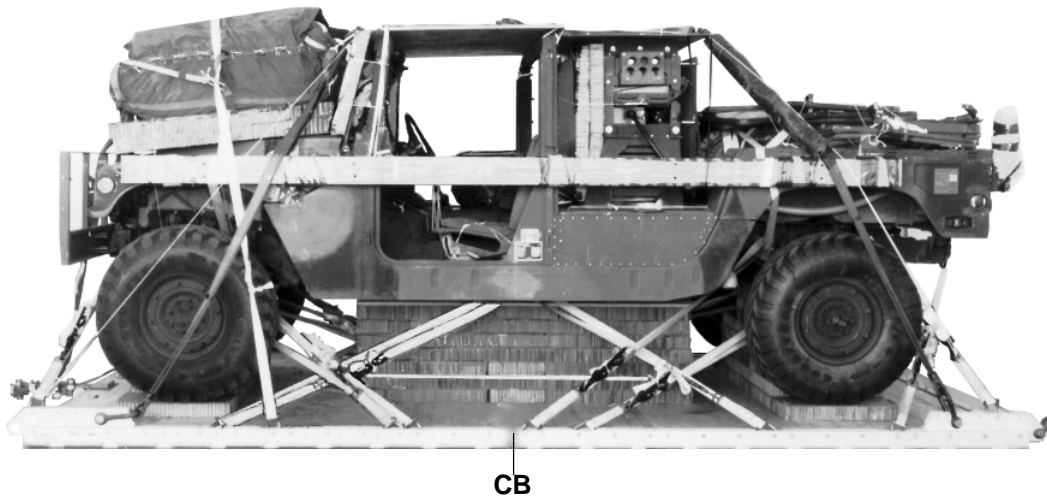
Reference: FM 10-500-23/TO 13C7-14-461

Weight	11,680 pounds
Height	100 inches
Width	108 inches
Overall Length	258 inches
Overhang: Front	0 inches
Overhang: Rear (EFTC)	18 inches
CB (from front edge of platform)	110 inches

Accompanying Load: None
Aircraft: C-130, C-141, C-5, and C-17
Extraction System: EFTC
Extraction Parachute C-130: 22-Foot
Extraction Parachute C-141: 22-Foot
Extraction Parachute C-5: 22-Foot
Extraction Parachute C-17: 22-Foot
Platform: 20-Foot Type V
Cargo Parachutes: Three G-11B

Figure 3-38. Command Assault Vehicle (CAV)

M998 Cargo/Troop Carrier (Two Seater) with GRC/206 Air Force Pallet



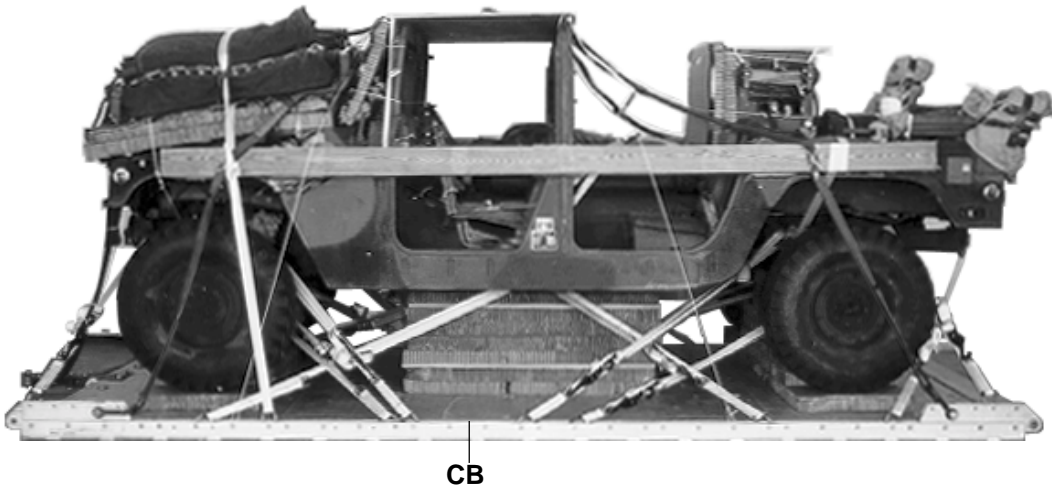
Reference: FM 10-500-23/TO 13C7-14-461

Weight	9,480 pounds
Height	85 inches
Width	108 inches
Overall Length	210 inches
Overhang: Front	0 inches
Overhang: Rear (EFTC)	18 inches
CB (from front edge of platform)	101 inches

Accompanying Load: None
Aircraft: C-130, C-141, C-5, and C-17
Extraction System: EFTC
Extraction Parachute C-130: 22-Foot
Extraction Parachute C-141: 22-Foot
Extraction Parachute C-5: 22-Foot
Extraction Parachute C-17: 22-Foot
Platform: 16-Foot Type V
Cargo Parachutes: Two G-11B

Figure 3-39. M998 Cargo/Troop Carrier (Two Seater) with GRC/206 Air Force Pallet

M998 Cargo/Troop Carrier (Four Seater) with GRC/206 Air Force Pallet



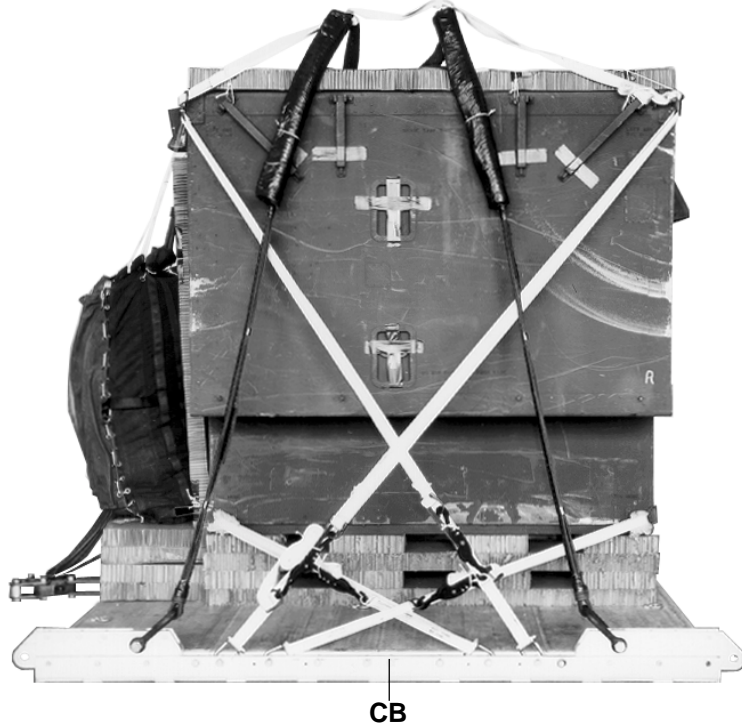
Reference: FM 10-500-23/TO 13C7-14-461

Weight	8,810 pounds
Height	86 inches
Width	108 inches
Overall Length	210 inches
Overhang: Front	0 inches
Overhang: Rear (EFTC)	18 inches
CB (from front edge of platform)	98 inches

Accompanying Load: None
 Aircraft: C-130, C-141, C-5, and C-17
 Extraction System: EFTC
 Extraction Parachute C-130: 22-Foot
 Extraction Parachute C-141: 22-Foot
 Extraction Parachute C-5: 22-Foot
 Extraction Parachute C-17: 22-Foot
 Platform: 16-Foot Type V
 Cargo Parachutes: Two G-11B

Figure 3-40. M998 Cargo/Troop Carrier (Four Seater) with GRC/206 Air Force Pallet

S-318/G Shelter with AN/GRC-122 Communications Equipment



Reference: FM 10-524/TO 13C7-14-471

Weight	3,630 pounds
Height	95 1/2 inches
Width	108 inches
Overall Length	114 inches
Overhang: Front	0 inches
Overhang: Rear (EFTC)	18 inches
CB (from front edge of platform)	49 inches

Accompanying Load: None
 Aircraft: C-130, C-141, C-5, and C-17
 Extraction System: EFTC
 Extraction Parachute C-130: 15-Foot
 Extraction Parachute C-141: 15-Foot
 Extraction Parachute C-5: 15-Foot
 Extraction Parachute C-17: 15-Foot
 Platform: 8-Foot Type V
 Cargo Parachutes: One G-11B

Figure 3-41. S-318/G Shelter with AN/GRC-122 Communications Equipment

S-502 Shelter with AN/GRC-142 Communications Equipment



CB

Reference: FM 10-524/TO 13C7-14-471

Weight	3,450 pounds
Height	95 1/2 inches
Width	108 inches
Overall Length	114 inches
Overhang: Front	0 inches
Overhang: Rear (EFTC)	18 inches
CB (from front edge of platform)	48 inches

Accompanying Load: None
 Aircraft: C-130, C-141, C-5, and C-17
 Extraction System: EFTC
 Extraction Parachute C-130: 15-Foot
 Extraction Parachute C-141: 15-Foot
 Extraction Parachute C-5: 15-Foot
 Extraction Parachute C-17: 15-Foot
 Platform: 8-Foot Type V
 Cargo Parachutes: One G-11B

Figure 3-42. S-502 Shelter with AN/GRC-142 Communications Equipment

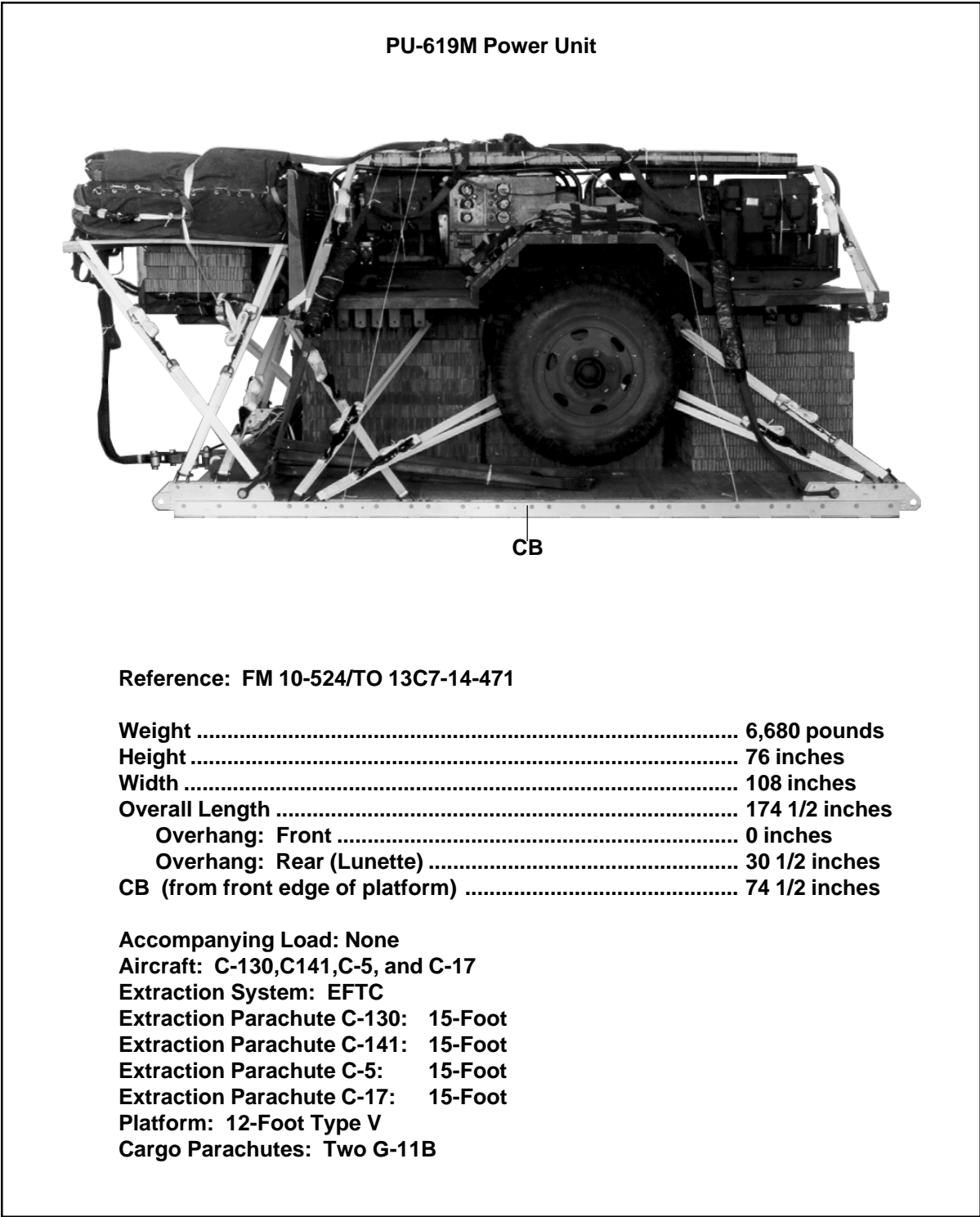


Figure 3-43. PU-619M Power Unit

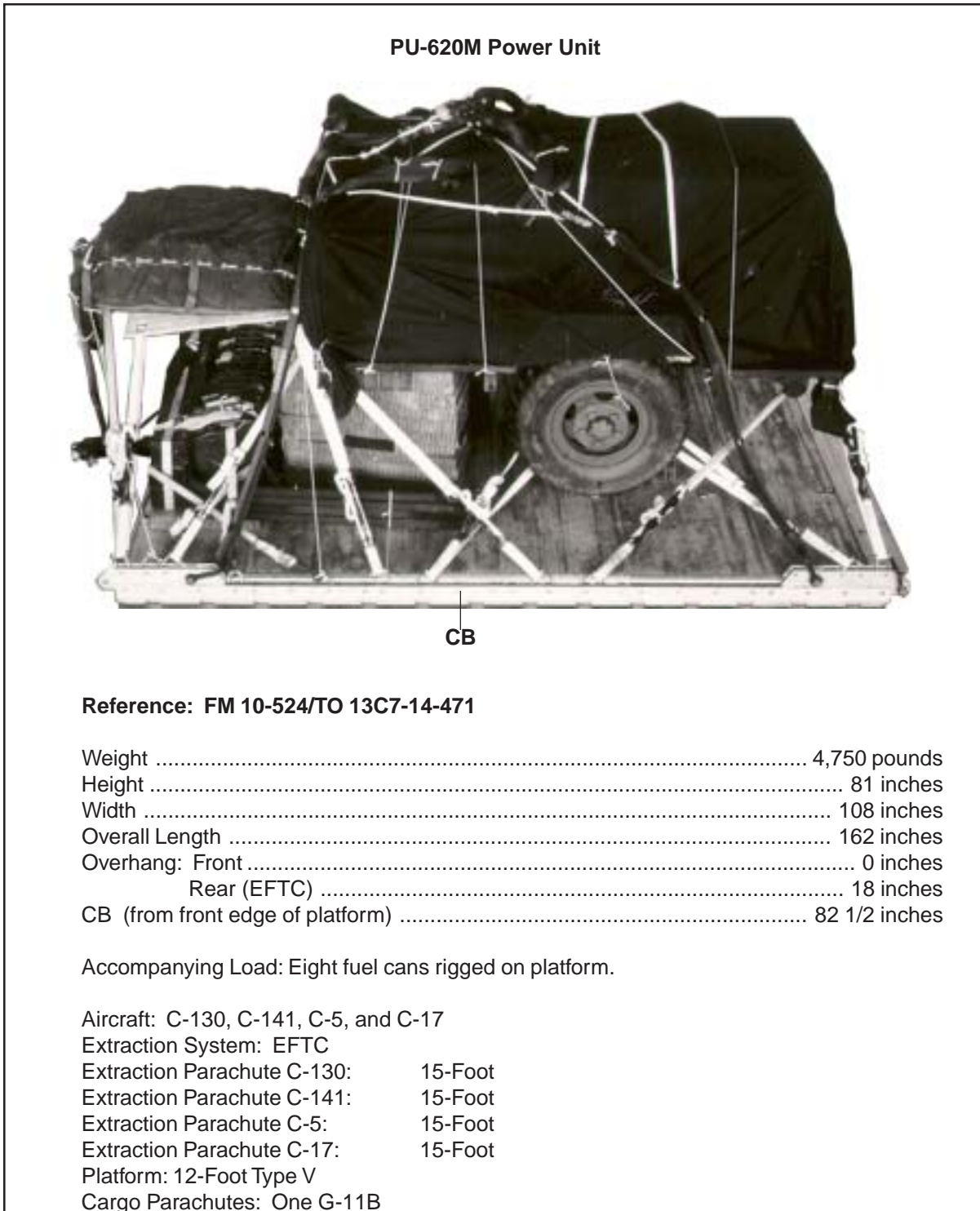
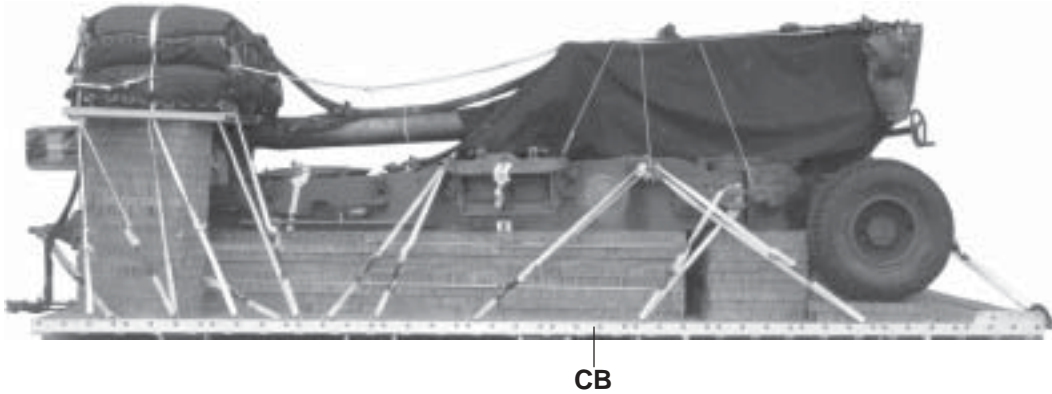


Figure 3-44. PU-620M Power Unit

M198 155-mm Howitzer



Reference: FM 4-20.127/TO 13C7-10-191

Weight	21,030 pounds
Height	96 inches
Width	108 inches
Overall Length	306 inches
Overhang: Front	0 inches
Rear (EFTC)	18 inches
CB (from front edge of platform)	126 inches

Accompanying Load: Accompanying equipment weighs 610 pounds.

Aircraft: C-130, C-141, C-5, and C-17

Extraction System: EFTC

Extraction Parachute C-130: 28-Foot

Extraction Parachute C-141: 28-Foot

Extraction Parachute C-5: 28-Foot

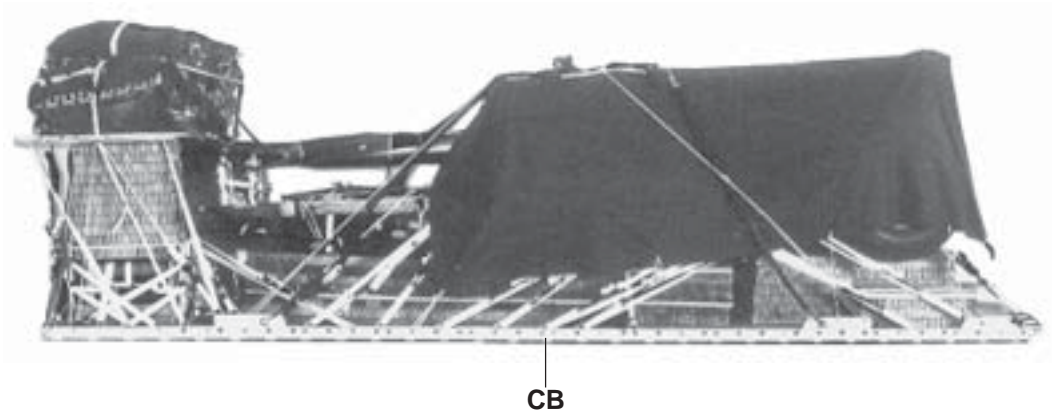
Extraction Parachute C-17: 28-Foot

Platform: 24-Foot Type V

Cargo Parachutes: Five G-11C

Figure 3-45. M198 155-mm Howitzer

M198 155-mm Howitzer with Accompanying Ammunition



Reference: FM 4-20.127/TO 13C7-10-191

Weight	23,400 pounds
Height	94 inches
Width	109 1/2 inches
Overall Length	311 inches
Overhang: Front	0 inches
Rear (EFTC)	18 inches
CB (from front edge of platform)	128 inches

Accompanying Load: Accompanying load weighing 1,509 pounds rigged on platform.

Aircraft: C-130, C-141, C-5, and C-17

Extraction System: EFTC

Extraction Parachute C-130: 28-Foot

Extraction Parachute C-141: 28-Foot

Extraction Parachute C-5: 28-Foot

Extraction Parachute C-17: 28-Foot

Platform: 24-Foot Type V

Cargo Parachutes: Five G-11C

Figure 3-46. M198 155-mm Howitzer with Accompanying Ammunition

M198 155-mm Howitzer with MACS



Reference: FM 4-20.127/TO 13C7-10-191

Weight	23,700 pounds
Height	92 inches
Width	108 inches
Overall Length	288 inches
Overhang: Front	0 inches
Rear (EFTC)	18 inches
CB (from front edge of platform)	124 inches

Accompanying Load: Accompanying equipment weighs 1,509 pounds.

Aircraft: C-130, C-141, C-5, and C-17

Extraction System: EFTC

Extraction Parachute C-130: 28-Foot

Extraction Parachute C-141: 28-Foot

Extraction Parachute C-5: 28-Foot

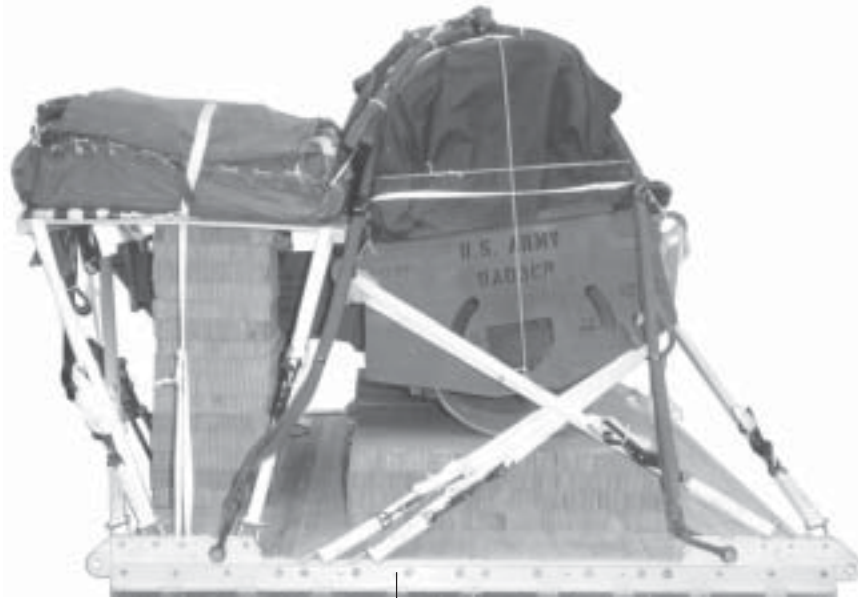
Extraction Parachute C-17: 28-Foot

Platform: 24-Foot Type V

Cargo Parachutes: Five G-11C

Figure 3-46.1. M198, 155-mm Howitzer with MACS

Type 1 Towed Roller



CB

Reference: FM 10-528/TO 13C7-26-71

Weight	6,550 pounds
Height	80 inches
Width	108 inches
Overall Length	121 inches
Overhang: Front	0 inches
Rear (Parachute Stowage Tray)	25 inches
CB (from front edge of platform)	48 inches

Accompanying Load: None

Aircraft: C-130, C-141, C-5, and C-17

Extraction System: EFTC

Extraction Parachute C-130: 15-Foot

Extraction Parachute C-141: 15-Foot

Extraction Parachute C-5: 15-Foot

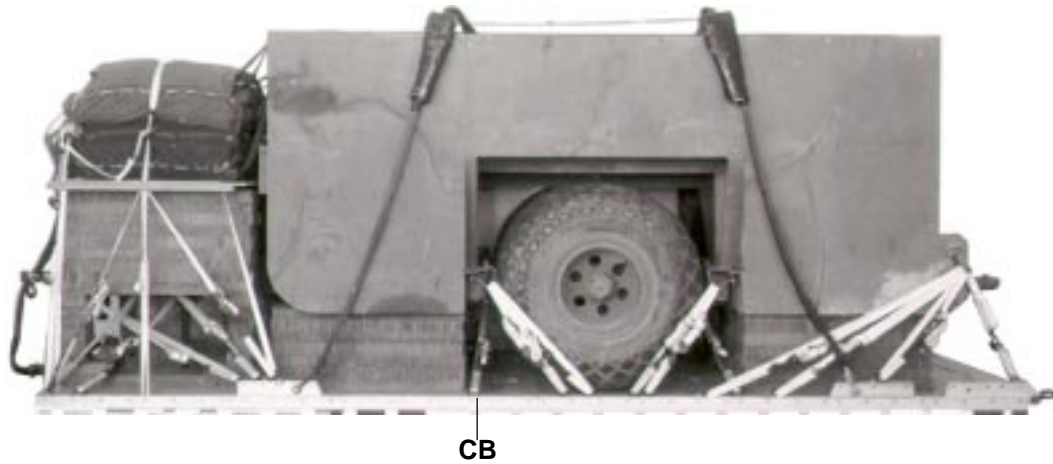
Extraction Parachute C-17: 15-Foot

Platform: 8-Foot Type V

Cargo Parachutes: Two G-11B

Figure 3-47. Type 1 Towed Roller

M435 Towed Roller



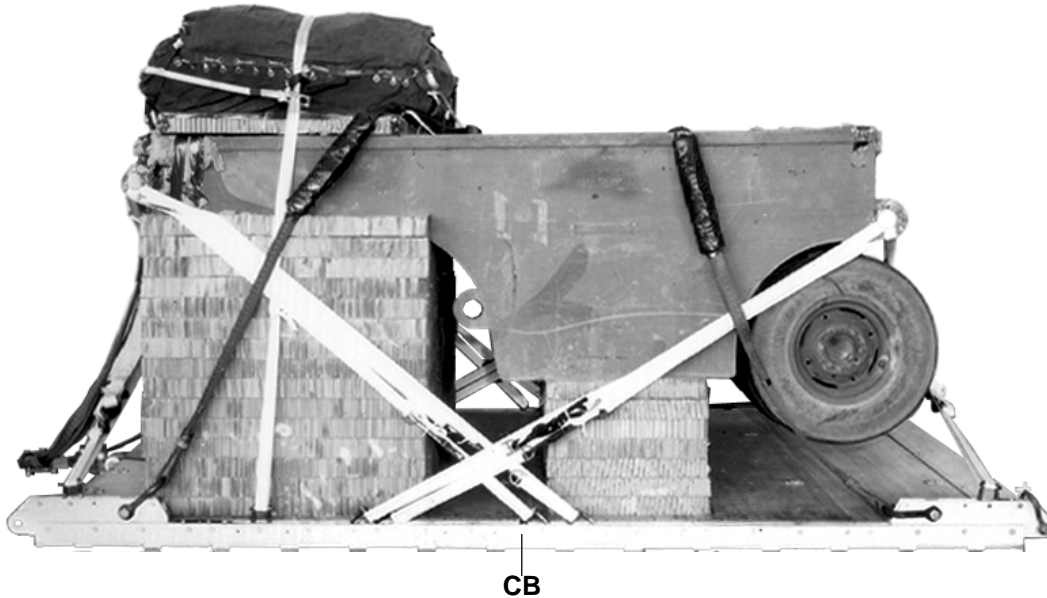
Reference: FM 10-528/TO 13C7-26-71

Weight	15,440 pounds
Height	97 inches
Width	108 inches
Overall Length	260 inches
Overhang: Front	0 inches
Overhang: Rear (Lunette)	20 inches
CB (from front edge of platform)	118 inches

Accompanying Load: None
 Aircraft: C-130, C-141, C-5, and C-17
 Extraction System: EFTC
 Extraction Parachute C-130: 22-Foot
 Extraction Parachute C-141: 22-Foot
 Extraction Parachute C-5: 22-Foot
 Extraction Parachute C-17: 22-Foot
 Platform: 20-Foot Type V
 Cargo Parachutes: Four G-11B

Figure 3-48. M435 Towed Roller

13-Wheeled Towed Roller



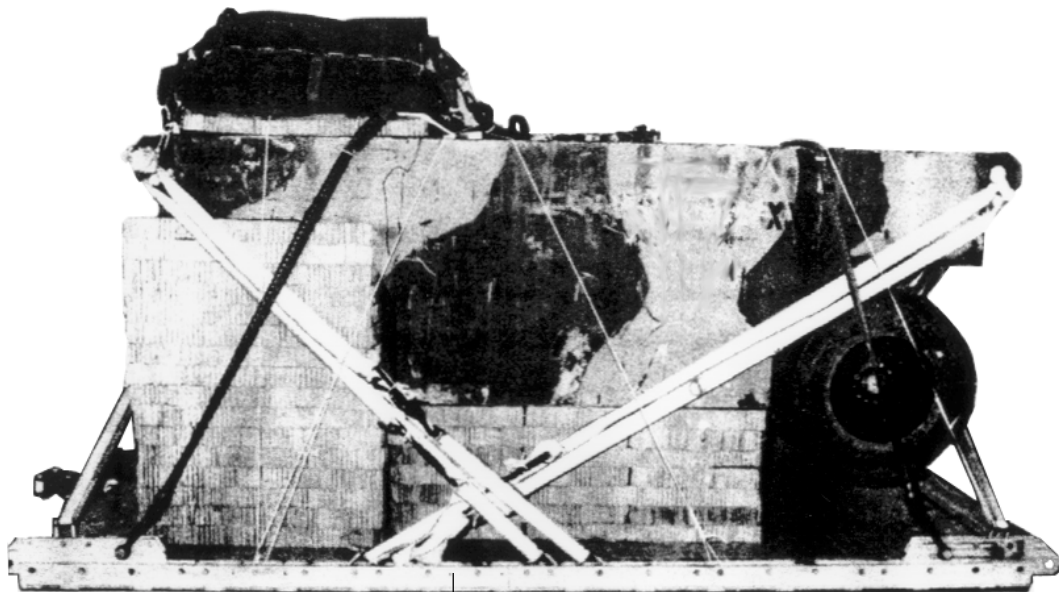
Reference: FM 10-528/TO 13C7-26-71

Weight 5,750 pounds
Height 80 inches
Width 108 inches
Overall Length 162 inches
 Overhang: Front 0 inches
 Overhang: Rear (EFTC) 18 inches
CB (from front edge of platform) 79 inches

Accompanying Load: None
Aircraft: C-130, C-141, C-5, and C-17
Extraction System: EFTC
Extraction Parachute C-130: 15-Foot
Extraction Parachute C-141: 15-Foot
Extraction Parachute C-5: 15-Foot
Extraction Parachute C-17: 15-Foot
Platform: 12-Foot Type V
Cargo Parachutes: Two G-11B

Figure 3-49. 13-Wheeled Towed Roller

11-Wheeled Towed Roller



CB

Reference: FM 10-528/TO 13C7-26-71

Weight	5,140 pounds
Height	86 inches
Width	108 inches
Overall Length	162 inches
Overhang: Front	0 inches
Overhang: Rear (EFTC)	18 inches
CB (from front edge of platform)	76 inches

Accompanying Load: None
 Aircraft: C-130, C-141, C-5, and C-17
 Extraction System: EFTC
 Extraction Parachute C-130: 15-Foot
 Extraction Parachute C-141: 15-Foot
 Extraction Parachute C-5: 15-Foot
 Extraction Parachute C-17: 15-Foot
 Platform: 12-Foot Type V
 Cargo Parachutes: One G-11B

Figure 3-50. 11-Wheeled Towed Roller

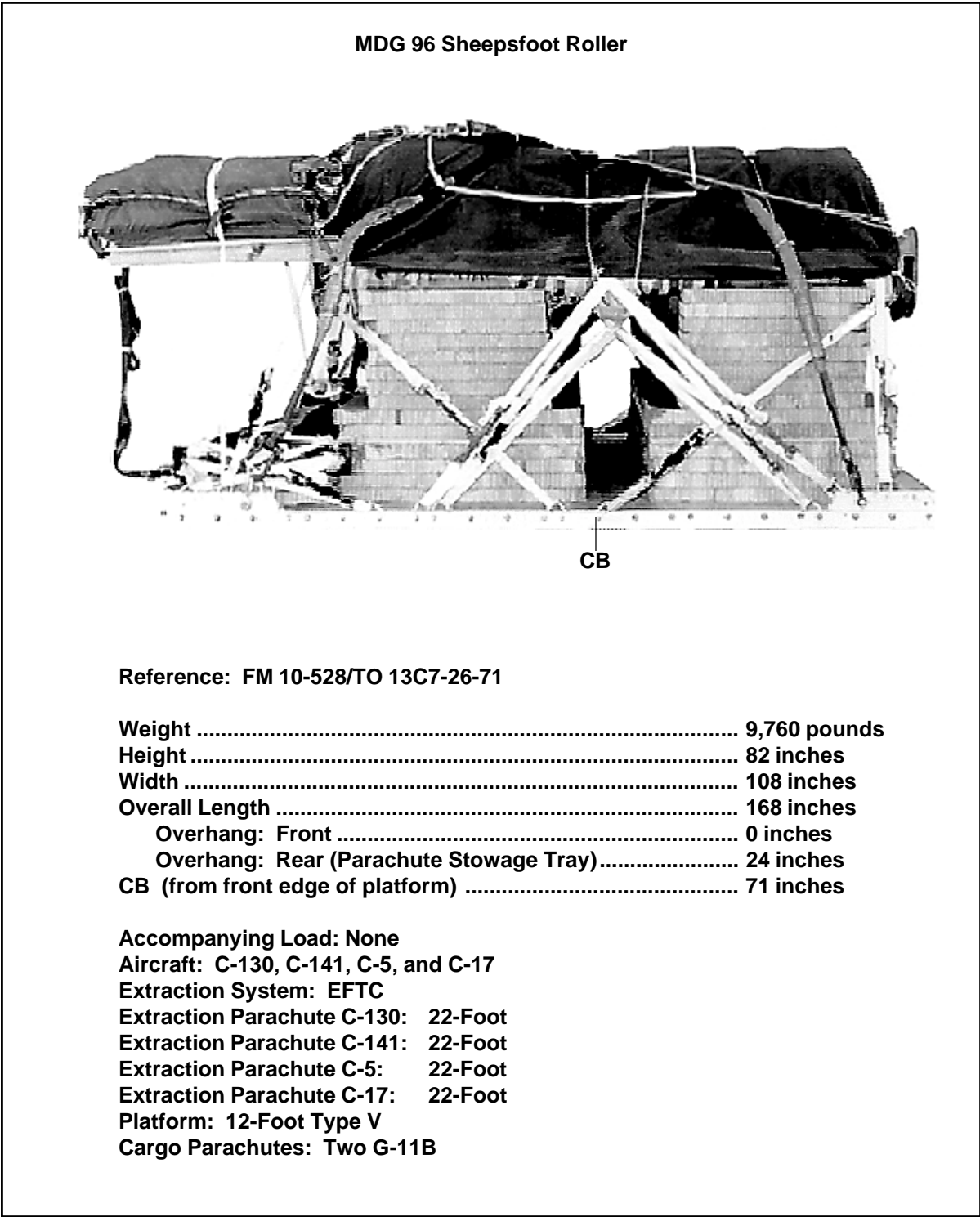
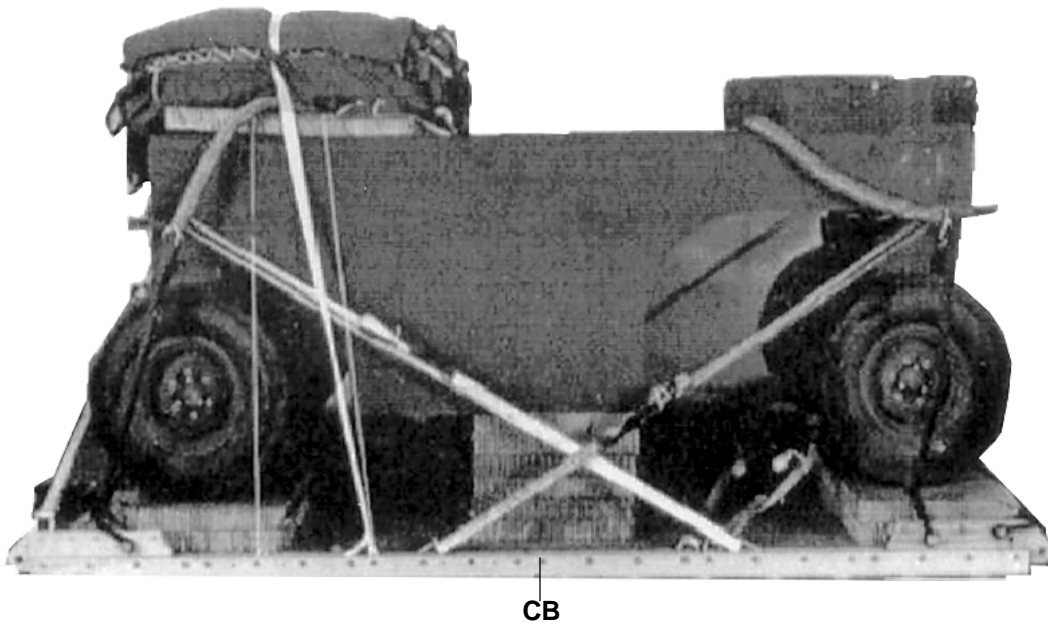


Figure 3-51. MDG 96 Sheepsfoot Roller

Thirteen Wheel (Model PT-13) Towed Roller



Reference: FM 10-528/TO 13C7-26-71

Weight	6,582 pounds
Height	75 inches
Width	108 inches
Overall Length	162 inches
Overhang: Front	0 inches
Overhang: Rear (EFTC)	18 inches
CB (from front edge of platform)	68 inches

Accompanying Load: None
Aircraft: C-130, C-141, C-5, and C-17
Extraction System: EFTC
Extraction Parachute C-130: 15-Foot
Extraction Parachute C-141: 15-Foot
Extraction Parachute C-5: 15-Foot
Extraction Parachute C-17: 15-Foot
Platform: 12-Foot Type V
Cargo Parachutes: Two G-11B

Figure 3-52. Thirteen Wheel (Model PT-13) Towed Roller

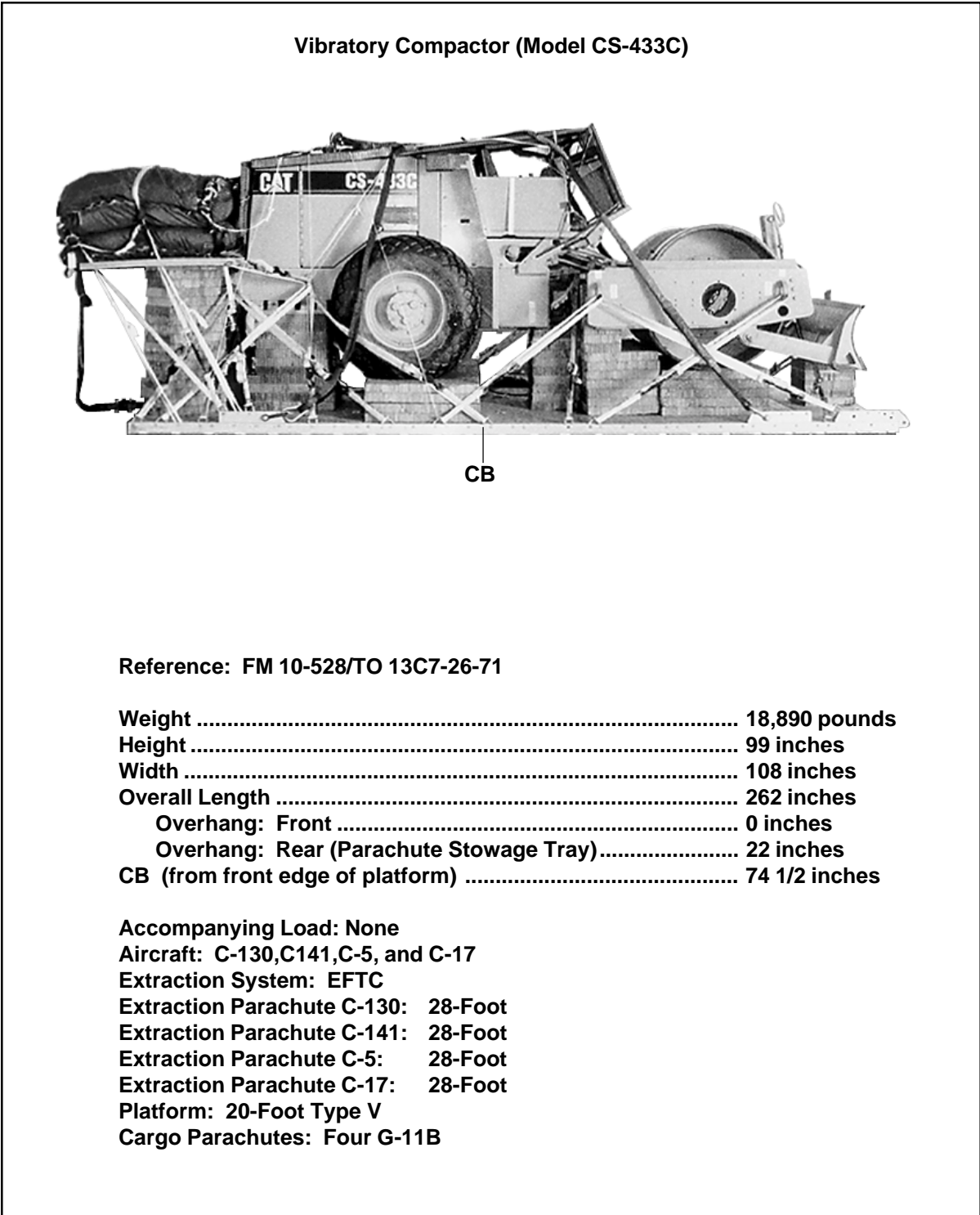
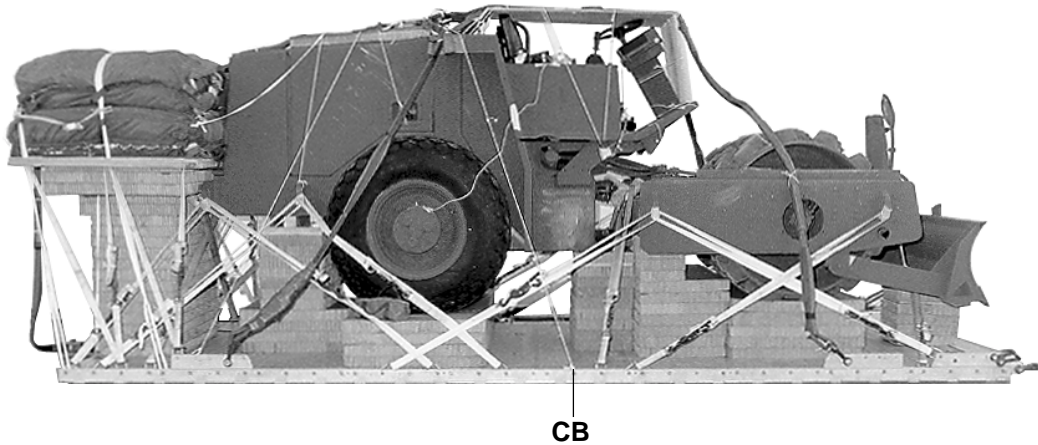


Figure 3-53. Vibratory Compactor (Model CS-433C)

Vibratory Compactor (Model CS-433P)



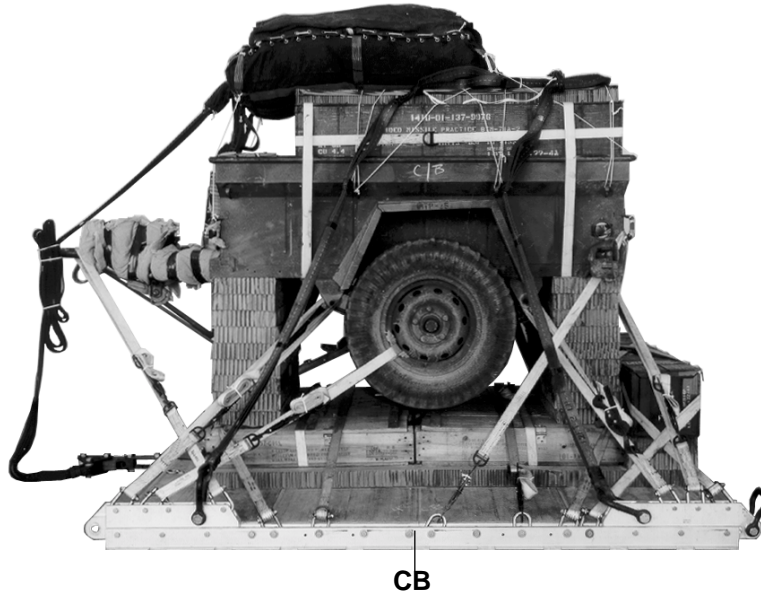
Reference: FM 10-528/TO 13C7-26-71

Weight	19,147 pounds
Height	99 inches
Width	108 inches
Overall Length	262 inches
Overhang: Front	0 inches
Overhang: Rear (Parachute Stowage Tray).....	22 inches
CB (from front edge of platform)	108 inches

Accompanying Load: None
Aircraft: C-130, C-141, C-5, and C-17
Extraction System: EFTC
Extraction Parachute C-130: 28-Foot
Extraction Parachute C-141: 28-Foot
Extraction Parachute C-5: 28-Foot
Extraction Parachute C-17: 28-Foot
Platform: 20-Foot Type V
Cargo Parachutes: Four G-11B

Figure 3-54. Vibratory Compactor (Model CS-433P)

M416 Trailer with Eight Tube-Launched, Optically Tracked, Wire-Guided (TOW) Missiles



Reference: FM 10-500-29/TO 13C7-10-171

Weight	3,480 pounds
Height	87 inches
Width	108 inches
Overall Length	121 inches
Overhang: Front	0 inches
Overhang: Rear (Lunette)	25 inches
CB (from front edge of platform)	51 inches

Accompanying Load: Accompanying load consists of eight boxes of 105-mm ammunition weighing 588 pounds.

Aircraft: C-130, C-141, C-5, and C-17

Extraction System: EFTC

Extraction Parachute C-130: One 15-Foot

Extraction Parachute C-141: One 15-Foot

Extraction Parachute C-5: One 15-Foot

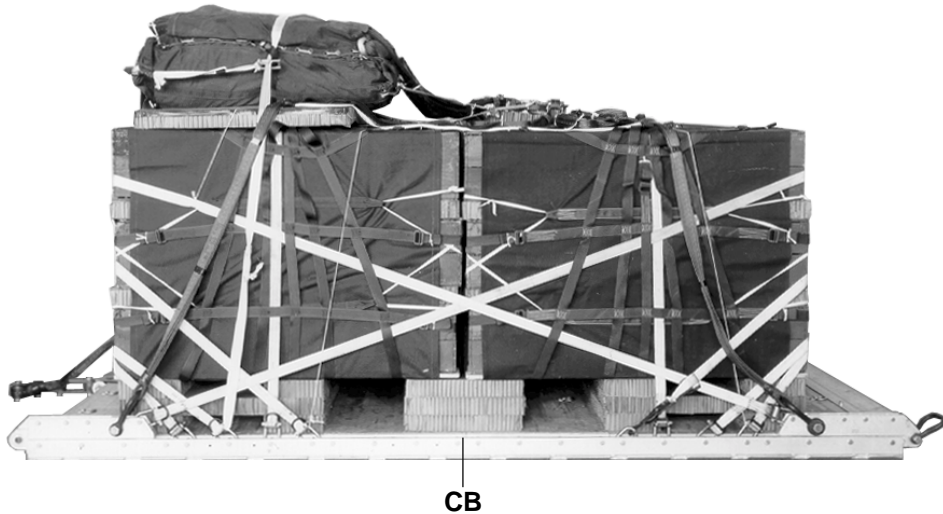
Extraction Parachute C-17: One 15-Foot

Platform: 8-Foot Type V

Cargo Parachutes: One G-11B

Figure 3-55. M416 Trailer with Eight Tube-Launched, Optically Tracked, Wire-Guided (TOW) Missiles

TOW Missiles Rigged in A-22 Cargo Bags



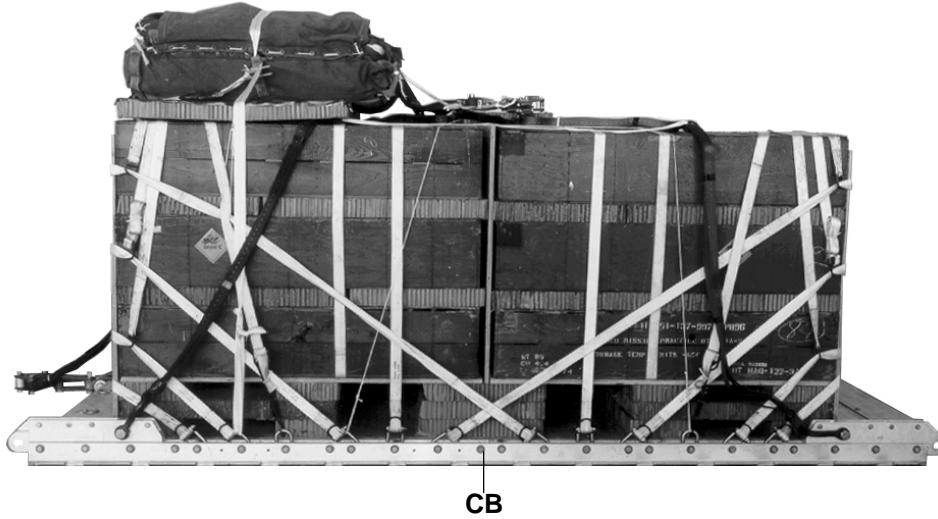
Reference: FM 10-500-29/TO 13C7-10-171

Weight 6,600 pounds
Height 75 inches
Width 108 inches
Overall Length 162 inches
Overhang: Front 0 inches
Overhang: Rear (EFTC) 18 inches
CB (from front edge of platform) 77 inches

Accompanying Load: None
Aircraft: C-130, C-141, C-5, and C-17
Extraction System: EFTC
Extraction Parachute C-130: 15-Foot
Extraction Parachute C-141: 15-Foot
Extraction Parachute C-5: 15-Foot
Extraction Parachute C-17: 15-Foot
Platform: 12-Foot Type V
Cargo Parachutes: Two G-11B

Figure 3-56. TOW Missiles Rigged in A-22 Cargo Bags

TOW Missiles



Reference: FM 10-500-29/TO 13C7-10-171

Weight	6,650 pounds
Height	75 inches
Width	108 inches
Overall Length	162 inches
Overhang: Front	0 inches
Overhang: Rear (EFTC)	18 inches
CB (from front edge of platform)	77 inches

Accompanying Load: None
Aircraft: C-130, C-141, C-5, and C-17
Extraction System: EFTC
Extraction Parachute C-130: 15-Foot
Extraction Parachute C-141: 15-Foot
Extraction Parachute C-5: 15-Foot
Extraction Parachute C-17: 15-Foot
Platform: 12-Foot Type V
Cargo Parachutes: Two G-11B

Figure 3-57. TOW Missiles

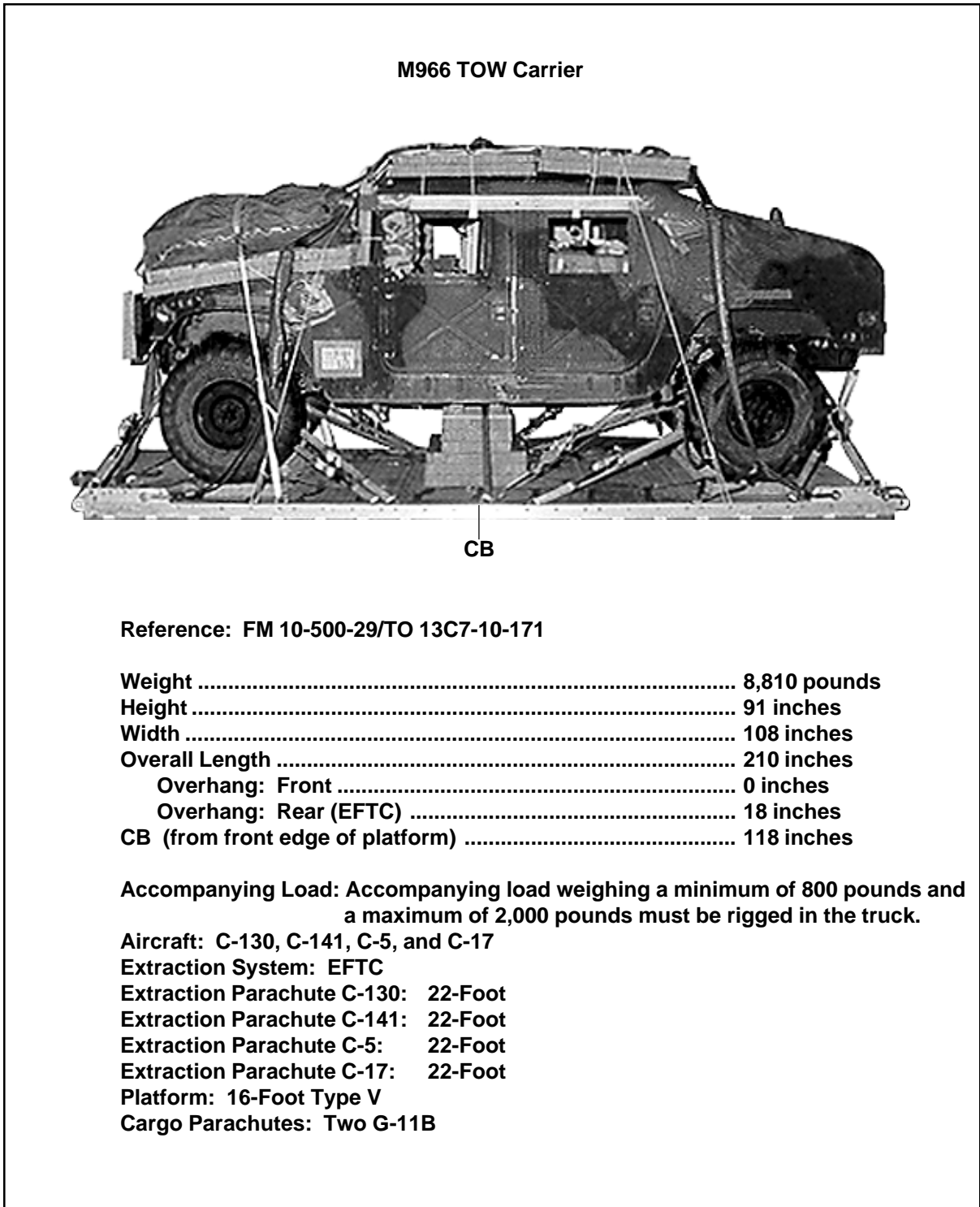


Figure 3-58. M966 TOW Carrier

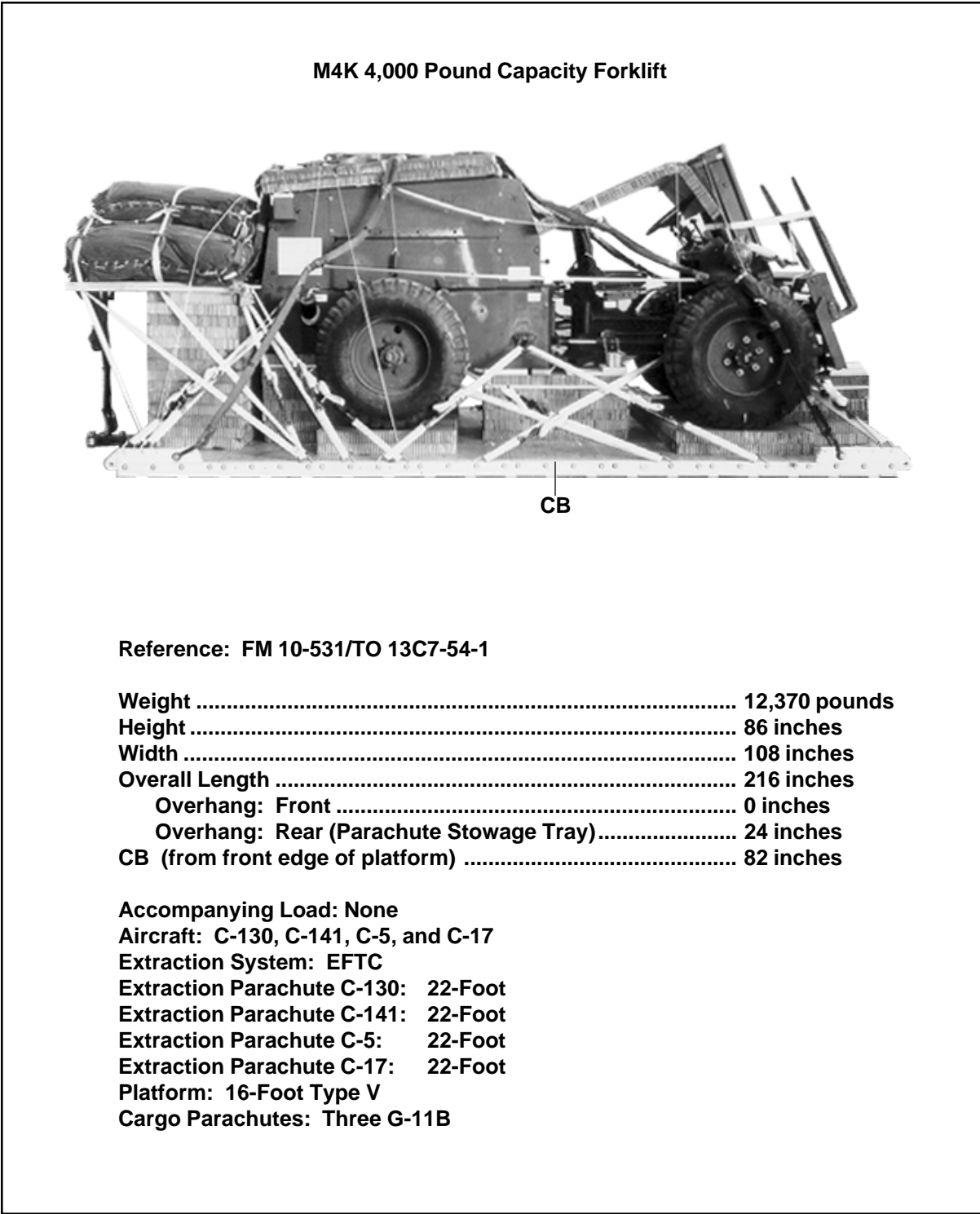


Figure 3-59. M4K 4,000 Pound Capacity Forklift

6,000-Pound Capacity Forklift



CB

Reference: FM 10-531/TO 13C7-54-1

Weight	28,660 pounds
Height	100 3/4 inches
Width	108 inches
Overall Length	333 inches
Overhang: Front (Forks)	27 inches
Overhang: Rear (EFTC)	18 inches
CB (from front edge of platform)	141 inches

Accompanying Load: None
 Aircraft: C-130, C-141, C-5, and C-17
 Extraction System: EFTC
 Extraction Parachute C-130: 28-Foot
 Extraction Parachute C-141: 28-Foot
 Extraction Parachute C-5: 28-Foot
 Extraction Parachute C-17: 28-Foot
 Platform: 24-Foot Type V
 Cargo Parachutes: Six G-11C

Figure 3-60. 6,000-Pound Capacity Forklift

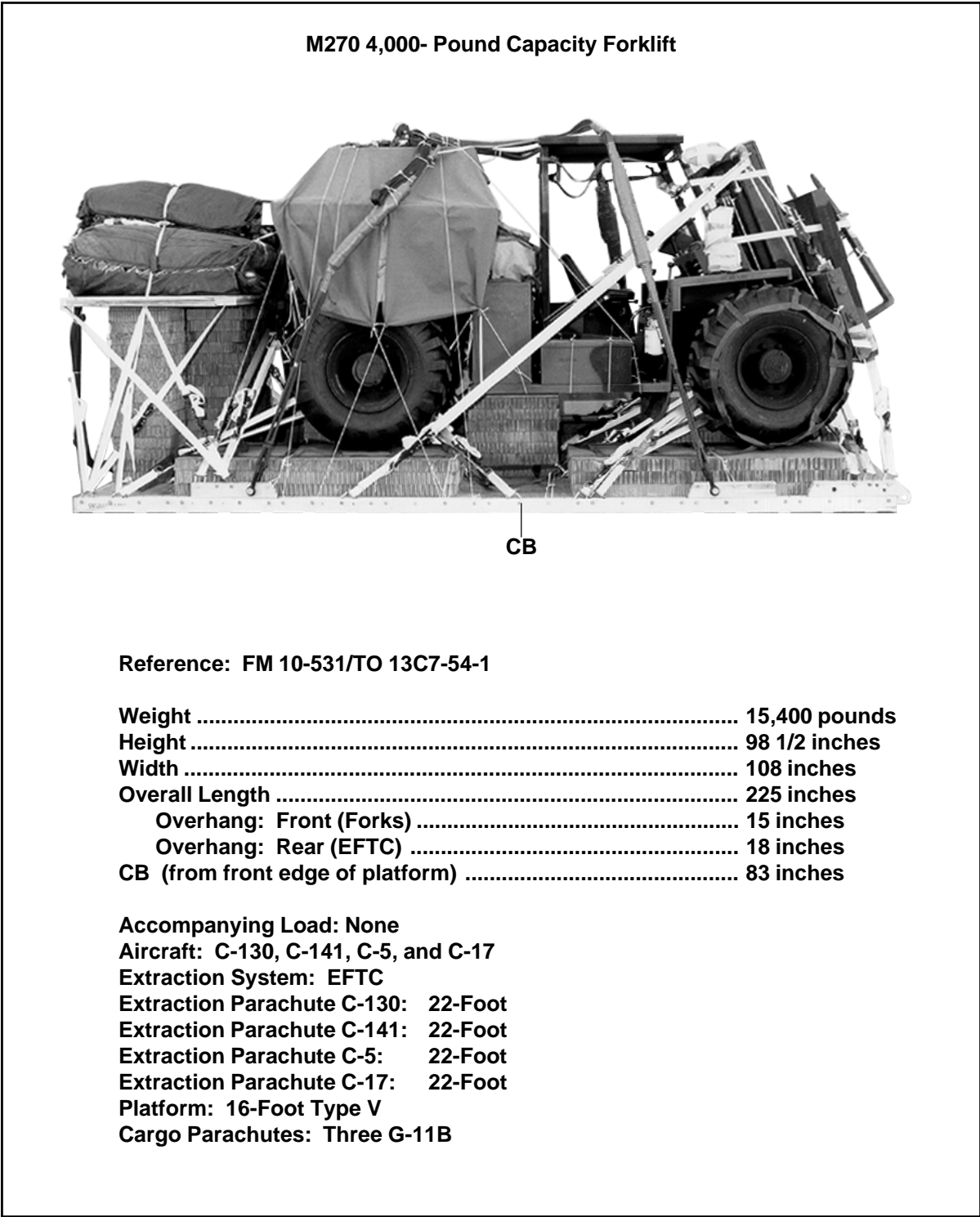
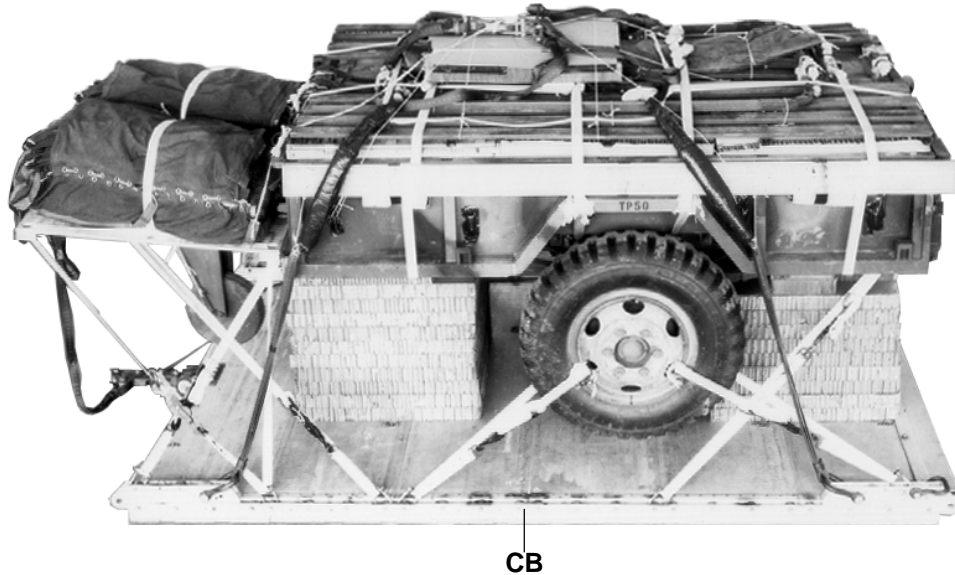


Figure 3-61. M270 4,000- Pound Capacity Forklift

1 1/2-Ton Trailer



Reference: FM 10-532/TO 13C7-3-361

Weight	7,360 pounds
Height	81 inches
Width	108 inches
Overall Length	166 inches
Overhang: Front	0 inches
Overhang: Rear (Parachute Stowage Tray).....	22 inches
CB (from front edge of platform)	72 inches

Accompanying Load: Accompanying load must not weigh more than 3,000 pounds.

Aircraft: C-130, C-141, C-5, and C-17

Extraction System: EFTC

Extraction Parachute C-130: 15-Foot

Extraction Parachute C-141: 15-Foot

Extraction Parachute C-5: 15-Foot

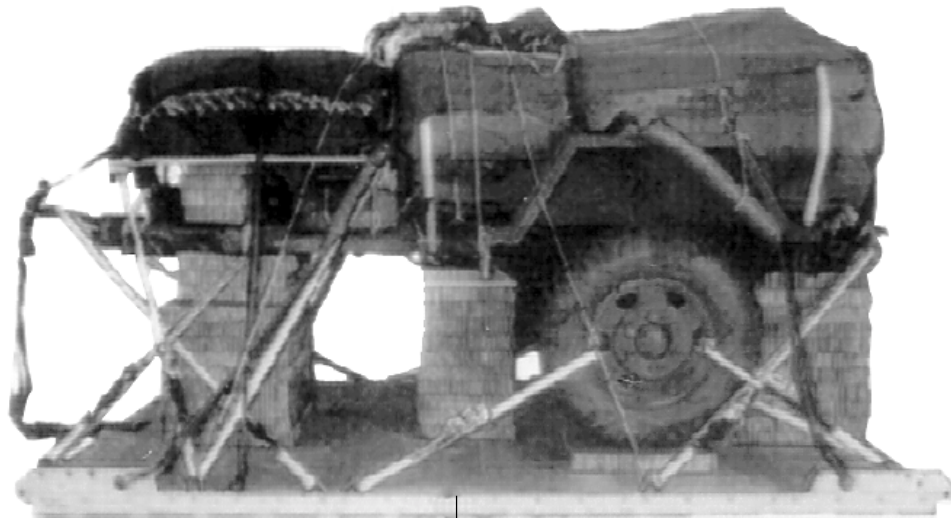
Extraction Parachute C-17: 15-Foot

Platform: 12-Foot Type V

Cargo Parachutes: Two G-11B

Figure 3-62. 1 1/2-Ton Trailer

M149A1 400-Gallon Water Trailer



CB

Reference: FM 10-532/TO 13C7-3-361

Weight	7,200 pounds
Height	86 inches
Width	108 inches
Overall Length	162 inches
Overhang: Front	0 inches
Overhang: Rear (EFTC)	18 inches
CB (from front edge of platform)	63 inches

Accompanying Load: None

Aircraft: C-130,C141,C-5, and C-17

Extraction System: EFTC

Extraction Parachute C-130: 15-Foot

Extraction Parachute C-141: 15-Foot

Extraction Parachute C-5: 15-Foot

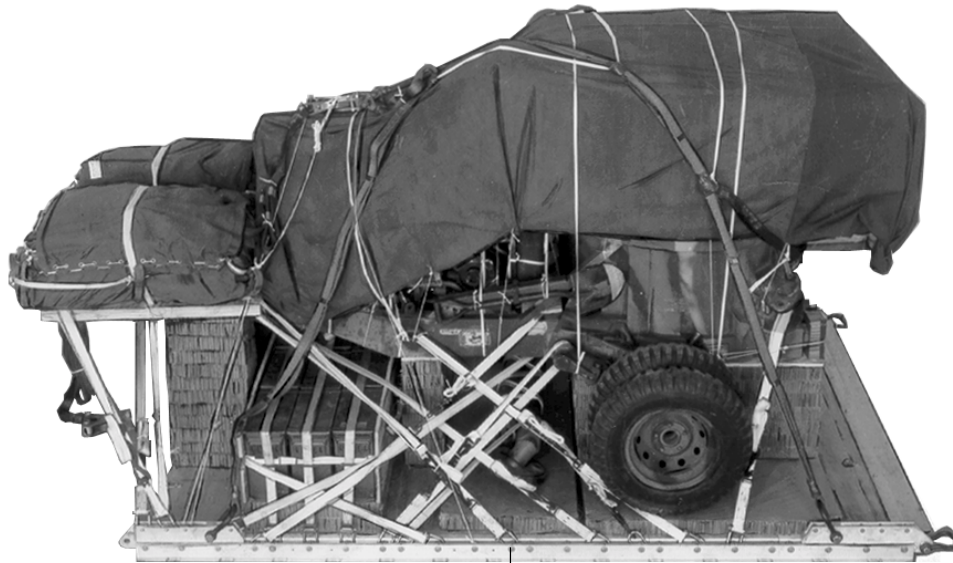
Extraction Parachute C-17: 15-Foot

Platform: 12-Foot Type V

Cargo Parachutes: Two G-11B

Figure 3-63. M149A1 400-Gallon Water Trailer

M167A1 Gun



CB

Reference: FM 10-534/TO 13C7-10-161

Weight	7,250 pounds
Height	89 inches
Width	108 inches
Overall Length	176 inches
Overhang: Front	0 inches
Overhang: Rear (Parachute Stowage Tray).....	32 inches
CB (from front edge of platform)	108 inches

Accompanying Load: Stow 15 boxes of 20-mm ammunition on platform.

Aircraft: C-130, C-141, C-5, and C-17

Extraction System: EFTC

Extraction Parachute C-130: 15-Foot

Extraction Parachute C-141: 15-Foot

Extraction Parachute C-5: 15-Foot

Extraction Parachute C-17: 15-Foot

Platform: 12-Foot Type V

Cargo Parachutes: Two G-11B

Figure 3-64. M167A1 Gun

M167A2 Gun with 1 1/4-Ton Truck



CB

Reference: FM 10-534/TO 13C7-10-161

Weight	23,100 pounds
Height	95 inches
Width	108 inches
Overall Length	402 inches
Overhang: Front	0 inches
Overhang: Rear (EFTC)	18 inches
CB (from front edge of platform)	189 inches

Accompanying Load: Stow 55 boxes of 20-mm ammunition on platform and a minimum of 800 pounds and a maximum of 2,000 pounds in truck.

Aircraft: C-130, C-141, C-5, and C-17

Extraction System: EFTC

Extraction Parachute C-130: 28-Foot

Extraction Parachute C-141: 28-Foot

Extraction Parachute C-5: 28-Foot

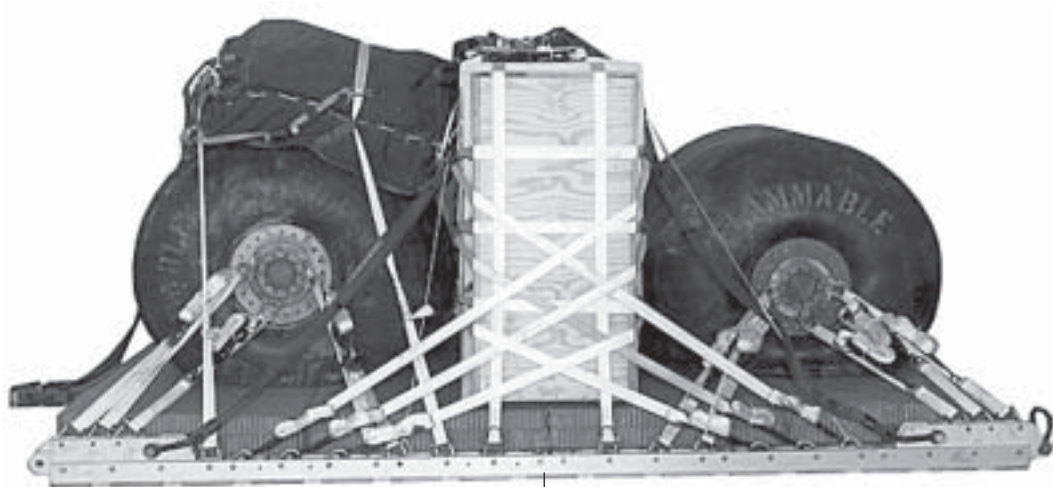
Extraction Parachute C-17: 28-Foot

Platform: 32-Foot Type V

Cargo Parachutes: Five G-11C

Figure 3-65. M167A2 Gun with 1 1/4-Ton Truck

Forward Area Refueling Equipment (FARE) with Two 500-Gallon Fuel Drums



CB

Reference: FM 4-20.137/TO 13C7-1-19

Weight	9,107 pounds
Height	70 inches
Width	108 inches
Overall Length	162 inches
Overhang: Front	0 inches
Rear (EFTC)	18 inches
CB (from front edge of platform)	72 inches

Accompanying Load: None

Aircraft: C-130, C-141, C-5, and C-17

Extraction System: EFTC

Extraction Parachute C-130: 22-Foot

Extraction Parachute C-141: 22-Foot

Extraction Parachute C-5: 22-Foot

Extraction Parachute C-17: 22-Foot

Platform: 12-Foot Type V

Cargo Parachutes: Two G-11B

Figure 3-66. Forward Area Refueling Equipment (FARE) with Two 500-Gallon Fuel Drums

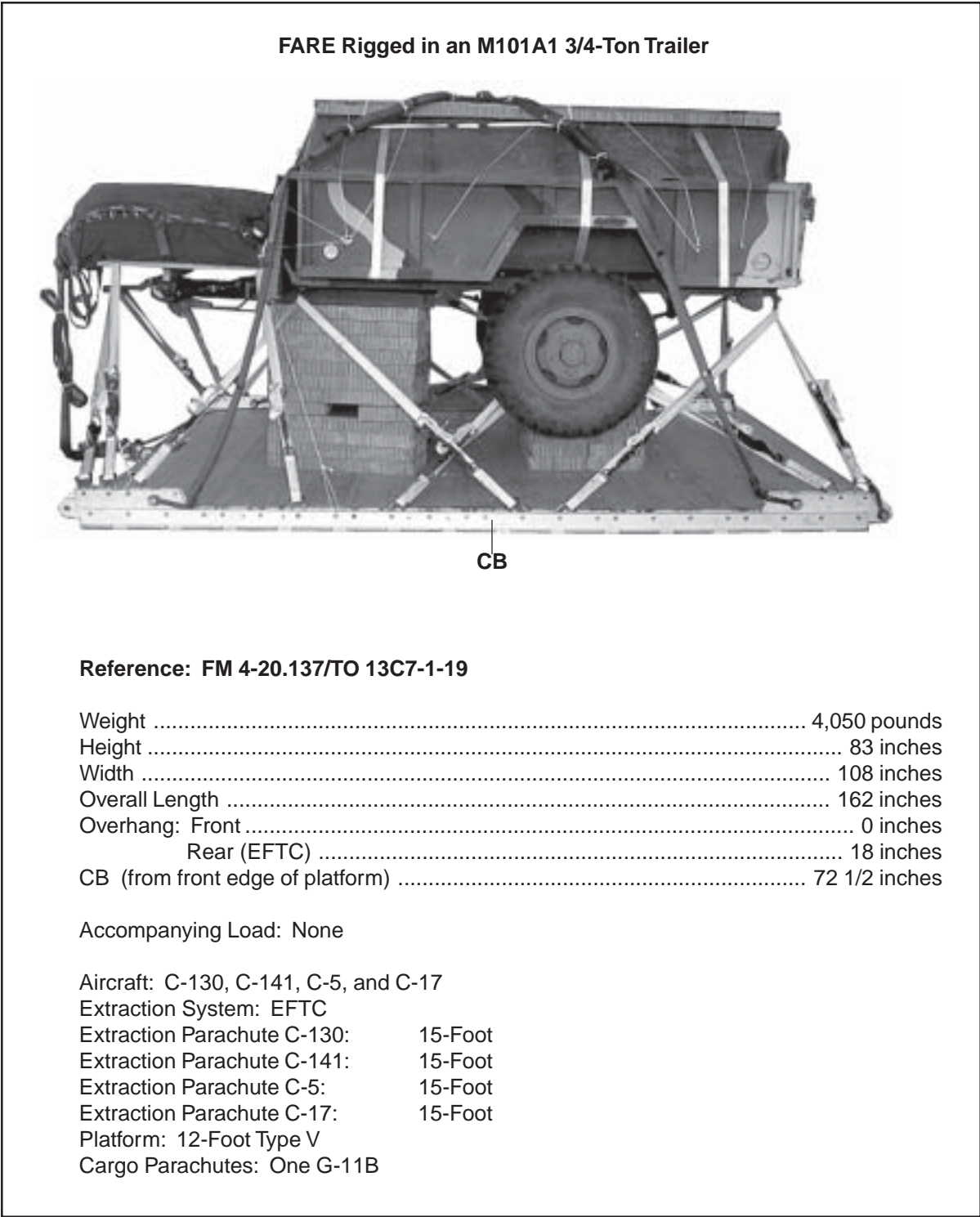
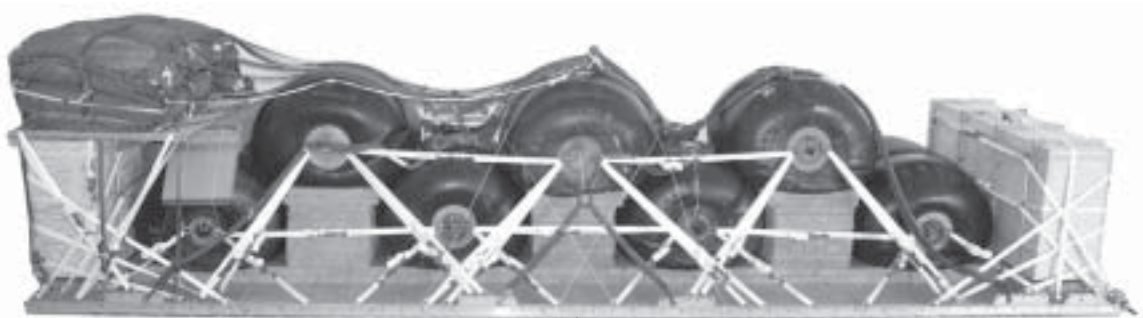


Figure 3-67. FARE rigged in an M101A1 3/4-Ton Trailer

FARE with Seven 500-Gallon Fuel Drums



CB

Reference: FM 4-20.137/TO 13C7-1-19

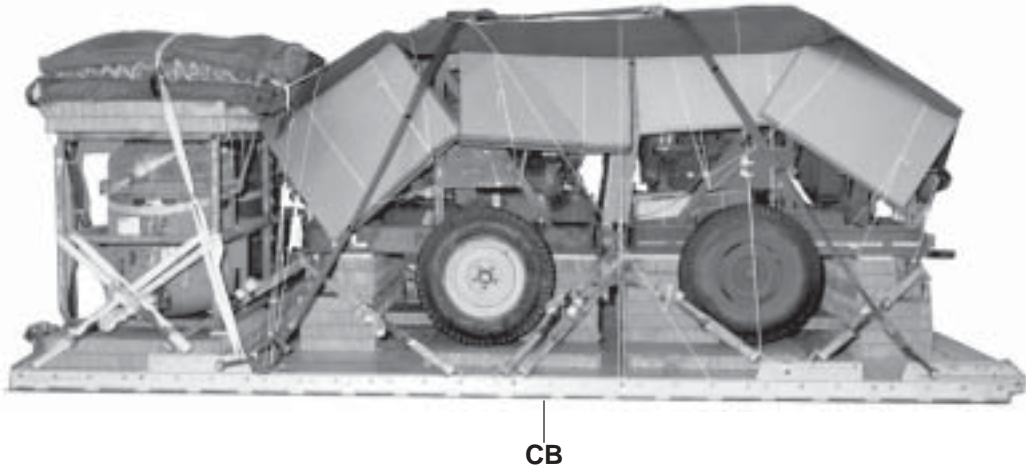
Weight	28,000 pounds
Height	95 inches
Width	108 inches
Overall Length	402 inches
Overhang: Front	0 inches
Rear (EFTC)	18 inches
CB (from front edge of platform)	202 inches

Accompanying Load: None

- Aircraft: C-130, C-141, C-5, and C-17
- Extraction System: EFTC
- Extraction Parachute C-130: 28-Foot
- Extraction Parachute C-141: 28-Foot
- Extraction Parachute C-5: 28-Foot
- Extraction Parachute C-17: 28-Foot
- Platform: 32-Foot Type V
- Cargo Parachutes: Six G-11C

Figure 3-68. FARE with Seven 500-Gallon Fuel Drums

350-GPM Wheel-Mounted Pumping Assembly with Filter/Separator



Reference: FM 4-20.137/TO 13C7-1-19

Weight	7,880 pounds
Height	77 inches
Width	108 inches
Overall Length	214.5 inches
Overhang: Front (Lunette on Front of Pump)	4.5 inches
Rear (EFTC)	18 inches
CB (from front edge of platform)	100 inches

Accompanying Load: None

Aircraft: C-130, C-141, C-5, and C-17

Extraction System: EFTC

Extraction Parachute C-130: 15-Foot

Extraction Parachute C-141: 15-Foot

Extraction Parachute C-5: 15-Foot

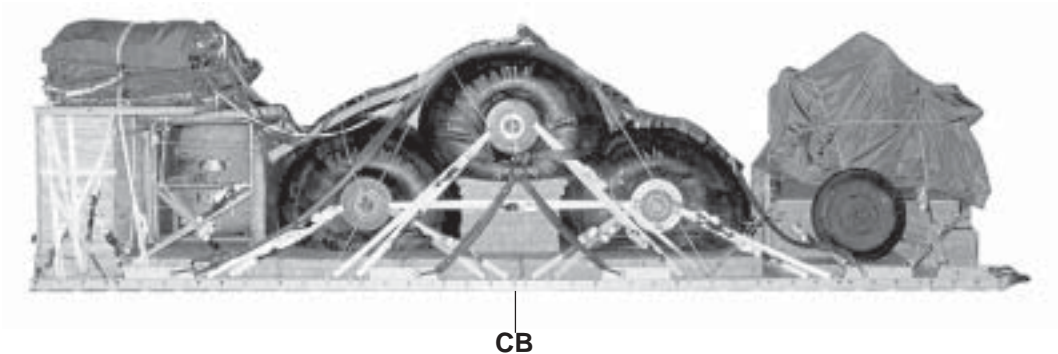
Extraction Parachute C-17: 15-Foot

Platform: 16-Foot Type V

Cargo Parachutes: Two G-11B

Figure 3-69. 350-GPM Wheel-Mounted Pumping Assembly with Filter/Separator

Three 500-Gallon Drums with Pump and Separator



Reference: FM 4-20.137/TO 13C7-1-19

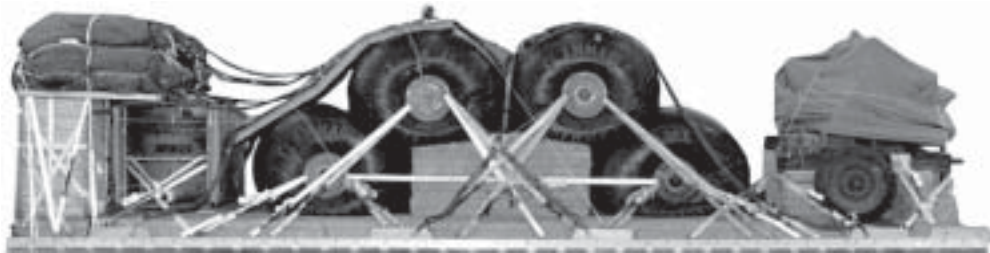
Weight	19,689 pounds
Height	89 inches
Width	108 inches
Overall Length	315 inches
Overhang: Front (Tongue of Pump)	9 inches
Rear (EFTC)	18 inches
CB (from front edge of platform)	144 inches

Accompanying Load: None

- Aircraft: C-130, C-141, C-5, and C-17
- Extraction System: EFTC
- Extraction Parachute C-130: 28-Foot
- Extraction Parachute C-141: 28-Foot
- Extraction Parachute C-5: 28-Foot
- Extraction Parachute C-17: 28-Foot
- Platform: 24-Foot Type V
- Cargo Parachutes: Four G-11B

Figure 3-70. Three 500-Gallon Drums with Pump and Separator

Four 500-Gallon Drums with Pump and Separator



CB

Reference: FM 4-20.137/TO 13C7-1-19

Weight	24,408 pounds
Height	89 inches
Width	108 inches
Overall Length	363 inches
Overhang: Front (Tongue of Pump)	9 inches
Rear (EFTC)	18 inches
CB (from front edge of platform)	172 inches

Accompanying Load: None

Aircraft: C-130, C-141, C-5, and C-17

Extraction System: EFTC

Extraction Parachute C-130: 28-Foot

Extraction Parachute C-141: 28-Foot

Extraction Parachute C-5: 28-Foot

Extraction Parachute C-17: 28-Foot

Platform: 28-Foot Type V

Cargo Parachutes: Five G-11C

Figure 3-71. Four 500-Gallon Drums with Pump and Separator

Five 500-Gallon Drums with Pump and Separator



CB

Reference: FM 4-20.137/TO 13C7-1-19

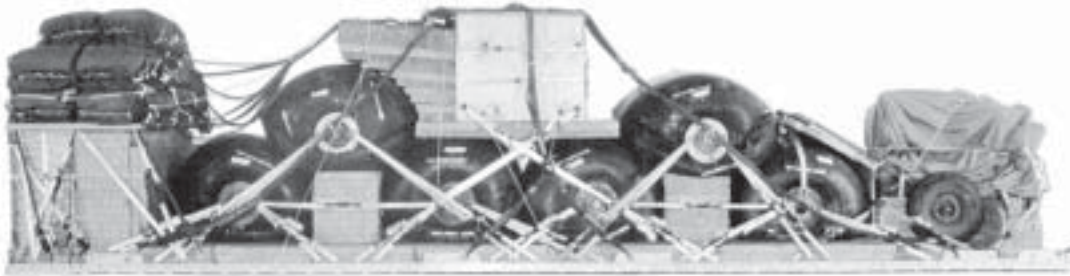
Weight	28,855 pounds
Height	75 inches
Width	108 inches
Overall Length	411 inches
Overhang: Front (Tongue of Pump)	9 inches
Rear (EFTC)	18 inches
CB (from front edge of platform)	198 inches

Accompanying Load: None

- Aircraft: C-130, C-141, C-5, and C-17
- Extraction System: EFTC
- Extraction Parachute C-130: 28-Foot
- Extraction Parachute C-141: 28-Foot
- Extraction Parachute C-5: 28-Foot
- Extraction Parachute C-17: 28-Foot
- Platform: 32-Foot Type V
- Cargo Parachutes: Six G-11C

Figure 3-72. Five 500-Gallon Drums with Pump and Separator

Six 500-Gallon Drums with Pump and Separator



CB

Reference: FM 4-20.137/TO 13C7-1-191

Weight	32,730 pounds
Height	97 inches
Width	108 inches
Overall Length	411 inches
Overhang: Front (Tongue of Pump)	9 inches
Rear (EFTC)	18 inches
CB (from front edge of platform)	201 inches

Accompanying Load: None

Aircraft: C-130,C141,C-5, and C-17

Extraction System: EFTC

Extraction Parachute C-130: Two 28-Foot

Extraction Parachute C-141: Two 28-Foot

Extraction Parachute C-5: Two 28-Foot

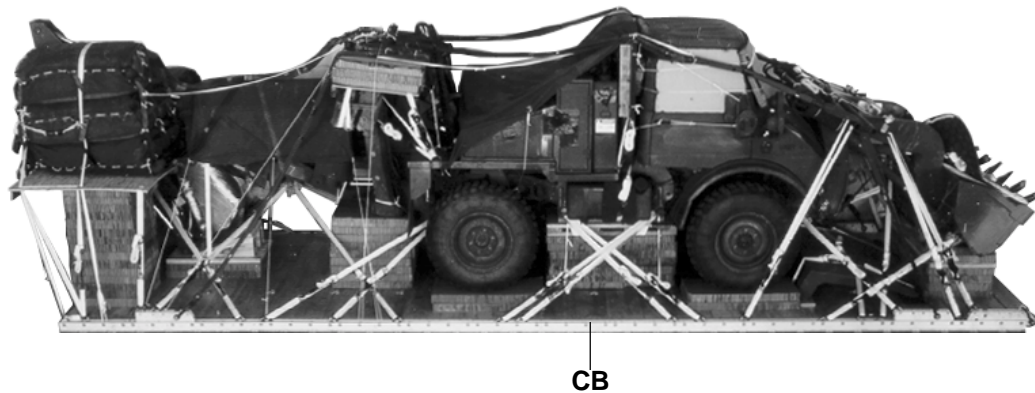
Extraction Parachute C-17: Two 28-Foot

Platform: 32-Foot Type V

Cargo Parachutes: Seven G-11C

Figure 3-73. Six 500-Gallon Drums with Pump and Separator

Small Emplacement Excavator (SEE)



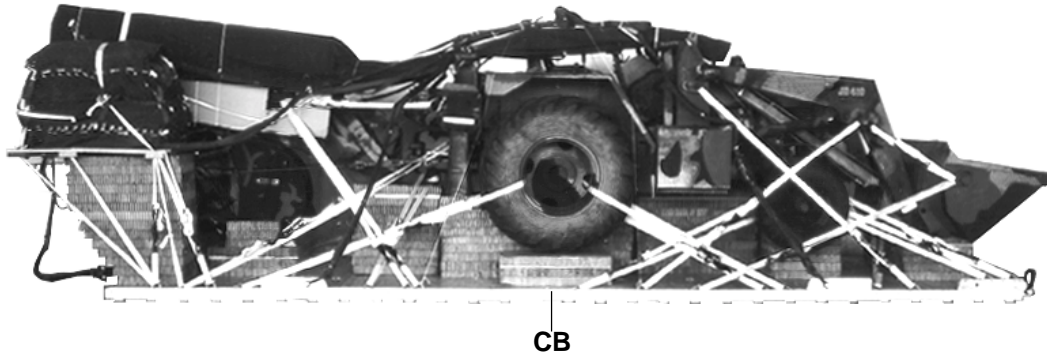
Reference: FM 10-539/TO 13C7-1-17

Weight	21,624 pounds
Height	99 3/4 inches
Width	108 inches
Overall Length	364 inches
Overhang: Front (Front of vehicle)	6 inches
Overhang: Rear (Rear of vehicle).....	22 inches
CB (from front edge of platform)	165 inches

Accompanying Load: None
 Aircraft: C-130, C-141, C-5, and C-17
 Extraction System: EFTC
 Extraction Parachute C-130: 28-Foot
 Extraction Parachute C-141: 28-Foot
 Extraction Parachute C-5: 28-Foot
 Extraction Parachute C-17: 28-Foot
 Platform: 28-Foot Type V
 Cargo Parachutes: Five G-11C

Figure 3-74. Small Emplacement Excavator (SEE)

JD410 Tractor



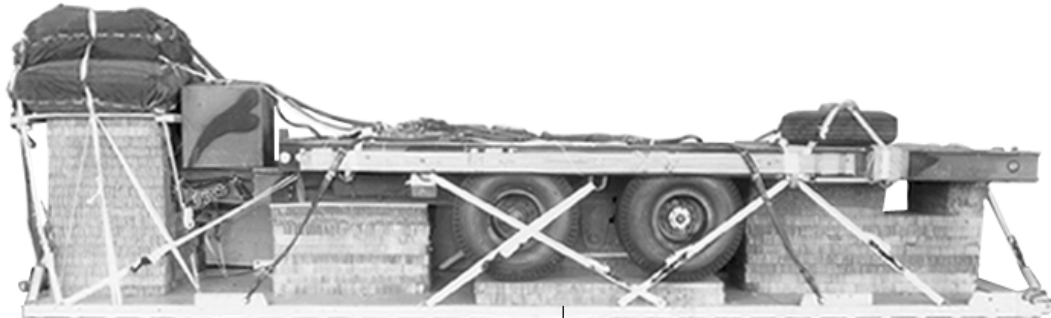
Reference: FM 10-539/TO 13C7-1-17

Weight	19,690 pounds
Height	95 inches
Width	108 inches
Overall Length	376 inches
Overhang: Front (Front of vehicle)	6 inches
Overhang: Rear (Rear of vehicle)	34 inches
CB (from front edge of platform)	149 inches

Accompanying Load: None
 Aircraft: C-130, C-141, C-5, and C-17
 Extraction System: EFTC
 Extraction Parachute C-130: 28-Foot
 Extraction Parachute C-141: 28-Foot
 Extraction Parachute C-5: 28-Foot
 Extraction Parachute C-17: 28-Foot
 Platform: 28-Foot Type V
 Cargo Parachutes: Four G-11B

Figure 3-75. JD410 Tractor

Fifteen-Ton Tilt Bed Trailer



CB

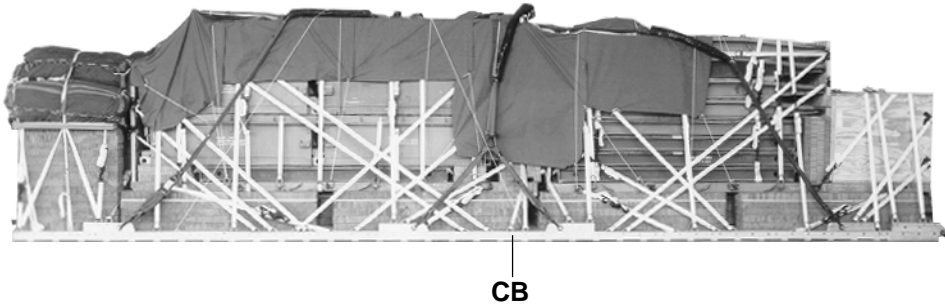
Reference: FM 10-540/TO 13C7-3-381

Weight	12,350 pounds
Height	90 inches
Width	108 inches
Overall Length	306 inches
Overhang: Front	0 inches
Overhang: Rear (EFTC)	18 inches
CB (from front edge of platform)	146 inches

Accompanying Load: None
 Aircraft: C-130, C-141, C-5, and C-17
 Extraction System: EFTC
 Extraction Parachute C-130: 22-Foot
 Extraction Parachute C-141: 22-Foot
 Extraction Parachute C-5: 22-Foot
 Extraction Parachute C-17: 22-Foot
 Platform: 24-Foot Type V
 Cargo Parachutes: Three G-11B

Figure 3-76. Fifteen-Ton Tilt Bed Trailer

Five-Bay, Single-Story, Medium Girder (Fixed) Bridge



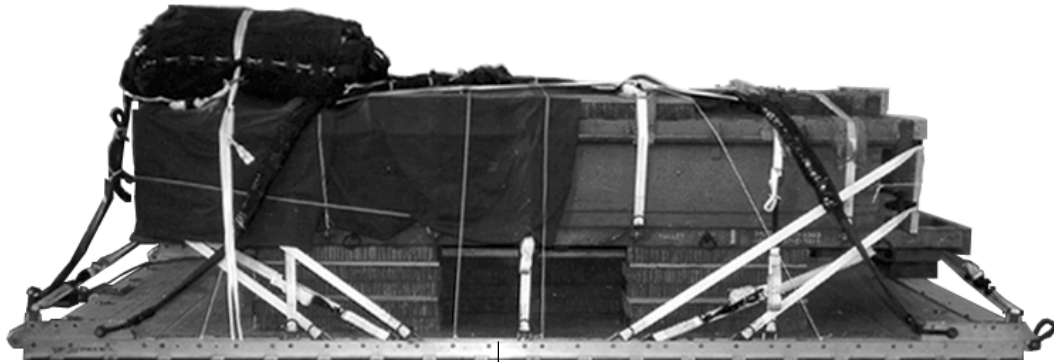
Reference: FM 10-541/TO 13C7-11-21

Weight	22,480 pounds
Height	97 inches
Width	108 inches
Overall Length	402 inches
Overhang: Front	0 inches
Overhang: Rear (EFTC)	18 inches
CB (from front edge of platform)	186 inches

Accompanying Load: None
Aircraft: C-130, C-141, C-5, and C-17
Extraction System: EFTC
Extraction Parachute C-130: 28-Foot
Extraction Parachute C-141: 28-Foot
Extraction Parachute C-5: 28-Foot
Extraction Parachute C-17: 28-Foot
Platform: 32-Foot Type V
Cargo Parachutes: Five G-11C

Figure 3-77. Five-Bay, Single-Story, Medium Girder (Fixed) Bridge

Two-Bay Components for the Seven-Bay, Single-Story, Medium Girder (Fixed) Bridge



CB

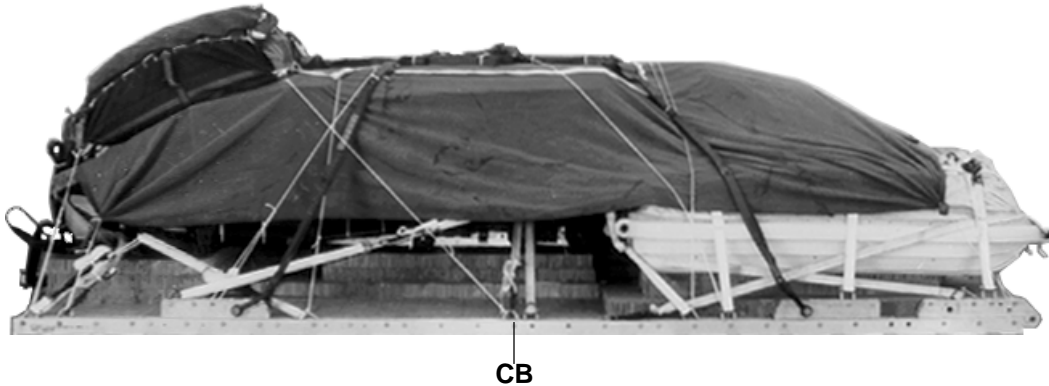
Reference: FM 10-541/TO 13C7-11-21

Weight	6,310 pounds
Height	67 1/2 inches
Width	108 inches
Overall Length	210 inches
Overhang: Front	0 inches
Overhang: Rear (EFTC)	18 inches
CB (from front edge of platform)	101 inches

Accompanying Load: None
 Aircraft: C-130, C-141, C-5, and C-17
 Extraction System: EFTC
 Extraction Parachute C-130: 15-Foot
 Extraction Parachute C-141: 15-Foot
 Extraction Parachute C-5: 15-Foot
 Extraction Parachute C-17: 15-Foot
 Platform: 16-Foot Type V
 Cargo Parachutes: Two G-11B

Figure 3-78. Two-Bay Components for the Seven-Bay, Single-Story, Medium Girder (Fixed) Bridge

Mobile Over Snow Transport (MOST)



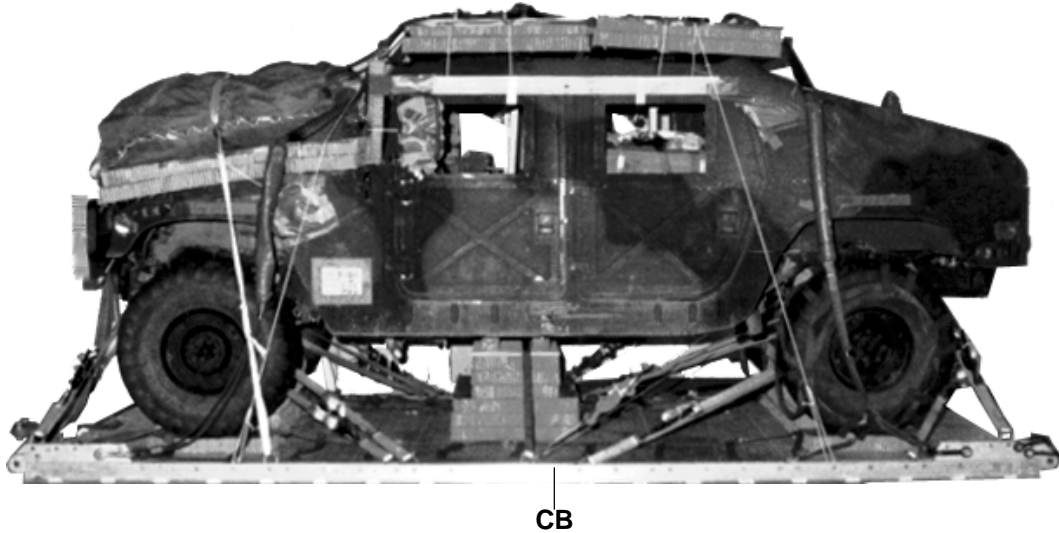
Reference: FM 10-542/TO 13C7-51-21/NAVSEA SS400-AD-MMO-010

Weight	4,460 pounds
Height	66 inches
Width	108 inches
Overall Length	220 inches
Overhang: Front (Mobile)	10 inches
Overhang: Rear (EFTC)	18 inches
CB (from front edge of platform)	100 inches

Accompanying Load: None
Aircraft: C-130, C-141, C-5, and C-17
Extraction System: EFTC
Extraction Parachute C-130: 15-Foot
Extraction Parachute C-141: 15-Foot
Extraction Parachute C-5: 15-Foot
Extraction Parachute C-17: 15-Foot
Platform: 16-Foot Type V
Cargo Parachutes: One G-11B

Figure 3-79. Mobile Over Snow Transport (MOST)

M1025 or M1026 Armanent Carrier with Technical Defense Alert Radar System (TDARS)



Reference: FM 10-543/TO 13C7-2-1011

Weight	9,650 pounds
Height	91 inches
Width	108 inches
Overall Length	210 inches
Overhang: Front	0 inches
Overhang: Rear (EFTC)	18 inches
CB (from front edge of platform)	93 inches

Accompanying Load: TDRS plus one box of 105-mm ammunition rigged in back of truck weighs 845 pounds.

Aircraft: C-130, C-141, C-5, and C-17

Extraction System: EFTC

Extraction Parachute C-130: 22-Foot

Extraction Parachute C-141: 22-Foot

Extraction Parachute C-5: 22-Foot

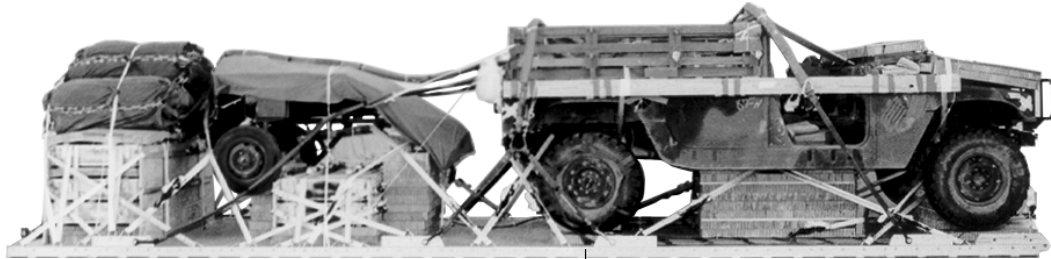
Extraction Parachute C-17: 22-Foot

Platform: 16-Foot Type V

Cargo Parachutes: Two G-11B

Figure 3-80. M1025 or M1026 Armanent Carrier with Technical Defense Alert Radar System (TDARS)

120-mm Mortar and 1 1/4-Ton Truck



CB

Reference: FM 10-500-45/TO 13C7-10-201

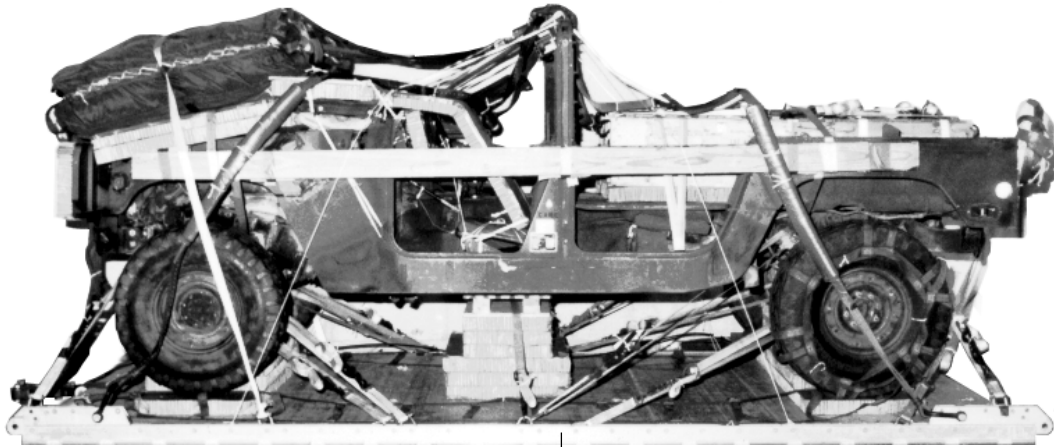
Weight	14,140 pounds
Height	87 inches
Width	108 inches
Overall Length	365 inches
Overhang: Front (Front of truck)	11 inches
Overhang: Rear (EFTC)	18 inches
CB (from front edge of platform)	164 inches

Accompanying Load: Accompanying load weighing 2,700 pounds is rigged on platform and equipment weighing up to 1,800 pounds is rigged in truck.

- Aircraft: C-130, C-141, C-5, and C-17**
- Extraction System: EFTC**
- Extraction Parachute C-130: 22-Foot**
- Extraction Parachute C-141: 22-Foot**
- Extraction Parachute C-5: 22-Foot**
- Extraction Parachute C-17: 22-Foot**
- Platform: 28-Foot Type V**
- Cargo Parachutes: Three G-11B**

Figure 3-81. 120-mm Mortar and 1 1/4-Ton Truck

1 1/4-Ton HMMWV Truck with 120-mm Mortar



CB

Reference: FM 10-500-45/TO 13C7-10-201

Weight	9,950 pounds
Height	86 inches
Width	108 inches
Overall Length	210 inches
Overhang: Front	0 inches
Overhang: Rear (EFTC)	18 inches
CB (from front edge of platform)	95 inches

Accompanying Load: Accompanying load of 120-mm mortar ammunition rigged in back of truck may not exceed 2,000 pounds.

Aircraft: C-130, C-141, C-5, and C-17

Extraction System: EFTC

Extraction Parachute C-130: 22-Foot

Extraction Parachute C-141: 22-Foot

Extraction Parachute C-5: 22-Foot

Extraction Parachute C-17: 22-Foot

Platform: 16-Foot Type V

Cargo Parachutes: Two G-11B

Figure 3-82. 1 1/4-Ton HMMWV Truck with 120-mm Mortar

Koehring 7 1/2-Ton Crane



CB

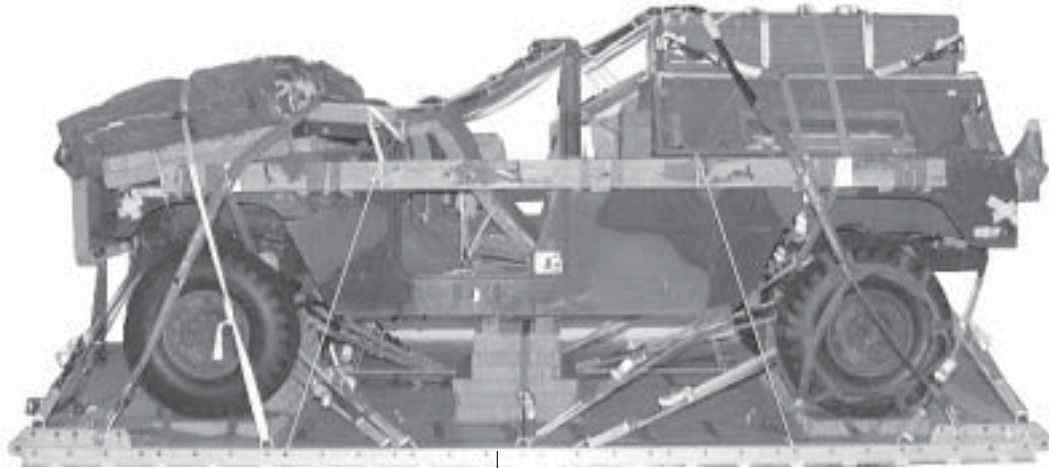
Reference: FM 10-548/TO 13C7-24-21

Weight	30,368 pounds
Height	100 inches
Width	108 inches
Overall Length	347 inches
Overhang: Front (Front of crane)	22 inches
Overhang: Rear (Boom)	37 inches
CB (from front edge of platform)	123 inches

Accompanying Load: None
Aircraft: C-130,C141,C-5, and C-17
Extraction System: EFTC
Extraction Parachute C-130: Two 28-Foot
Extraction Parachute C-141: Two 28-Foot
Extraction Parachute C-5: Two 28-Foot
Extraction Parachute C-17: Two 28-Foot
Platform: 24-Foot Type V
Cargo Parachutes: Seven G-11C

Figure 3-83. Koehring 7 1/2-Ton Crane

M998 1 1/4-Ton Truck with Six Stinger Weapon Systems



CB

Reference: FM 10-550/TO 13C7-22-71

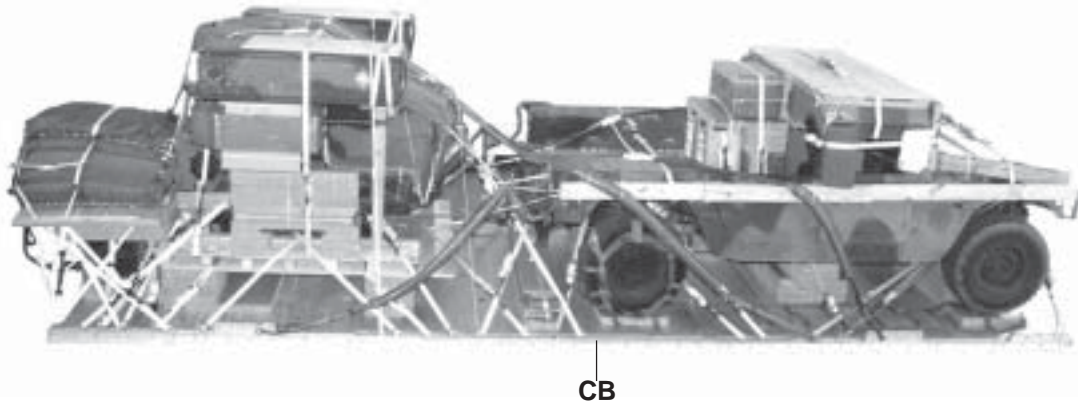
Weight	8,830 pounds
Height	92 inches
Width	108 inches
Overall Length	210 inches
Overhang: Front	0 inches
Rear (EFTC)	18 inches
CB (from front edge of platform)	95 inches

Accompanying Load: Accompanying load rigged in truck weighs 1,180 pounds.

- Aircraft: C-130, C-141, C-5, and C-17
- Extraction System: EFTC
- Extraction Parachute C-130: 22-Foot
- Extraction Parachute C-141: 22-Foot
- Extraction Parachute C-5: 22-Foot
- Extraction Parachute C-17: 22-Foot
- Platform: 16-Foot Type V
- Cargo Parachutes: Two G-11B

Figure 3-84. M998 1 1/4-Ton Truck with Six Stinger Weapon Systems

Avenger Air Defense Weapons System with Environmental Control Unit (ECU) and M1097A2 Truck



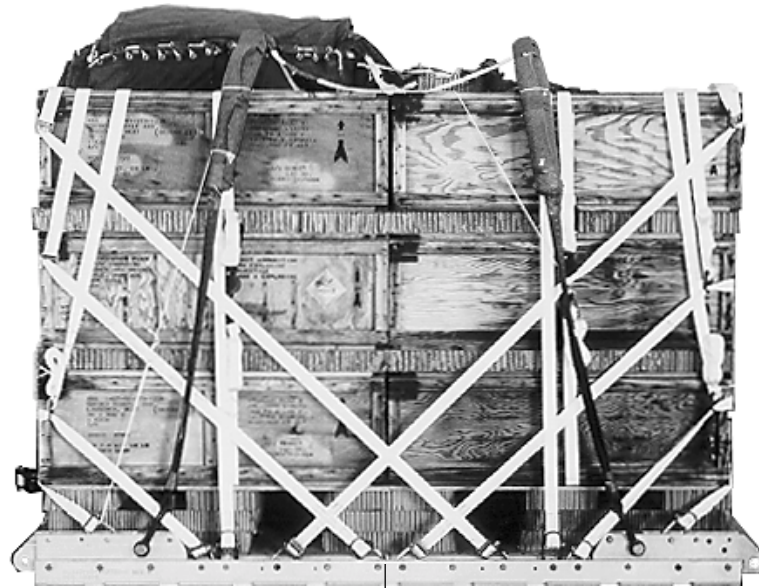
Reference: FM 10-550/TO 13C7-22-71

Weight	14,960 pounds
Height	95 inches
Width	108 inches
Overall Length	356 inches
Overhang: Front (Brushguard)	2 inches
Rear (EFTC)	18 inches
CB (from front edge of platform)	167 inches

Accompanying Load: None
 Aircraft: C-130, C-141, C-5, and C-17
 Extraction System: EFTC
 Extraction Parachute C-130: 22-Foot
 Extraction Parachute C-141: 22-Foot
 Extraction Parachute C-5: 22-Foot
 Extraction Parachute C-17: 22-Foot
 Platform: 28-Foot Type V
 Cargo Parachutes: Three G-11B

Figure 3-85. Avenger Air Defense Weapons System with Environmental Control Unit (ECU) and M1097A2 Truck

Thirty-six Dragon or Dragon II Missiles in One-Round Containers



CB

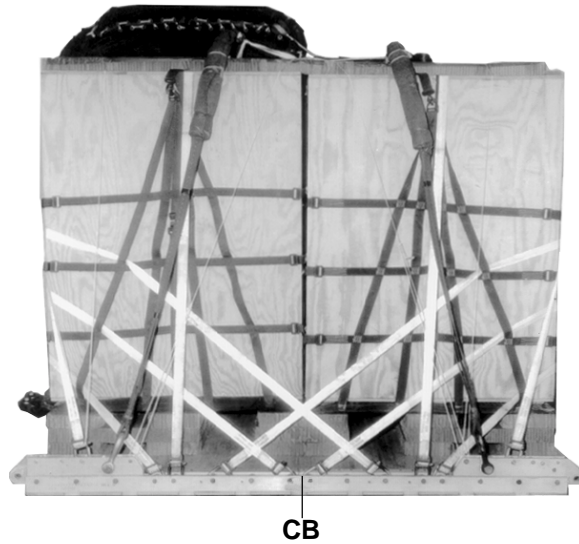
Reference: FM 10-552/TO 13C7-22-61

Weight	3,960 pounds
Height	83 inches
Width	108 inches
Overall Length	114 inches
Overhang: Front	0 inches
Overhang: Rear (EFTC)	18 inches
CB (from front edge of platform)	50 inches

Accompanying Load: None
 Aircraft: C-130, C-141, C-5, and C-17
 Extraction System: EFTC
 Extraction Parachute C-130: 15-Foot
 Extraction Parachute C-141: 15-Foot
 Extraction Parachute C-5: 15-Foot
 Extraction Parachute C-17: 15-Foot
 Platform: 8-Foot Type V
 Cargo Parachutes: One G-11B

Figure 3-86. Thirty-six Dragon or Dragon II Missiles in One-Round Containers

Four Dragon or Dragon II Missiles in 15-Round Containers



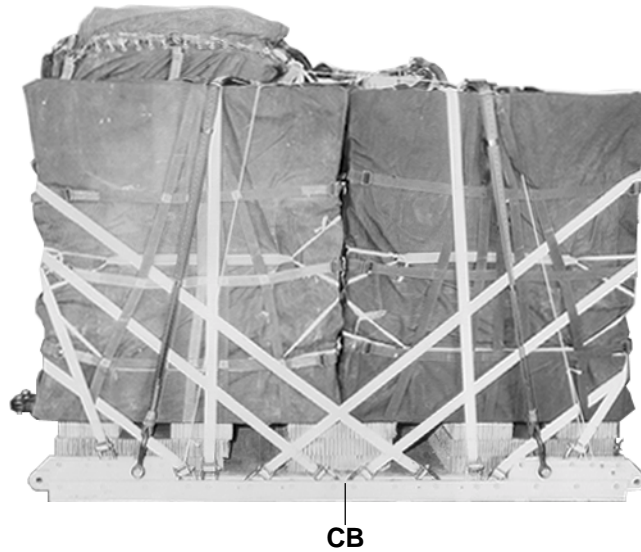
Reference: FM 10-552/TO 13C7-22-61

Weight	4,400 pounds
Height	83 inches
Width	108 inches
Overall Length	115 inches
Overhang: Front (Container)	1 inches
Overhang: Rear (EFTC)	18 inches
CB (from front edge of platform)	51 inches

Accompanying Load: None
Aircraft: C-130, C-141, C-5, and C-17
Extraction System: EFTC
Extraction Parachute C-130: 15-Foot
Extraction Parachute C-141: 15-Foot
Extraction Parachute C-5: 15-Foot
Extraction Parachute C-17: 15-Foot
Platform: 8-Foot Type V
Cargo Parachutes: One G-11B

Figure 3-87. Four Dragon or Dragon II Missiles in 15-Round Containers

Four A-22 Cargo Bags with Dragon or Dragon II Missiles in One-Round Containers



Reference: FM 10-552/TO 13C7-22-61

Weight	4,040 pounds
Height	83 1/2 inches
Width	108 inches
Overall Length	115 inches
Overhang: Front (Container)	1 inches
Overhang: Rear (EFTC)	18 inches
CB (from front edge of platform)	50 inches

Accompanying Load: None
 Aircraft: C-130, C-141, C-5, and C-17
 Extraction System: EFTC
 Extraction Parachute C-130: 15-Foot
 Extraction Parachute C-141: 15-Foot
 Extraction Parachute C-5: 15-Foot
 Extraction Parachute C-17: 15-Foot
 Platform: 8-Foot Type V
 Cargo Parachutes: One G-11B

Figure 3-88. Four A-22 Cargo Bags with Dragon or Dragon II Missiles in One-Round Containers

Four Dragon or Dragon II Missiles in 15-Round Containers Rigged in Four A-22 Cargo Slings



CB

Reference: FM 10-552/TO 13C7-22-61

Weight	4,440 pounds
Height	83 inches
Width	108 inches
Overall Length	114 inches
Overhang: Front	0 inches
Overhang: Rear (EFTC)	18 inches
CB (from front edge of platform)	51 inches

Accompanying Load: None

Aircraft: C-130, C-141, C-5, and C-17

Extraction System: EFTC

Extraction Parachute C-130: 15-Foot

Extraction Parachute C-141: 15-Foot

Extraction Parachute C-5: 15-Foot

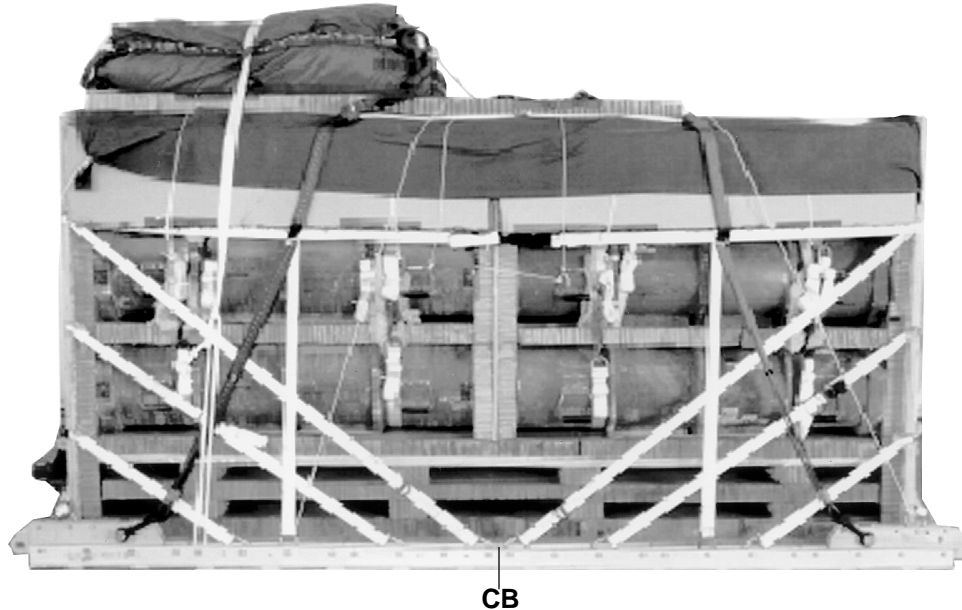
Extraction Parachute C-17: 15-Foot

Platform: 8-Foot Type V

Cargo Parachutes: One G-11B

Figure 3-89. Four Dragon or Dragon II Missiles in 15-Round Containers Rigged in Four A-22 Cargo Slings

Thirty-six Javelin Rounds as a Mass Supply Load



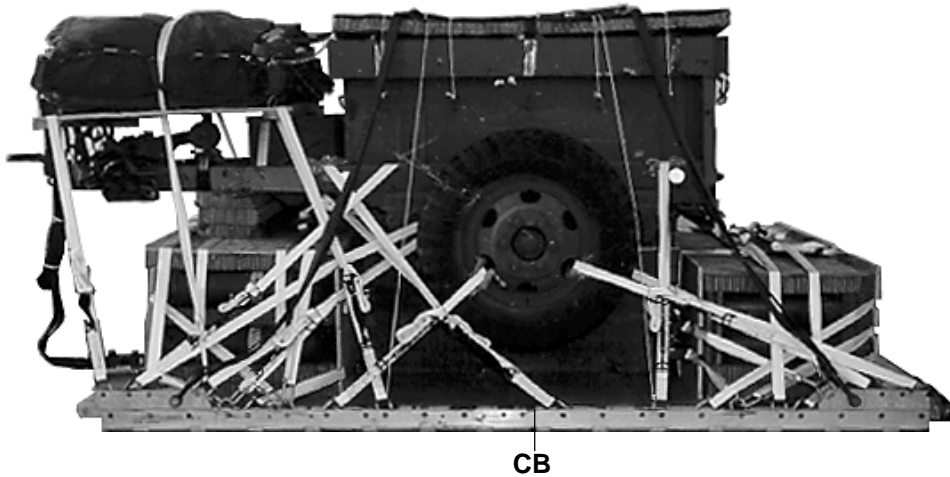
Reference: FM 10-552/TO 13C7-22-61

Weight	5,976 pounds
Height	86 inches
Width	108 inches
Overall Length	162 inches
Overhang: Front	0 inches
Overhang: Rear (EFTC)	18 inches
CB (from front edge of platform)	76 inches

Accompanying Load: None
 Aircraft: C-130, C-141, C-5, and C-17
 Extraction System: EFTC
 Extraction Parachute C-130: 15-Foot
 Extraction Parachute C-141: 15-Foot
 Extraction Parachute C-5: 15-Foot
 Extraction Parachute C-17: 15-Foot
 Platform: 12-Foot Type V
 Cargo Parachutes: Two G-11B

Figure 3-92. Thirty-six Javelin Rounds as a Mass Supply Load

1 1/2-Ton Ammunition Trailer



Reference: FM 10-555/TO 13C7-3-401

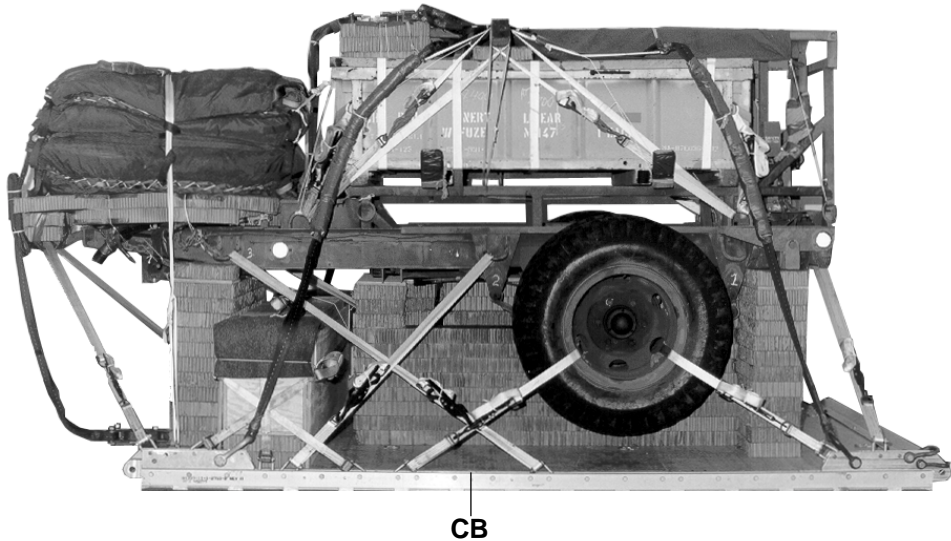
Weight	8,200 pounds
Height	81 inches
Width	108 inches
Overall Length	176 inches
Overhang: Front	0 inches
Overhang: Rear (Lunette)	32 inches
CB (from front edge of platform)	71 inches

Accompanying Load: Accompanying load in trailer may weigh a maximum of 3,000 pounds. Total weight of accompanying load in trailer and on platform must not exceed 5,090 pounds.

- Aircraft: C-130, C-141, C-5, and C-17
- Extraction System: EFTC
- Extraction Parachute C-130: 22-Foot
- Extraction Parachute C-141: 22-Foot
- Extraction Parachute C-5: 22-Foot
- Extraction Parachute C-17: 22-Foot
- Platform: 12-Foot Type V
- Cargo Parachutes: Two G-11B

Figure 3-91. 1 1/2-Ton Ammunition Trailer

Mine Clearing Line Charge (MCLIC) on 2 1/2-Ton Trailer



Reference: FM 10-555/TO 13C7-3-401

Weight	8,400 pounds
Height	94 1/2 inches
Width	108 inches
Overall Length	178 inches
Overhang: Front	0 inches
Overhang: Rear (Lunette)	34 inches
CB (from front edge of platform)	77 inches

Accompanying Load: Rocket projectile weighing 270 pounds is rigged on platform.

Aircraft: C-130, C-141, C-5, and C-17

Extraction System: EFTC

Extraction Parachute C-130: 22-Foot

Extraction Parachute C-141: 22-Foot

Extraction Parachute C-5: 22-Foot

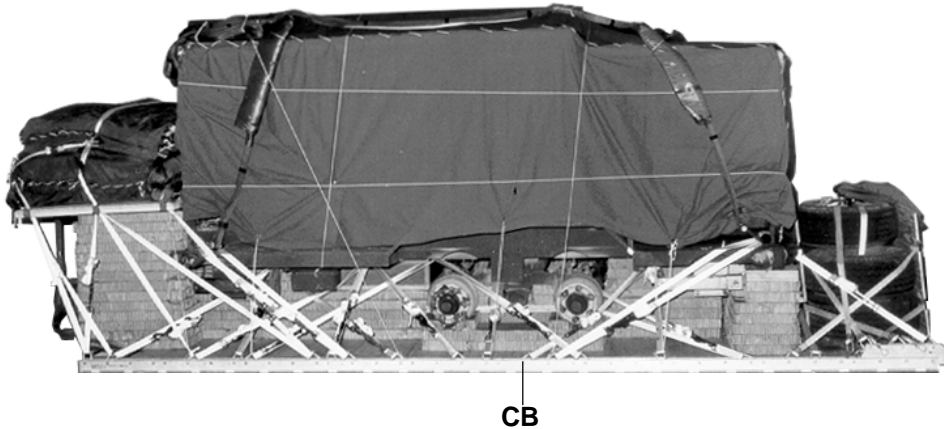
Extraction Parachute C-17: 22-Foot

Platform: 12-Foot Type V

Cargo Parachutes: Two G-11B

Figure 3-92. Mine Clearing Line Charge (MCLIC) on 2 1/2-Ton Trailer

600-GPH Reverse Osmosis Water Purification Unit (ROWPU)



Reference: FM 10-558/TO 13C7-7-61

Weight	21,780 pounds
Height	101 inches
Width	108 inches
Overall Length	275 inches
Overhang: Front	0 inches
Overhang: Rear (Drawbar)	35 inches
CB (from front edge of platform)	130 inches

Accompanying Load: None
Aircraft: C-130,C141,C-5, and C-17
Extraction System: EFTC
Extraction Parachute C-130: 28-Foot
Extraction Parachute C-141: 28-Foot
Extraction Parachute C-5: 28-Foot
Extraction Parachute C-17: 28-Foot
Platform: 20-Foot Type V
Cargo Parachutes: Five G-11C

Figure 3-93. 600-GPH Reverse Osmosis Water Purification Unit (ROWPU)

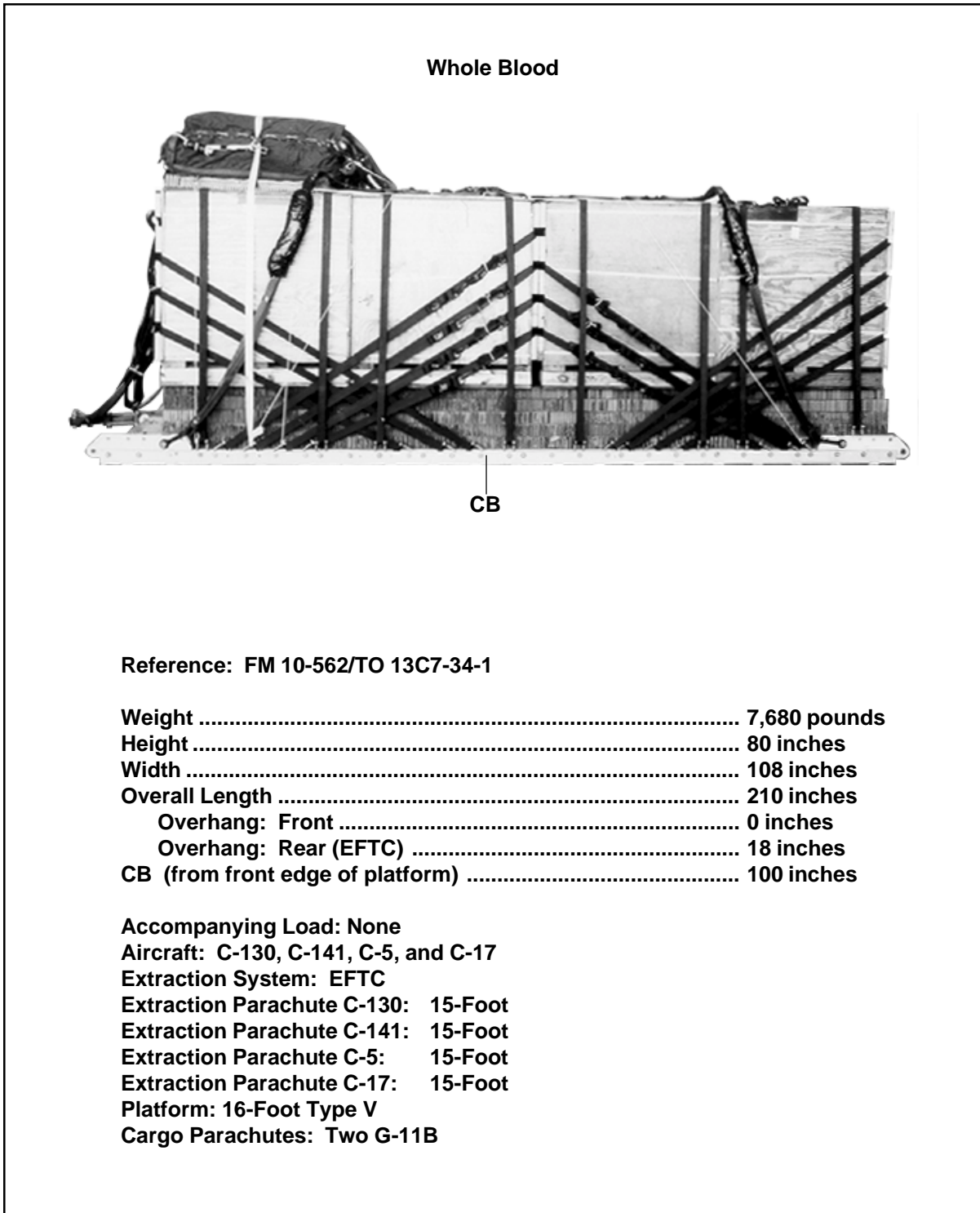
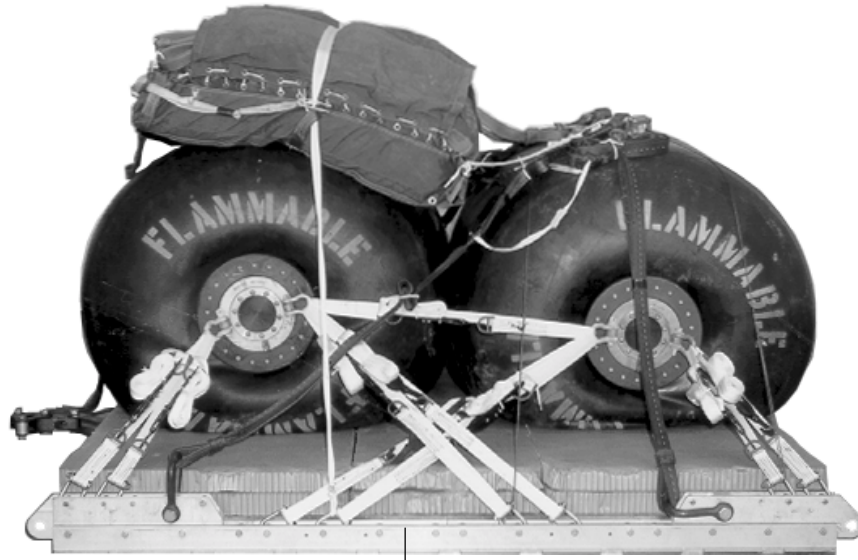


Figure 3-94. Whole Blood

Two Drums without Pumping Assembly



CB

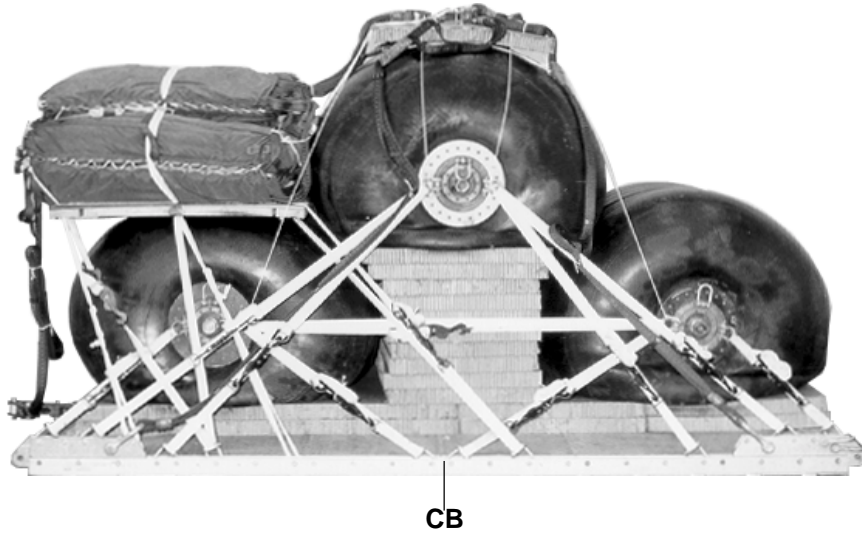
Reference: FM 10-564/TO 13C7-37-1

Weight	7,320 pounds
Height	70 inches
Width	108 inches
Overall Length	114 inches
Overhang: Front	0 inches
Overhang: Rear (EFTC)	18 inches
CB (from front edge of platform)	54 inches

Accompanying Load: None
 Aircraft: C-130, C-141, C-5, and C-17
 Extraction System: EFTC
 Extraction Parachute C-130: 15-Foot
 Extraction Parachute C-141: 15-Foot
 Extraction Parachute C-5: 15-Foot
 Extraction Parachute C-17: 15-Foot
 Platform: 8-Foot Type V
 Cargo Parachutes: Two G-11B

Figure 3-95. Two Drums without Pumping Assembly

Three Drums without Pumping Assembly



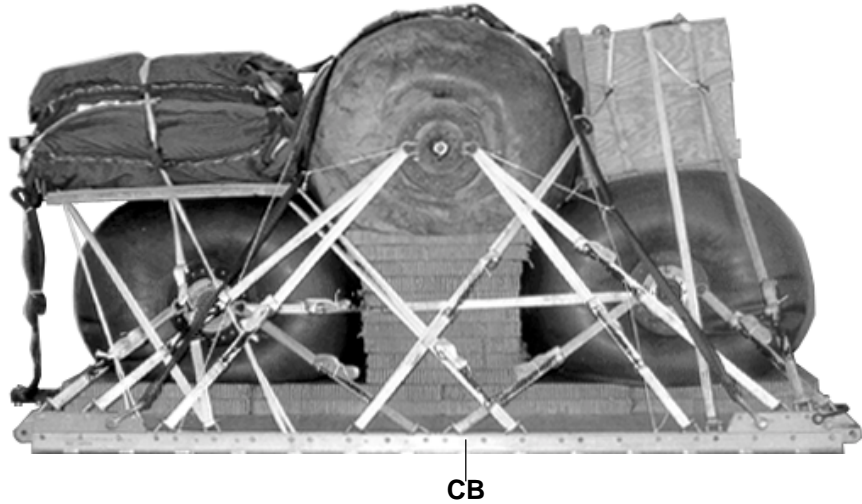
Reference: FM 10-564/TO 13C7-37-1

Weight	10,960 pounds
Height	86 1/2 inches
Width	108 inches
Overall Length	162 inches
Overhang: Front	0 inches
Overhang: Rear (EFTC)	18 inches
CB (from front edge of platform)	75 inches

Accompanying Load: None
Aircraft: C-130, C-141, C-5, and C-17
Extraction System: EFTC
Extraction Parachute C-130: 22-Foot
Extraction Parachute C-141: 22-Foot
Extraction Parachute C-5: 22-Foot
Extraction Parachute C-17: 22-Foot
Platform: 12-Foot Type V
Cargo Parachutes: Three G-11B

Figure 3-96. Three Drums without Pumping Assembly

Three Drums with Pumping Assembly



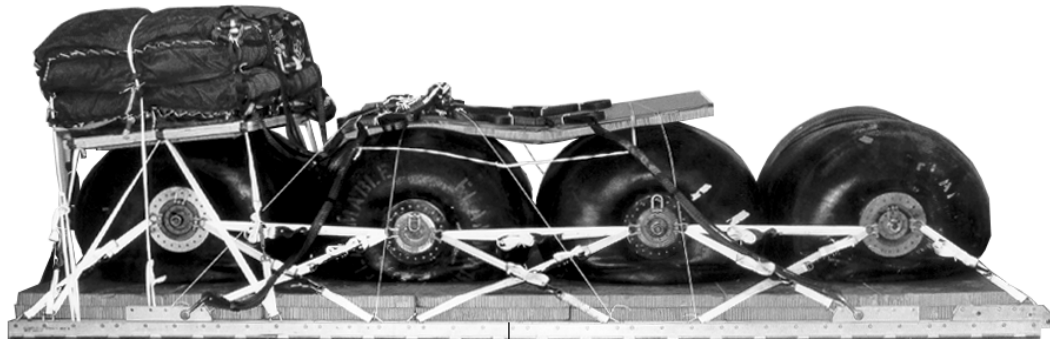
Reference: FM 10-564/TO 13C7-37-1

Weight	11,200 pounds
Height	86 1/2 inches
Width	108 inches
Overall Length	162 inches
Overhang: Front	0 inches
Overhang: Rear (EFTC)	18 inches
CB (from front edge of platform)	74 inches

Accompanying Load: None
Aircraft: C-130, C-141, C-5, and C-17
Extraction System: EFTC
Extraction Parachute C-130: 22-Foot
Extraction Parachute C-141: 22-Foot
Extraction Parachute C-5: 22-Foot
Extraction Parachute C-17: 22-Foot
Platform: 12-Foot Type V
Cargo Parachutes: Three G-11B

Figure 3-97. Three Drums with Pumping Assembly

Four Drums without Pumping Assembly



CB

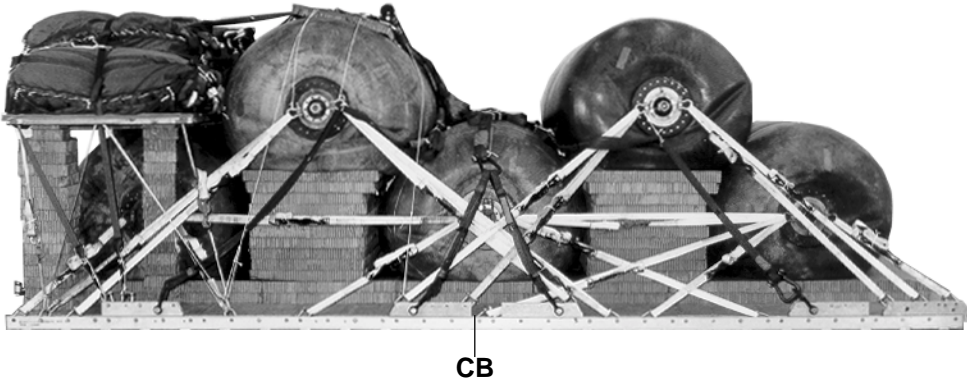
Reference: FM 10-564/TO 13C7-37-1

Weight	14,426 pounds
Height	90 1/2 inches
Width	108 inches
Overall Length	258 inches
Overhang: Front	0 inches
Overhang: Rear (EFTC)	18 inches
CB (from front edge of platform)	125 inches

Accompanying Load: None
 Aircraft: C-130, C-141, C-5, and C-17
 Extraction System: EFTC
 Extraction Parachute C-130: 22-Foot
 Extraction Parachute C-141: 22-Foot
 Extraction Parachute C-5: 22-Foot
 Extraction Parachute C-17: 22-Foot
 Platform: 20-Foot Type V
 Cargo Parachutes: Four G-11B

Figure 3-98. Four Drums without Pumping Assembly

Five Drums without Pumping Assembly



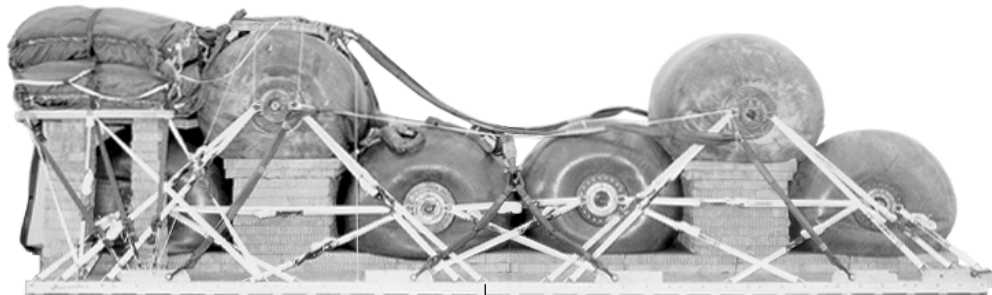
Reference: FM 10-564/TO 13C7-37-1

Weight	18,492 pounds
Height	84 3/4 inches
Width	108 inches
Overall Length	258 inches
Overhang: Front	0 inches
Overhang: Rear (EFTC)	18 inches
CB (from front edge of platform)	126 inches

Accompanying Load: None
Aircraft: C-130, C-141, C-5, and C-17
Extraction System: EFTC
Extraction Parachute C-130: 28-Foot
Extraction Parachute C-141: 28-Foot
Extraction Parachute C-5: 28-Foot
Extraction Parachute C-17: 28-Foot
Platform: 20-Foot Type V
Cargo Parachutes: Five G-11C

Figure 3-99. Five Drums without Pumping Assembly

Six Drums without Pumping Assembly



CB

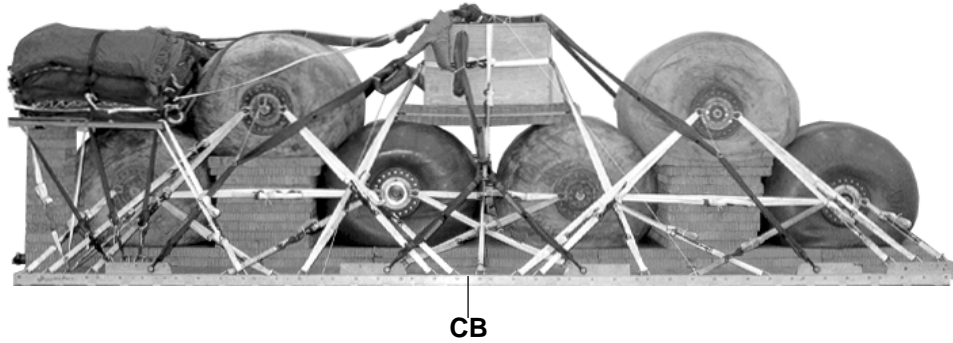
Reference: FM 10-564/TO 13C7-37-1

Weight	22,158 pounds
Height	85 inches
Width	108 inches
Overall Length	306 inches
Overhang: Front	0 inches
Overhang: Rear (EFTC)	18 inches
CB (from front edge of platform)	153 inches

Accompanying Load: None
 Aircraft: C-130, C-141, C-5, and C-17
 Extraction System: EFTC
 Extraction Parachute C-130: 28-Foot
 Extraction Parachute C-141: 28-Foot
 Extraction Parachute C-5: 28-Foot
 Extraction Parachute C-17: 28-Foot
 Platform: 24-Foot Type V
 Cargo Parachutes: Six G-11C

Figure 3-100. Six Drums without Pumping Assembly

Six Drums with Pumping Assembly



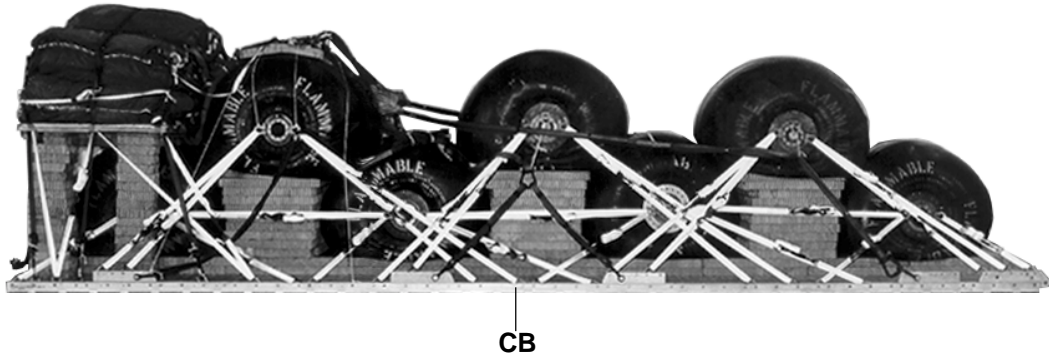
Reference: FM 10-564/TO 13C7-37-1

Weight	22,548 pounds
Height	92 inches
Width	108 inches
Overall Length	306 inches
Overhang: Front	0 inches
Overhang: Rear (EFTC)	18 inches
CB (from front edge of platform)	150 inches

Accompanying Load: None
Aircraft: C-130, C-141, C-5, and C-17
Extraction System: EFTC
Extraction Parachute C-130: 28-Foot
Extraction Parachute C-141: 28-Foot
Extraction Parachute C-5: 28-Foot
Extraction Parachute C-17: 28-Foot
Platform: 24-Foot Type V
Cargo Parachutes: Six G-11C

Figure 3-101. Six Drums with Pumping Assembly

Seven Drums without Pumping Assembly



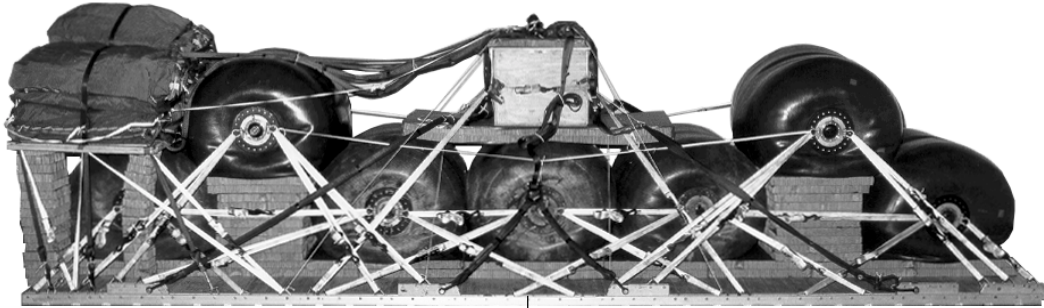
Reference: FM 10-564/TO 13C7-37-1

Weight	24,781 pounds
Height	90 inches
Width	108 inches
Overall Length	354 inches
Overhang: Front	0 inches
Overhang: Rear (EFTC)	18 inches
CB (from front edge of platform)	176 inches

Accompanying Load: None
 Aircraft: C-130, C-141, C-5, and C-17
 Extraction System: EFTC
 Extraction Parachute C-130: 28-Foot
 Extraction Parachute C-141: 28-Foot
 Extraction Parachute C-5: 28-Foot
 Extraction Parachute C-17: 28-Foot
 Platform: 28-Foot Type V
 Cargo Parachutes: Seven G-11C

Figure 3-102. Seven Drums without Pumping Assembly

Seven Drums with Pumping Assembly



CB

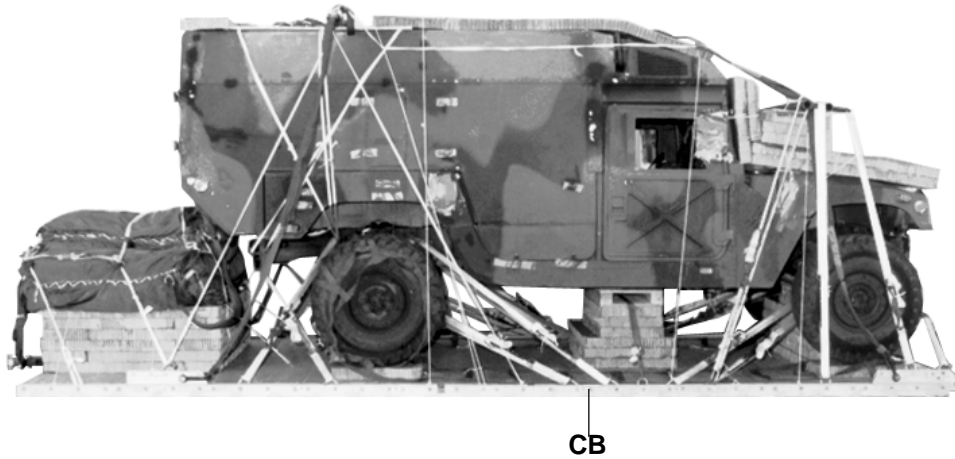
Reference: FM 10-564/TO 13C7-37-1

Weight	25,081 pounds
Height	90 inches
Width	108 inches
Overall Length	354 inches
Overhang: Front	0 inches
Overhang: Rear (EFTC)	18 inches
CB (from front edge of platform)	176 inches

Accompanying Load: None
Aircraft: C-130,C141,C-5, and C-17
Extraction System: EFTC
Extraction Parachute C-130: 28-Foot
Extraction Parachute C-141: 28-Foot
Extraction Parachute C-5: 28-Foot
Extraction Parachute C-17: 28-Foot
Platform: 28-Foot Type V
Cargo Parachutes: Seven G-11C

Figure 3-103. Seven Drums with Pumping Assembly

M996 2-Litter Armored Ambulance



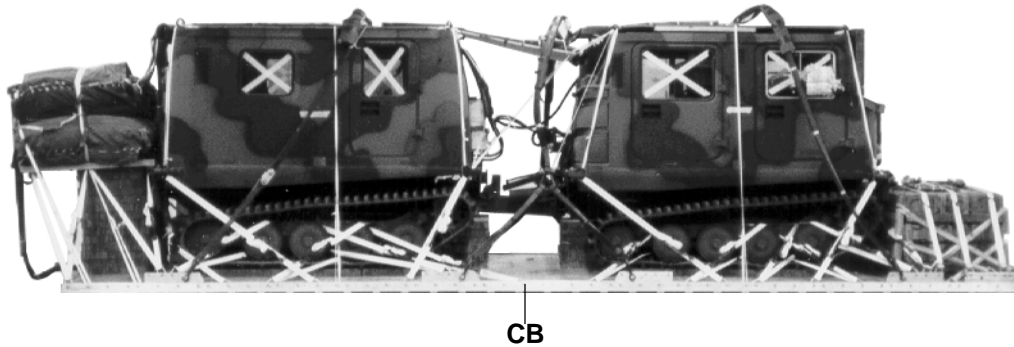
Reference: FM 10-500-66/TO 13C7-25-71

Weight	11,680 pounds
Height	100 inches
Width	108 inches
Overall Length	258 inches
Overhang: Front	0 inches
Overhang: Rear (EFTC)	18 inches
CB (from front edge of platform)	110 inches

Accompanying Load: None
Aircraft: C-130, C-141, C-5, and C-17
Extraction System: EFTC
Extraction Parachute C-130: 22-Foot
Extraction Parachute C-141: 22-Foot
Extraction Parachute C-5: 22-Foot
Extraction Parachute C-17: 22-Foot
Platform: 20-Foot Type V
Cargo Parachutes: Three G-11B

Figure 3-104. M996 2-Litter Armored Ambulance

M973A 1 1/2-Ton Cargo Carrier Small Unit Support Vehicle (SUSV)



Reference: FM 10-567/TO 13C7-16-171

Weight	16,500 pounds
Height	97 inches
Width	108 inches
Overall Length	354 inches
Overhang: Front	0 inches
Overhang: Rear (EFTC)	18 inches
CB (from front edge of platform)	155 inches

Accompanying Load: Accompanying load must weigh at least 2,000 pounds and no more than 2,100 pounds.

Aircraft: C-130, C-141, C-5, and C-17

Extraction System: EFTC

Extraction Parachute C-130: 22-Foot

Extraction Parachute C-141: 22-Foot

Extraction Parachute C-5: 22-Foot

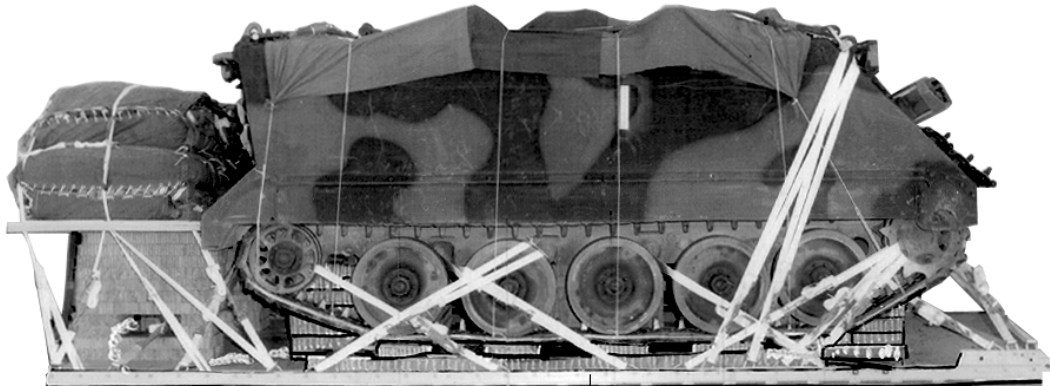
Extraction Parachute C-17: 22-Foot

Platform: 28-Foot Type V

Cargo Parachutes: Four G-11B

Figure 3-105. M973A 1 1/2-Ton Cargo Carrier Small Unit Support Vehicle (SUSV)

M113 Armored Personnel Carrier



CB

Reference: FM 10-567/TO 13C7-16-171

Weight	24,300 pounds
Height	97 inches
Width	108 inches
Overall Length	258 inches
Overhang: Front	0 inches
Overhang: Rear (EFTC)	18 inches
CB (from front edge of platform)	110 inches

Accompanying Load: Maximum accompanying load rigged in vehicle weighs 1,890 pounds.

Aircraft: C-130, C-141, C-5, and C-17

Extraction System: EFTC

Extraction Parachute C-130: 28-Foot

Extraction Parachute C-141: 28-Foot

Extraction Parachute C-5: 28-Foot

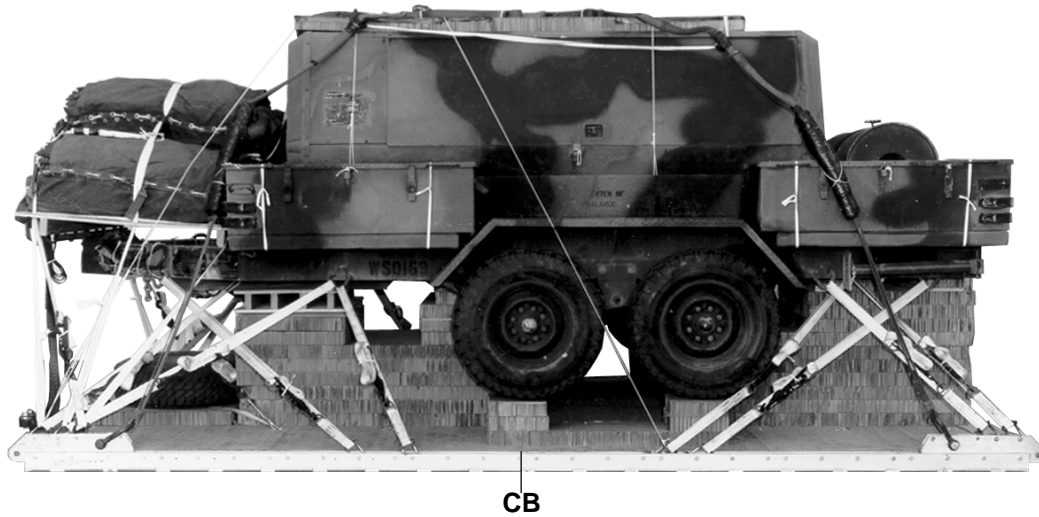
Extraction Parachute C-17: 28-Foot

Platform: 20-Foot Type V

Cargo Parachutes: Five G-11C

Figure 3-106. M113 Armored Personnel Carrier

Ingersol-Rand Model 250-CFM Trailer-Mounted Air Compressor



Reference: FM 10-569/TO 13C7-15-61

Weight	10,100 pounds
Height	96 inches
Width	108 inches
Overall Length	210 inches
Overhang: Front	0 inches
Overhang: Rear (EFTC)	18 inches
CB (from front edge of platform)	94 1/2 inches

Accompanying Load: None
Aircraft: C-130, C-141, C-5, and C-17
Extraction System: EFTC
Extraction Parachute C-130: 22-Foot
Extraction Parachute C-141: 22-Foot
Extraction Parachute C-5: 22-Foot
Extraction Parachute C-17: 22-Foot
Platform: 16-Foot Type V
Cargo Parachutes: Three G-11B

Figure 3-107. Ingersol-Rand Model 250-CFM Trailer-Mounted Air Compressor

M1081 2 1/2-Ton Cargo Truck



CB

Reference: FM 10-500-71/TO 13C7-6-141

Weight	23,181 pounds
Height	93 inches
Width	108 inches
Overall Length	315 inches
Overhang: Front	0 inches
Overhang: Rear (Cargo Parachutes)	27 inches
CB (from front edge of platform)	135 inches

Accompanying Load: Basic load rigged in bed of truck.

Aircraft: C-130, C-141, C-5, and C-17

Extraction System: EFTC

Extraction Parachute C-130: 28-Foot

Extraction Parachute C-141: 28-Foot

Extraction Parachute C-5: 28-Foot

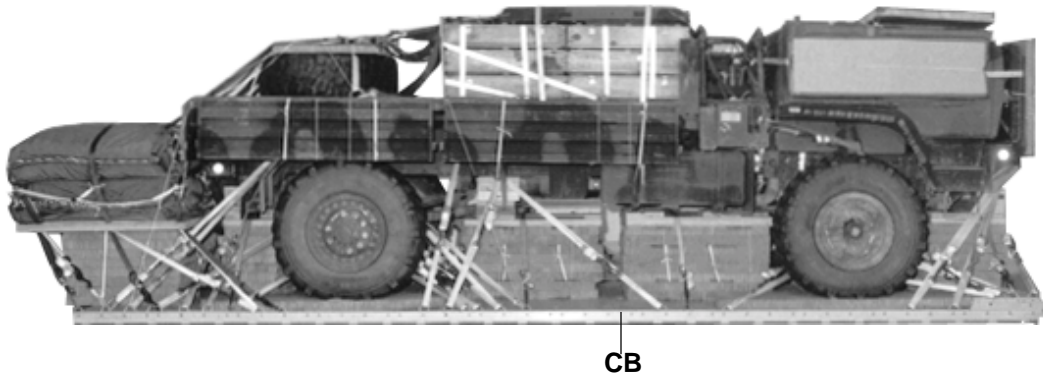
Extraction Parachute C-17: 28-Foot

Platform: 24-Foot Type V

Cargo Parachutes: Five G-11C

Figure 3-108. M1081 2 1/2-Ton Cargo Truck

M1081 2 1/2-Ton Truck with Accompanying Load



Reference: FM 10-500-71/TO 13C7-6-141

Weight	28,014 pounds
Height	97 inches
Width	108 inches
Overall Length	315 inches
Overhang: Front	0 inches
Overhang: Rear (Cargo Parachutes)	27 inches
CB (from front edge of platform)	137 inches

Accompanying Load: Accompanying load consists of 42 boxes of 105-mm ammunition rigged in bed of truck.

Aircraft: C-130, C-141, C-5, and C-17

Extraction System: EFTC

Extraction Parachute C-130: 28-Foot

Extraction Parachute C-141: 28-Foot

Extraction Parachute C-5: 28-Foot

Extraction Parachute C-17: 28-Foot

Platform: 24-Foot Type V

Cargo Parachutes: Six G-11C

Figure 3-109. M1081 2 1/2-Ton Truck with Accompanying Load

M1093 5-Ton 6x6 Standard Cargo Truck



CB

Reference: FM 10-500-71/TO 13C7-6-141

Weight	27,318 pounds
Height	100 inches
Width	108 inches
Overall Length	354 inches
Overhang: Front	0 inches
Rear (EFTC)	18 inches
CB (from front edge of platform)	150 inches

Accompanying Load: Basic load rigged in bed of truck.

Aircraft: C-130, C-141, C-5, and C-17

Extraction System: EFTC

Extraction Parachute C-130: 28-Foot

Extraction Parachute C-141: 28-Foot

Extraction Parachute C-5: 28-Foot

Extraction Parachute C-17: 28-Foot

Platform: 28-Foot Type V

Cargo Parachutes: Six G-11C

Figure 3-110. M1093 5-Ton 6x6 Standard Cargo Truck

M1094, 5-Ton Dump Truck



CB

Reference: FM 10-500-71/TO 13C7-6-141

Weight	34,100 pounds
Height	95 inches
Width	108 inches
Overall Length	354 inches
Overhang: Front	0 inches
Rear (EFTC)	18 inches
CB (from front edge of platform)	144 inches

Accompanying Load: Accompanying load weighing a minimum of 2,000 to 2,200 pounds must be rigged in the truck.

Aircraft: C-130, C-141, C-5, and C-17

Extraction System: EFTC

Extraction Parachute C-130: Two 28-Foot

Extraction Parachute C-141: Two 28-Foot

Extraction Parachute C-5: Two 28-Foot

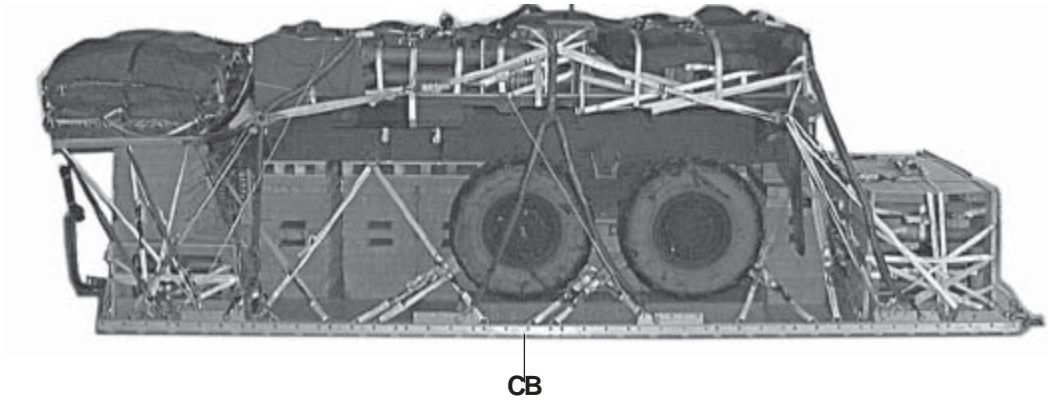
Extraction Parachute C-17: Two 28-Foot

Platform: 28-Foot Type V

Cargo Parachutes: Six G-11C

Figure 3-110.1. M1094, 5-Ton Dump Truck

M-1095, 5-Ton Trailer



Reference: FM 10-500-71/TO 13C7-6-141

Weight	30,330 pounds
Height	99 1/2 inches
Width	108 inches
Overall Length	306 inches
Overhang: Front	0 inches
Rear (EFTC)	18 inches
CB (from front edge of platform)	145 inches

Accompanying Load: Accompanying load consists of sixteen green bag canisters, eight white bag canisters, five fuse ammo boxes, four M483 HE round racks, and one M1101A1 WP round rack.

- Aircraft: C-130, C-141, C-5, and C-17
- Extraction System: EFTC
- Extraction Parachute C-130: Two 28-Foot
- Extraction Parachute C-141: Two 28-Foot
- Extraction Parachute C-5: Two 28-Foot
- Extraction Parachute C-17: Two 28-Foot
- Platform: 28-Foot Type V
- Cargo Parachutes: Six G-11C

Figure 3-110.2. M1095, 5-Ton Trailer

130G Motor Grader



CB

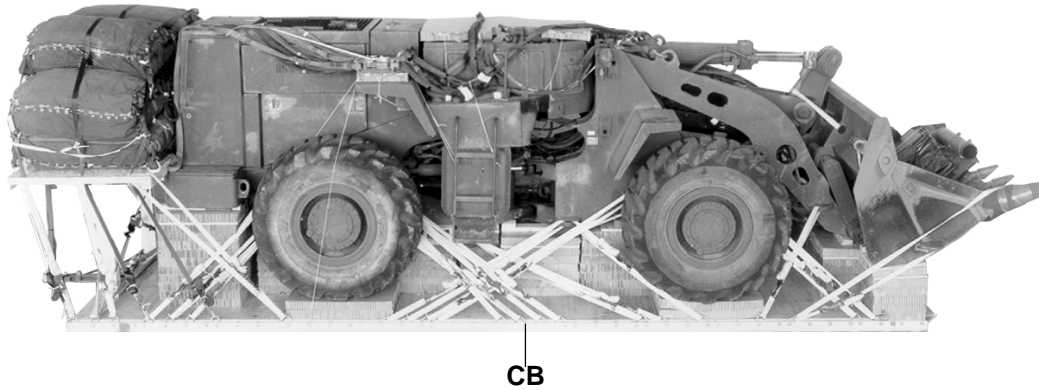
Reference: FM 10-573/TO 13C7-27-141

Weight	36,220 pounds
Height	98 inches
Width	108 inches
Overall Length	374 inches
Overhang: Front (Front of Grader)	14 inches
Rear (Parachute Stowage Tray)	24 inches
CB (from front edge of platform)	181 inches

Accompanying Load: None
Aircraft: C-130, C-141, C-5, and C-17
Extraction System: EFTC
Extraction Parachute C-130: Two 28-Foot
Extraction Parachute C-141: Two 28-Foot
Extraction Parachute C-5: Two 28-Foot
Extraction Parachute C-17: Two 28-Foot
Platform: 28-Foot Type V
Cargo Parachutes: Eight G-11C

Figure 3-111. 130G Motor Grader

950B Scoop-Loader



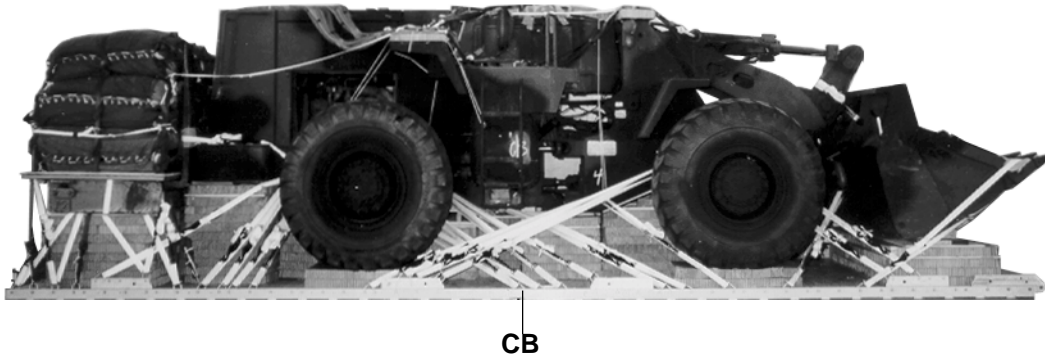
Reference: FM 10-574/TO 13C7-31-31

Weight	37,200 pounds
Height	100 inches
Width	108 inches
Overall Length	336 inches
Overhang: Front (Front of bucket)	27 inches
Overhang: Rear (Parachute Stowage Tray).....	21 inches
CB (from front edge of platform)	135 inches

Accompanying Load: None
Aircraft: C-130, C-141, C-5, and C-17
Extraction System: EFTC
Extraction Parachute C-130: Two 28-Foot
Extraction Parachute C-141: Two 28-Foot
Extraction Parachute C-5: Two 28-Foot
Extraction Parachute C-17: Two 28-Foot
Platform: 24-Foot Type V
Cargo Parachutes: Eight G-11C

Figure 3-112. 950B Scoop-Loader

950B Scoop-Loader with Forklift Attachment



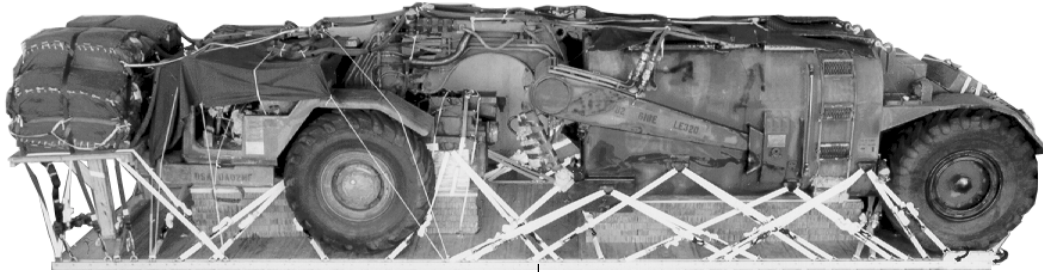
Reference: FM 10-574/TO 13C7-31-31

Weight	39,940 pounds
Height	100 inches
Width	108 inches
Overall Length	363 inches
Overhang: Front (Front of bucket)	9 inches
Overhang: Rear (EFTC)	18 inches
CB (from front edge of platform)	168 inches

Accompanying Load: None
Aircraft: C-130,C141,C-5, and C-17
Extraction System: EFTC
Extraction Parachute C-130: Two 28-Foot
Extraction Parachute C-141: Two 28-Foot
Extraction Parachute C-5: Two 28-Foot
Extraction Parachute C-17: Two 28-Foot
Platform: 28-Foot Type V
Cargo Parachutes: Eight G-11C

Figure 3-113. 950B Scoop-Loader with Forklift Attachment

613WD Water Distributor



CB

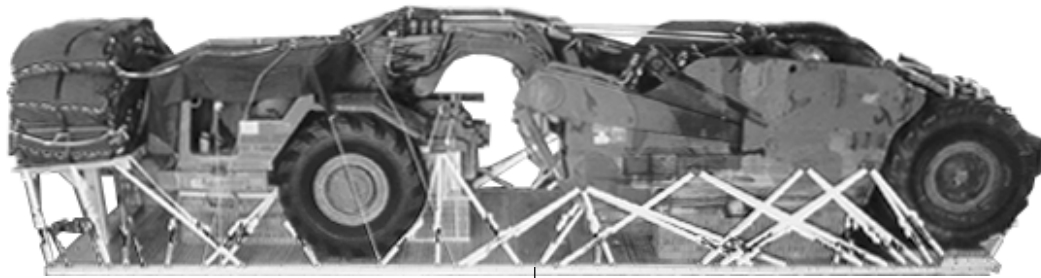
Reference: FM 10-575/TO 13C7-17-11

Weight	37,350 pounds
Height	100 inches
Width	108 inches
Overall Length	438 inches
Overhang: Front (Rear of vehicle)	36 inches
Overhang: Rear (EFTC)	18 inches
CB (from front edge of platform)	177 inches

Accompanying Load: None
 Aircraft: C-130, C-141, C-5, and C-17
 Extraction System: EFTC
 Extraction Parachute C-130: Two 28-Foot
 Extraction Parachute C-141: Two 28-Foot
 Extraction Parachute C-5: Two 28-Foot
 Extraction Parachute C-17: Two 28-Foot
 Platform: 32-Foot Type V
 Cargo Parachutes: Eight G-11C

Figure 3-114. 613WD Water Distributor

613S Type I Scraper



CB

Reference: FM 10-576/TO 13C7-27-151

Weight	38,880 pounds
Height	98 1/2 inches
Width	108 inches
Overall Length	354 inches
Overhang: Front (Rear of vehicle)	36 inches
Overhang: Rear (Parachute Stowage Tray).....	21 inches
CB (from front edge of platform)	181 inches

Accompanying Load: None
Aircraft: C-130, C-141, C-5, and C-17
Extraction System: EFTC
Extraction Parachute C-130: Two 28-Foot
Extraction Parachute C-141: Two 28-Foot
Extraction Parachute C-5: Two 28-Foot
Extraction Parachute C-17: Two 28-Foot
Platform: 32-Foot Type V
Cargo Parachutes: Eight G-11C

Figure 3-115. 613S Type I Scraper

Rapid Runway Repair (RRR) Kit on 24-Foot Platform



CB

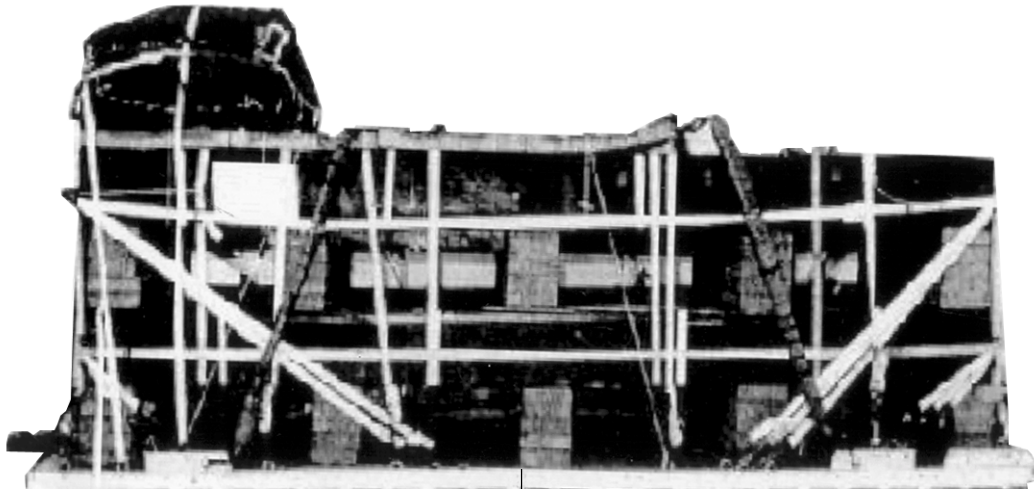
Reference: FM 10-579/TO 13C7-50-1

Weight	24,360 pounds
Height	90 inches
Width	108 inches
Overall Length	306 inches
Overhang: Front	0 inches
Overhang: Rear (EFTC)	18 inches
CB (from front edge of platform)	136 inches

Accompanying Load: None
 Aircraft: C-130, C-141, C-5, and C-17
 Extraction System: EFTC
 Extraction Parachute C-130: 28-Foot
 Extraction Parachute C-141: 28-Foot
 Extraction Parachute C-5: 28-Foot
 Extraction Parachute C-17: 28-Foot
 Platform: 24-Foot Type V
 Cargo Parachutes: Five G-11C

Figure 3-116. Rapid Runway Repair (RRR) Kit on 24-Foot Platform

Rapid Runway Repair (RRR) Kit on 20-Foot Platform



CB

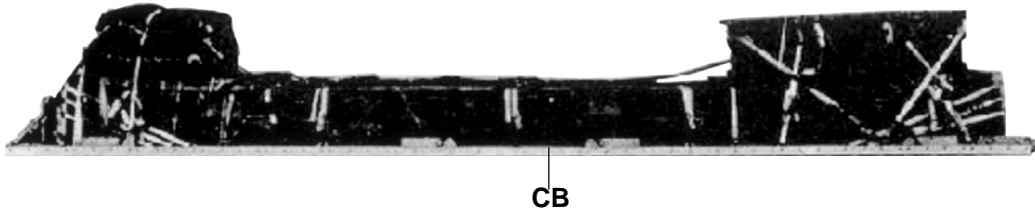
Reference: FM 10-579/TO 13C7-50-1

Weight	14,080 pounds
Height	67 inches
Width	108 inches
Overall Length	258 inches
Overhang: Front	0 inches
Overhang: Rear (EFTC)	18 inches
CB (from front edge of platform)	124 inches

Accompanying Load: None
Aircraft: C-130, C-141, C-5, and C-17
Extraction System: EFTC
Extraction Parachute C-130: 22-Foot
Extraction Parachute C-141: 22-Foot
Extraction Parachute C-5: 22-Foot
Extraction Parachute C-17: 22-Foot
Platform: 20-Foot Type V
Cargo Parachutes: Three G-11B

Figure 3-117. Rapid Runway Repair (RRR) Kit on 20-Foot Platform

Rapid Runway Repair (RRR) Kit-ALPHA



Reference: FM 10-579/TO 13C7-50-1

Weight	13,260 pounds
Height	59 1/2 inches
Width	108 inches
Overall Length	402 inches
Overhang: Front	0 inches
Overhang: Rear (EFTC)	18 inches
CB (from front edge of platform)	189 inches

Accompanying Load: None
Aircraft: C-130, C-141, C-5, and C-17
Extraction System: EFTC
Extraction Parachute C-130: 22-Foot
Extraction Parachute C-141: 22-Foot
Extraction Parachute C-5: 22-Foot
Extraction Parachute C-17: 22-Foot
Platform: 32-Foot Type V
Cargo Parachutes: Three G-11B

Figure 3-118. Rapid Runway Repair (RRR) Kit-ALPHA

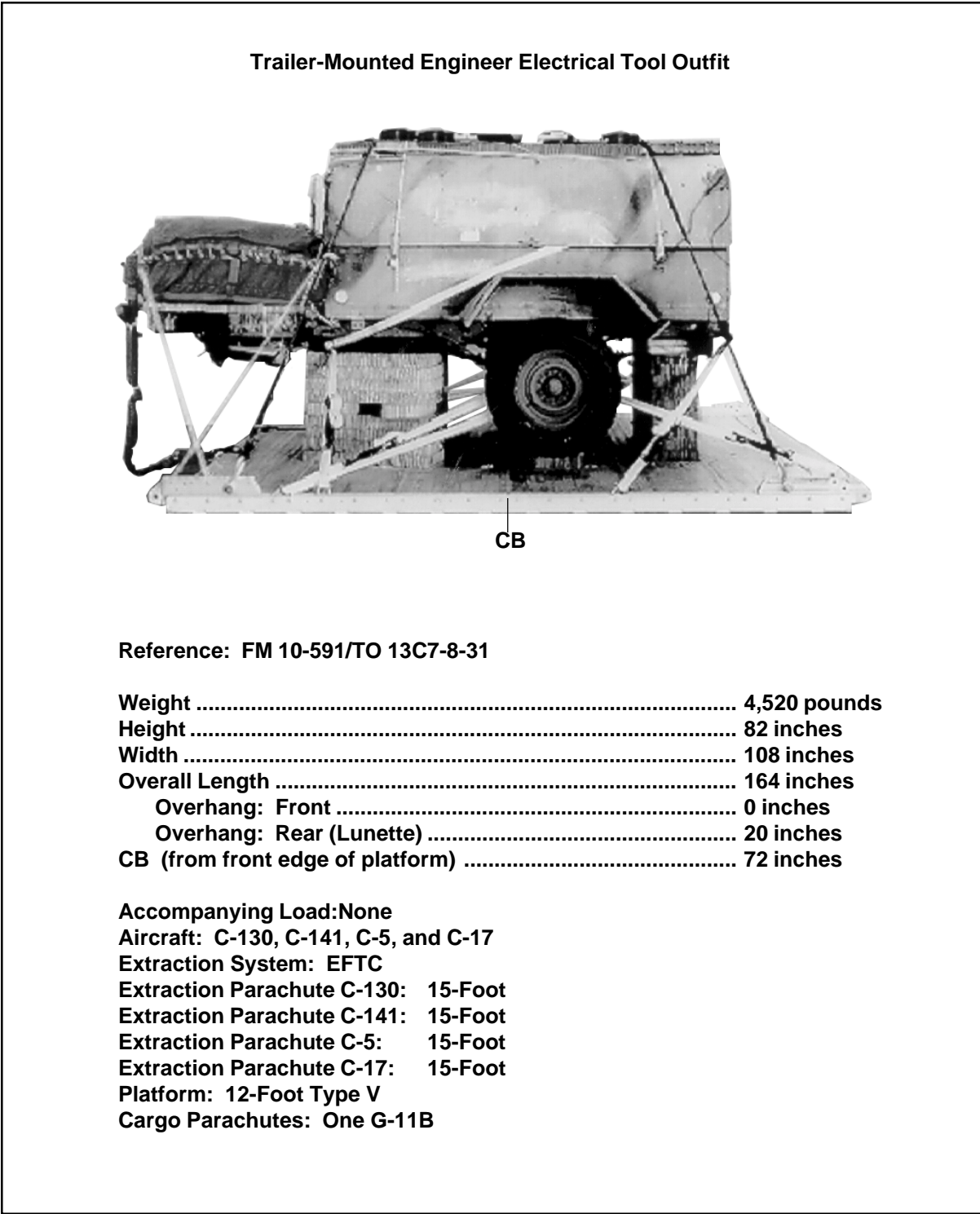
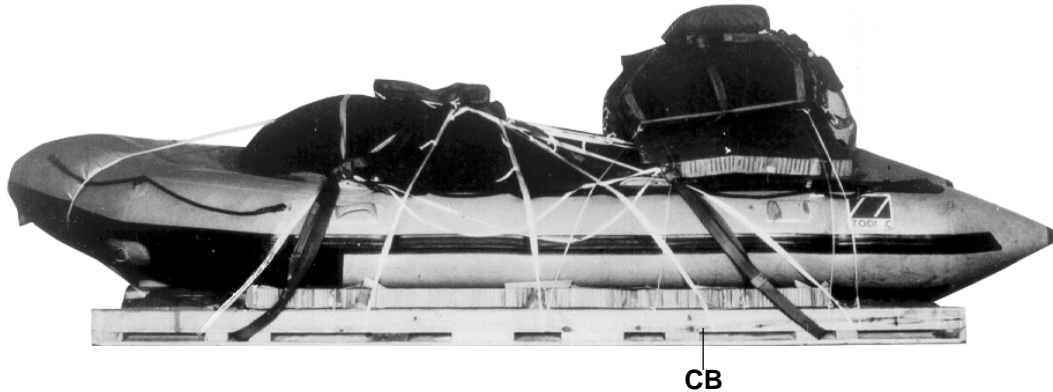


Figure 3-119. Trailer-Mounted Engineer Electrical Tool Outfit

SECTION III- COMBAT-EXPENDABLE PLATFORM LOW-VELOCITY AIRDROP

Zodiac Mark III Rubber Raiding Craft



Reference: FM 10-542/TO 13C7-51-21/NAVSEA SS400-AD-MMO-010

Weight 2,470 pounds
Height 60 inches
Width 75 inches
Overall Length 184 inches
Overhang: Front (Rear of boat) 17 inches
Overhang: Rear (Front of boat) 23 inches
CB (from front edge of platform) 60 inches

Accompanying Load: Accompanying load must weigh at least 650 pounds but no more than 1,170 pounds and must be dropped with boat.

Aircraft: C-130, C-141, and C-17

Extraction System: Gravity

Extraction Parachute C-130: 15-Foot Droque

Extraction Parachute C-141: 15-Foot Droque

Extraction Parachute C-5: NA

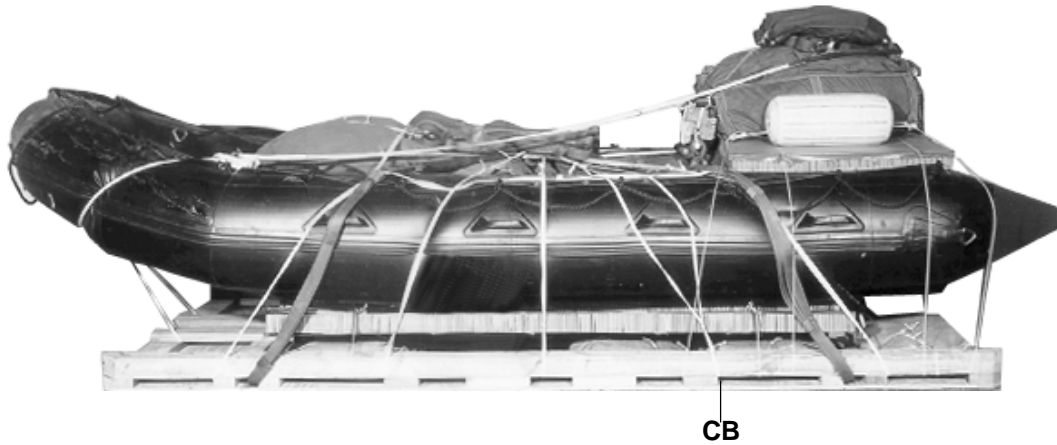
Extraction Parachute C-17: 15-Foot Droque

Platform: Combat-Expendable 144-inches

Cargo Parachutes: One G-12E

Figure 3-120. Zodiac Mark III Rubber Raiding Craft

Zodiac Mark III Futura Rubber Raiding Craft



Reference: FM 10-542/TO 13C7-51-21/NAVSEA SS400-AD-MMO-010

Weight	2,440 pounds
Height	67 inches
Width	75 inches
Overall Length	185 inches
Overhang: Front (Rear of boat)	18 inches
Overhang: Rear (Front of boat)	23 inches
CB (from front edge of platform)	60 inches

Accompanying Load: Accompanying load must weigh at least 650 pounds but no more than 1,170 pounds and must be dropped with boat.

Aircraft: C-130, C-141, and C-17

Extraction System: Gravity

Extraction Parachute C-130: 15-Foot Droque

Extraction Parachute C-141: 15-Foot Droque

Extraction Parachute C-5: NA

Extraction Parachute C-17: 15-Foot Droque

Platform: Combat-Expendable 75-by 144-inches

Cargo Parachutes: One G-12E

Figure 3-121. Zodiac Mark III Futura Rubber Raiding Craft

Z-Bird Rubber Raiding Craft



CB

Reference: FM 10-542/TO 13C7-51-21/NAVSEA SS400-AD-MMO-010

Weight	2,470 pounds
Height	60 inches
Width	75 inches
Overall Length	184 inches
Overhang: Front (Rear of boat)	17 inches
Overhang: Rear (Front of boat)	23 inches
CB (from front edge of platform)	60 inches

Accompanying Load: Accompanying load must weigh at least 650 pounds but no more than 1,170 pounds and must be dropped with boat.

Aircraft: C-130, C-141, and C-17

Extraction System: Gravity

Extraction Parachute C-130: 15-Foot Droque

Extraction Parachute C-141: 15-Foot Droque

Extraction Parachute C-5: NA

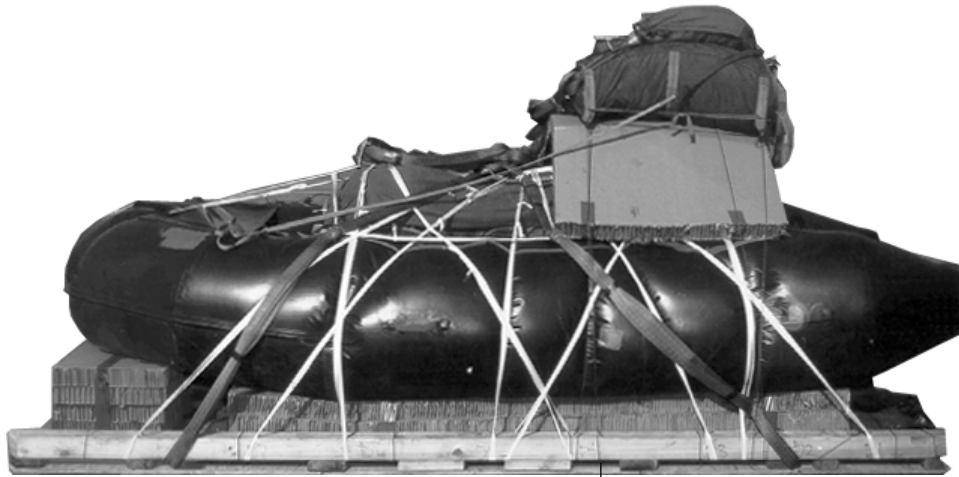
Extraction Parachute C-17: 15-Foot Droque

Platform: Combat-Expendable 75-by 144-inches

Cargo Parachutes: One G-12E

Figure 3-122. Z-Bird Rubber Raiding Craft

Zodiac K40 Rubber Raiding Craft



CB

Reference: FM 10-542/TO 13C7-51-21/NAVSEA SS400-AD-MMO-010

Weight	2,208 pounds
Height	70 inches
Width	82 inches
Overall Length	176 inches
Overhang: Front (Rear of boat)	20 inches
Overhang: Rear (Front of boat)	12 inches
CB (from front edge of platform)	52 inches

Accompanying Load: Accompanying load must weigh at least 470 pounds but no more than 870 pounds and must be dropped with boat.

Aircraft: C-130, C-141, and C-17

Extraction System: Gravity

Extraction Parachute C-130: 15-Foot Droque

Extraction Parachute C-141: 15-Foot Droque

Extraction Parachute C-5: NA

Extraction Parachute C-17: 15-Foot Droque

Platform: Combat-Expendable 75-by 144-inches

Cargo Parachutes: One G-12E

Figure 3-123. Zodiac K40 Rubber Raiding Craft

Zodiac K50 Rubber Raiding Craft



CB

Reference: FM 10-542/TO 13C7-51-21/NAVSEA SS400-AD-MMO-010

Weight	2,218 pounds
Height	70 inches
Width	82 inches
Overall Length	194 inches
Overhang: Front (Rear of boat)	25 inches
Overhang: Rear (Front of boat)	25 inches
CB (from front edge of platform)	52 inches

Accompanying Load: Accompanying load must weigh at least 450 pounds but no more than 850 pounds and must be dropped with boat.

Aircraft: C-130, C-141, and C-17

Extraction System: Gravity

Extraction Parachute C-130: 15-Foot Droque

Extraction Parachute C-141: 15-Foot Droque

Extraction Parachute C-5: NA

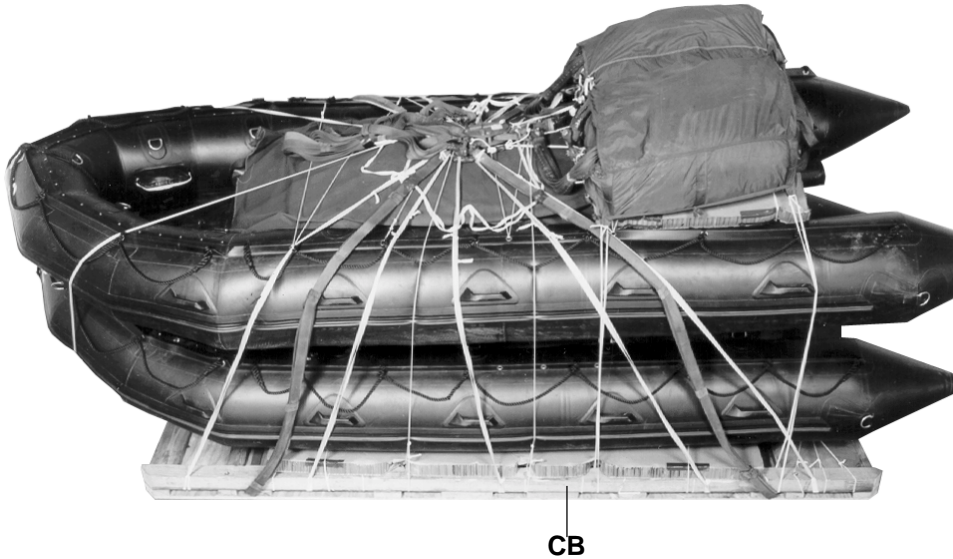
Extraction Parachute C-17: 15-Foot Droque

Platform: Combat-Expendable 75-by 144-inches

Cargo Parachutes: One G-12E

Figure 3-124. Zodiac K50 Rubber Raiding Craft

Double Zodiac F47OU Boat



Reference: FM 10-542/TO 13C7-51-21/NAVSEA SS400-AD-MMO-010

Weight	3,500 pounds
Height	86 inches
Width	75 inches
Overall Length	189 inches
Overhang: Front (Rear of boat)	16 inches
Overhang: Rear (Front of boat)	29 inches
CB (from front edge of platform)	60 inches

Accompanying Load: Accompanying load must weigh at least 650 pounds but no more than 1,170 pounds and must be dropped with boat.

Aircraft: C-130, C-141, and C-17

Extraction System: Gravity

Extraction Parachute C-130: NA

Extraction Parachute C-141: NA

Extraction Parachute C-5: NA

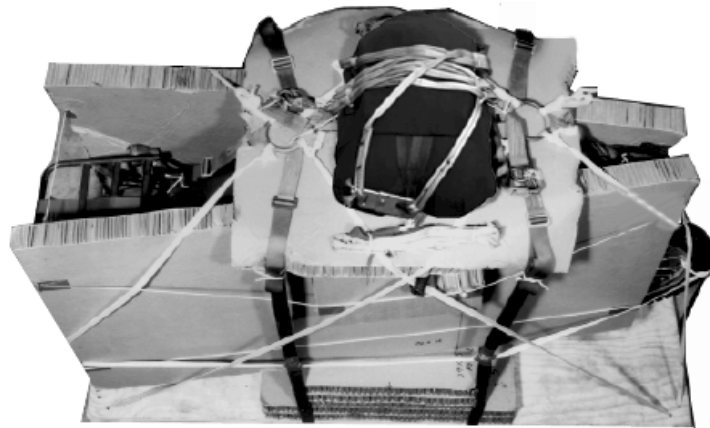
Extraction Parachute C-17: NA

Platform: Combat-Expendable 75-by 144-inches

Cargo Parachutes: Two G-12E

Figure 3-125. Double Zodiac F47OU Boat

One Motorcycle



Reference: FM 10-500-77/TO 13C7-55-1

Weight	485 pounds
Height	71 inches
Width	32 inches
Overall Length	88 inches
Overhang: Front	0 inches
Overhang: Rear	0 inches
CB (from front edge of platform)	0 inches

Accompanying Load: None
Aircraft: C-130, C-141, and C-17
Extraction System: Gravity
Extraction Parachute C-130: NA
Extraction Parachute C-141: NA
Extraction Parachute C-5: NA
Extraction Parachute C-17: NA
Platform: Combat-Expendable 32-by 88-inches
Cargo Parachutes: One G-14 or T-10C

Figure 3-126. One Motorcycle

Two Motorcycles



Reference: FM 10-500-77/TO 13C7-55-1

Weight	892 pounds
Height	75 inches
Width	48 inches
Overall Length	96 inches
Overhang: Front	0 inches
Overhang: Rear	0 inches
CB (from front edge of platform)	0 inches

Accompanying Load: None
Aircraft: C-130, C-141, and C-17
Extraction System: Gravity
Extraction Parachute C-130: 15-Foot Droque
Extraction Parachute C-141: 15-Foot Droque
Extraction Parachute C-5: NA
Extraction Parachute C-17: 15-Foot Droque
Platform: Combat-Expendable 48-by 96-inches
Cargo Parachutes: One G-12E

Figure 3-127. Two Motorcycles

Four Wheeled Quad-Runner



Reference: FM 10-500-77/TO 13C7-55-1

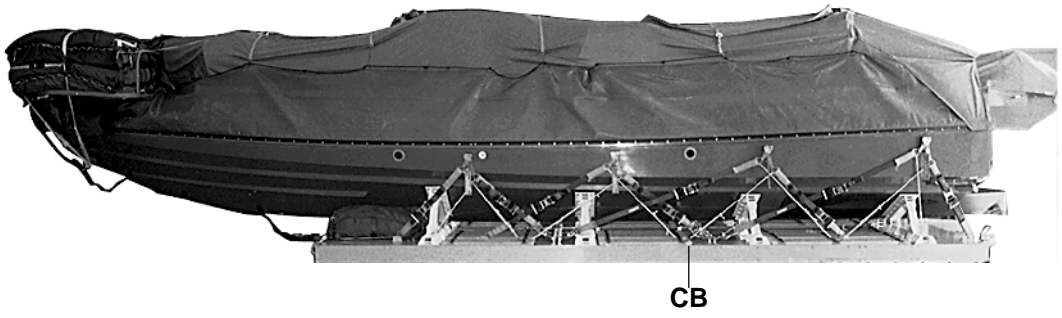
Weight	960 pounds
Height	68 inches
Width	48 inches
Overall Length	87 inches
Overhang: Front	0 inches
Overhang: Rear	0 inches
CB (from front edge of platform)	0 inches

Accompanying Load: None
Aircraft: C-130, C-141, and C-17
Extraction System: Gravity
Extraction Parachute C-130: 15-Foot Droque
Extraction Parachute C-141: 15-Foot Droque
Extraction Parachute C-5: NA
Extraction Parachute C-17: 15-Foot Droque
Platform: Combat-Expendable 48-by 87-inches
Cargo Parachutes: One G-12E

Figure 3-128. Four Wheeled Quad-Runner

**SECTION IV- MARITIME AERIAL DELIVERY SYSTEMS PLATFORM
LOW-VELOCITY AIRDROP**

Naval Special Warfare Rigid Inflatable Boat (NSW RIB)



CB

Reference: FM 10-542/TO 13C7-51-21/NAVSEA SS400-AD-MMO-010

Weight	18,500 pounds
Height	100 inches
Width	108 inches
Overall Length	432 inches
Overhang: Front (Motor)	42 inches
Overhang: Rear (Front of boat)	138 inches
CB (maximum allowable from front edge of platform)	149.5 inches

Accompanying Load: None
Aircraft: C-130, C-141, C-5 and C-17
Extraction System: EFTC
Extraction Parachute C-130: 28-Foot
Extraction Parachute C-141: 28-Foot
Extraction Parachute C-5: 28-Foot
Extraction Parachute C-17: 28-Foot
Platform: Maritime Aerial Delivery Systems
Cargo Parachutes: Four G-11B

Figure 3-129. Naval Special Warfare Rigid Inflatable Boat (NSW RIB)

Chapter 4

RIGGED LOAD REFERENCE DATA FOR DUAL ROW AIRDROP SYSTEM (DRAS)

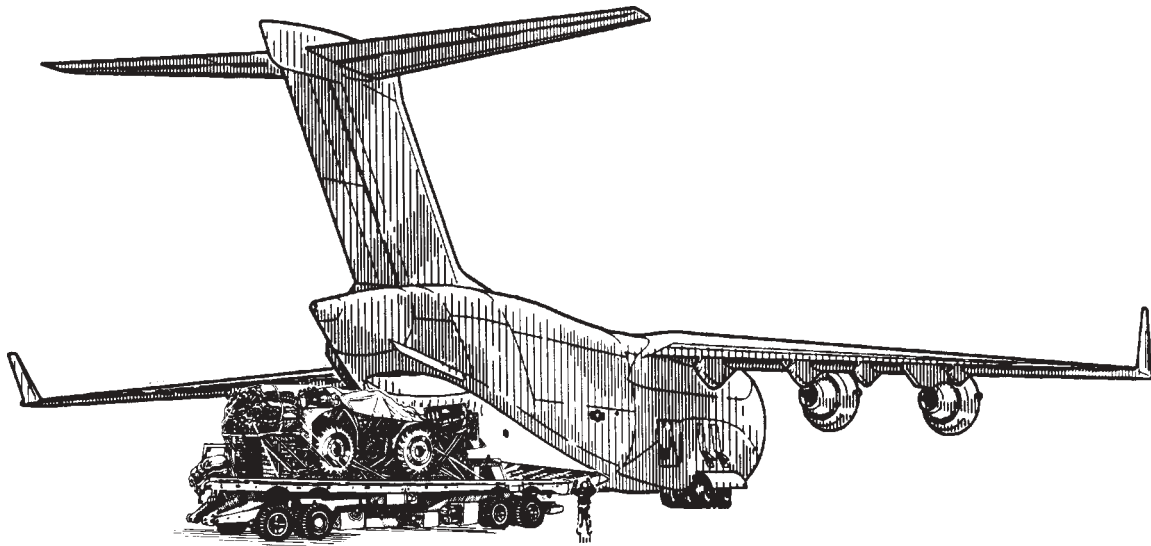
SECTION I - INTRODUCTION

GENERAL

4-1. This chapter contains illustrations and reference data on completely rigged airdrop platforms.

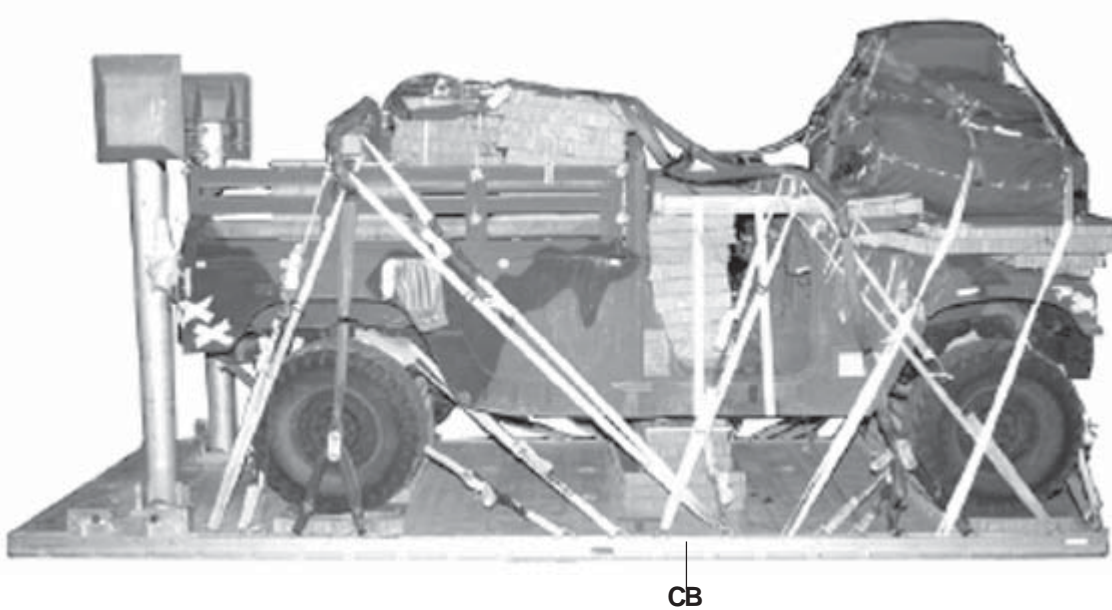
DUAL ROW AIRDROP SYSTEM LOW-VELOCITY AIRDROP

4-2. Loads rigged on Dual Row Airdrop System platform for low-velocity airdrop are contained in section II.



SECTION II - DUAL ROW AIRDROP SYSTEM REFERENCE DATA

M998/M1038/M1097 Cargo/Troop Carriers Rigged for Dual Row Airdrop



Reference: FM 4-20.105/TO 13C7-1-51

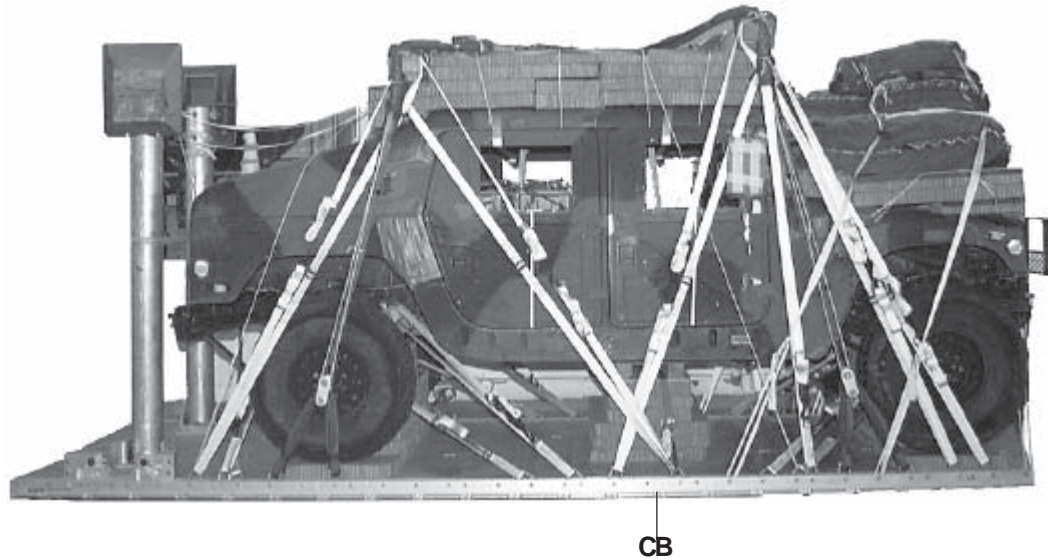
Weight: M998	10,912 pounds
M1038	11,165 pounds
M1097	10,097 pounds
Height	98 inches
Width	94 inches
Overall Length	229 inches
Overhang: Front (Brush Guard)	12 inches
Rear	0 inches
Center of Balance (from front edge of platform):	
M998	89 inches
M1038	91 inches
M1097	90 inches

Accompanying Load: Minimum accompanying load of 800 pounds and a maximum load of 2,000 pounds must be rigged in the truck.

Deployment Parachute: 28-foot
 Cargo Parachutes: Three G-11D

Figure 4-1. M998/M1038/M1097 Cargo/Troop Carriers Rigged for Dual Row Airdrop

M1025 Armament Carrier Rigged for Dual Row Airdrop



Reference: FM 4-20.105/TO 13C7-1-51

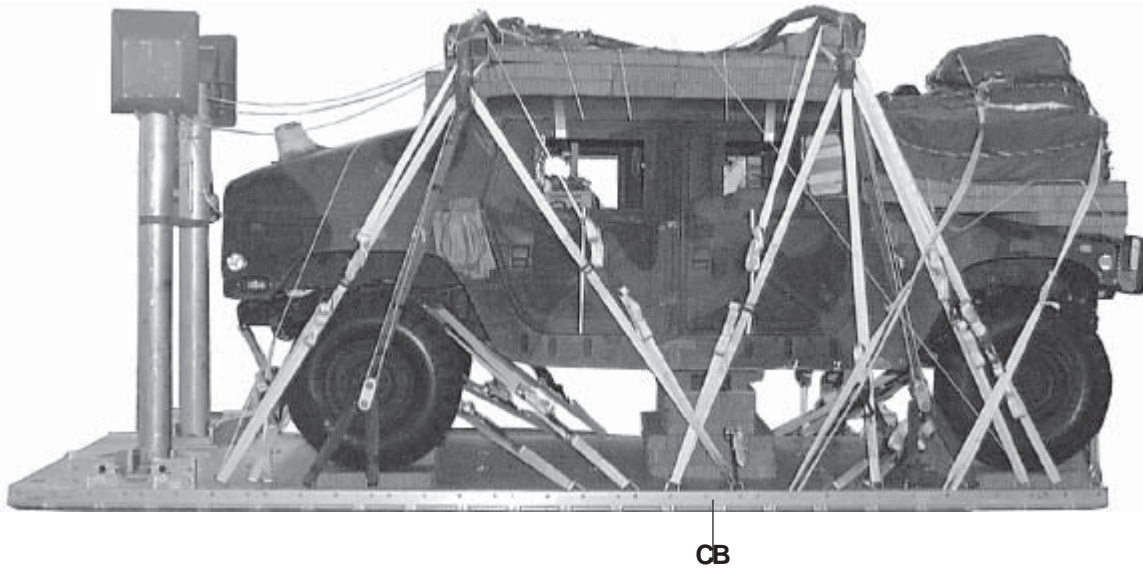
Weight	12,637 pounds
Height	98 inches
Width	94 inches
Length (overall)	229 inches
Overhang: Front (Brush Guard)	13 inches
Rear	0 inches
Center of Balance (from front edge of platform)	94 inches

Accompanying Load: Minimum accompanying load of 800 pounds and a maximum load of 2,000 pounds must be rigged in the truck.

Deployment Parachute: 28-foot
 Cargo Parachutes: Three G-11D

Figure 4-2. M1025 Armament Carrier Rigged for Dual Row Airdrop

M1121 TOW Carrier Rigged for Dual Row Airdrop



Reference: FM 4-20.105/TO 13C7-1-51

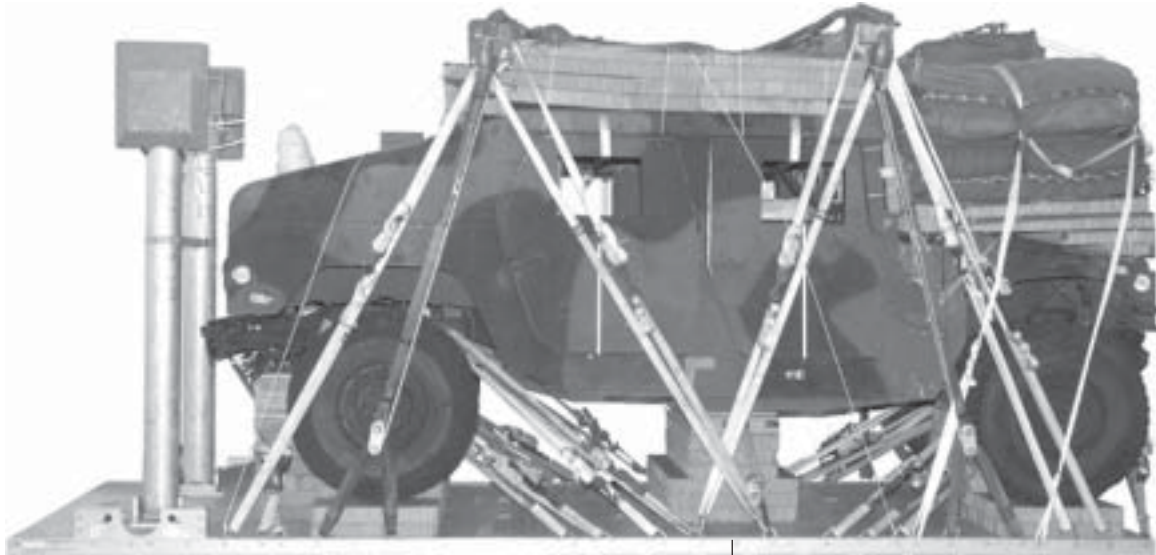
Weight	10,455 pounds
Height	98 inches
Width	94 inches
Overall Length	224 inches
Overhang: Front (Brush Guard)	8 inches
Rear	0 inches
Center of Balance (from front edge of platform)	86 inches

Accompanying Load: Minimum accompanying load of 800 pounds and a maximum load of 2,000 pounds must be rigged in the truck.

Deployment Parachute: 28-foot
Cargo Parachutes: Three G-11D

Figure 4-3. M1121 TOW Carrier Rigged for Dual Row Airdrop

M1114 Up-Armored HMMWV Rigged for Dual Row Airdrop



CB

Reference: FM 4-20.105/TO 13C7-1-51

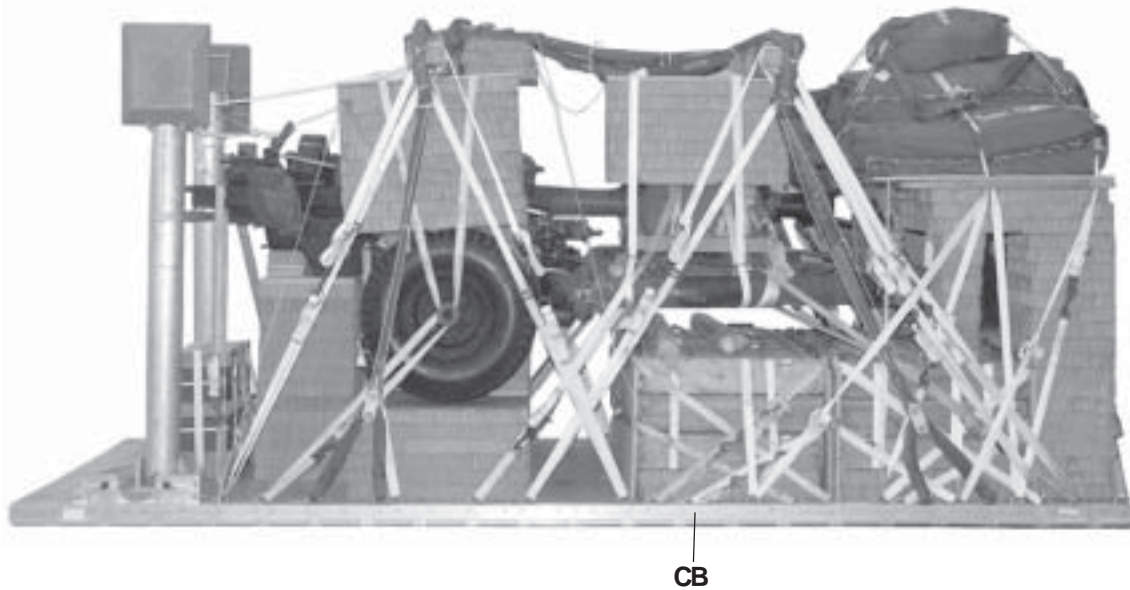
Weight	14,400 pounds
Height	106 inches
Width	94 inches
Overall Length	216 inches
Overhang: Front (Brush Guard)	6 1/2 inches
Rear	0 inches
Center of Balance (from front edge of platform)	94 inches

Accompanying Load: Minimum accompanying load of 800 pounds and a maximum load of 2,000 pounds must be rigged in the truck.

Deployment Parachute: 28-foot
Cargo Parachutes: Four G-11D

Figure 4-4. M1114 Up-Armored HMMWV Rigged for Dual Row Airdrop

M119 105-MM Howitzer Rigged for Dual Row Airdrop



Reference: FM 4-20.105/TO 13C7-1-51

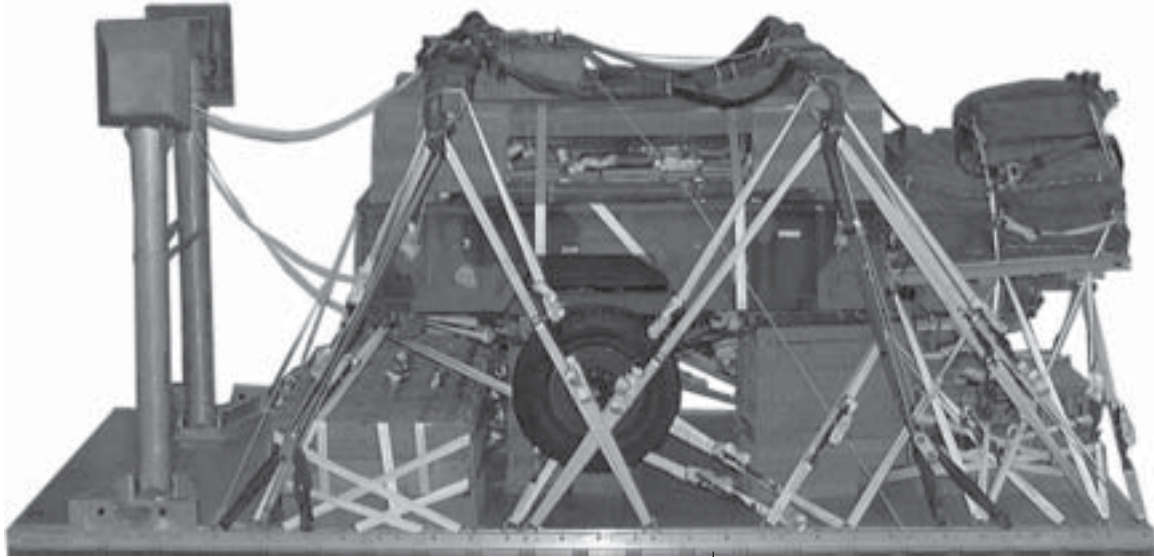
Weight	11,200 pounds
Height	98 inches
Width	94 inches
Overall Length	220 inches
Overhang: Front	0 inches
Rear	0 inches
Center of Balance (from front edge of platform)	94 inches

Accompanying Load: Accompanying load consists of thirty-six 105-MM ammunition boxes and six fuse boxes.

Deployment Parachute: 28-foot
Cargo Parachutes: Three G-11D

Figure 4-5. M119 105 Howitzer Rigged for Dual Row Airdrop

M101A1/M101A2, 3/4- Ton Cargo Trailer Rigged for Dual Row Airdrop



CB

Reference: FM 4-20.105/TO 13C7-1-51

Weight: M101A1	7,860 pounds
M101A2	8,062 pounds
Height	98 inches
Width	94 inches
Overall Length	220 inches
Overhang: Front	0 inches
Rear	0 inches
Center of Balance (from front edge of platform) M101A1	98 inches
Center of Balance (from front edge of platform) M101A2	99 inches

Accompanying Load: Accompanying load weighs 3,210 pounds for the M101A1 and 2,996 pounds for the M101A2.

Deployment Parachute: 28-foot
 Cargo Parachutes: Two G-11D

Figure 4-6. M101A1/M101A2, 3/4- Ton Cargo Trailer Rigged for Dual Row Airdrop

Chapter 5 Aircraft Capabilities

GENERAL

5-1. This chapter contains information on Air Force aircraft airdrop capabilities.

C-130 HERCULES

5-2. The C-130 has the capability to airdrop a maximum weight of 42,000 pounds using multiple airdrop platforms. The maximum weight of a single airdrop platform weight is limited to 42,000 pounds for E / H model airplanes AF 61-2358 and AF 62-1748 and up. The single maximum platform weight limit for MC-130 E/H airplanes is 35,000 pounds and 25,000 pounds for all other C-130 airplanes prior to AF 62-1784. The C-130 can airdrop loads up to 100 inches high unless otherwise certified in the specific rigging manual. The aircraft has a maximum total space available of 40 feet. The platforms will vary from 8 to 32 feet in length. For planning purposes allow a minimum of 18 inches between platforms to allow space for the Extraction Force Transfer Coupling (EFTC), three-point link, and attaching the preceding extraction line. With the Extraction Parachute Jettison Device (EPJD) attached, a 30-inch space will have to be maintained for the EFTC, three-point link and the EPJD with extraction line attached. The specific loading manual must be consulted when approaching maximum limits for platform space availability and weights.

C-141 STARLIFTER

5-3. The C-141 has the capability to airdrop a combined total weight of 70,000 pounds using multiple airdrop platforms. The aircraft has a total space available of 93 feet. The platforms will vary from 8 to 32 feet in length. For planning purposes you must allow a minimum of 18 inches between platforms to allow space for the EFTC three-point link and attaching the preceding extraction line. With the EPJD attached, a 30-inch space must be maintained for the EFTC, three-point link and the EPJD with extraction line attached. The maximum single platform weight is limited to 38,500 pounds unless waived for contingency by the MAJCOM (HQ). The C-130 can airdrop loads up to 100 inches high unless otherwise certified in the specific rigging manual. The maximum weight with the waiver is 42,000 pounds. The specific loading manual must be consulted when approaching maximum limits for platform space availability and weights.

C-17 GLOBEMASTER

5-4. The C-17 has the capability to airdrop a combined total weight of 110,000 pounds using multiple airdrop platforms. The C17 has 64 feet of space available for airdrop use. Two 32 foot platforms may be airdropped if specific guidance is followed. The platforms will vary from 8 to 32 feet in length. For planning purposes, allow a minimum of 18 inches between platforms to allow space for the EFTC, three-point link and attaching the preceding extraction line. With the EPJD attached, a 30 inch space must be maintained for the EFTC, three-point link and the EPJD with extraction line attached. The C-17 can airdrop loads up to 118 inches high measured from the bottom of the platform. The maximum single platform weight is limited to 60,000 pounds. The specific loading manual must be consulted when approaching maximum limits for platform space availability.

C-5 GALAXY

5-5. The C-5 has the capability to airdrop a combined total weight of 200,000 pounds using multiple airdrop platforms. The aircraft has 121 feet of space available for airdrop use, however there are restrictions. The length of the extraction line generally restricts placement of platforms and the EFTC actuator arm must not be positioned forward of fuselage station 574 (57 inches aft of the forward ramp hinge). The platforms will vary from 8 to 32 feet in length. For planning purposes, you must allow a minimum of 18 inches between platforms for the EFTC, three-point link and attaching the preceding extraction line. If the EPJD is used, a minimum of 30 inches between platforms is required. The C-17 can airdrop loads up to 105 inches high measured from the bottom of the platform. The maximum single platform weight is limited to 60,000 pounds. Consult the specific loading manual when approaching maximum limits for platform weights and space availability.

Glossary

AAFARS	Advanced Aviation Forward Area Refueling System
AFB	Air Force Base
AFTO	Air Force Technical Order
AMC	air mobility command
approx	approximate
bb1	barrel
CAV	command assault vehicle
CB	center of balance
CHS-2	command hardware/software 2nd generation package
CU	cubic
d	penny
DA	Department of the Army
DEUCE	deployable universal combat earthmover
DOD	Department of Defense
ECU	environmental control unit
EFTC	extraction force transfer coupling
EPJD	extraction parachute jettison device
FARE	forward area refueling equipment
FAST	forward area surgical team
FM	field manual
ft	foot/feet
GPH	gallons per hour
GPM	gallons per minute
HE	heavy explosive
HMMWV	high mobility, multipurpose wheeled vehicle
HQ	headquarters
ID	inner diameter
in	inch
lb	pound
lin	linear
MACS	modular artillery charge system
MAJCOM	major command
M-Gator	military utility vehicle
max	maximum
MICLIC	mine clearing line charge
min	minimum
MMLS	mobile microwave landing system
mm	millimeter
no	number
OD	outside diameter
oz	ounce
PLS	palletized load system
ROWPU	reverse osmosis water purification unit
RRR	rapid runway repair

SEE	small emplacement excavator
SICPS	standard intergrated command post system
sq	square
SUSV	small unit support vehicle
TDARS	technical defense alert radar system
tn	ton
TO	technical order
TOW	tube-launched, optically tracked, wire-guided missile
TRADOC	United States Army Training and Doctrine Command
US	United States
w	width
WP	white phosphorous
yd	yard

References

FM 4-20.102/TO 13C7-1-5	Airdrop of Supplies and Equipment: Rigging Airdrop Platforms
FM 4-20.105/TO 13C7-1-51	Airdrop of Supplies and Equipment: Dual Row Airdrop Systems
FM 10-500-3/TO 13C7-1-11	Airdrop of Supplies and Equipment: Rigging Containers
FM 4-20.108/TO 13C7-2-491	Airdrop of Supplies and Equipment: Rigging Military Utility Vehicle (M-Gator)
FM 4-20.112/TO 13C7-1-8	Airdrop of Supplies and Equipment: Rigging Typical Supply Loads
FM 4-20.113/TO 13C7-3-51	Airdrop of Supplies and Equipment: Rigging 3/4 Ton Cargo Trailer M101 or M101A1
FM 4-20.117/TO 13C7-1-111	Airdrop of Supplies and Equipment: Rigging 1 1/4 Ton Utility Truck (HMMWV)
FM 10-519/TO 13C7-10-31	Airdrop of Supplies and Equipment: Rigging 105mm Howitzers
FM 4-20.121/TO 13C7-6-21	Airdrop of Supplies and Equipment: Rigging Tractors and Tractor Dozers
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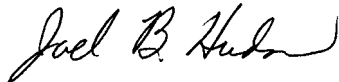
FM 10-573/TO 13C7-27-141	Airdrop of Supplies and Equipment: Rigging 130G Motor Grader
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FM 4-20.116(FM 10-516)
TO 13C7-1-13
20 AUGUST 2001

By Order of the Secretary of the Army and the Air Force:

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