



REV. PART NO. H4007

YIELD STRENGTH
120,000 P.S.I. YIELD

CRANE MIN. SECTION
MODULUS REQUIRED
= 66.02 in.³

CRANE MIN. RBM/RAIL = 7,922,200 IN-LBS

TRUCK, HIAB CRANE & ACCESSORIES WEIGHT DISTRIBUTION, NO PAYLOAD, TAG AXLE DOWN.	
TOTAL WEIGHT ON FRONT AXLE	= 15,020 LBS.
TOTAL WEIGHT ON TANDEM AXLE	= 28,600 LBS.
TOTAL WEIGHT ON LIFT AXLE #3	= 8,500 LBS.
FRONT AXLE WT. PERCENTAGE	= 29 %
TANDEM AXLE WT. PERCENTAGE	= 55 %
LIFT AXLE WT. PERCENTAGE	= 16 %
GROSS VEHICLE WEIGHT	= 52,120 LBS.

TRUCK SPECIFICATIONS	
TRUCK MODEL	= PETERBILT 367
WHEELBASE	= 305"
CAB TO TANDEM	= 228"
AXLE-TO-FRAME	= 120"
FRONT CURB WEIGHT	= 11,900 LBS.
TANDEM CURB WEIGHT	= 9,900 LBS.
FRONT G.A.W.R.	= 20,000 LBS.
TANDEM G.A.W.R.	= 46,000 LBS.
YIELD STRENGTH OF EACH FRAME RAIL	120,000 P.S.I. YIELD
MINIMUM SECTION MODULUS REQUIRED	= 37.70 in. ³
MINIMUM RBM/RAIL = 4,524,000 IN-LBS	

TRUCK, HIAB CRANE & ACCESSORIES WEIGHT DIST., WITH PAYLOAD, PUSHERS & TAG DOWN.	
TOTAL WEIGHT ON FRONT AXLE	= 16,350 LBS.
TOTAL WEIGHT ON LIFT AXLE #1	= 7,000 LBS.
TOTAL WEIGHT ON LIFT AXLE #2	= 7,500 LBS.
TOTAL WEIGHT ON TANDEM AXLE	= 33,650 LBS.
TOTAL WEIGHT ON LIFT AXLE #3	= 8,500 LBS.
FRONT AXLE WT. PERCENTAGE	= 22 %
LIFT AXLE #1 WT. PERCENTAGE	= 10 %
LIFT AXLE #2 WT. PERCENTAGE	= 10 %
TANDEM AXLE WT. PERCENTAGE	= 46 %
LIFT AXLE #3 WT. PERCENTAGE	= 12 %
TRUCK GROSS VEHICLE WEIGHT	= 73,000 LBS.
WATER LEVEL PAYLOAD	= 20,880 LBS.

NOTES:
 DOUBLE FRAME CHASSIS REQUIRED.
 FRAME RAIL MIN. OF 37.7 SECTION MODULUS REQ'D.
 FULL LENGTH SUB-FRAME REQUIRED:
 8"x4"x1/2" RECT. TUBING (ON TOP OF CHASSIS FRAME)
 6"x4"x1/2" RECT. TUBING (CROSSMEMBERS EVERY 3 FT.)
 1/2" TOP & 3/8" BOTTOM PLATE REQUIRED.
 FLATBED BODY WEIGHT WAS ESTIMATED.
 CURB WEIGHTS WERE ESTIMATED.
 TAG 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 AXLE.
 42,500 LBS. ALLOWED ON 3 AXLE GROUP. (9')
 51,500 LBS. ALLOWED ON 4 AXLE GROUP. (14')
 58,500 LBS. ALLOWED ON 5 AXLE GROUP. (17')
 73,000 LBS. ALLOWED FOR TRUCK GROSS WEIGHT (32').
 OVERALL LENGTH MUST NOT EXCEED 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.
 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 ±.000..... .03
 3-PLACE ±.000..... .015
 ANGULAR ± 1'
 FRACTIONAL ± 1/16"
 Break all sharp corners unless otherwise specified.

Dwg/Cad file no. 658 / SALES

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Hiab 658EP-2 HI PRO CRANE

SALES LAYOUT

Project Name: HIAB 658EP-2 HI PRO CRANE

Next Assy.

Drawing Title: HIAB 658EP-2 HI PRO CRANE

Drawn by: PWP Date: 5-31-19

Approval: PWP Date Approved: 5-31-19

Size: unit wt. Part No. Eng. job no.: