



TRUCK, HIAB CRANE & ACCESSORIES WEIGHT DISTRIBUTION, NO PAYLOAD, TAG AXLE UP.	
TOTAL WEIGHT ON FRONT AXLE	= 15,260 LBS.
TOTAL WEIGHT ON REAR AXLE	= 25,190 LBS.
FRONT AXLE WT. PERCENTAGE	= 38 %
REAR AXLE WT. PERCENTAGE	= 62 %
GROSS VEHICLE WEIGHT	= 40,450 LBS.

TRUCK, HIAB CRANE & ACCESSORIES WEIGHT DISTRIBUTION, WITH PAYLOAD, TAG AXLE DOWN.	
TOTAL WEIGHT ON FRONT AXLE	= 19,770 LBS.
TOTAL WEIGHT ON REAR AXLE	= 34,000 LBS.
TOTAL WEIGHT ON TAG AXLE	= 8,500 LBS.
FRONT AXLE WT. PERCENTAGE	= 32 %
REAR AXLE WT. PERCENTAGE	= 55 %
TAG AXLE WT. PERCENTAGE	= 13 %
GROSS VEHICLE WEIGHT	= 62,270 LBS.
WATER LEVEL PAYLOAD	= 21,820 LBS.

TRUCK SPECIFICATIONS	
TRUCK MODEL	= FREIGHTLINER 114SD
WHEELBASE	= 277"
CAB TO TANDEM	= 211 1/2"
AXLE-TO-FRAME	= 139"
FRONT AXLE CURB WEIGHT	= 10,900 LBS.
REAR AXLE CURB WEIGHT	= 8,800 LBS.
FRONT G.A.W.R.	= 20,000 LBS.
REAR G.A.W.R.	= 46,000 LBS.
YIELD STRENGTH OF EACH CHASSIS FRAME	MINIMUM SECTION MODULUS REQUIRED
110,000 P.S.I. YIELD	= 31.52 in. ^{^3}
120,000 P.S.I. YIELD	= 28.89 in. ^{^3}
MINIMUM RBM/RAIL OF 3,466,800 IN-LBS	

NOTES:
 DOUBLE FRAME CHASSIS REQUIRED.
 FRAME RAIL MUST MEET OR EXCEED THE MIN. RBM REQ'D.
 FULL LENGTH SUB-FRAME REQUIRED:
 6"x4"x3/8" RECT. TUBING (ON TOP OF CHASSIS FRAME)
 5"x3"x3/8" RECT. TUBING (CROSSMEMBERS EVERY 3 FT.)
 FLATBED AND LIFT AXLE WEIGHTS ARE ESTIMATED.
 CURB WEIGHTS ARE 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')
 62,500 LBS. ALLOWED GROSS WEIGHT.
 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.

Cargotec USA

Cargotec USA
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 Perrysburg, Ohio 43551
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 Tolerances - unless otherwise noted.
 Tolerances are in inches
 2-PLACE ±.000... .05
 3-PLACE ±.000... .015
 ANGULAR ±/16"
 FRACTIONAL ±/16"
 Break all sharp corners unless otherwise specified.

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

Drawing Title:	285K-3 HI-PRO		
Project Name:	SALES LAYOUT		
Drawn by:	Date:	Size:	Part No.
J W	9-11-15		
Approval:	Date Approved:	Scale:	unit wt.
			Eng. Job no.: