



TRUCK, HIAB CRANE & ACCESSORIES WEIGHT DISTRIBUTION, NO PAYLOAD, LIFT AXLE UP.

TOTAL WEIGHT ON FRONT AXLE	= 17,060 LBS.
TOTAL WEIGHT ON TANDEM AXLE	= 20,120 LBS.
FRONT AXLE WT. PERCENTAGE	= 46 %
TANDEM AXLE WT. PERCENTAGE	= 54 %
GROSS VEHICLE WEIGHT	= 37,180 LBS.

TRUCK, HIAB CRANE & ACCESSORIES WEIGHT DISTRIBUTION, WITH PAYLOAD, LIFT AXLE DOWN.

TOTAL WEIGHT ON FRONT AXLE	= 19,540 LBS.
TOTAL WEIGHT ON TANDEM AXLE	= 33,960 LBS.
TOTAL WEIGHT ON LIFT AXLE	= 8,500 LBS.
FRONT AXLE WT. PERCENTAGE	= 31 %
TANDEM AXLE WT. PERCENTAGE	= 55 %
LIFT AXLE WT. PERCENTAGE	= 14 %
GROSS VEHICLE WEIGHT	= 62,000 LBS.
WATER LEVEL PAYLOAD	= 24,820 LBS.

TRUCK SPECIFICATIONS

TRUCK MODEL	= FREIGHTLINER 114SD
WHEELBASE	= 278"
CAB TO TANDEM	= 212 1/2"
AXLE-TO-FRAME	= 147"
FRONT CURB WEIGHT	= 10,900 LBS.
TANDEM CURB WEIGHT	= 8,800 LBS.
FRONT G.A.W.R.	= 20,000 LBS.
TANDEM G.A.W.R.	= 46,000 LBS.
YIELD STRENGTH OF EACH FRAME RAIL	MINIMUM SECTION MODULUS REQUIRED
110,000 P.S.I. YIELD	= 32.70 in. ³
120,000 P.S.I. YIELD	= 29.98 in. ³
MINIMUM RBM/RAIL OF 3,597,300 IN-LBS	

NOTES:
 FRAME RAIL MINIMUM OF 31.00 SECTION MODULUS REQUIRED.
 FULL LENGTH SUB-FRAME REQUIRED:
 6" x 4" x 3/8" RECT. TUBING (ON TOP OF FRAME RAIL)
 5" x 3" x 3/8" RECT. TUBING (CROSSMEMBERS EVERY 3 FT.)
 LIFT AXLE & FLATBED WEIGHTS ARE ESTIMATED.
 CURB WEIGHTS ARE ESTIMATED.

TRUCK RUNS IN US (RULES FOR MOST STATES).
 20,000 LBS. ALLOWED ON FRONT AXLE.
 34,000 LBS. ALLOWED ON TANDEM AXLE.
 42,500 LBS. ALLOWED ON 9' TRIDEM.
 62,000 LBS. ALLOWED FOR GROSS WEIGHT.
 OVERALL LENGTH MUST NOT EXCEED 40'.

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... .03
 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. 302 / SALES

Drawing Title:		HIAB 302EP-5 HIPRO	
Project Name:		SALES LAYOUT	
Drawn by:	Date:	Size:	Part No.
J W	12-1-17		
Approval:	Date Approved:	Scale:	unit wt.
			Eng. Job no.: