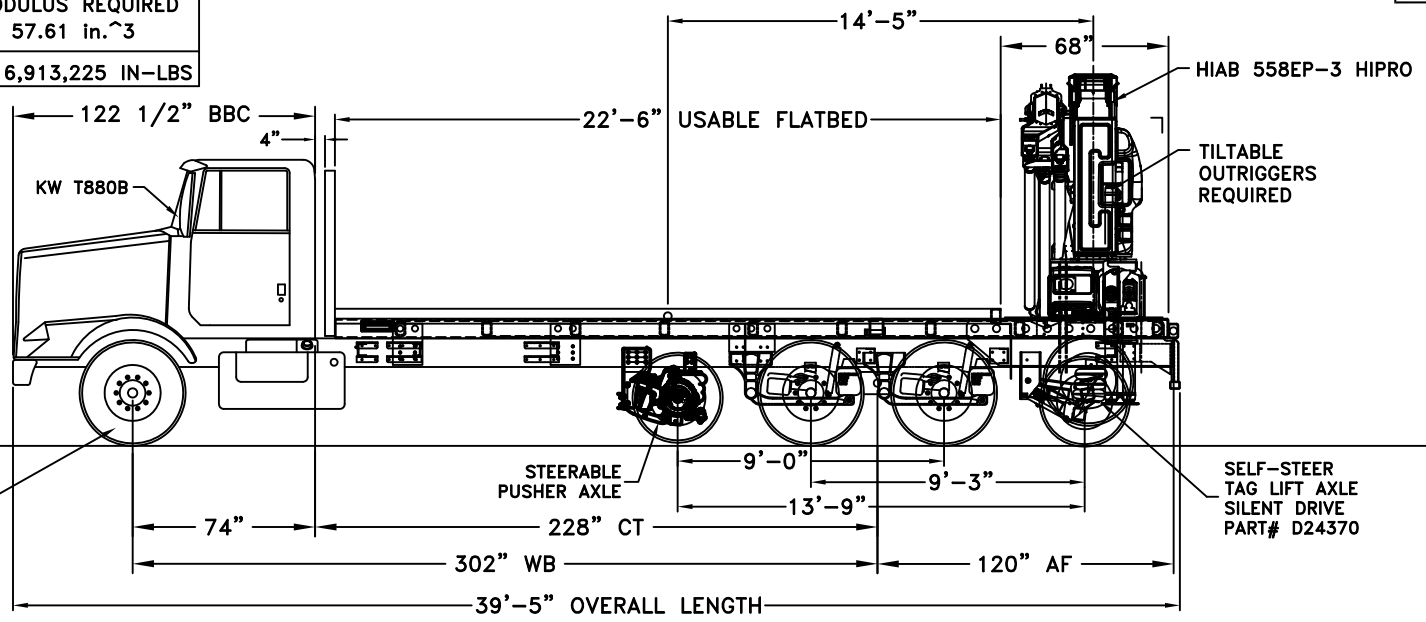


YIELD STRENGTH
120,000 P.S.I. YIELD

CRANE MIN. SECTION
MODULUS REQUIRED
= 57.61 in.³

CRANE MIN. RBM/RAIL = 6,913,225 IN-LBS

CRANE MAY BE DERATED
IN FRONT QUADRANTS AS
MUCH AS 20%. ACTUAL
DERATING SHALL BE BASED
ON PHYSICAL TESTING.



425/65R22.5
TIRES REQUIRED

TRUCK, HIAB CRANE & ACCESSORIES WEIGHT DISTRIBUTION, NO PAYLOAD, TAG AXLE DOWN.

TOTAL WEIGHT ON FRONT AXLE	= 13,300 LBS.
TOTAL WEIGHT ON TANDEM AXLE	= 20,480 LBS.
TOTAL WEIGHT ON TAG AXLE	= 11,000 LBS.
FRONT AXLE WT. PERCENTAGE	= 30 %
TANDEM AXLE WT. PERCENTAGE	= 46 %
TAG AXLE WT. PERCENTAGE	= 24 %
GROSS VEHICLE WEIGHT	= 44,780 LBS.

TRUCK, HIAB CRANE & ACCESSORIES WEIGHT DIST., WITH PAYLOAD, PUSHER & TAG DOWN.

TOTAL WEIGHT ON FRONT AXLE	= 17,560 LBS.
TOTAL WEIGHT ON PUSHER AXLE	= 8,500 LBS.
TOTAL WEIGHT ON TANDEM AXLE	= 30,940 LBS.
TOTAL WEIGHT ON TAG LIFT AXLE	= 11,000 LBS.
FRONT AXLE WT. PERCENTAGE	= 26 %
PUSHER AXLE WT. PERCENTAGE	= 12 %
TANDEM AXLE WT. PERCENTAGE	= 46 %
TAG LIFT AXLE WT. PERCENTAGE	= 16 %
GROSS VEHICLE WEIGHT	= 68,000 LBS.
WATER LEVEL PAYLOAD	= 23,220 LBS.

TRUCK SPECIFICATIONS

TRUCK MODEL	= KENWORTH T880B
WHEELBASE	= 302"
CAB TO TANDEM	= 228"
AXLE-TO-FRAME	= 120"
FRONT CURB WEIGHT	= 11,000 LBS.
TANDEM CURB WEIGHT	= 8,464 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	= 38.00 in. ³
MINIMUM RBM/RAIL	= 4,560,000 IN-LBS

NOTES:
DOUBLE FRAME CHASSIS REQUIRED.
CHASSIS FRAME RAIL MIN. OF 38.0 SECTION MODULUS REQ'D.
FULL LENGTH SUB-FRAME REQUIRED:
8"x4"x3/8" RECT. TUBING (ON TOP OF CHASSIS FRAME)
6"x4"x3/8" RECT. TUBING (CROSSMEMBERS EVERY 3 FT.)
3/8" TOP & 3/8" BOTTOM PLATE REQUIRED.
TOTAL WEIGHT PROVIDED, CURB WEIGHTS WERE ESTIMATED.
MANEUVERABILITY IS POOR WITH LONG WHEELBASE.
TAG AXLE MUST BE DOWN IN ALL FORWARD GEARS.
BODY AND LIFT AXLE WEIGHTS WERE ESTIMATED.

TRUCK RUNS IN US (RULES FOR MOST STATES).
20,000 LBS. ALLOWED ON FRONT AXLE.
34,000 LBS. ALLOWED ON TANDEM AXLE.
42,500 LBS. ALLOWED ON 9' TRIDEM AXLE GROUP.
51,500 LBS. ALLOWED ON 14' FOUR AXLE GROUP.
68,000 LBS. ALLOWED FOR TRUCK GROSS WEIGHT.
MAXIMUM OVERALL LENGTH CANNOT 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 43551
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 ±/16"
FRACTIONAL ±/16"

Break all sharp corners
unless otherwise specified.

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

Drawing Title:
HIAB 558EP-3 HIPRO CRANE

Project Name:
SALES LAYOUT

Drawn by: Date: Size: Part No.
J W 6-13-19

Approval: Date Approved: Scale: unit wt. Eng. Job no.: