



TRUCK, HIAB CRANE & ACCESSORIES WEIGHT DISTRIBUTION, NO PAYLOAD.	
TOTAL WEIGHT ON FRONT AXLE	= 11,720 LBS.
TOTAL WEIGHT ON TANDEM AXLE	= 20,580 LBS.
FRONT AXLE WT. PERCENTAGE	= 36 %
TANDEM AXLE WT. PERCENTAGE	= 64 %
GROSS VEHICLE WEIGHT	= 32,300 LBS.

TRUCK, HIAB CRANE & ACCESSORIES WEIGHT DISTRIBUTION, WITH PAYLOAD.	
TOTAL WEIGHT ON FRONT AXLE	= 16,080 LBS.
TOTAL WEIGHT ON TANDEM AXLE	= 34,000 LBS.
FRONT AXLE WT. PERCENTAGE	= 32 %
TANDEM AXLE WT. PERCENTAGE	= 68 %
GROSS VEHICLE WEIGHT	= 50,080 LBS.
*WATER WEIGHT PAYLOAD	= 17,780 LBS.

TRUCK SPECIFICATIONS	
TRUCK MODEL	= FREIGHTLINER 114SD SBA
WHEELBASE	= 277"
CAB TO TANDEM	= 211 1/2"
AXLE-TO-FRAME	= 115 1/8"
FRONT AXLE CURB WEIGHT	= 10,360 LBS.
REAR AXLE CURB WEIGHT	= 9,185 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	= 13.40 in. ³
MINIMUM RBM/RAIL OF 1,607,491 IN-LBS	

NOTES:
 DOUBLE FRAME CHASSIS REQUIRED.
 FRAME RAIL MUST MEET OR EXCEED THE MINIMUM RBM REQUIRED.
 RISER REQUIRED FOR OUTRIGGER CLEARANCE:
 6"x4"x3/8" RECT. TUBING (ON TOP OF CHASSIS FRAME)
 5"x5"x3/8" RECT. TUBING (CROSSMEMBERS EVERY 3 FT.)
 CURB WEIGHTS WERE SCALED.
 BODY WEIGHT WAS ESTIMATED.

TRUCK RUNS IN US (RULES FOR MOST STATES).
 20,000 LBS. ALLOWED ON FRONT AXLE.
 34,000 LBS. ALLOWED ON TANDEM.
 54,000 LBS. ALLOWED FOR GROSS WEIGHT (25').
 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.

Hiab, Inc.
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 Tolerances - unless otherwise noted.
 Tolerances are in inches.
 2-PLACE ±.00..... .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. J14S 79 / SALES

Drawing Title:		J14S 79	
Project Name:		SALES LAYOUT	
Drawn by:	Date:	Size:	Part No.
SMG	7-10-19		
Approval:	Date Approved:	Scale:	unit wt.
			Eng. job no.: