

REV. PART NO.
H4081A

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

**TRUCK, HIAB CRANE & ACCESSORIES WEIGHT
DISTRIBUTION, WITH PAYLOAD, LIFT AXLE DOWN.**

TOTAL WEIGHT ON FRONT AXLE	=	18,230 LBS.
TOTAL WEIGHT ON LIFT AXLE	=	8,500 LBS.
TOTAL WEIGHT ON TANDEM AXLE	=	21,320 LBS.
FRONT AXLE WT. PERCENTAGE	=	38 %
LIFT AXLE WT. PERCENTAGE	=	18 %
TANDEM AXLE WT. PERCENTAGE	=	44 %
GROSS VEHICLE WEIGHT	=	48,050 LBS.

**TRUCK, HIAB CRANE & ACCESSORIES WEIGHT
DISTRIBUTION, WITH PAYLOAD, LIFT AXLE DOWN.**

TOTAL WEIGHT ON FRONT AXLE	=	18,670 LBS.
TOTAL WEIGHT ON LIFT AXLE	=	8,500 LBS.
TOTAL WEIGHT ON TANDEM AXLE	=	32,330 LBS.
FRONT AXLE WT. PERCENTAGE	=	32 %
LIFT AXLE WT. PERCENTAGE	=	14 %
TANDEM AXLE WT. PERCENTAGE	=	54 %
GROSS VEHICLE WEIGHT	=	59,500 LBS.
PAYLOAD EVENLY DISTRIBUTED	=	11,450 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

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Tolerances - unless otherwise noted.
Tolerances are in inches
2-PLACE .0000 .03
3-PLACE .0000 .015
ANGULAR .2° .1°
FRACTIONAL .2° .1/16°
Break all sharp corners unless otherwise specified.

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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