



TRUCK, HIAB CRANE & ACCESSORIES WEIGHT DISTRIBUTION, NO PAYLOAD.	
TOTAL WEIGHT ON FRONT AXLE =	6,290 LBS.
TOTAL WEIGHT ON REAR AXLE =	7,840 LBS.
FRONT AXLE WT. PERCENTAGE =	45 %
REAR AXLE WT. PERCENTAGE =	55 %
GROSS VEHICLE WEIGHT =	14,130 LBS.

TRUCK, HIAB CRANE & ACCESSORIES WEIGHT DISTRIBUTION, WITH PAYLOAD.	
TOTAL WEIGHT ON FRONT AXLE =	6,090 LBS.
TOTAL WEIGHT ON REAR AXLE =	13,410 LBS.
FRONT AXLE WT. PERCENTAGE =	31 %
REAR AXLE WT. PERCENTAGE =	69 %
GROSS VEHICLE WEIGHT =	19,500 LBS.
PAYLOAD EVENLY DISTRIBUTED =	5,370 LBS.

TRUCK SPECIFICATIONS	
TRUCK MODEL =	FORD F-550 4X4
WHEELBASE =	193"
CAB TO AXLE =	108"
AXLE-TO-FRAME =	48", 76" AF REQ'D
FRONT AXLE CURB WEIGHT =	4,842 LBS.
REAR AXLE CURB WEIGHT =	3,145 LBS.
FRONT G.A.W.R. =	7,000 LBS.
REAR G.A.W.R. =	13,660 LBS.
YIELD STRENGTH OF EACH FRAME RAIL =	36,000 P.S.I.
MINIMUM SECTION MODULUS REQUIRED =	21.26 in. <sup>3</sup>
50,000 P.S.I. YIELD =	15.31 in. <sup>3</sup>
MINIMUM RBM/RAIL OF	765,360 IN-LBS

**NOTE:**  
 FRAME RAIL MUST MEET OR EXCEED THE MINIMUM RBM REQUIRED.  
 FULL LENGTH SUB-FRAME REQUIRED.  
 4" x 3" x 3/8" RECT. TUBING (ON TOP OF FRAME RAIL)  
 4" x 3" x 3/8" RECT. TUBING (CROSSMEMBERS)  
 CURB WEIGHTS ARE FROM FORD WEBSITE.  
 FLATBED WEIGHTS ARE ESTIMATED.

7,000 LBS. ALLOWED ON FRONT AXLE.  
 13,660 LBS. ALLOWED ON REAR AXLE.  
 19,500 LBS. ALLOWED FOR GROSS WEIGHT.

**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 ±.000... .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.  
**066 / SALES**

Drawing Title:  
**HIAB 066D-3 HIDUO CRANE**

Project Name:  
**SALES LAYOUT**

Drawn by: Date: Size: Part No.  
 CSV 6-1-18  
 Approval: Date Approved: Scale: unit wt. Eng. Job no.: