



TRACTOR & TRAILER, MOFFETT & ACCESSORIES WEIGHT DISTRIBUTION, NO PAYLOAD ON TRAILER.	
TOTAL WEIGHT ON FRONT AXLE	= 9,060 LBS.
TOTAL WEIGHT ON TRACTOR TANDEM	= 11,660 LBS.
TOTAL WEIGHT ON TRAILER TANDEM	= 20,380 LBS.
GROSS COMBINATION WEIGHT	= 41,100 LBS.

TRACTOR & TRAILER, MOFFETT & ACCESSORIES WEIGHT DISTRIBUTION, WITH PAYLOAD ON TRAILER.	
TOTAL WEIGHT ON FRONT AXLE	= 9,060 LBS.
TOTAL WEIGHT ON TRACTOR TANDEM	= 21,460 LBS.
TOTAL WEIGHT ON TRAILER TANDEM	= 34,000 LBS.
WATER LEVEL PAYLOAD	= 23,420 LBS.
GROSS COMBINATION WEIGHT	= 64,520 LBS.

TRACTOR SPECIFICATIONS	
TRACTOR MODEL	= N/A
WHEELBASE	= 169"
CAB TO TANDEM	= N/A
AXLE-TO-FRAME	= N/A
FRONT AXLE CURB WEIGHT	= 8,700 LBS.
REAR AXLE CURB WEIGHT	= 7,800 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. ³
100,000 P.S.I. YIELD	= 24.88 in. ³
120,000 P.S.I. YIELD	= 20.74 in. ³
MINIMUM RBM/I-BEAM OF 2,488,290 IN-LBS	

NOTES:
TRACTOR AND TRAILER CURB WEIGHTS ARE ESTIMATED.
TOTAL TRAILER WEIGHT AND TRAILER TANDEM WEIGHT
REQUIRED FOR AN ACCURATE CALCULATION.

TRACTOR-TRAILER COMBINATION RUNS US.
(RULES FOR MOST STATES).
14,000 LBS. ALLOWED ON FRONT AXLE GAWR.
34,000 LBS. ALLOWED ON TANDEMS.
48,000 LBS. ALLOWED FOR FEDERAL BRIDGE (16' - TRACTOR).
65,500 LBS. ALLOWED FOR FEDERAL BRIDGE (35' - TRAILER).
77,500 LBS. MAX. GROSS COMBINATION WEIGHT.
MAXIMUM TRAILER LENGTH = 53'-0".
MAXIMUM OVERALL LENGTH = NO LIMIT WITH LEGAL TRAILER.
(LIMITED TO 65' IN SOME STATES.)

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.

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Tolerances - unless otherwise noted.
Tolerances are in inches
2-PLACE ±.000... .05
3-PLACE ±.000... .015
ANGULAR ±1/16"
FRACTIONAL ±1/16"
Break all sharp corners
unless otherwise specified.

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APPROVAL IS REQUIRED FOR EXPOSURE OF THIS
DRAWING TO OTHERS FOR ANY PURPOSE.

Next Assy.
Dwg/Cad file no.
MOFFETT / SALES

Drawing Title:
MOFFETT M80 4-WAY, 12' MAST

Project Name:
SALES LAYOUT

Drawn by: Date: Size: Part No.
SMG 5-1-18

Approval: Date Approved: Scale: unit wt. Eng. Job no.:
N/A