



**TRACTOR & TRAILER, MOFFETT & ACCESSORIES  
WEIGHT DISTRIBUTION, NO PAYLOAD, LIFT AXLE UP.**

TOTAL WEIGHT ON FRONT AXLE	= 9,280 LBS.
TOTAL WEIGHT ON TRACTOR TANDEM	= 9,880 LBS.
TOTAL WEIGHT ON TRAILER REAR AXLE	= 15,360 LBS.
GROSS COMBINATION WEIGHT	= 34,520 LBS.

TRACTOR-TRAILER COMBINATION RUNS IN US.  
(RULES FOR MOST STATES)  
14,000 LBS. ALLOWED ON FRONT AXLE GAWR.  
34,000 LBS. ALLOWED ON A TRACTOR TANDEM AXLE.  
40,000 LBS. ALLOWED ON TRAILER SPREAD AXLE.  
48,000 LBS. ALLOWED FOR FEDERAL BRIDGE (16' - TRACTOR).  
70,500 LBS. ALLOWED FOR INNER BRIDGE (43' - TRAILER).  
80,000 LBS. MAX. GROSS COMBINATION WEIGHT.  
MAXIMUM TRAILER LENGTH = 53'.  
MAXIMUM OVERALL LENGTH = NO LIMIT WITH LEGAL TRAILER.

**TRACTOR & TRAILER, MOFFETT & ACCESSORIES  
WEIGHT DIST., WITH PAYLOAD, LIFT AXLE DOWN.**

TOTAL WEIGHT ON FRONT AXLE	= 9,280 LBS.
TOTAL WEIGHT ON TRACTOR TANDEM	= 31,840 LBS.
TOTAL WEIGHT ON TRAILER LIFT AXLE	= 19,000 LBS.
TOTAL WEIGHT ON TRAILER REAR AXLE	= 19,400 LBS.
PAYLOAD AS SHOWN (50 BALES)	= 45,000 LBS.
GROSS COMBINATION WEIGHT	= 79,520 LBS.

**NOTES:**  
TRACTOR WEIGHTS WERE SCALED.  
TRACTOR-TRAILER COMBINATION WAS SCALED  
WITH MOFFETT MOUNTED IN KIT.  
TOTAL TRAILER WEIGHT PROVIDED AT 10,723 LBS.

**TRACTOR SPECIFICATIONS**

TRACTOR MODEL	= N/A
WHEELBASE	= 169"
CAB TO TANDEM	= 104"
AXLE-TO-FRAME	= 60"
FRONT AXLE CURB WEIGHT	= 9,280 LBS.
REAR AXLE CURB WEIGHT	= 7,460 LBS.
FRONT G.A.W.R.	= 14,000 LBS.
REAR G.A.W.R.	= 40,000 LBS.

**TRAILER SPECIFICATIONS**

YIELD STRENGTH OF EACH STEEL I-BEAM	MINIMUM SECTION MODULUS REQUIRED
80,000 P.S.I. YIELD	= 31.10 in. <sup>3</sup>
110,000 P.S.I. YIELD	= 22.63 in. <sup>3</sup>
120,000 P.S.I. YIELD	= 20.74 in. <sup>3</sup>
MINIMUM RBM/I-BEAM OF 2,488,800 IN-LBS	

**NOTICE:**

THE DRAWING PURPOSE IS TO INTRODUCE  
A GENERAL CONCEPT OF A PROPOSED IDEA.

**NOTICE:**

THIS WEIGHT DISTRIBUTION IS BASED ON ESTIMATED  
WEIGHTS AND IS ONLY AS ACCURATE AS THOSE  
ESTIMATES. ACTUAL WEIGHTS MAY CHANGE  
THE RESULTS OF THIS WEIGHT DISTRIBUTION.

**Cargotec USA**

Cargotec USA  
12233 Williams Road  
Perrysburg, Ohio 43551  
Tel (419) 482-6000  
Fax (419) 482-6001

Tolerances - unless otherwise noted.  
Tolerances are in inches  
2-PLACE ±.000... .03  
3-PLACE ±.000... .015  
ANGULAR ± .....1/16"  
FRACTIONAL ± .....1/16"  
Break all sharp corners  
unless otherwise specified.

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DRAWING TO OTHERS FOR ANY PURPOSE.

Next Assy.

Dwg/Cad file no.

**MOFFETT / SALES**

Drawing Title:

**MOFFETT M50 LITE, 12' MAST**

Project Name:

**PLATINUM DROP DECK - 19.5" TIRES**

Drawn by: Date:

J W 4/4/11

Approval: Date Approved:

N/A

Size: Part No.

Scale: unit wt.

N/A

Eng. Job no.: