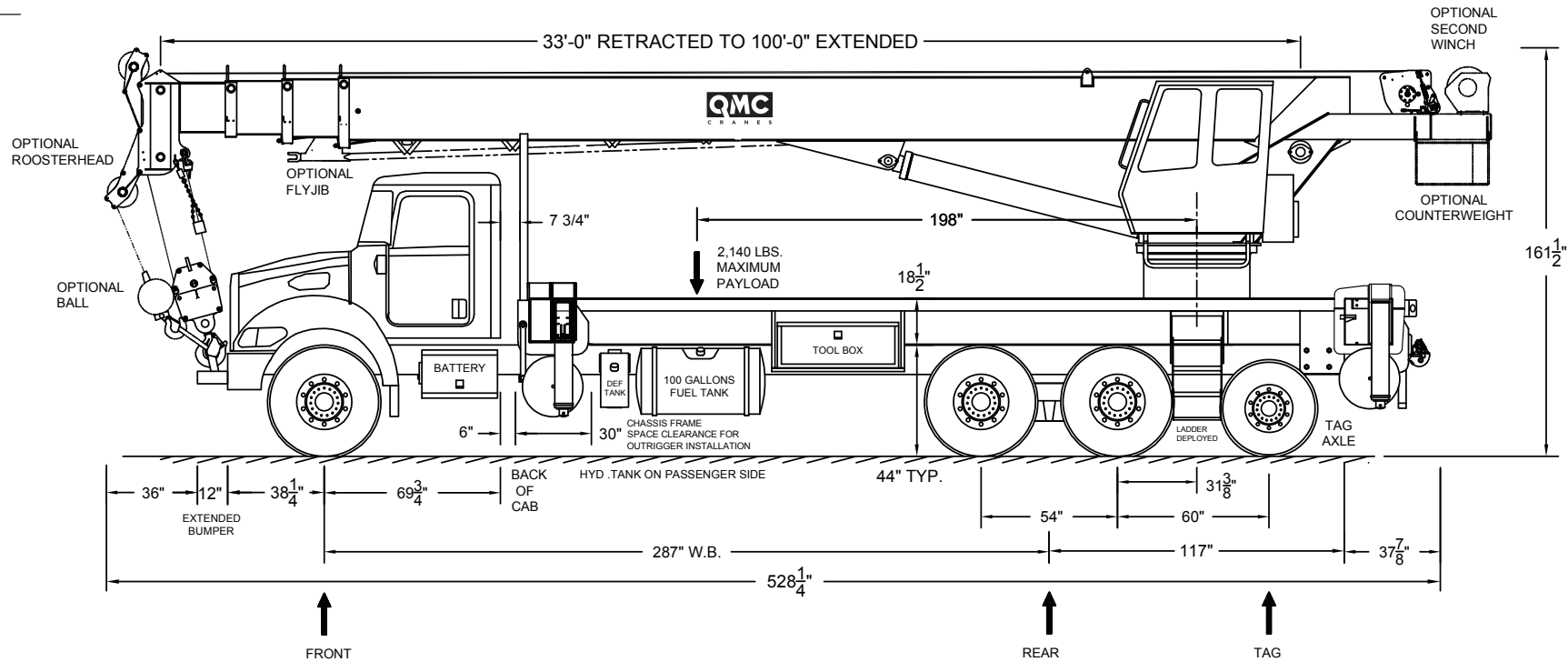


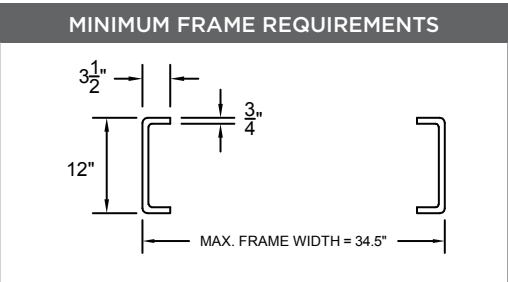
QMC 70100R

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	100 gallons	Included in analysis, location may vary
Tool box	48" long	Size may vary, aluminum construction



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

WEIGHT DISTRIBUTION				
	FRONT	REAR	TAG	TOTAL
Truck	9,300	9,550	480	19,330
Crane	9,650	23,650	7,730	41,030
Payload	1,050	800	290	2,140
Totals	20,000	34,000	8,500	62,500

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.

360 Degrees 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.

33 FOOT BOOM			46 FOOT BOOM			64 FOOT BOOM			82 FOOT BOOM			100 FOOT BOOM			100 FOOT BOOM + 34 FEET FLY (FLY OFFSET ANGLE = 0 DEG.)		
WORKING RADIUS	BOOM ANGLE	RATED LOAD	WORKING RADIUS	BOOM ANGLE	RATED LOAD	WORKING RADIUS	BOOM ANGLE	RATED LOAD	WORKING RADIUS	BOOM ANGLE	RATED LOAD	WORKING RADIUS	BOOM ANGLE	RATED LOAD	WORKING RADIUS	BOOM ANGLE	RATED LOAD
8	71	82,000													25	79	7,700
10	67	68,300	10	74	56,200	10	80	56,200							30	77	7,200
12	63	56,000	12	71	53,100	12	78	52,800							35	75	6,800
15	57	43,300	15	67	41,600	15	75	42,000	15	79	30,600				40	73	6,400
18	50	34,700	18	63	33,800	18	72	34,100	18	77	28,300	20	80	20,900	45	70	6,100
20	46	30,300	20	60	29,800	20	70	30,200	20	76	26,800	25	77	17,600	50	68	5,800
25	31	22,300	25	53	22,500	25	65	22,900	25	72	23,100	30	73	14,800	55	66	5,500
			30	44	17,600	30	60	18,000	30	68	18,200	35	70	12,700	60	64	5,200
			35	34	14,000	35	54	14,500	35	64	14,700	40	67	10,600	65	61	5,000
			40	20	11,300	40	48	11,800	40	60	12,000	45	64	9,200	70	59	4,700
						45	42	9,700	45	56	10,000	50	60	8,101	75	56	4,400
						50	34	8,000	50	51	8,300	55	57	7,000	80	54	3,900
						55	25	6,600	55	46	6,900	60	53	5,900	85	51	3,300
						60	9	5,400	60	41	5,700	65	49	4,900	90	48	2,800
									65	35	4,700	70	45	4,100	95	45	2,400
									70	28	3,900	75	40	3,300	100	41	1,900
									75	18	3,100	80	35	2,700	105	38	1,600
												85	30	2,100	110	34	1,200
												90	23	1,600	115	29	900
29.6	0	12,600	42.6	0	7,200	60.6	0	3,400	95	12	1,100	95	12	1,100	120	24	700
															125	18	400

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	11,250	22,500	33,750	45,000	56,250	67,500	78,750	90,000

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.