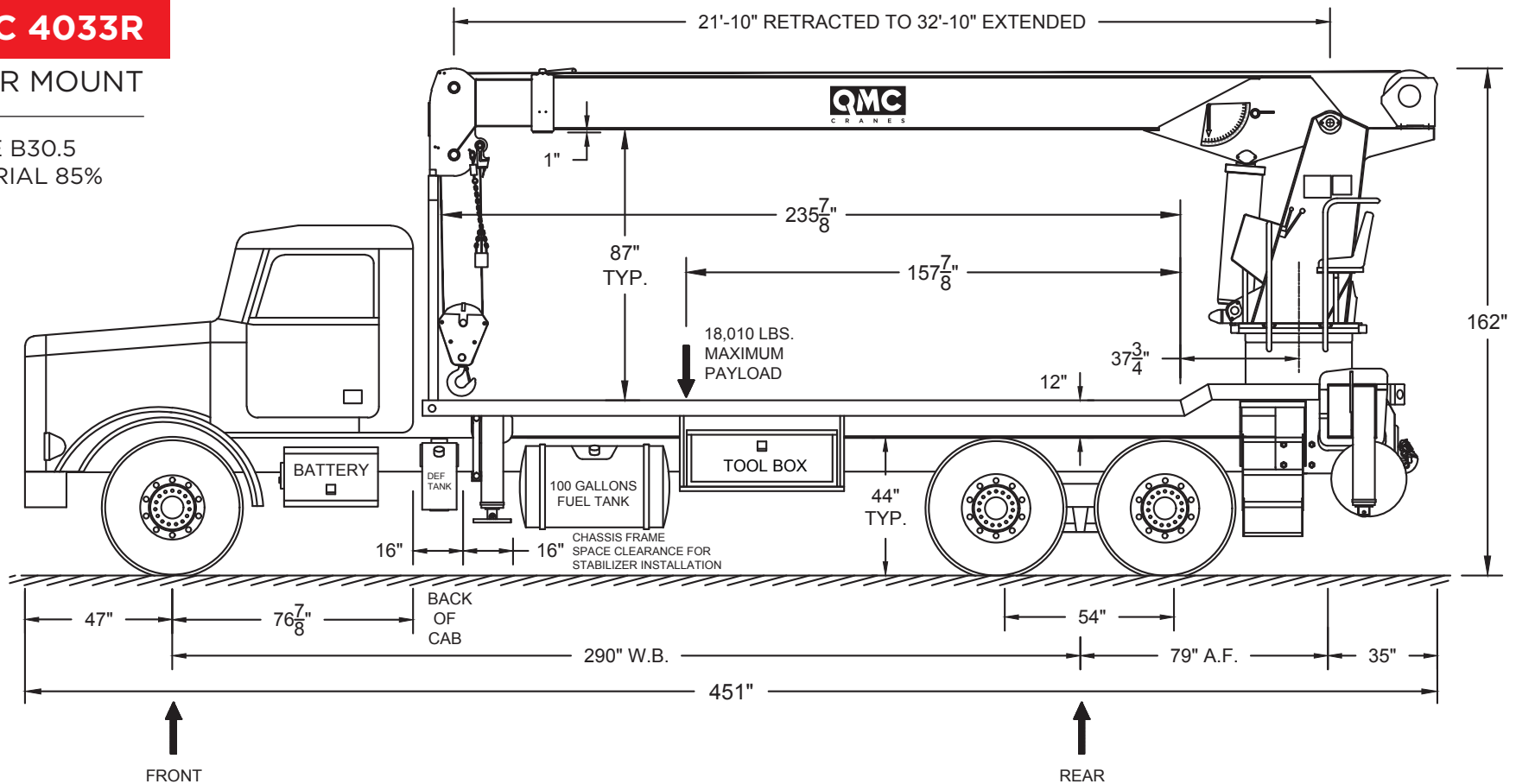


QMC 4033R

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	

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

WEIGHT DISTRIBUTION			
	FRONT	REAR	TOTAL
Truck	10,950	7,170	18,120
Crane	1,230	16,640	17,870
Payload	7,820	10,190	18,010
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 4033R

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.

22 FOOT BOOM				
WORKING RADIUS	BOOM ANGLE	RATED LOAD		
		REAR	SIDE	FRONT
6	75	45,400	45,400	45,400
8	69	45,400	45,400	45,400
10	64	39,500	39,500	39,500
12	57	35,000	35,000	35,000
15	47	29,300	27,400	30,100
18	34	21,100	17,300	25,500
20	21	16,400	13,800	22,800
21	0	14,700	12,400	19,800

27 FOOT BOOM				
WORKING RADIUS	BOOM ANGLE	RATED LOAD		
		REAR	SIDE	FRONT
8	74	43,800	43,800	43,800
10	70	37,200	37,200	37,200
12	65	32,700	32,700	32,700
15	58	27,900	27,600	27,900
18	50	21,300	17,600	24,600
20	43	16,700	14,000	22,800
25	22	10,500	9,000	17,800
26.5	0	9,300	8,000	15,400

33 FOOT BOOM				
WORKING RADIUS	BOOM ANGLE	RATED LOAD		
		REAR	SIDE	FRONT
10	74	35,700	35,700	35,700
12	70	31,100	31,100	31,100
15	65	26,400	26,400	26,400
18	68	21,500	17,700	23,200
20	54	16,800	14,100	21,500
25	41	10,600	9,100	17,900
30	23	7,500	6,500	14,500
32	0	6,700	5,800	12,600

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.