



CRANE MAY BE DERATED IN FRONT SECTORS BY AS MUCH AS 45%. ACTUAL DERATING SHALL BE BASED ON PHYSICAL TESTING.

TRUCK, HIAB CRANE & ACCESSORIES WEIGHT DISTRIBUTION, NO PAYLOAD, PUSHER AXLE DOWN.	
TOTAL WEIGHT ON FRONT AXLE	= 16,110 LBS.
TOTAL WEIGHT ON PUSHER AXLE	= 12,500 LBS.
TOTAL WEIGHT ON TANDEM AXLE	= 15,200 LBS.
FRONT AXLE WT. PERCENTAGE	= 37 %
PUSHER AXLE WT. PERCENTAGE	= 28 %
TANDEM AXLE WT. PERCENTAGE	= 35 %
GROSS VEHICLE WEIGHT	= 43,810 LBS.

TRUCK, HIAB CRANE & ACCESSORIES WEIGHT DISTRIBUTION, WITH PAYLOAD, PUSHER AXLE DN.	
TOTAL WEIGHT ON FRONT AXLE	= 16,650 LBS.
TOTAL WEIGHT ON PUSHER AXLE	= 12,500 LBS.
TOTAL WEIGHT ON TANDEM AXLE	= 30,000 LBS.
FRONT AXLE WT. PERCENTAGE	= 28 %
PUSHER AXLE WT. PERCENTAGE	= 21 %
TANDEM AXLE WT. PERCENTAGE	= 51 %
GROSS VEHICLE WEIGHT	= 59,150 LBS.
WATER LEVEL PAYLOAD	= 15,340 LBS.

TRUCK SPECIFICATIONS	
TRUCK MODEL	= KW T880SH SFA
WHEELBASE	= 282"
CAB TO TANDEM	= 196"
AXLE-TO-FRAME	= 95"
FRONT AXLE CURB WEIGHT	= 10,000 LBS.
REAR AXLE CURB WEIGHT	= 9,000 LBS.
FRONT G.A.W.R.	= 20,000 LBS.
REAR G.A.W.R.	= 46,000 LBS.
YIELD STRENGTH OF EACH FRAME RAIL	MINIMUM SECTION MODULUS REQUIRED
110,000 P.S.I. YIELD	= 47.73 in. ³
MINIMUM RBM/RAIL = 5,250,000 IN-LBS	

NOTES:
 DOUBLE FRAME CHASSIS REQUIRED.
 CHASSIS FRAME RAIL MIN. OF 38.0 SECTION MODULUS REQUIRED.
 FULL LENGTH SUB-FRAME REQUIRED:
 6" x 4" x 1/2" RECT. TUBING (ON TOP OF RAIL)
 5" x 3" x 3/8" RECT. TUBING (CROSSMEMBERS EVERY 3")
 3/8" TOP PLATE REQUIRED.
 PUSHER LIFT AXLE MUST BE DOWN IN ALL FORWARD GEARS.
 FLATBED AND LIFT AXLE WEIGHTS ARE ESTIMATED.
 CURB WEIGHTS ARE ESTIMATED.
 TRUCK RUNS IN NEW YORK CITY.
 20,000 LBS. ALLOWED ON FRONT AXLE GAWR.
 36,000 LBS. ALLOWED ON TANDEM.
 42,500 LBS. ALLOWED ON TRIDEM (9').
 59,500 LBS. ALLOWED FOR FEDERAL BRIDGE (26').
 MAXIMUM WIDTH = 96" MAXIMUM LENGTH = 35'

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.

NOTICE:
 THE DRAWING PURPOSE IS TO INTRODUCE A GENERAL CONCEPT OF A PROPOSED IDEA.

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Tolerances - unless otherwise noted.
 Tolerances are in inches
 2-PLACE ±.00..... .05
 3-PLACE ±.000..... .015
 ANGULAR ± 1/16"
 FRACTIONAL ± 1/16"
 Break all sharp corners unless otherwise specified.

Next Assy.
477 / SALES
 Dwg/Cad file no.

Drawing Title:		HIAB 477E-7 JIB75X4 HIPRO	
Project Name:		SALES LAYOUT	
Drawn by:	Date:	Size:	Part No.
CSV	1-25-18	C	
Approval:	Date Approved:	Scale:	unit wt.
		N/A	Eng. Job no.: