



MOFFETT FORK LIFT
M45P STM LP

TRACTOR & TRAILER, MOFFETT & ACCESSORIES WEIGHT DISTRIBUTION, NO PAYLOAD ON TRAILER.	
TOTAL WEIGHT ON FRONT AXLE	= 9,930 LBS.
TOTAL WEIGHT ON TRACTOR TANDEM	= 14,160 LBS.
TOTAL WEIGHT ON TRAILER TANDEM	= 18,090 LBS.
GROSS COMBINATION WEIGHT	= 42,180 LBS.

TRACTOR & TRAILER, MOFFETT & ACCESSORIES WEIGHT DISTRIBUTION, WITH PAYLOAD ON TRAILER.	
TOTAL WEIGHT ON FRONT AXLE	= 10,380 LBS.
TOTAL WEIGHT ON TRACTOR TANDEM	= 25,600 LBS.
TOTAL WEIGHT ON TRAILER TANDEM	= 34,000 LBS.
WATER LEVEL PAYLOAD	= 27,800 LBS.
GROSS COMBINATION WEIGHT	= 69,980 LBS.

TRACTOR SPECIFICATIONS	
TRACTOR MODEL	= STERLING LT9513
WHEELBASE	= 160"
CAB TO TANDEM	= 96"
AXLE-TO-FRAME	= 60"
FRONT AXLE CURB WEIGHT	= 9,200 LBS.
REAR AXLE CURB WEIGHT	= 8,100 LBS.
FRONT G.A.W.R.	= 14,000 LBS.
REAR G.A.W.R.	= 40,000 LBS.

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

TRACTOR TRAILER RUNS IN GEORGIA.
14,000 LBS. ALLOWED ON FRONT AXLE GAWR.
34,000 LBS. ALLOWED ON TANDEMS.
47,000 LBS. ALLOWED FOR FEDERAL BRIDGE (15' - TRACTOR).
67,500 LBS. ALLOWED FOR FEDERAL BRIDGE (38' - TRAILER).
78,500 LBS. MAX. GROSS COMBINATION WEIGHT.
MAXIMUM TRAILER LENGTH = 53'
MAXIMUM OVERALL LENGTH = 100'

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 2,488,800 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.

Hiab, Inc.
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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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Next Assy.
Dwg/Cad file no.
MOFFETT / SALES

Drawing Title: MOFFETT M45P STM LP			
Project Name: SALES LAYOUT			
Drawn by:	Date:	Size:	Part No.
J W	10/13/08		
Approval:	Date Approved:	Scale:	unit wt.
		N/A	
Eng. Job no.:			