



TRUCK, HIAB CRANE & ACCESSORIES WEIGHT DISTRIBUTION, NO PAYLOAD, TAG AXLE UP.	
TOTAL WEIGHT ON FRONT AXLE	= 14,680 LBS.
TOTAL WEIGHT ON TANDEM AXLE	= 29,080 LBS.
FRONT AXLE WT. PERCENTAGE	= 34 %
TANDEM AXLE WT. PERCENTAGE	= 66 %
GROSS VEHICLE WEIGHT	= 43,760 LBS.

TRUCK, HIAB CRANE & ACCESSORIES WEIGHT DISTRIBUTION, WITH PAYLOAD, TAG AXLE DOWN.	
TOTAL WEIGHT ON FRONT AXLE	= 19,110 LBS.
TOTAL WEIGHT ON TANDEM AXLE	= 33,000 LBS.
TOTAL WEIGHT ON TAG AXLE	= 10,500 LBS.
FRONT AXLE WT. PERCENTAGE	= 30 %
TANDEM AXLE WT. PERCENTAGE	= 53 %
TAG AXLE WT. PERCENTAGE	= 17 %
GROSS VEHICLE WEIGHT	= 62,610 LBS.
WATER WEIGHT PAYLOAD	= 18,850 LBS.

TRUCK SPECIFICATIONS	
TRUCK MODEL	= VOLVO VHDF
WHEELBASE	= 291"
CAB TO TANDEM	= 206 1/2"
AXLE-TO-FRAME	= 143"
FRONT AXLE CURB WEIGHT	= 10,300 LBS.
REAR AXLE CURB WEIGHT	= 9,600 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"x4"x1/2" RECT. TUBING (ON TOP OF CHASSIS FRAME)
 5"x5"x3/8" RECT. TUBING (CROSSMEMBERS EVERY 3 FT.)
 3/8" TOP PLATE & 1/4" BOTTOM PLATE REQUIRED - FULL LENGTH
 CURB WEIGHTS WERE ESTIMATED.
 BODY WEIGHTS WERE ESTIMATED.
 LIFT AXLE WEIGHT WAS ESTIMATED.

TRUCK RUNS IN US (RULES FOR MOST STATES).
 20,000 LBS. ALLOWED ON FRONT AXLE.
 34,000 LBS. ALLOWED ON TANDEM.
 43,500 LBS. ALLOWED ON TRIDEM (10').
 63,500 LBS. ALLOWED FOR GROSS WEIGHT (32').
 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... .03
 3-PLACE ±.000... .015
 ANGULAR ±1°
 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: CSV 8-15-18	Size: Part No.
Approval: Date Approved:	Scale: unit wt. Eng. job no.: