

113 1/2" BBC

4"

4"

22' USABLE BODY

50 1/2"

HIAB 188B-2
HIDUO

FREIGHTLINER
114SD SBA

HYD. OIL
TANK

65 1/2"

192 1/2" CT

129 3/4" AF

258" WB

36'-8" OVERALL LENGTH

**TRUCK, HIAB CRANE & ACCESSORIES WEIGHT
DISTRIBUTION, NO PAYLOAD, LIFT AXLE UP.**

TOTAL WEIGHT ON FRONT AXLE = 9,390 LBS.
TOTAL WEIGHT ON REAR AXLE = 19,880 LBS.
FRONT AXLE WT. PERCENTAGE = 32 %
REAR AXLE WT. PERCENTAGE = 68 %
GROSS VEHICLE WEIGHT = 29,270 LBS.

NOTES:

FRAME RAIL MUST MEET THE MINIMUM RBM REQUIRED.
RISER REQUIRED FOR OUTRIGGER CLEARANCE:
4"X4"X3/8" SQ. TUBING (ON TOP OF FRAME RAIL)
3"X3"X3/8" SQ. TUBING (CROSS MEMBERS)
CUSTOM BODY WEIGHTS IS ESTIMATED.
CURB WEIGHTS WERE ESTIMATED.

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

TOTAL WEIGHT ON FRONT AXLE = 18,570 LBS.
TOTAL WEIGHT ON REAR AXLE = 32,930 LBS.
TOTAL WEIGHT ON LIFT AXLE = 9,000 LBS.
FRONT AXLE WT. PERCENTAGE = 31 %
REAR AXLE WT. PERCENTAGE = 54 %
TAG AXLE WT. PERCENTAGE = 15 %
GROSS VEHICLE WEIGHT = 60,500 LBS.
PAYLOAD AS SHOWN = 31,230 LBS.

TRUCK RUNS IN US. (RULES FOR MOST STATES)
20,000 LBS. ALLOWED ON FRONT AXLE GAWR.
34,000 LBS. ALLOWED ON TANDEM AXLE.
42,500 LBS. ALLOWED ON TRIDEM AXLE. (9')
60,500 LBS. ALLOWED FOR GROSS WEIGHT. (28')
MAXIMUM LENGTH CANNOT EXCEED 40'.

TRUCK SPECIFICATIONS

TRUCK MODEL = FREIGHTLINER 114SD
WHEELBASE = 258"
CAB TO TANDEM = 192 1/2"
AXLE-TO-FRAME = 129 3/4"

FRONT AXLE TARE WEIGHT = 10,300 LBS.
REAR AXLE TARE WEIGHT = 7,100 LBS.
FRONT G.A.W.R. = 20,000 LBS.
REAR G.A.W.R. = 40,000 LBS.

YIELD STRENGTH OF EACH FRAME RAIL = 120,000 P.S.I.
MINIMUM SECTION MODULUS REQUIRED = 19.64 in.^3
MINIMUM RBM/RAIL OF 2,356,844 IN-LBS

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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APPROVAL IS REQUIRED FOR EXPOSURE OF THIS
DRAWING TO OTHERS FOR ANY PURPOSE.

Next Assy.

Dwg/Cad file no.
188 / SALES

Drawing Title:

HIAB 188B-2

Project Name:

SALES LAYOUT

Drawn by:

SMG

Approval:

12-17-19

Date Approved:

Size:

12-17-19

Scale:

N/A

Part No.

unit wt.

Eng. job no.: