



TRUCK, HIAB CRANE & ACCESSORIES WEIGHT DISTRIBUTION, WITH PAYLOAD, LIFT AXLES UP.	
TOTAL WEIGHT ON FRONT AXLE	= 13,650 LBS.
TOTAL WEIGHT ON TANDEM AXLE	= 27,460 LBS.
FRONT AXLE WT. PERCENTAGE	= 33 %
TANDEM AXLE WT. PERCENTAGE	= 67 %
GROSS VEHICLE WEIGHT	= 41,110 LBS.

TRUCK, HIAB CRANE & ACCESSORIES WEIGHT DISTRIBUTION, WITH PAYLOAD, LIFT AXLES DOWN.	
TOTAL WEIGHT ON FRONT AXLE	= 13,630 LBS.
TOTAL WEIGHT ON PUSHER AXLE	= 7,500 LBS.
TOTAL WEIGHT ON TANDEM AXLE	= 31,130 LBS.
TOTAL WEIGHT ON TAG AXLE	= 11,000 LBS.
FRONT AXLE WT. PERCENTAGE	= 22 %
PUSHER AXLE WT. PERCENTAGE	= 12 %
TANDEM AXLE WT. PERCENTAGE	= 49 %
TAG AXLE WT. PERCENTAGE	= 17 %
GROSS VEHICLE WEIGHT	= 63,260 LBS.
PAYLOAD EVENLY DISTRIBUTED	= 22,150 LBS.

TRUCK SPECIFICATIONS	
TRUCK MODEL	= FREIGHTLINER 114SD SFA
WHEELBASE	= 300"
CAB TO TANDEM	= 216 1/2"
AXLE-TO-FRAME	= 125 1/2"
FRONT AXLE CURB WEIGHT	= 10,600 LBS.
TANDEM AXLE CURB WEIGHT	= 8,600 LBS.
FRONT G.A.W.R.	= 20,000 LBS.
TANDEM G.A.W.R.	= 46,000 LBS.
YIELD STRENGTH OF EACH FRAME RAIL	MINIMUM SECTION MODULUS REQUIRED
120,000 P.S.I. YIELD	= 22.67 in. ³
MINIMUM RBM/RAIL OF 2,720,926 IN-LBS	

NOTES:
 DOUBLE FRAME CHASSIS RECOMMENDED.
 FRAME RAIL MINIMUM SECTION MODULUS REQUIRED.
 RISER REQUIRED FOR OUTRIGGER CLEARANCE:
 6" X 4" X 3/8" RECT. TUBING (ON TOP OF FRAME RAIL)
 5" X 3" X 3/8" RECT. TUBING (CROSS MEMBERS EVERY 3 FT.)
 LIFT AXLE WEIGHTS WERE ESTIMATED.
 BODY WEIGHT WAS ESTIMATED.
 CURB WEIGHTS WERE ESTIMATED.
 LONG WHEELBASE MAY MAKE TURNING DIFFICULT.

TRUCK RUNS IN US (RULES FOR MOST STATES).
 20,000 LBS. ALLOWED ON FRONT AXLE GAWR.
 34,000 LBS. ALLOWED ON TANDEM.
 42,500 LBS. ALLOWED ON 3 AXLE GROUP (9').
 50,500 LBS. ALLOWED ON 4 AXLE GROUP (13').
 68,000 LBS. ALLOWED FOR GROSS WEIGHT (32').
 ALLOWABLE LEGAL OVERALL LENGTH IS 40'.

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
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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.
JONSERED / SALES

Drawing Title:
LOGLIFT J14S-96 +MULTILILT ULT21S-6100

Project Name:
SALES LAYOUT

Drawn by/Date:	Size:	Part No.
SMG 1-9-20		
Approval:	Date Approved:	Scale: unit wt.
		Eng. job no.: