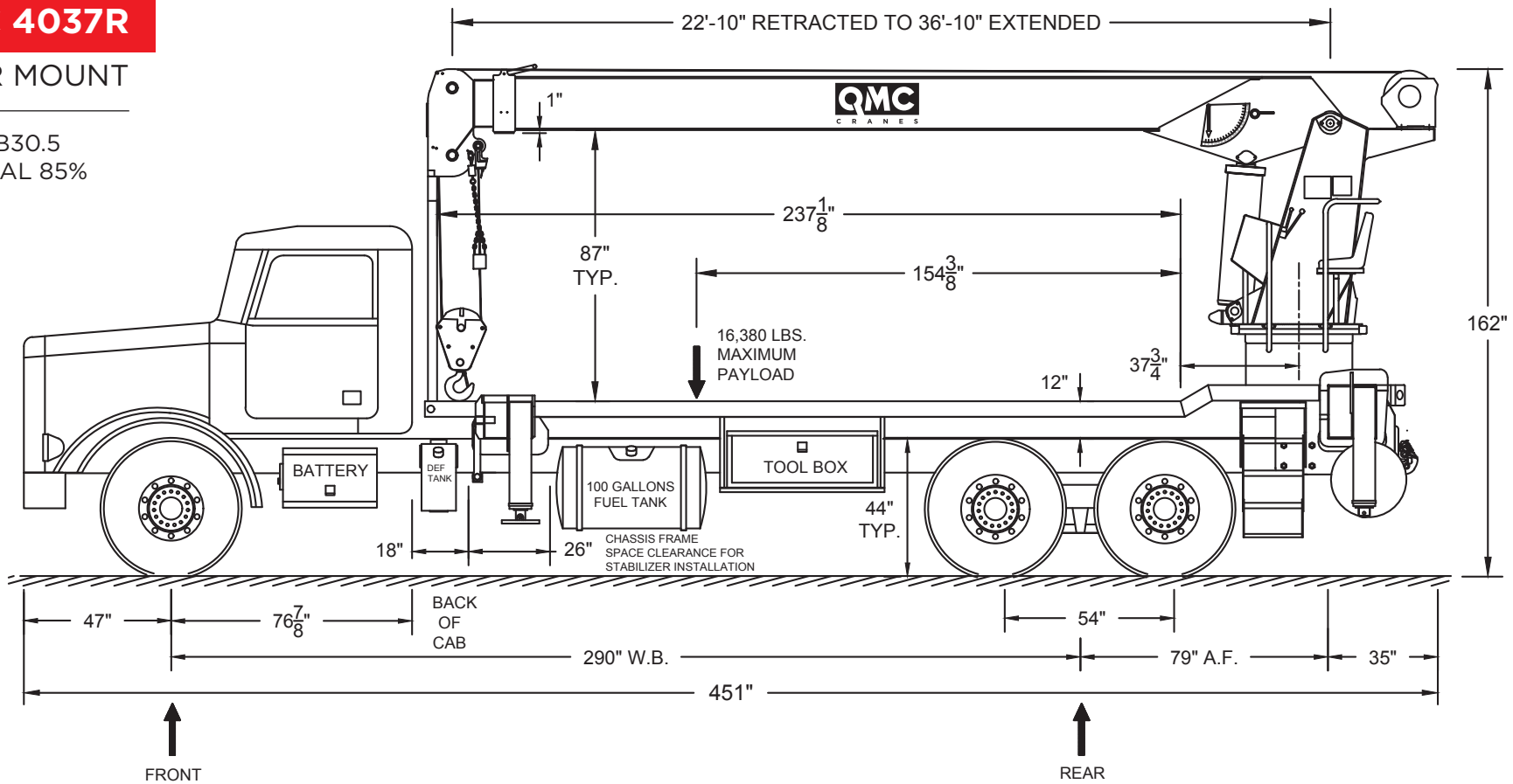


QMC 4037R

REAR MOUNT

ASME B30.5
IMPERIAL 85%



BASIS OF DESIGN		
ITEM	DESCRIPTION	REMARKS
Truck chassis		Per customer
Driver weight	250 pounds	Included in analysis
Fuel tank	100 gallons	Included in analysis
Hydraulic tank	60 gallons	Included in analysis, location may vary
Tool box	48" long	Size may vary, aluminum construction

MINIMUM FRAME REQUIREMENTS	
MAXIMUM FRAME WIDTH = 34.5"	

Minimum section modulus per rail = 17.8 in.³
Minimum yield strength = 110 KSI

WEIGHT DISTRIBUTION			
	FRONT	REAR	TOTAL
Truck	10,910	7,210	18,120
Crane	2,180	17,320	19,500
Payload	6,910	9,470	16,380
Totals	20,000	34,000	54,000

Total axle limits shown are based on Federal D.O.T. regulations bridge formula.

Truck dimensions, weights, payload, and lifting performance representative of design baseline. Variations from information shown (truck weights, wheel base, front axle to back of cab, and more) may be accommodated and may result in adjustment of payload, payload size, and crane lifting capacity. Contact QMC Cranes with your requirements.

QMC 4037R

REAR MOUNT

Load Chart

Red lines indicate transition from structural to tipping limits. Loads above the line are based on structural limits. Loads below the line are based on 85% actual tipping condition per ASME B30.5.

23 FOOT BOOM				
WORKING RADIUS	BOOM ANGLE	RATED LOAD		
		REAR	SIDE	FRONT
6	76	45,400	45,400	45,400
8	71	45,400	45,400	45,400
10	65	40,200	40,200	40,200
12	59	35,600	35,600	35,600
15	49	30,500	30,500	30,500
18	38	25,100	25,300	25,300
20	27	22,200	22,600	22,600
22	0	19,300	19,300	19,300

29 FOOT BOOM				
WORKING RADIUS	BOOM ANGLE	RATED LOAD		
		REAR	SIDE	FRONT
8	76	44,500	44,500	44,500
10	72	37,700	37,700	37,200
12	67	33,100	33,100	33,100
15	61	28,200	28,200	28,200
18	53	24,700	24,700	24,700
20	48	22,300	22,800	22,800
25	31	17,200	16,700	17,600
28.5	0	13,500	13,100	14,600

37 FOOT BOOM				
WORKING RADIUS	BOOM ANGLE	RATED LOAD		
		REAR	SIDE	FRONT
10	77	34,700	34,700	34,700
12	73	30,800	30,800	30,800
15	68	26,300	26,300	26,300
18	63	23,000	23,000	23,000
20	59	21,300	21,300	21,300
25	49	17,300	16,800	17,700
30	36	12,500	12,200	14,400
36	0	9,200	8,900	11,300

Working radius is in feet. Loads are in pounds and boom angles are in degrees. Capacity limits will apply based on the load block selected.

WIRE ROPE CAPACITY								
Parts Line	1	2	3	4	5	6	7	8
Load Limit	9,080	18,160	27,240	36,320	45,400	0	0	0

Do not exceed parts of line ratings.

1. Load does not include blocks, slings, and all other equipment used to handle objects being lifted.
2. Load ratings are for zero degree list.
3. Loads must be freely suspended.
4. Rope: Rotation resistant, compacted strand, 9080 lb. capacity.
5. This chart is only a guide and should not be used to operate the crane. Individual crane's load chart, operating instructions, and other instructional plates must be read and understood prior to operating crane.