



REV. PART NO. H4081

CRANE MAY BE DERATED IN REAR QUADRANTS AS MUCH AS 20%. ACTUAL DERATING SHALL BE BASED ON PHYSICAL TESTING.

425/65R22.5 TIRES REQ'D

83 1/2" 65 1/2" 205 1/2" CT 97 1/2" AF

289" WB 52" 9'

40' OVERALL LENGTH

TRUCK, HIAB CRANE & ACCESSORIES WEIGHT DISTRIBUTION, WITH PAYLOAD, LIFT AXLE DOWN.	
TOTAL WEIGHT ON FRONT AXLE	= 15,230 LBS.
TOTAL WEIGHT ON LIFT AXLE	= 8,500 LBS.
TOTAL WEIGHT ON TANDEM AXLE	= 31,800 LBS.
FRONT AXLE WT. PERCENTAGE	= 27 %
LIFT AXLE WT. PERCENTAGE	= 15 %
TANDEM AXLE WT. PERCENTAGE	= 57 %
GROSS VEHICLE WEIGHT	= 55,530 LBS.

TRUCK, HIAB CRANE & ACCESSORIES WEIGHT DISTRIBUTION, WITH PAYLOAD, LIFT AXLE DOWN.	
TOTAL WEIGHT ON FRONT AXLE	= 15,320 LBS.
TOTAL WEIGHT ON LIFT AXLE	= 8,500 LBS.
TOTAL WEIGHT ON TANDEM AXLE	= 34,000 LBS.
FRONT AXLE WT. PERCENTAGE	= 26 %
LIFT AXLE WT. PERCENTAGE	= 15 %
TANDEM AXLE WT. PERCENTAGE	= 59 %
GROSS VEHICLE WEIGHT	= 57,820 LBS.
PAYLOAD EVENLY DISTRIBUTED	= 2,280 LBS.

TRUCK SPECIFICATIONS	
TRUCK MODEL	= FREIGHTLINER 114SD SFA
WHEELBASE	= 289"
CAB TO TANDEM	= 205 1/2"
AXLE-TO-FRAME	= 97 1/2"
FRONT AXLE CURB WEIGHT	= 10,704 LBS.
TANDEM AXLE CURB WEIGHT	= 10,375 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	= 32.13 in. ³
MINIMUM RBM/RAIL OF 3,856,123 IN-LBS	

NOTES:
 DOUBLE FRAME CHASSIS REQUIRED.
 FRAME RAIL MINIMUM OF 30.0 SECTION MODULUS REQUIRED.
 FULL LENGTH SUB-FRAME REQUIRED:
 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.)
 CURB WEIGHTS WERE PROVIDED WITH LIFT AXLE INSTALLED.
 MOFFETT MUST BE REMOVED FROM KIT WHEN LIFTING OVER THE REAR.
 LIFT AXLE MUST BE DOWN IN ALL FORWARD GEARS.

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').
 59,500 LBS. ALLOWED FOR GROSS WEIGHT (26').
 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
 Hiab, Inc.
 12233 Williams Road
 Perrysburg, Ohio 43051
 Tel (419) 482-6000
 Fax (419) 482-6001
 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.

THIS PROPERTY AND ALL INFORMATION THEREIN IS THE PROPERTY OF HIAB, INC., 12233 WILLIAMS RD, PERRYSBURG, OHIO 43051 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:
HIAB 358E-5 JIB 100X-2 HIPRO

Project Name:
SALES LAYOUT

Drawn by: Date:
SMG 10-24-19

Approval: Date Approved: Size: Part No.
 Scale: unit wt. Eng. job no.:

Dwg/Cad file no.
352 / SALES