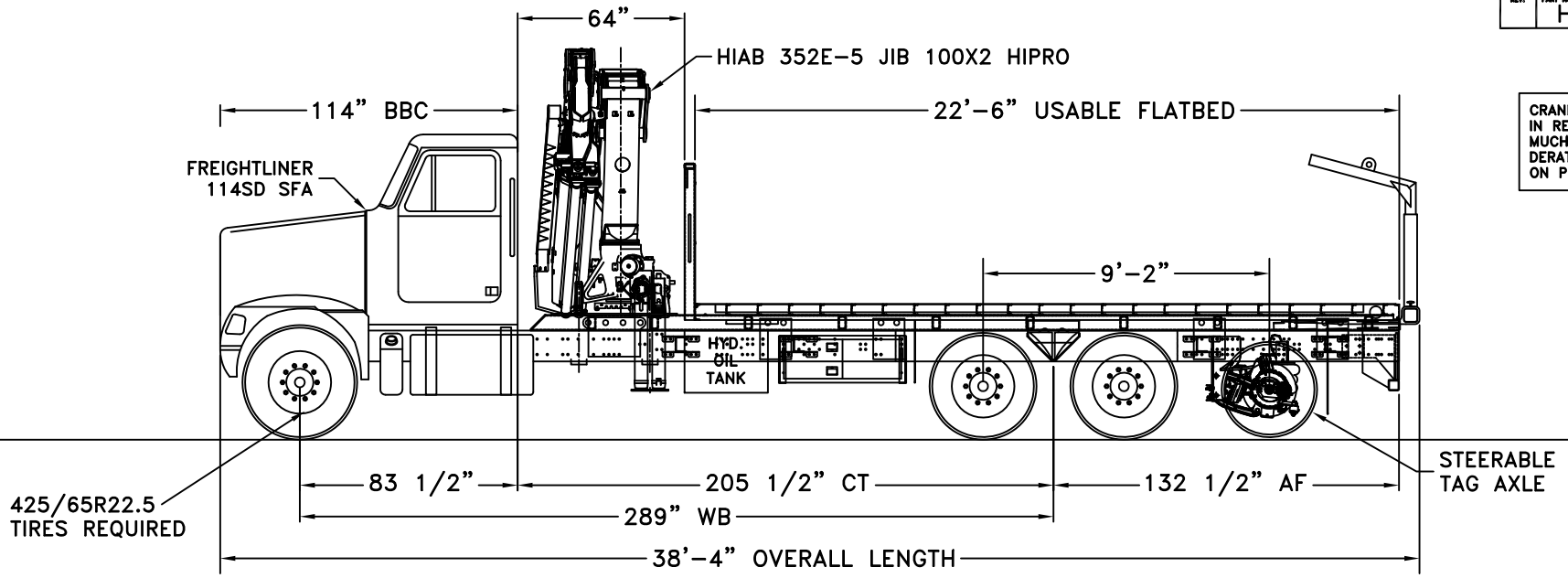
REV. | PART NO. H3784



CRANE MAY BE DERATED IN REAR QUADRANTS AS MUCH AS 25%. ACTUAL DERATING SHALL BE BASED ON PHYSICAL TESTING.

TRUCK, HIAB CRANE & ACCESSORIES WEIGHT DISTRIBUTION, NO PAYLOAD, LIFT AXLE UP.	
TOTAL WEIGHT ON FRONT AXLE	= 17,930 LBS.
TOTAL WEIGHT ON TANDEM AXLE	= 22,390 LBS.
FRONT AXLE WT. PERCENTAGE	= 44 %
TANDEM AXLE WT. PERCENTAGE	= 56 %
GROSS VEHICLE WEIGHT	= 40,320 LBS.

TRUCK, HIAB CRANE & ACCESSORIES WEIGHT DISTRIBUTION, WITH PAYLOAD, LIFT AXLE DOWN.	
TOTAL WEIGHT ON FRONT AXLE	= 19,940 LBS.
TOTAL WEIGHT ON TANDEM AXLE	= 34,000 LBS.
TOTAL WEIGHT ON LIFT AXLE	= 6,500 LBS.
FRONT AXLE WT. PERCENTAGE	= 33 %
TANDEM AXLE WT. PERCENTAGE	= 56 %
LIFT AXLE WT. PERCENTAGE	= 11 %
GROSS VEHICLE WEIGHT	= 60,440 LBS.
PAYLOAD EVENLY DISTRIBUTED	= 20,120 LBS.

TRUCK SPECIFICATIONS	
TRUCK MODEL	= FREIGHTLINER 114SD
WHEELBASE	= 289"
CAB TO TANDEM	= 205 1/2"
AXLE-TO-FRAME	= 132 1/2"
FRONT CURB WEIGHT	= 10,200 LBS.
TANDEM CURB WEIGHT	= 9,300 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	= 32.01 in.^3

MINIMUM RBM/RAIL OF 3,841,749 IN-LBS

NOTES:

FRAME RAIL MUST MEET OR EXCEED THE MIN. RBM 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 (CROSSMEMBERS EVERY 3 FT.)
FLATBED WEIGHT IS ESTIMATED.
CURB WEIGHTS WERE ESTIMATED.

TRUCK RUNS IN US (RULES FOR MOST STATES).
20,000 LBS. ALLOWED ON FRONT AXLE.
34,000 LBS. ALLOWED ON TANDEM AXLE.
42,500 LBS. ALLOWED ON TRIDEM. (9')
62,500 LBS. ALLOWED FOR GROSS WEIGHT. (31')
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.

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. 352 / SALES

Drawing Title: HIAB 352E-5 JIB 100X2 HIPRO

Project Name: SALES LAYOUT

Drawn by:	Date:	Size:	Part No.	
SMG	5-29-18			
Approval:	Date Approved:	Scale:	unit wt.	Eng. job no.: