



TRUCK, HIAB CRANE & ACCESSORIES WEIGHT DISTRIBUTION, NO PAYLOAD, TAG AXLE UP.	
TOTAL WEIGHT ON FRONT AXLE	= 14,310 LBS.
TOTAL WEIGHT ON TANDEM AXLE	= 27,070 LBS.
FRONT AXLE WT. PERCENTAGE	= 35 %
TANDEM AXLE WT. PERCENTAGE	= 65 %
GROSS VEHICLE WEIGHT	= 41,380 LBS.

TRUCK, HIAB CRANE & ACCESSORIES WEIGHT DISTRIBUTION, WITH PAYLOAD, TAG AXLE DOWN.	
TOTAL WEIGHT ON FRONT AXLE	= 17,800 LBS.
TOTAL WEIGHT ON TANDEM AXLE	= 34,000 LBS.
TOTAL WEIGHT ON TAG AXLE	= 8,500 LBS.
FRONT AXLE WT. PERCENTAGE	= 30 %
TANDEM AXLE WT. PERCENTAGE	= 56 %
TAG AXLE WT. PERCENTAGE	= 14 %
GROSS VEHICLE WEIGHT	= 60,300 LBS.
WATER WEIGHT PAYLOAD	= 18,920 LBS.

TRUCK SPECIFICATIONS	
TRUCK MODEL	= KENWORTH T880S SFA
WHEELBASE	= 294"
CAB TO TANDEM	= 208"
AXLE-TO-FRAME	= 144"
FRONT AXLE CURB WEIGHT	= 10,000 LBS.
REAR AXLE CURB WEIGHT	= 9,000 LBS.
FRONT G.A.W.R.	= 20,000 LBS.
REAR G.A.W.R.	= 46,000 LBS.
YIELD STRENGTH OF EACH FRAME RAIL	MINIMUM SECTION MODULUS REQUIRED
120,000 P.S.I. YIELD	= 38.44 in. ³
MINIMUM RBM/RAIL OF 4,613,070 IN-LBS	

NOTES:
 DOUBLE FRAME CHASSIS REQUIRED.
 FRAME RAIL MUST MEET OR EXCEED THE MINIMUM RBM REQUIRED.
 FULL LENGTH SUBFRAME REQUIRED:
 6" x 4" x 3/8" RECT. TUBING (ON TOP OF CHASSIS FRAME)
 5" x 3" x 3/8" RECT. TUBING (CROSSMEMBERS)
 CURB & BODY WEIGHTS WERE ESTIMATED.
 LIFT AXLE WEIGHTS WERE ESTIMATED.

TRUCK RUNS IN US (RULES FOR MOST STATES).
 20,000 LBS. ALLOWED ON FRONT AXLE.
 34,000 LBS. ALLOWED ON TANDEM.
 42,500 LBS. ALLOWED ON TRIDEM (9').
 62,500 LBS. ALLOWED FOR GROSS WEIGHT (31').
 MAXIMUM LENGTH CANNOT 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... .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. 425K / SALES

Drawing Title: HIAB 425K-4 HIPRO
 Project Name: SALES LAYOUT
 Drawn by: Date: Size: Part No.
 CSV 3-9-18
 Approval: Date Approved: Scale: unit wt. Eng. Job no.: