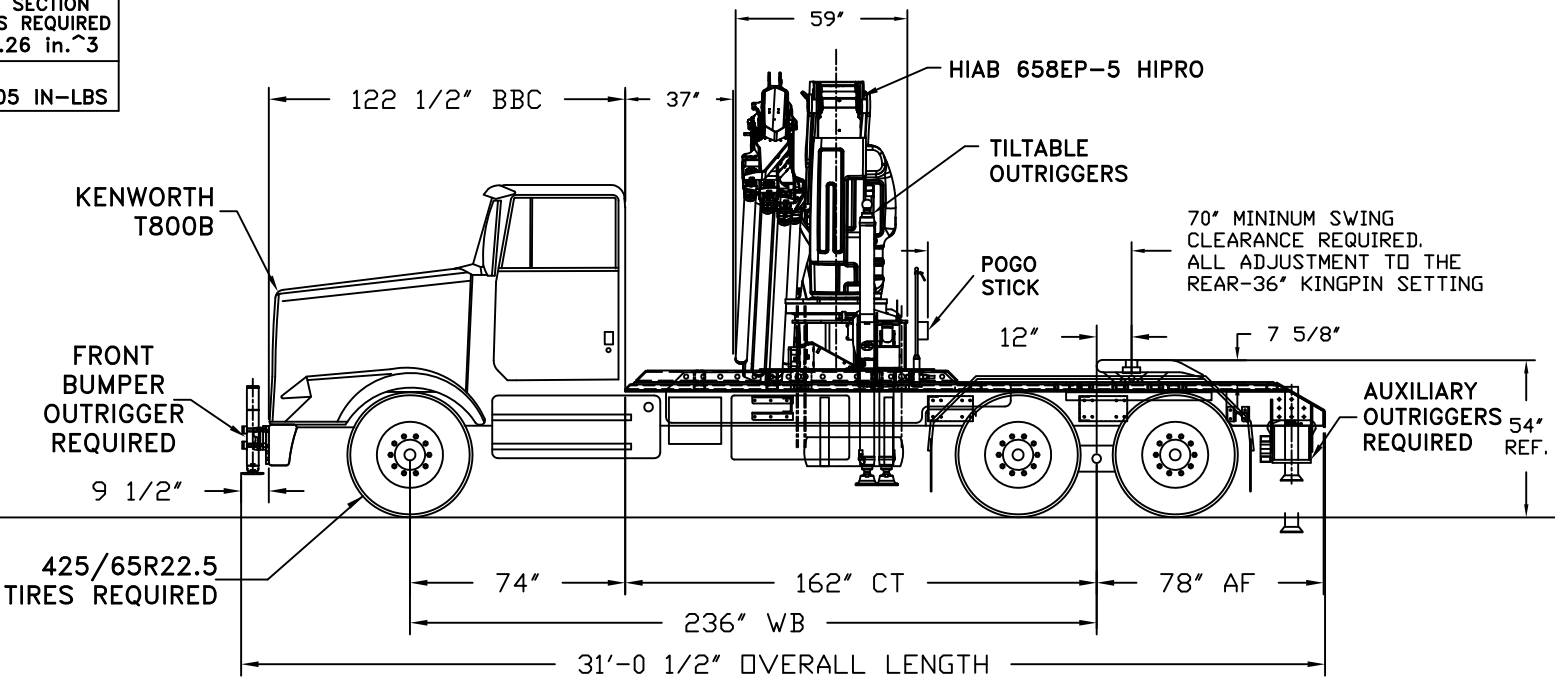


YIELD STRENGTH	CRANE MINIMUM SECTION MODULUS REQUIRED
120,000 P.S.I. YIELD	= 55.26 in. ³
CRANE MINIMUM RBM/RAIL = 6,630,905 IN-LBS	

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



TRACTOR, HIAB CRANE AND ACCESSORIES WEIGHT DISTRIBUTION, NO LOAD AT FIFTH WHEEL.	
FRONT AXLE LOAD	= 18,960 LBS.
TANDEM AXLE LOAD	= 24,850 LBS.
FRONT AXLE PERCENTAGE	= 43 %
TANDEM AXLE PERCENTAGE	= 57 %
GROSS VEHICLE WEIGHT	= 43,810 LBS.

TRACTOR SPECIFICATIONS	
TRACTOR MODEL	= KENWORTH T800B
WHEELBASE	= 236"
CAB TO TANDEM	= 162"
AXLE-TO-FRAME	= 78"
FRONT AXLE TARE WEIGHT	= 11,022 LBS.
TANDEM AXLE TARE WEIGHT	= 9,100 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	= 38.00 in. ³
MINIMUM RBM/RAIL = 4,560,000 IN-LBS	

NOTES:
 DOUBLE FRAME RAIL REQUIRED.
 FRAME RAIL MINIMUM OF 38.00 in.³ SECTION MODULUS REQUIRED.
 FULL SUBFRAME REQUIRED:
 4" x 2" x 3/8" RECT. TUBING (ON TOP OF RAIL)
 4" x 2" x 3/8" RECT. TUBING (CROSSMEMBERS)
 1/2" FULL WIDTH BOTTOM PLATE
 3/4" FULL WIDTH TOP PLATE
 LARGE CRANE FISH PLATES REQUIRED.
 CURB WEIGHTS WERE PROVIDED.

TRACTOR, HIAB CRANE AND ACCESSORIES WEIGHT DISTRIBUTION, MAX. LOAD AT FIFTH WHEEL.	
FRONT AXLE LOAD	= 18,520 LBS.
TANDEM AXLE LOAD	= 33,980 LBS.
FRONT AXLE PERCENTAGE	= 35 %
TANDEM AXLE PERCENTAGE	= 65 %
FIFTH WHEEL LOAD	= 8,690 LBS.
GROSS VEHICLE WEIGHT	= 52,500 LBS.

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.

Cargotec USA
 Cargotec USA 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 2.00..... .03
 3-PLACE 2.000..... .015
 ANGULAR 2 1/16"
 FRACTIONAL 2 1/16"
 Break all sharp corners unless otherwise specified.

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

Drawing Title:			
HIAB 658EP-5 HIPRO			
Project Name:			
SALES LAYOUT			
Drawn by:	Date:	Size:	Part No.
CSV	3-30-17		
Approval:	Date Approved:	Scale:	unit wt.
			Eng. Job no.:

TRACTOR RUNS IN U.S. (RULES FOR MOST STATES)
 20,000 LBS. ALLOWED ON FRONT AXLE.
 34,000 LBS. ALLOWED ON TANDEM AXLE.
 52,500 LBS. ALLOWED FOR GROSS WEIGHT. (22')