



CRANE MAY BE DERATED IN REAR QUADRANTS AS MUCH AS 30%. ACTUAL DERATING SHALL BE BASED ON PHYSICAL TESTING.

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

TOTAL WEIGHT ON FRONT AXLE	= 14,560 LBS.
TOTAL WEIGHT ON TANDEM AXLE	= 28,980 LBS.
FRONT AXLE WT. PERCENTAGE	= 33 %
TANDEM AXLE WT. PERCENTAGE	= 67 %
GROSS VEHICLE WEIGHT	= 43,540 LBS.

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

TOTAL WEIGHT ON FRONT AXLE	= 18,550 LBS.
TOTAL WEIGHT ON TANDEM AXLE	= 34,000 LBS.
TOTAL WEIGHT ON TAG AXLE	= 9,500 LBS.
FRONT AXLE WT. PERCENTAGE	= 30 %
TANDEM AXLE WT. PERCENTAGE	= 55 %
TAG AXLE WT. PERCENTAGE	= 15 %
GROSS VEHICLE WEIGHT	= 62,050 LBS.
WATER WEIGHT PAYLOAD	= 18,510 LBS.

TRUCK SPECIFICATIONS

TRUCK MODEL	= FREIGHTLINER 114SD SFA
WHEELBASE	= 289"
CAB TO TANDEM	= 205 1/2"
AXLE-TO-FRAME	= 144"
FRONT AXLE CURB WEIGHT	= 10,200 LBS.
REAR AXLE CURB WEIGHT	= 9,400 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 & 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.
 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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Next Assy.
 Dwg/Cad file no. **425K / SALES**

Drawing Title:		HIAB 425K-4 HIPRO	
Project Name:		SALES LAYOUT	
Drawn by:	Date:	Size:	Part No.
EJM	3-28-18		
Approval:	Date Approved:	Scale:	Eng. job no.:
		unit wt.	