



385/65R22.5  
TIRES REQ'D

TRUCK, HIAB CRANE & ACCESSORIES WEIGHT DISTRIBUTION, <u>NO</u> PAYLOAD.	
TOTAL WEIGHT ON FRONT AXLE	= 10,820 LBS.
TOTAL WEIGHT ON REAR AXLE	= 20,310 LBS.
FRONT AXLE WT. PERCENTAGE	= 35 %
REAR AXLE WT. PERCENTAGE	= 65 %
GROSS VEHICLE WEIGHT	= 31,130 LBS.

TRUCK, HIAB CRANE & ACCESSORIES WEIGHT DIST., <u>WITH</u> PAYLOAD.	
TOTAL WEIGHT ON FRONT AXLE	= 15,970 LBS.
TOTAL WEIGHT ON REAR AXLE	= 34,000 LBS.
FRONT AXLE WT. PERCENTAGE	= 32 %
REAR AXLE WT. PERCENTAGE	= 68 %
GROSS VEHICLE WEIGHT	= 49,970 LBS.
WATER LEVEL PAYLOAD	= 18,840 LBS.

TRUCK SPECIFICATIONS	
TRUCK MODEL	= FREIGHTLINER M2-106
WHEELBASE	= 276"
CAB TO AXLE	= 210 1/2"
AXLE-TO-FRAME	= 94"
FRONT AXLE CURB WEIGHT	= 9,200 LBS.
REAR AXLE CURB WEIGHT	= 9,100 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	= 22.89 in. <sup>3</sup>
MINIMUM RBM/RAIL OF 2,746,770 IN-LBS	

**NOTES:**  
 DOUBLE FRAME CHASSIS REQUIRED.  
 FRAME RAIL MUST MEET THE MINIMUM RBM REQUIRED.  
 RISER REQUIRED FOR OUTRIGGER CLEARANCE:  
 8"X4"X1/2" RECT. TUBING (ON TOP OF FRAME RAIL)  
 6"X3"X1/2" RECT. TUBING (CROSS MEMBERS)  
 FLATBED WEIGHT WAS ESTIMATED.  
 CURB WEIGHTS WERE ESTIMATED.

TRUCK RUNS IN US (RULES FOR MOST STATES).  
 20,000 LBS. ALLOWED ON FRONT AXLE GAWR.  
 34,000 LBS. ALLOWED ON TANDEM AXLE.  
 54,000 LBS. ALLOWED FOR GROSS VEHICLE 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.

<b>Hiab, Inc.</b> Hiab, Inc. 12233 Williams Road Perrysburg, Ohio 43551 Tel (419) 482-6000 Fax (419) 482-6001 <small>Tolerances - unless otherwise noted. Tolerances are in inches.</small> 2-PLACE ±.00..... .03 3-PLACE ±.000..... .015 ANGULAR ± .....1° FRACTIONAL ± .....1/16" Break all sharp corners unless otherwise specified.	THIS PROPERTY AND ALL INFORMATION THEREIN IS THE PROPERTY OF HIAB, INC., 12233 WILLIAMS RD, PERRYSBURG, OHIO 43551 AND IS CONFIDENTIAL. IT MUST NOT BE MADE PUBLIC OR COPIED. THIS DRAWING IS LOANED TO RETURN UPON DEMAND AND SHALL NOT BE USED DIRECTLY OR INDIRECTLY IN ANY WAY DETRIMENTAL TO OUR INTERESTS. OUR PRIOR SPECIFIC APPROVAL IS REQUIRED FOR EXPOSURE OF THIS DRAWING TO OTHERS FOR ANY PURPOSE.	Drawing Title: <b>HIAB 225L-3 HIDUO CRANE</b>
	Project Name: <b>SALES LAYOUT</b>	Drawn by: PWP Date: 7-2-21
Dwg/Cad file no. <b>225 / SALES</b>	Approval:	Date Approved: