

TECHNICAL
DATASHEET



FR19 US

PICK AND CARRY CRANE



MAXIMUM CAPACITY
19 US ton



MAXIMUM BOOM LENGTH
59'9"



MAXIMUM HOOK HEIGHT
56'3"



STABILITY
66.6%



CLUTCH FREE OPERATION

terex.com/franna



OVERVIEW

Compact and powerful

The FR19 US is a compact pick and carry mobile crane from Franna designed for the North American market with a maximum lifting capacity of 19 US ton. It has a powerful 121 hp Tier 4F emission compliant engine with fully powershift transmission and heavy-duty axles, making it versatile for industrial yards and a wide range of applications.

Smooth and easy to operate

A large torque converter and no clutch pedal reduces driver fatigue during long crane hours. It also combines safety and comfort with smooth steering flexibility, allowing the operator to lift and maneuver in compact spaces.

Durable and reliable

The FR19 US has a heavy-duty U-Section fabricated boom with welding on the neutral axis, offering superior durability and a competitive edge when lifting heavy loads.

⚙️ KEY FEATURES AND BENEFITS:

- ▶ 19 US ton @ 4'11" radius
- ▶ 1.1 US ton @ 53'7" radius
- ▶ 56'3" maximum hook height
- ▶ 11.5 US ton capacity on 4 part hook block
- ▶ Single line pull 4.6 US ton
- ▶ Single lift cylinder enhances operator's vision.
- ▶ Easy access to all key maintenance points
- ▶ Ergonomic cabin design ensures maximum comfort for the operator



TECHNICAL DESCRIPTION



01. Boom	Metric	Imperial
Maximum boom length	18.2m	59'9"
Maximum hook height	17.1 m	56'3"
Boom elevation angle range	-6° / 60°	
Maximum hook height with jib	19.5 m	63'11"
Articulation	40° R / 40° L	
Machinery hook (rhino)	8 tonne	8.8 US ton

02. Winch	Metric	Imperial
Maximum line pull	4.2 tonne	4.62 US ton
Two speed winch	58 m/min 77 m/min	190 ft/min 252 ft/min
Hook block (4 part) (maximum rated capacity)	10.5 tonne	11.5 US ton

03. Engine & Transmission	Metric	Imperial
Standard engine	Cummins QSF3.8 Tier 4 F	
Engine power	90 kW (121 hp) @ 2200 rpm	
Engine torque	500 Nm	369 lb-ft
Fuel Type	Diesel	
Fuel Tank Capacity	270 litre	71 gallons
Transmission	Carraro 4 Speed Full Powershift	
Transfer case	SACHS W300 2.64 204	

04. Hydraulic System	Metric	Imperial
Tandem Gear pump	53cc/rev	3.2 cu.in/rev
Maximum pump flow rate	115 litre/min	30 gal/min
Maximum working pressure	220 bar	3200 psi
Hydraulic oil capacity	210 litre	55.5 gallons

05. Chassis	Metric	Imperial
Front Axle	6,700 kg	14,471 lbs
Rear Axle	10,600 kg	23,369 lbs
Axle total	17,300 kg	38,140 lbs
Turning circle	6.7 m	22'1"

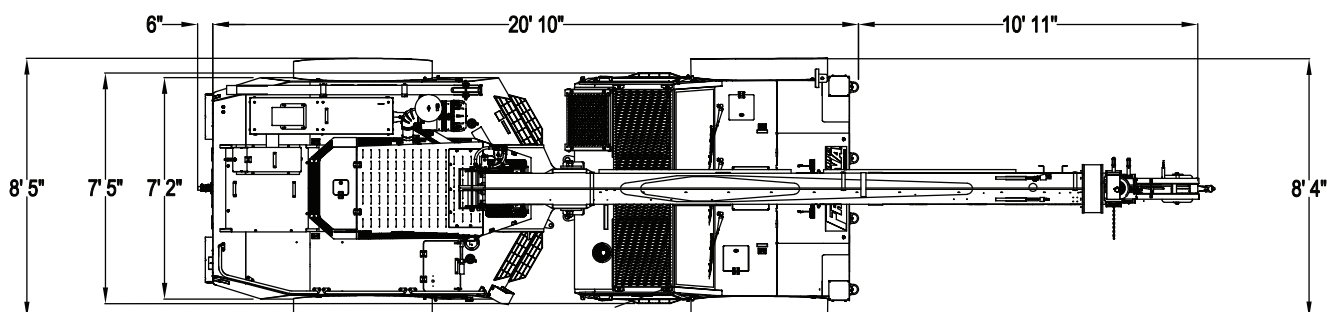
06. Brakes & Suspension		
Brake System	Power assisted dual circuit hydraulic	
Suspension	Two semi elliptic springs on rear axle, front axle rigidly mounted with chassis	

07. Vehicle Performance	Metric	Imperial
Maximum rated travel speed	35 km/h	21.75 mph
Gradeability (smooth concrete)	(unladen) 74%	

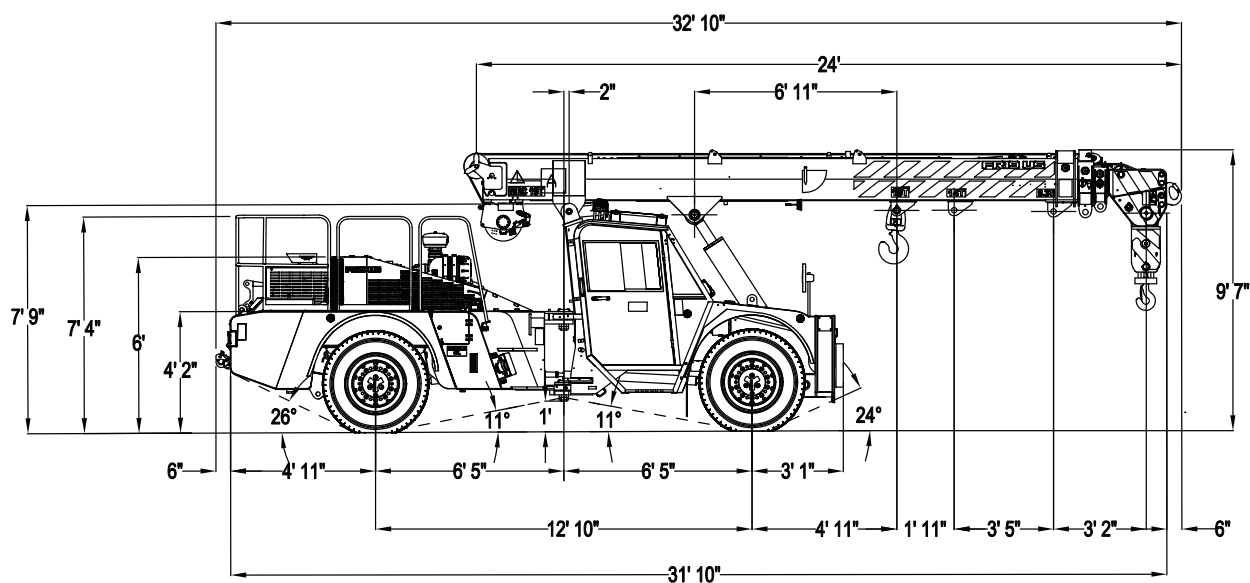


DIMENSIONS / AREA OF OPERATION IMPERIAL

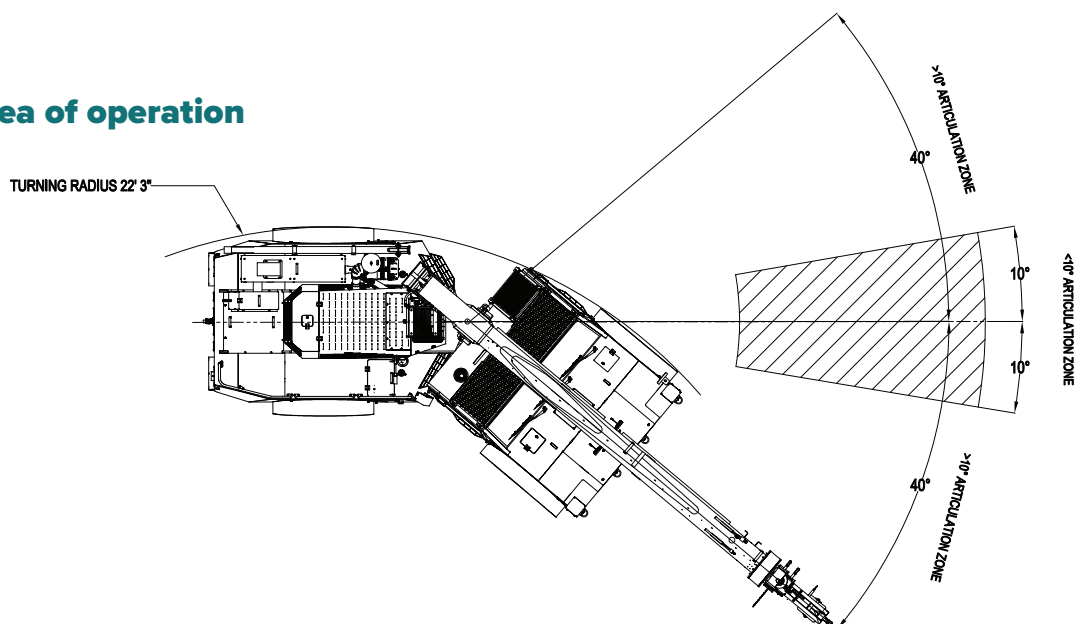
Plan view



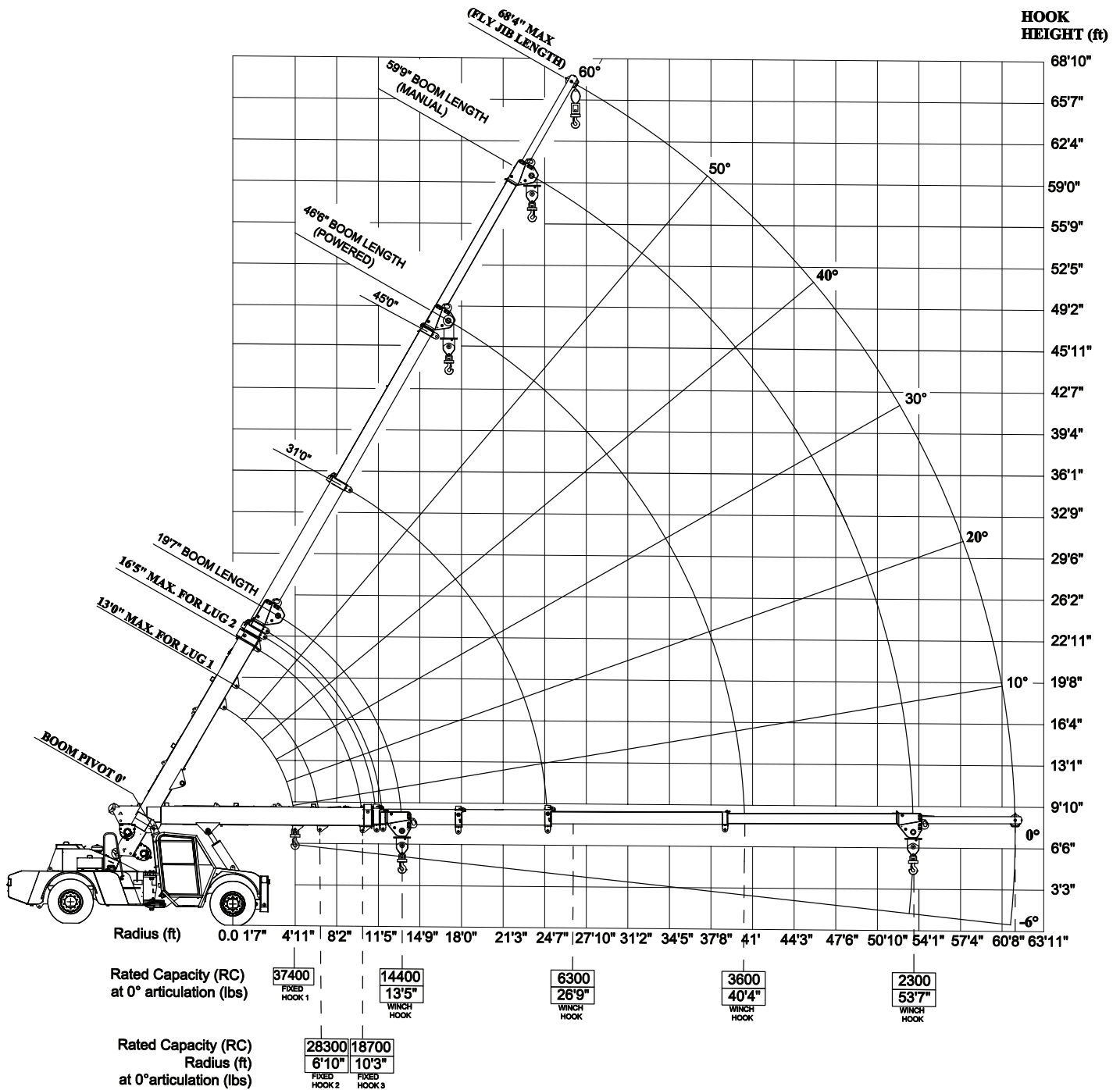
Right hand view



Area of operation



RADIUS LOAD CHART IMPERIAL

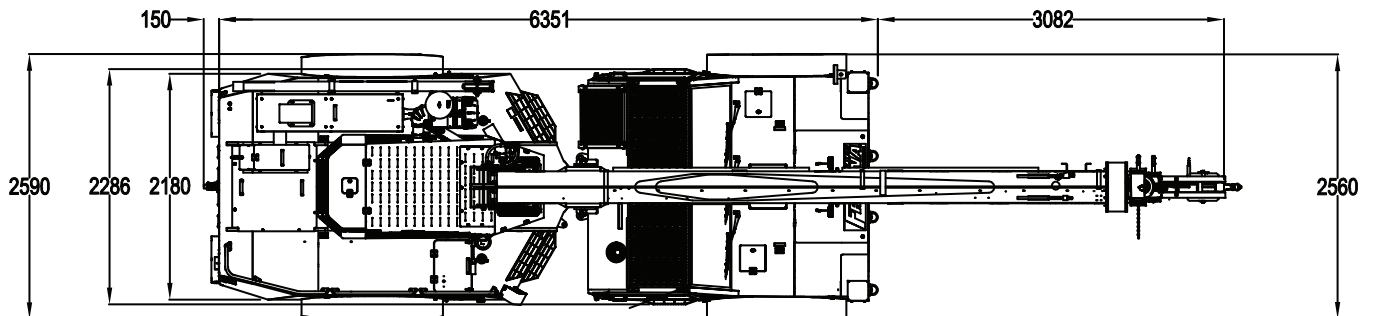


NOTE:

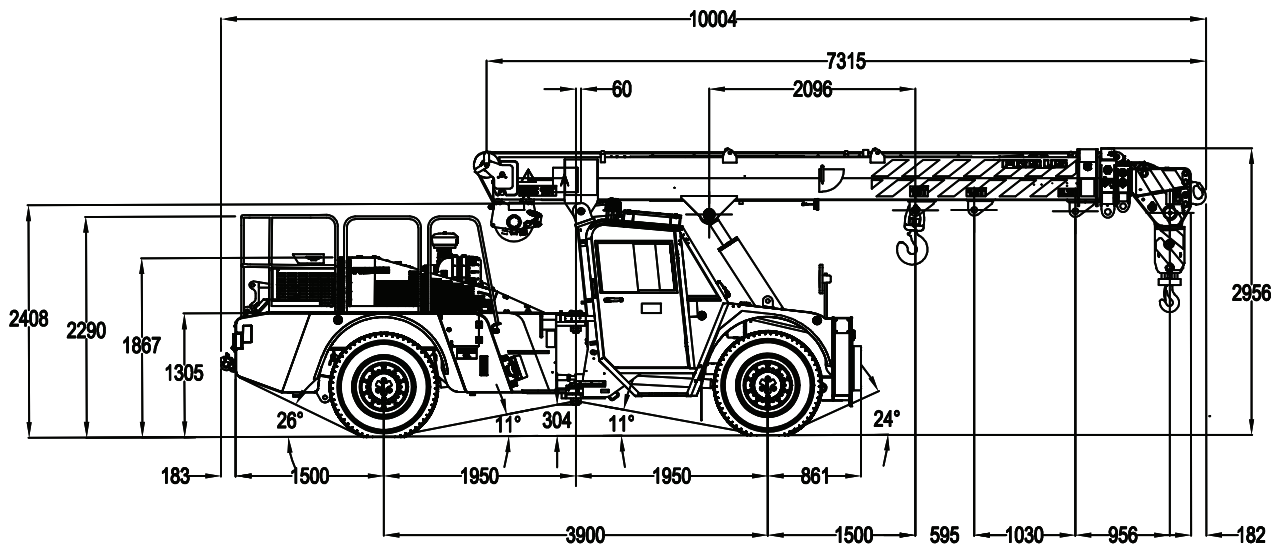
- Radius is the horizontal distance measured from the center of front wheel to the load center point.
- Lifting capacities do not exceed 66.6% of tipping load as per EN 13000.
- Rated capacity values are based on a firm and level surface (up to 1% gradient) tyres 11.00 R 20-18 TR TT inflated to 116 PSI.
- Steel wire rope is Ø13mm (35x7) with minimum breaking force ≥145kN.
- Use 4 fall hoist reeving for powered and manual boom. Use single fall hoist reeving when using fly jib extension.
- Weight of the hook blocks and slings is part of the load, and is to be deducted from the capacity ratings.
- Rated capacity load in pick and carry shall be carried with the minimum boom length & as close as possible to the ground speed not in excess of 1.2 MPH.
- Boom head mounted rhino hook max capacity 17625 lbs (Refer rhino hook load chart in operator manual).
- Hydraulic main relief valve setting is 3200 psi.
- Fly jib shown is an optional item & provided as per customer request.
- Consult Operations and Maintenance manual for further details.

DIMENSIONS / AREA OF OPERATION METRIC

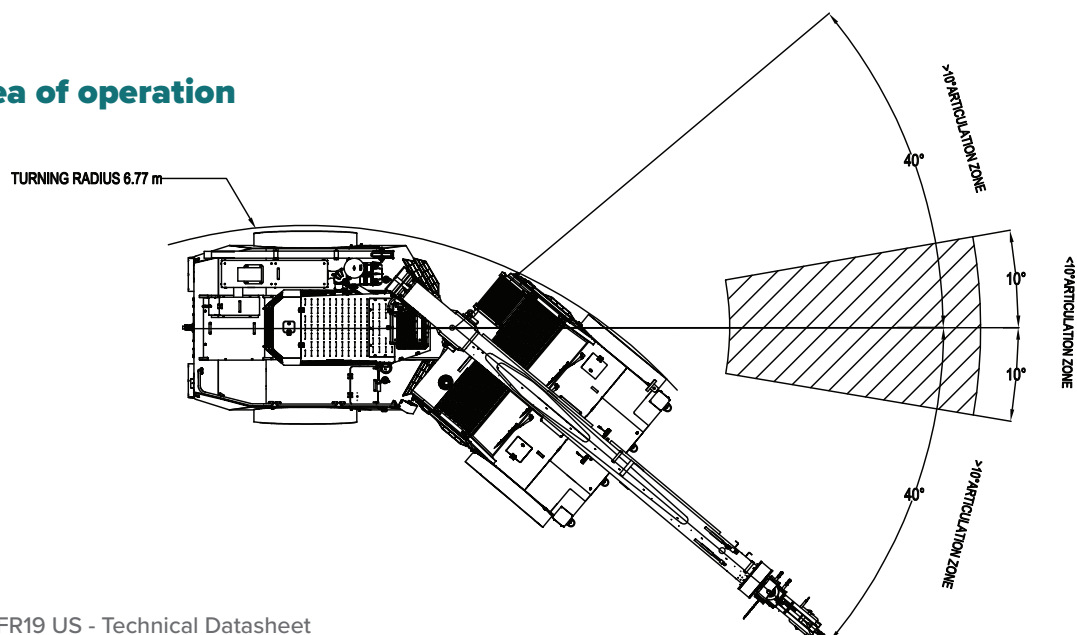
Plan view



Right hand view

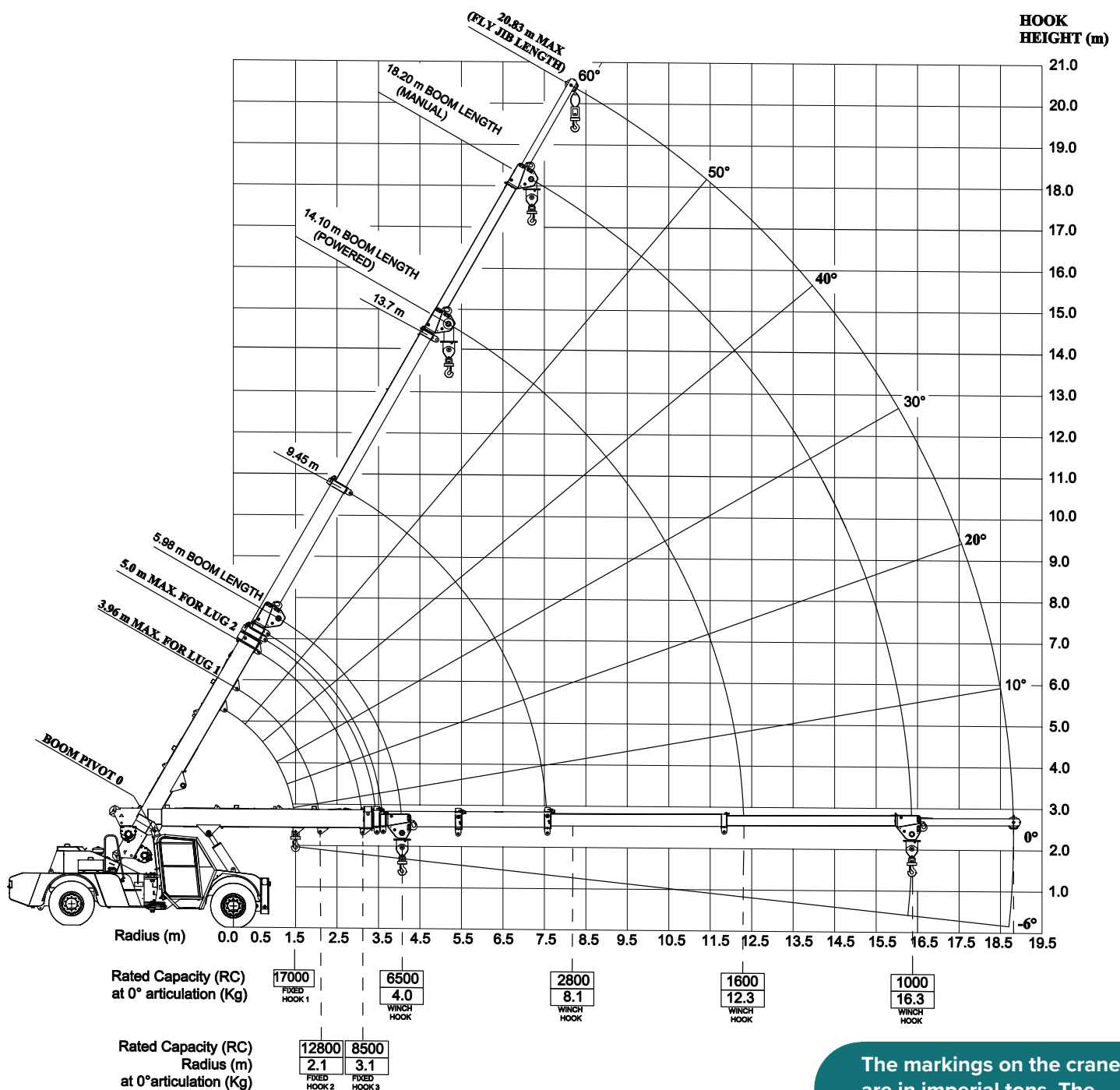


Area of operation



RADIUS LOAD CHART

METRIC



The markings on the crane are in imperial tons. The units above are in metric kg

NOTE:

- Radius is the horizontal distance measured from the center of front wheel to the load center point.
- Lifting capacities do not exceed 66.6% of tipping load as per EN 13000.
- Rated capacity values are based on a firm and level surface (up to 1% gradient) with tyres 11.00 R 20-18 TR TT inflated to 8 kg/sq.cm.
- Steel wire rope is Ø13mm (35x7) with minimum breaking force ≥145kN.
- Use 4 fall hoist reeving for powered and manual boom. Use single fall hoist reeving when using fly jib extension.
- Weight of the hook blocks and slings is part of the load, and is to be deducted from the capacity ratings.
- Rated capacity load in pick and carry shall be carried with the minimum boom length & as close as possible to the ground speed not in excess of 1.8 KMPH.
- Boom head mounted rhino hook max capacity 8000 Kg (Refer rhino hook load chart in operator manual).
- Hydraulic main relief valve setting is 220 bar.
- Fly jib shown is an optional item & provided as per customer request.
- Consult Operations and Maintenance manual for further details.

LOAD CHART IMPERIAL

RATED CAPACITY CHART - FALL BLOCK															
RADIUS (ft)	BOOM LENGTH (ft)														
	19'8"	21'	23'	25'	27'	29'	31'	33'	35'	37'	39'	41'	43'	45'	46'6"
5'	21600	23100													
	21600	23100													
	55	58													
7'	20700	21100	23100	23100	23100										
	20700	21100	23100	23100	23100										
	48	51	55	58	61										
9'	20300	20400	20700	21300	22500	21600									
	20100	20100	20100	20100	20100	20100									
	39	44	49	53	56	59									
11'	18100	18100	18100	18100	18100	18100	18100	17900							
	16100	16100	16200	16200	16200	16200	16200	16200							
	29	35	42	47	51	54	57	59							
13'	15000	15000	15000	15000	15000	15000	15000	15000	15000	12700					
	13300	13400	13400	13400	13400	13400	13400	13400	13400	12700					
	12	24	34	40	45	49	52	55	57	59					
15'	14400	12900	12800	12800	12800	12800	12800	12800	12800	11700	11000	10500			
	12800	11400	11300	11300	11400	11400	11400	11400	11400	11400	11000	10500			
	(13'5")	(14'9")	23	32	38	43	47	50	53	56	58	60			
17'			11100	11000	11100	11100	11100	11100	11100	10900	10100	9700	9200	8900	
			9900	9800	9800	9800	9800	9800	9800	9800	9800	9700	9200	8900	
			(16'9")	22	31	37	42	46	49	52	54	56	58	60	
19'				9800	9700	9700	9700	9700	9700	9700	9400	9000	8600	8200	8000
				8600	8600	8600	8600	8600	8600	8600	8600	8600	8600	8200	8000
				(18'9")	21	30	36	41	44	48	50	53	55	57	58
23'					8600	7700	7700	7700	7700	7700	7700	7700	7500	7200	6800
					7600	6800	6800	6800	6800	6800	6800	6800	6800	6800	6800
					(20'9")	(22'9")	20	28	34	38	42	45	48	50	52
27'							7000	6300	6300	6300	6300	6300	6300	6200	6000
							6100	5500	5500	5500	5500	5500	5500	5500	5500
							(24'9")	(26'9")	19	27	32	37	40	43	45
31'									5700	5200	5200	5200	5200	5200	5300
									5000	4600	4500	4600	4600	4600	4600
									(28'9")	(30'9")	18	26	31	35	38
35'											4800	4400	4400	4400	4400
											4200	3800	3800	3800	3800
											(32'9")	(34'9")	17	25	29
39'													4100	3800	3800
													3500	3200	3200
													(36'9")	(38'9")	15
43'															3600
															3100
															(40'4")

KEY:

- RC (lb) AT 0 DEG ARTICULATION
- RC (lb) AT FULL ARTICULATION
- BOOM ANGLE OR (RADIUS AT 0 DEG BOOM ANGLE)

Weight of slings & hook block to be added to load
 Read and understand warning notes before operating crane
 Lifting capacities do not exceed 66.6% of tipping load as per EN 13000

LOAD CHART METRIC



RATED CAPACITY CHART - FALL BLOCK

RADIUS (m)	BOOM LENGTH (m)														
	5.90	6.50	7.00	7.50	8.00	8.50	9.00	10.00	10.50	11.00	11.50	12.50	13.00	13.50	14.10
1.5	9800	10500													
	9800	10500													
	55														
2.0	9400	9500	10500	10500	10500										
	9400	9500	10500	10500	10500										
	48	51	55	58	61										
2.5	9200	9250	9400	9600	10200	9800									
	9100	9100	9100	9100	9100	9100									
	39	44	49	53	56	59									
3.0	8200	8200	8200	8200	8200	8200	8200	8100							
	7300	7300	7350	7300	7300	7300	7300	7300							
	29	35	42	47	51	54	57	59							
3.5	6800	6800	6800	6800	6800	6800	6800	6800	6800	5700					
	6000	6000	6000	6000	6000	6000	6000	6000	6000	5700					
	12	24	34	40	45	49	52	55	57	59					
4.5	6500	5800	5800	5800	5800	5800	5800	5800	5800	5300	5000	4700			
	5800	5100	5100	5100	5100	5100	5100	5100	5100	5100	5000	4700			
	(4.08)	(4.5)	23	32	38	43	47	50	53	56	58	60			
5.0			5000	5000	5000	5000	5000	5000	5000	4900	4600	4400	4200	4000	
			4500	4400	4400	4400	4400	4400	4400	4400	4400	4400	4100	4000	
			(5.1)	22	31	37	42	46	49	52	54	56	58	60	
6.0				4400	4400	4400	4400	4400	4400	4400	4300	4000	3900	3700	3600
				3900	3900	3900	3900	3900	3900	3900	3900	3900	3900	3700	3600
				(5.75)	21	30	36	41	44	48	50	53	55	57	58
7.0					3900	3500	3500	3500	3500	3500	3500	3500	3400	3200	3100
					3400	3100	3100	3100	3100	3100	3100	3100	3100	3100	3100
					(6.32)	(6.93)	20	28	34	38	42	45	48	50	52
8.0							3200	2800	2800	2800	2800	2800	2800	2800	2700
							2800	2500	2500	2500	2500	2500	2500	2500	2500
							(7.54)	(8.15)	19	27	32	37	40	43	45
9.0									2600	2400	2400	2400	2400	2400	2400
									2200	2100	2100	2100	2100	2100	2100
									(8.76)	(9.37)	18	26	31	35	38
10.5											2200	2000	2000	2000	2000
											1900	1700	1700	1700	1700
											(9.98)	(10.59)	17	25	29
11.5													1900	1700	1700
													1600	1400	1400
													(11.2)	(11.81)	15
13.0															1600
															1400
															(12.29)

KEY:

- RC (kg) AT 0 DEG ARTICULATION
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Weight of slings & hook block to be added to load
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OUR LOCATIONS

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