



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, LIFT AXLES UP.	
TOTAL WEIGHT ON FRONT AXLE	= 15,580 LBS.
TOTAL WEIGHT ON TANDEM AXLE	= 29,160 LBS.
FRONT AXLE WT. PERCENTAGE	= 35 %
TANDEM AXLE WT. PERCENTAGE	= 65 %
GROSS VEHICLE WEIGHT	= 44,740 LBS.

TRUCK, HIAB CRANE & ACCESSORIES WEIGHT DISTRIBUTION, WITH PAYLOAD, LIFT AXLES DOWN.	
TOTAL WEIGHT ON FRONT AXLE	= 17,140 LBS.
TOTAL WEIGHT ON PUSHER AXLE	= 8,500 LBS.
TOTAL WEIGHT ON TANDEM AXLE	= 33,860 LBS.
TOTAL WEIGHT ON TAG AXLE	= 8,500 LBS.
FRONT AXLE WT. PERCENTAGE	= 26 %
PUSHER AXLE WT. PERCENTAGE	= 12 %
TANDEM AXLE WT. PERCENTAGE	= 50 %
TAG AXLE WT. PERCENTAGE	= 12 %
GROSS VEHICLE WEIGHT	= 68,000 LBS.
WATER WEIGHT PAYLOAD	= 23,260 LBS.

TRUCK SPECIFICATIONS	
TRUCK MODEL	= FREIGHTLINER 114SD SFA
WHEELBASE	= 289"
CAB TO TANDEM	= 205 1/2"
AXLE-TO-FRAME	= 144"
FRONT AXLE CURB WEIGHT	= 10,299 LBS.
REAR AXLE CURB WEIGHT	= 10,502 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. <sup>3</sup>
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 PROVIDED WITH TAG INSTALLED.  
 PUSHER WEIGHT WAS ESTIMATED.  
 BODY 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').  
 52,000 LBS. ALLOWED ON QUAD (15').  
 68,000 LBS. ALLOWED FOR GROSS WEIGHT (32').  
 MAXIMUM LENGTH CANNOT EXCEED 45.'

**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.**  
 Hiab, Inc.  
 12233 Williams Road  
 Perrysburg, Ohio 43551  
 Tel (419) 482-6000  
 Fax (419) 482-6001  
 Tolerances - unless otherwise noted.  
 Tolerances are in inches.  
 2-PLACE ±.00..... .03  
 3-PLACE ±.000..... .015  
 ANGULAR ± .....1'  
 FRACTIONAL 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 8-29-18

**Size:** unit wt. **Part No.:** Eng. job no.:

**Approval:** Date Approved: **Scale:**