



| TRUCK, HIAB CRANE & ACCESSORIES WEIGHT DISTRIBUTION, <u>NO PAYLOAD</u> , LIFT AXLES UP. |               |
|---|---------------|
| TOTAL WEIGHT ON FRONT AXLE  | = 18,330 LBS. |
| TOTAL WEIGHT ON TANDEM AXLE   | = 26,010 LBS. |
| FRONT AXLE WT. PERCENTAGE   | = 41 %        |
| TANDEM AXLE WT. PERCENTAGE  | = 59 %        |
| GROSS VEHICLE WEIGHT  | = 44,340 LBS. |

| TRUCK, HIAB CRANE & ACCESSORIES WEIGHT DISTRIBUTION, <u>WITH PAYLOAD</u> , LIFT AXLES DOWN. |               |
|---|---------------|
| TOTAL WEIGHT ON FRONT AXLE  | = 18,370 LBS. |
| TOTAL WEIGHT ON PUSHER AXLE   | = 9,000 LBS.  |
| TOTAL WEIGHT ON TANDEM AXLE   | = 32,130 LBS. |
| TOTAL WEIGHT ON TAG AXLE  | = 9,000 LBS.  |
| FRONT AXLE WT. PERCENTAGE   | = 27 %        |
| LIFT AXLE WT. PERCENTAGE  | = 13 %        |
| TANDEM AXLE WT. PERCENTAGE  | = 47 %        |
| LIFT AXLE WT. PERCENTAGE  | = 13 %        |
| GROSS VEHICLE WEIGHT  | = 68,500 LBS. |
| PAYLOAD EVENLY DISTRIBUTED  | = 24,160 LBS. |

| TRUCK SPECIFICATIONS                 |                                  |
|--------------------------------------|----------------------------------|
| TRUCK MODEL                          | = FREIGHTLINER 114SD             |
| WHEELBASE                            | = 289"                           |
| CAB TO TANDEM                        | = 205 1/2"                       |
| AXLE-TO-FRAME                        | = 153 3/4"                       |
| FRONT AXLE CURB WEIGHT               | = 10,200 LBS.                    |
| TANDEM AXLE 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                 | = 37.00 in. <sup>3</sup>         |
| MINIMUM RBM/RAIL OF 4,440,000 IN-LBS |                                  |

**NOTES:**  
 DOUBLE FRAME CHASSIS REQUIRED.  
 FRAME RAIL MINIMUM OF 37.0 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 (CROSSMEMBERS EVERY 3 FT.)  
 FLATBED & LIFT AXLE WEIGHTS ARE ESTIMATED.  
 CURB WEIGHTS WERE PROVIDED.

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').  
 52,500 LBS. ALLOWED ON 4 AXLE GROUP (16').  
 68,500 LBS. ALLOWED FOR GROSS WEIGHT (33').  
 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.  
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Tolerances - unless otherwise noted.  
 Tolerances are in inches  
 2-PLACE ±.00..... .03  
 3-PLACE ±.000..... .015  
 ANGULAR ± .....1/16"  
 FRACTIONAL ± .....1/16"  
 Break all sharp corners unless otherwise specified.

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Next Assy.  
 Dwg/Cad file no.  
**408 / SALES**

Drawing Title:  
**HIAB 408E-5 JIB 100X3 HIPRO**

Project Name:  
**SALES LAYOUT**

|           |                |        |               |
|-----------|----------------|--------|---------------|
| Drawn by: | Date:          | Size:  | Part No.      |
| SMG       | 2-16-18        |        |               |
| Approval: | Date Approved: | Scale: | unit wt.      |
|           |                |        | Eng. Job no.: |