



CRANE SPECIFICATION

FRANNA AT 40

COMPREHENSIVE LIFTING SOLUTIONS

We look forward to providing a full heavy lift engineering and crane solution for your next project. Our heavy lift engineers and on site personnel are experienced in managing and organising highly de-manding lift requirements.

Contact us to discuss your lifting requirements and a free quote.

BRISBANE (HQ)

07 3907 5800
37 Paringa Rd, Murarrie, QLD, 4172

BALLINA

02 6686 7748
5 Convair Ave, Ballina, NSW, 2478

GLADSTONE

07 4829 5219
7 Morgan St, Gladstone, QLD, 4680

ROMA

07 4622 5522
8 Wormwell Drive, Roma QLD 4455

TOWNSVILLE

07 4779 4088
16 Mackley St, Garbutt QLD 4814

RICHLANDS

07 3907 5800
462 Boundary Rd, Richlands QLD 4077

ROCKHAMPTON

07 4939 1095
39-42 Johnson St, Park Hurst, QLD, 4702

BILOELA

07 4939 1095
67 Dawson Hwy, Biloela QLD 4715

SUNSHINE COAST

0409 595 618
562 Maroochydore Rd, Kunda Park, QLD, 4556

MACKAY

07 4952 6998
135 Diesel Drive, Paget QLD 4740



TECHNICAL
DATASHEET

FRANNA[®]
A TEREX BRAND

AT40

**PICK AND CARRY
CRANE**



MAXIMUM CAPACITY
40t



MAXIMUM BOOM LENGTH
19.8m



MAXIMUM HOOK HEIGHT
19m

terex.com/franna



OVERVIEW

The AT 40 is the largest pick and carry crane in the Franna product range and has been specifically designed for higher capacity lifting applications, boasting 44% more load moment capacity than the Franna MAC 25. The 3-axle design eliminates the need for a removable counterweight and the third axle control system raises axle 3 when operating on a work site to provide a smooth turning circle.



⚙️ KEY FEATURES AND BENEFITS:

- ▶ 40 tonne at 1.1m radius on lug
- ▶ 35 tonne at 2.0m radius on 8 part hook block
- ▶ 20 tonne on machinery (Rhino) hook
- ▶ 19m maximum hook height
- ▶ Single line pull 4.3 tonne
- ▶ Dynamic LMI (patent protected)
- ▶ Designed to AS1418.5 (2013)
- ▶ Full width isolated cabin ensures excellent visibility
- ▶ Automatic 4WD engages when a loss of traction is detected
- ▶ High strength boom with easy maintenance
- ▶ Hydro-pneumatic suspension enhances roadability
- ▶ Turret counterweight for greater articulated lifting capacity

TECHNICAL DESCRIPTION

01. Boom

Maximum boom length	19.8m
Maximum hook height	19.0m
Boom elevation angle range	-5°/60°
Articulation	35° R / 35° L
Fixed lug	40 tonne
Machinery hook (rhino)	20 tonne

02. Winch

Maximum line pull	4.3 tonne
Two speed winch	38 m/min / 76 m/min
7 Part Hook block	30 tonne maximum rated capacity
Optional 8 Part Hook block	35 tonne maximum rated capacity

03. Engine & Transmission

Standard engine	Mercedes OM 906
Engine power	205kW
Engine torque	1100 Nm
Fuel Type	Diesel
Fuel Capacity	500 litre
Transmission	Allison 6 speed
Transfer case	ZF 2:1 Ratio

04. Hydraulic System

Axial piston pump	135cc/rev
Maximum pump flow rate	300 litre/min
Maximum working pressure	350 bar
Hydraulic tank capacity	500 litre

05. Chassis

Front Axle (Tare / GVM)	11,100kg / 12,000kg
Axle 2 (Tare / GVM)	9,200kg / 10,000kg
Axle 3 (Tare / GVM)	9,200kg / 10,000kg
Axle Total (Tare / GVM)	29,500kg / 32,000kg
Turning circle (Highway)	10.2m
Turning circle (crane mode)	9.0m

06. Brakes & Suspension

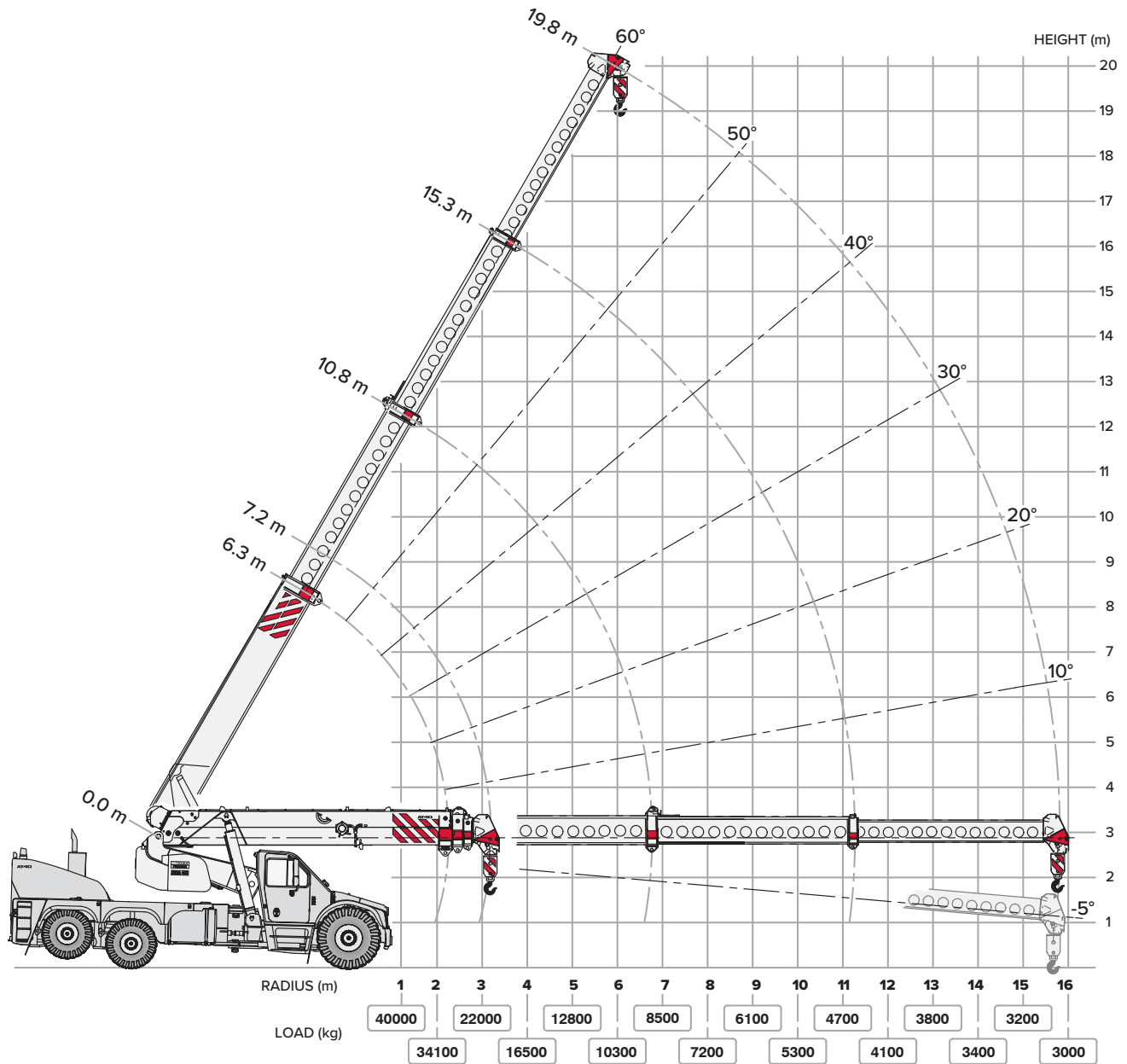
Brake System	Air operated disc brakes with ABS
Suspension	Hydro pneumatic suspension

07. Vehicle Performance

Maximum rated travel speed	80km/h
Gradeability	39%



RADIUS LOAD CHART



NOTE: Rated Capacity values shown are for the Pick and Carry Chart.
The Static Chart will give higher rated capacities.



LOAD CHART

RATED CAPACITY CHART STATIC (0 km/hr) - FALL BLOCK

RAD	BOOM LENGTH TO HEAD SHEAVES - 3rd BOOM RETRACTED														3rd BOOM EXTENDING				RAD		
	7.23	7.50	8.00	8.50	9.00	9.50	10.00	10.50	11.00	12.00	13.00	14.00	15.00	16.00	17.00	18.00	19.83				
m	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	m			
1.0	35000	35000	35000	35000	35000	35000												1.0			
	35000	35000	33000	28700	25500	23000															
	47	49	52	55	57	59															
2.0	35000	35000	35000	35000	35000	34900	34300	33700	33100									2.0			
	34400	30800	26100	22900	20500	18500	17000	15600	14500												
	34	37	42	46	49	52	54	56	58												
2.5	30200	30300	30300	30400	30100	29600	29100	28600	28200	27400								2.5			
	29400	29500	29500	29600	29300	25500	22600	20400	18500	15700											
	27800	27900	24300	21100	18800	17000	15600	14400	13400	11700											
	25	30	36	41	44	47	50	52	55	58											
3.0	24700	24800	24800	24900	24900	25000	25000	24800	24500	23800	23200							3.0			
	24000	24100	24200	24200	24300	24300	22000	19700	17900	15100	13100										
	22700	22800	22900	19900	17600	15900	14500	13400	12400	10900	9700										
	11	20	29	35	39	43	46	49	51	55	58										
3.5	23800	21700	20900	21000	21000	21100	21100	21100	21000	20500	20100							3.5			
	23200	21100	20400	20400	20500	20500	20500	19300	17400	14700	12700	11200									
	21900	19900	19200	19300	16800	15000	13600	12600	11700	10200	9100	8200									
	(3.1)	(3.4)	19	28	34	38	42	45	48	52	56	59									
4.0			18600	18000	18100	18100	18200	18200	18200	18200	18200	18000	17600					4.0			
			18100	17500	17600	17600	17700	17700	17100	14300	12300	10900	9700								
			17100	16500	16500	14400	13000	11900	11000	9600	8600	7700	7000								
			(3.9)	19	27	33	37	41	44	49	53	56	59								
5.0				16200	14400	14000	14000	14100	14100	14100	14100	14200	14200	14200	14200			5.0			
				15800	14000	13600	13600	13700	13700	13700	11800	10300	9200	8300	7700						
				14900	13100	12800	12400	11100	10100	8700	7700	6900	6300	5800	5500						
				(4.4)	(4.9)	18	26	31	36	42	47	51	54	57	59						
6.0						12800	11500	11300	11300	11400	11400	11400	11400	11500	11600	11800		6.0			
						12500	11200	11000	11000	11000	11100	10000	8800	7900	7300	6800					
						11700	10500	10300	9800	8200	7100	6300	5700	5300	5000	4800					
						(5.4)	(5.9)	17	25	34	40	45	49	52	55	58					
7.0								10500	9600	9400	9400	9500	9500	9500	9700	9800	10000	7.0			
								10200	9300	9100	9200	8600	7700	7000	6500	5800					
								9500	8700	8000	6700	5900	5300	4800	4600	4400	4000				
								(6.4)	(6.9)	24	33	39	44	48	51	54	58				
8.0									8100	8000	8000	8000	8100	8200	8300	8500		8.0			
									7800	7700	7700	7800	7500	6900	6300	5600					
									7300	6700	5600	5000	4500	4300	4000	3700					
									(7.9)	23	32	38	42	46	50	54					
9.0									6900	6800	6900	6900	6900	7000	7200	7300		9.0			
									6700	6600	6600	6700	6800	6200	5400						
									6200	5600	4800	4300	4000	3800	3500						
									(8.9)	22	31	37	41	45	51						
10.0										6000	5900	6000	6100	6200	6400		10.0				
										5800	5700	5800	5900	6000	5300						
										5400	4800	4100	3800	3600	3200						
										(9.9)	21	30	36	40	47						
11.0											5300	5200	5400	5500	5600		11.0				
											5100	5100	5200	5300	5200						
											4700	4200	3700	3400	3100						
											(10.9)	21	29	35	42						
12.0												4700	4700	4800	5000		12.0				
												4500	4600	4700	4800						
												4200	3700	3300	2900						
												(11.9)	20	28	38						
13.0													4200	4300	4500		13.0				
													4100	4200	4300						
													3800	3400	2800						
													(12.9)	20	32						
14.0														3900	4000		14.0				
														3500	2800						
														(13.9)	26						
															3600						
15.0															2900		15.0				
															17						
															3300						
															3000						
15.68															0		15.68				
														13.00	14.00	15.00	16.00	17.00	18.00	19.83	

WINCH RATED CAPACITY

2 FALLS 8700

4 FALLS 17500

6 FALLS 26200

7 FALLS 30600

8 FALLS 35000

8100800080008000

7800770077007800

7300670056005000

(7.9)233238

6900680069006900

6700660066006700

6200560048004300

(8.9)223137

6000590060006100

5800570058005900

5400480041003800

(9.9)213036

5300520054005500

5100510052005300

4700420037003400

(10.9)212935

4700470048005000

4500460047004800

4200370033002900

(11.9)202838

420043004500

410042004300

380034002800

(12.9)2032

39004000

35002800

(13.9)26

3600

2900

3300

3000

0

UNITS:

- ANGLES IN DEGREES

- LENGTHS IN METRES

- LOAD IN KILOGRAMS

KEY:

14200RC @ ARTIC: 0° PITCH: -2.3 ROLL: -1.0

10300RC @ ARTIC: 20° PITCH: -2.3 ROLL: -3.0

6900RC @ ARTIC: 35° PITCH: -2.3 ROLL: -3.5

51BOOM ANGLE

(3.1)RADIUS AT ZERO BOOM ANGLE

Note:

Pitch & Roll angles indicated are representative of lifts based on firm level ground with tyres at specified pressures.

WINCH RATED CAPACITY

2	FALLS	8700
4	FALLS	17500
6	FALLS	26200
7	FALLS	30600
8	FALLS	35000

UNITS:

- ANGLES IN DEGREES
- LENGTHS IN METRES
- LOAD IN KILOGRAMS

KEY:

14200	RC @ ARTIC:	0°	PITCH:	-2.3	ROLL:	-1.0
10300	RC @ ARTIC:	20°	PITCH:	-2.3	ROLL:	-3.0
6900	RC @ ARTIC:	35°	PITCH:	-2.3	ROLL:	-3.5
51	BOOM ANGLE					
(3.1)	RADIUS AT ZERO BOOM ANGLE					

Note: Pitch & Roll angles indicated are representative of lifts based on firm level ground with tyres at specified pressures.

LOAD CHART

RATED CAPACITY CHART PICK AND CARRY (0 - 1.44 km/hr) - FALL BLOCK

[illegible]

WINCH RATED CAPACITY

2	FALLS	8700
4	FALLS	17500
6	FALLS	26200
7	FALLS	30600
8	FALLS	35000

UNITS:

- ANGLES IN DEGREES
- LENGTHS IN METRES
- LOAD IN KILOGRAMS

KEY:

12600	RC @ ARTIC:	0°	PITCH:	-2.3	ROLL:	-1.0
9300	RC @ ARTIC:	20°	PITCH:	-2.3	ROLL:	-3.0
6300	RC @ ARTIC:	35°	PITCH:	-2.3	ROLL:	-3.5

51 BOOM ANGLE

(3.1) RADIUS AT ZERO BOOM ANGLE

Note: Pitch & Roll angles indicated are representative of lifts based on firm level ground with tyres at specified pressures.

24	36	48	44	48	64	64	68	
7200	7100	7100	7100	7200	7300	7400	7500	8.0
6900	6900	6900	6900	6800	6200	5700	5000	
6500	6300	5200	4600	4100	3900	3700	3400	
(7.9)	23	32	38	42	46	50	54	
	6100	6100	6100	6100	6300	6400	6500	9.0
	5900	5900	5900	5900	6100	5600	4900	
	5500	5300	4400	3900	3700	3500	3200	
	(8.9)	22	31	37	41	45	51	
	5300	5300	5300	5400	5500	5700		10.0
	5200	5100	5100	5300	5400	4800		
	4800	4500	3800	3500	3300	3000		
	(9.9)	21	30	36	40	47		
		4700	4700	4800	4900	5000		11.0
		4500	4500	4600	4700	4800		
		4200	3900	3400	3200	2800		
		(10.9)	21	29	35	42		
			4100	4200	4300	4500		12.0
			4000	4100	4200	4300		
			3700	3500	3100	2700		
			(11.9)	20	28	38		13.0
				3800	3800	4000		
				3600	3700	3800		
				3400	3200	2600		
				(12.9)	20	32		14.0
					3400	3600		
					3100	2600		
					(13.9)	26		15.0
						3200		
						2700		
						17		15.68
						3000		
						2600		
						0		
	13.00	14.00	15.00	16.00	17.00	18.00	19.83	