



TRUCK, HIAB CRANE & ACCESSORIES WEIGHT DISTRIBUTION, <u>NO PAYLOAD.</u>	
TOTAL WEIGHT ON FRONT AXLE	= 8,710 LBS.
TOTAL WEIGHT ON TANDEM AXLE	= 19,700 LBS.
FRONT AXLE WT. PERCENTAGE	= 31 %
TANDEM AXLE WT. PERCENTAGE	= 69 %
GROSS VEHICLE WEIGHT	= 28,410 LBS.

TRUCK, HIAB CRANE & ACCESSORIES WEIGHT DISTRIBUTION, <u>WITH PAYLOAD AS SHOWN.</u>	
TOTAL WEIGHT ON FRONT AXLE	= 15,230 LBS.
TOTAL WEIGHT ON TANDEM AXLE	= 34,000 LBS.
FRONT AXLE WT. PERCENTAGE	= 31 %
TANDEM AXLE WT. PERCENTAGE	= 69 %
GROSS VEHICLE WEIGHT	= 49,230 LBS.
PAYLOAD AS SHOWN	= 20,820 LBS.

TRUCK SPECIFICATIONS	
TRUCK MODEL	= FREIGHTLINER 114SD SFA
WHEELBASE	= 309"
CAB TO TANDEM	= 225 1/2"
AXLE-TO-FRAME	= 135 1/2"
FRONT TARE WEIGHT	= 8,800 LBS.
TANDEM TARE WEIGHT	= 8,000 LBS.
FRONT G.A.W.R.	= 20,000 LBS.
TANDEM G.A.W.R.	= 40,000 LBS.
YIELD STRENGTH OF EACH FRAME RAIL	MINIMUM SECTION MODULUS REQUIRED
120,000 P.S.I. YIELD	= 18.29 in. <sup>3</sup>
MINIMUM RBM/RAIL OF 2,195,387 IN-LBS	

**NOTES:**  
 FRAME RAIL MUST MEET MINIMUM RBM REQUIRED.  
 RISER REQUIRED FOR OUTRIGGER CLEARANCE:  
 4" x 4" x 3/8" RECT. TUBING (ON TOP OF FRAME RAIL)  
 3" x 3" x 3/8" RECT. TUBING (CROSSMEMBERS EVERY 3 FT.)  
 CURB WEIGHTS ARE ESTIMATED.  
 BODY WEIGHT IS 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 WEIGHT GAWR.  
 ALLOWABLE LEGAL OVERALL LENGTH IS 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.

**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 ±.000... .05  
 3-PLACE ±.000... .015  
 ANGULAR ± .....1/16"  
 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.

Next Assy.  
 Dwg/Cad file no. 178 / SALES

Drawing Title: <b>HIAB 178B-3 DUO CRANE</b>			
Project Name: <b>SALES LAYOUT</b>			
Drawn by:	Date:	Size:	Part No.
CSV	5-4-16		
Approval:	Date Approved:	Scale:	unit wt.
			Eng. Job no.: