ALL TERRAIN LIFT & CARRY

GRANE





FRANNA 17-20

DEFINITIONS

Articulation – The crane pivots in the middle to allow steering and slewing the load. Working areas for the purpose of load rating are less than 10° articulation either way and greater than 10° (up to 40° articulation is possible either way). see working area diagram

Freely Suspended Load – Load hanging free with no direct external force applied except by the hoist line.

Load Radius – Horizontal distance from the centre of the front wheels forwards to the centre of the hoist line or tackle with load applied.

Loaded Boom Angle – This is given to assist in setting up the crane only. It gives only an approximation of the radius for a specified boom length. No allowance is made for boom or tyre deflection. The ratings are for the boom length and Load Radius shown.

Rated Lifting Capacity – The total suspended load, including the weight of material and load handling equipment, that the machine can safely lift under ideal conditions at a given boom length and load radius.

Side Load – Any external force applied either to the boom or load in a horizontal direction.

Work Areas – Area measured in an arc about the centre pivot as shown on the working area diagram. Lamps on the dash indicate which zone the crane is in.

! WARNING!

SPECIAL PRECATIONS FOR ARTICULATED CRANES

THERE IS A POTENTIAL FOR CRUSHING BETWEEN FRONT AND REAR CHASSIS WHEN THE MACHINE ARTICULATES. NEVER STAND IN THE PIVOT AREA WHEN THE ENGINE IS RUNNING OR EMERGENCY STEERING PUMP IS OPERATING. ALWAYS REMOVE THE KEY FROM THE IGNITION BEFORE WORKING IN THE PIVOT AREA.

DO NOT LEAVE IGNITION KEY SWITCHED ON WITH ENGINE STOPPED AND PARK BRAKE OFF, AS EMERGENCY HYDRAULIC STEERING PUMP WILL ACTIVATE.

GENERAL

- 1. This machine has been designed to meet the requirements of AS1418.1 & 1418.5 and has been tested in accordance with these standards for pick and carry operation on tyres.
- Rated lifting capacities shown are for this machine as originally manufactured by Terex Lifting Australia Pty Ltd. The lifting capacities only apply when all the instructions in this book are rigidly followed. Modifications to this machine or use of equipment other than that specified can result in a reduction of capacity.
- 3. If improperly operated or maintained, this machine can be hazardous. Operation and maintenance of this machine must be in compliance with the information in the operators, service, parts and safety manuals furnished. If these manuals are missing, obtain replacements through Terex Lifting Australia Pty Ltd or their agents.

SET-UP

- 4. Reduced crane lifting capacities for the particular job shall be established by the user with due allowance for adverse operating conditions. These conditions include the supporting surface, pendulum action of the load, jerking or sudden stops of the load and other factors affecting stability, two machine lifts, electrical wires, adverse weather, wind, hazardous surroundings, experience of personnel, etc.
- 5. Rated lifting capacities are based on freely suspended loads with the machine on a firm, level (max. 1% slope / 0.6°) and uniform surface. Lifting or travelling with a load on soft or uneven ground can be hazardous and will reduce the capacity of the crane. No attempt shall be made to drag the load along the ground in any direction.

! WARNING!

- 6. Rated lifting capacities above the red line are based on the machine's hydraulic or structural competence and not on machine stability. Rated capacities below the red line are based on machine stability.
- 7. The Rated lifting capacities include the weight of hooks, blocks, slings and auxiliary lifting devices. Their weight must be subtracted from the listed rating to determine the net load that can be lifted.
- 8. Loaded boom angles at specified boom lengths give only an approximation of the operating radius. The boom angle before loading should be greater to account for boom deflection increasing the radius as the load is lifted.

OPERATION

- 9. Side loading of the machine and load swing out may cause structural failure or machine tip-over. Side loads may be generated by: lifting when not level; sudden acceleration or deceleration in articulating with a load; dragging a load; pushing a load; wind forces on load and boom structure.
- 10. The capacity of the manual extension is structurally limited. The boom may be retracted and extended with the manual set, however the rating does not change from the fully extended position for the given boom angle.
- 11. It is safe to attempt to telescope any load within the limits of the rating chart. The maximum load that may be telescoped is limited by hydraulic pressure, boom angle and powered boom sections lubrication.
- 12. Do not allow the winch rope to unwind fully. Always ensure a minimum of two (2) wraps of rope remain on the winch drum. Note the areas on the range diagram where the fall block cannot reach the ground on four (4) or three (3) parts of rope.
- 13. Crane lifting capacities on tyres depend on tyre capacity, condition of the tyres and tyre air pressure. Tyres must be inflated to the recommended pressure before lifting.
- 14. Pick & carry operation is permitted through the full articulation range, however capacity is reduced above 10° articulation. Use the reduced ratings in the chart if entering this articulation range during the operation.
- 15. The maximum speed for pick & carry operation is 0.4m/s (1.6km/h). The transmission shall be set to low range.
- 16. Operation of this crane in excess of rating configuration charts and disregard of the instructions is hazardous.

OPERATION

- 1. Read and understand all warnings and instructional notes.
- 2. Rated lifting capacities above the red line are based on the machine's hydraulic or structural competence and not on machine stability. Rated capacities below the red line are based on machine stability.
- 3. Do not tip the machine to determine allowable lifting capacities.
- 4. The Rated lifting capacities include the weight of hooks, blocks, slings and auxiliary lifting devices. Their weight must be subtracted from the listed rating to determine the net load that can be lifted.
- Crane lifting capacities on tyres depend on tyre capacity, condition of the tyres and tyre air pressure. Tyres must be inflated to the recommended pressure before lifting.
- Pick & carry operation is permitted through the full articulation range, however capacity is reduced above 10° articulation. Use the reduced ratings in the chart if entering this articulation range during the operation.
- 7. Loads may be lifted from the main boom head on the winch or the rhino hook, the fixed lug, or either of the two sliding lugs on the boom. A flyjib is also available to extend the maximum boom length and a manbasket can be pinned to the head of the boom. Always use the correct rating chart for the lifting point in use and ensure the LMI is set to the correct duty.
- 8. Lifting from more than one lifting point simultaneously is neither intended nor approved.
- 9. When either the boom length or radius or both are between values listed, the smallest load shown at either the next larger radius or boom length shall be used, or the interpolated value shown on the LMI may be used
- 10. The winch rope is fully compensated for boom extension. The only exception is when the manual extension is being set. Refer to the operator's manual for the manual setting procedure. Once it is set the compensation is fully functional.
- The maximum speed for pick & carry operation is 0.4m/s (1.6km/h).
 The transmission shall be set to low range.
- 12. Handling of personnel from the boom is neither intended nor approved, except in a Terex Lifting Australia supplied manbasket, correctly installed on the head of the boom, or other approved arrangement.

SECTION 3

LIFTING CAPACITY

RANGE DIAGRAM (ALL LIFTS)

LMI DUTY 01 : LIFTING CAPACITY ON WINCH -POWERED SECTIONS

LMI DUTY 03 : LIFTING CAPACITY ON WINCH –MANUAL EXTENSION

LMI DUTY 02 : LIFTING CAPACITY ON RHINO HOOK -POWERED SECTIONS

LMI DUTY 04 : LIFTING CAPACITY ON RHINO HOOK – MANUAL EXTENSION

LMI DUTY 05 : LIFTING CAPACITY ON FLYJIB
(0° OFFSET) - POWERED SECTIONS

LMI DUTY 06 : LIFTING CAPACITY ON FLYJIB
(0° OFFSET) - MANUAL EXTENSION

LMI DUTY 07: LIFTING CAPACITY ON FLYJIB
(12.5° OFFSET) - POWERED SECTIONS

LMI DUTY 08 : LIFTING CAPACITY ON FLYJIB
(12.5° OFFSET) - MANUAL EXTENSION

LMI DUTY 09: LIFTING CAPACITY ON FIXED LUG ON BUTT

LMI DUTY 10: LIFTING CAPACITY ON INNER LUG ON FIRST EXT.

LMI DUTY 11: LIFTING CAPACITY ON OUTER LUG ON FIRST EXT.

LMI DUTY 12 : LIFTING CAPACITY IN MAN BASKET – POWERED SECTIONS

LMI DUTY 13 : LIFTING CAPACITY IN MAN BASKET – MANUAL EXTENSION

16C1320-/3-1

HOOK BLOCK WEIGHTS

30 kg
95 kg
125 kg
15 kg

NOTE: THESE WEIGHTS APPLY ONLY TO TEREX LIFTING AUSTRALIA PTY LTD SUPPLIED EQUIPMENT.

WINCH LOAD CHART

Number of Parts	Permissible Winch
of Rope	Load (kg)
1	4 200
2	8 400
3	12 600
4	16 800

Wire Rope:

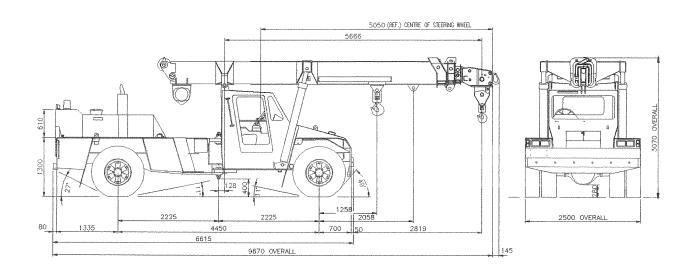
14mm 35W x 7 Non-rotating Compak Minimum Breaking Force 165 kN

TYRE INFLATION CHART

Position	Construction &	Inflation Pro	essure - PSI
FUSILIUII	Ply Rating	Pick & Carry	Highway Travel
Front	12.00 – 20 x 20 Ply	125	125
Rear	12.00 – 20 x 20 Ply	90	90



INFORMATIONAL DATA



Crane Dimensions

Length (carrier)	6 615
Width	2 500
Height (with Boom)	3 070
Length Overall	9 670
Wheelbase	4 450
Front Axle Weight	8 000 kg
Rear Axle Weight	11 500 kg

16C1320-/2-3

SWL (KG) LESS THAN 10 DEG ARTICULATION
SWL (KG) GREATER THAN 10 DEG ARTICULATION
BOOM ANGLE OR (RADIUS AT 0 DEG BOOM ANGLE)

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Lifting on WINCH MANUAL EXTENDED

SWL (KG) LESS THAN 10 DEG ARTICULATION SWL (KG) GREATER THAN 10 DEG ARTICULATION BOOM ANGLE

Weight of slings & hook block to be added to load Read and understand warning notes before operating crane Loads above bold red line are structural

MANUA	L EXT'N
MAX LEN	GTH 17.90
MAX	SWL
RADIUS	2550
6.74	2550
	60
	2250
9.31	2250
	50
	2050
11.53	2050
	40
	1900
13.34	1700
	30
	1800
14.67	1500
	20
	1650
15.51	1350
	10
	1600
15.80	1300
	00

NOTE:
17.9m Boom length includes Manual 3rd extension.
Ratings for Manual extension are structural & based on Boom Angle, not radius. The ratings do not change if the power sections are retracted with the manual extended.

SWL (KG) LESS THAN 10 DEG ARTICULATION
SWL (KG) GREATER THAN 10 DEG ARTICULATION
BOOM ANGLE

Weight of slings & hook block to be added to load Read and understand warning notes before operating crane Loads above bold red line are structural

MANUA	L EXT'N
MAX LEN	GTH 18.20
MAX	SWL
RADIUS	2400
6.91	2400
	60
	2100
9.52	2100
	50
	1900
11.78	1900
	40
	1800
13.62	1650
	30
	1750
14.97	1450
***************************************	20
	1550
15.81	1350
	10
	1550
16.11	1300
	00

NOTE:

18.2m Boom length includes Manual 3rd extension. Ratings for Manual extension are structural & based on Boom Angle, not radius. The ratings do not change if the power sections are retracted with the manual extended.

FL	/JIB
MAX LENG	STH 16.78
MAX	SWL
RADIUS	1500
6.23	1500
	60
	1200
8.62	1200 50
	970
10.69	970
	40
	850
12.37	850
	30
40.00	770
13.62	770 20
CONTRACTOR	750
14.40	750 750
	10
	750
14.68	750
	0

SWL (KG) LESS THAN 10 DEG ARTICULATION
SWL (KG) GREATER THAN 10 DEG ARTICULATION
BOOM ANGLE

Weight of slings & hook block to be added to load Read and understand warning notes before operating crane Loads above bold red line are structural

NOTE:

16.78m Boom length includes Flyiib.
Ratings for Flyiib are structural & based
on Boom Angle, not radius. The ratings do not
change if the power sections are retracted with
the Flyiib installed

LMI Duty Lifting on FLYJIB (0 offset)

06

MANUA	L EXT'N
MAX LENG	STH 20.83
MAX	SWL
RADIUS	1500
8.25	1500
	60
	1200
11.22	1200
***************************************	50
44.54	970
13.79	970
	40
15.88	850 850
13.00	30
	770
17.43	770
17.70	20
	750
18.39	750
10.55	10
	750
18.73	750
	0

000000000000000000000000000000000000000	SWL (KG) LESS THAN 10 DEG ARTICULATION
A Principal	SWL (KG) GREATER THAN 10 DEG ARTICULATION
THE PERSON	BOOM ANGLE

Weight of slings & hook block to be added to load Read and understand warning notes before operating crane Loads above bold red line are structural

NOTE:

20.83m Boom length includes Manual 3rd extension & Flyjib. Ratings for Flyjib are structural & based on Boom Angle, not radius. The ratings do not change if the power sections are retracted with the manual extended.

FLYJIB						
MAX LENGTH 16.71						
MAX	SWL					
RADIUS	1500					
6.71	1500					
	60					
	1200					
9.04	1200					
	50					
1400	970					
11.03	970					
	40 850					
12.63	850					
12.00	3.0					
	770					
13.78	770					
	20					
	750					
14.46	750					
	10					
4404	750					
14.64	750					
	0					

100000000000000000000000000000000000000	SWL	(KG)	LESS	THAI	N 10 D	EG	ARTI	CULA	TION	
200000000000000000000000000000000000000	SWL	(KG)	GREA	TER	THAN	10	DEG	ARTI	CULATI	ON
200000000000000000000000000000000000000	BOO	M AN	GLE							

Weight of slings & hook block to be added to load Read and understand warning notes before operating crane Loads above bold red line are structural

NOTE:

16.71m Boom length includes Flyiib. Ratings for Flyiib are structural & based on Boom Angle, not radius. The ratings do not change if the power sections are retracted with the Flyiib installed

> LMI Duty Lifting on FLYJIB (12.5 deg offset)

08

MANUAL EXT'N					
	GTH_20.76				
MAX	SWL				
RADIUS	1300				
8.73	1300				
	60				
44.04	1120				
11.64	1120				
	50				
14.13	920 920				
14.13	40				
	820				
16.14	820				
	30				
	770				
17.59	770				
	20				
	750				
18.45	750				
	10				
	750				
18.69	750				
	0 [

	SWL (KG) LESS THAN 10 DEG ARTICULATION	
	SWL (KG) GREATER THAN 10 DEG ARTICULATION	
	BOOM ANGLE	
И		

Weight of slings & hook block to be added to load Read and understand warning notes before operating crane Loads above bold red line are structural

NOTE:

20.76m Boom length includes Manual 3rd extension & Flyiib. Ratings for Flyiib are structural & based on Boom Angle, not radius. The ratings do not change if the power sections are retracted with the manual extended.

SWL (KG) LESS THAN 10 DEG ARTICULATION
SWL (KG) GREATER THAN 10 DEG ARTICULATION
BOOM ANGLE

FIXED LUG					
BOOM LENGTH 3.36					
MAX	SWL				
RADIUS					
AND DESCRIPTION OF THE PARTY OF	ALL PARTY OF THE P				
	-				
	-				
and the same of th	-				
The same of the sa					
0.00	20000				
0.86	20000 30				
	20000				
1.09	20000				
	20				
4 22	20000				
1.23	20000 10				
	20000				
1.26	20000				
	0				

Weight of slings & hook block to be added to load Read and understand warning notes before operating crane Loads above bold red line are structural

SWL (KG) LESS THAN 10 DEG ARTICULATION
SWL (KG) GREATER THAN 10 DEG ARTICULATION
BOOM ANGLE OR (RADIUS AT 0 DEG BOOM ANGLE)

				ВОС	M LENGTI	H (m)			
RADIUS	4.16	4.50	5.00	5.50	6.00	6.50	7.00	7.50	8.25
	20000	20000	20000	19300	18100	17200			
1.4	16000	16000	16000	16000	16000	16000			MARKO TO THE REAL PROPERTY.
	34	40	46	51	55	58			***************************************
	19000	19000	19000	18700	17600	16500	15600	15000	
1.7	16000	16000	16000	16000	16000	16000	15600	15000	amandama da
1 . 5	25	33	41	47	51	55	58	60	
2.0	16950	16900	16800	16700	16650	16000	14650	14100	
	14750	14700	14600	14500	14400	14350	14300	14100	
	11	25	36	43	48	52	55	57	
	16400	13800	13150	13100	13050	12950	12900	12750	11350
2.5	14300	11950	11400	11350	11250	11200	11150	11100	1105
	(2.06)	(2.40)	24	34	41	46	50	53	57
			11100	10700	10650	10600	10550	10500	10450
3.0			9600	9200	9150	9100	9050	9000	8950
			(2.90)	23	33	39	44	48	52
3.5		***************************************		9200	8900	8850	8800	8800	8750
				7900	7650	7600	7550	7500	7450
				(3.40)	22	31	38	42	48
4.0					7800	7550	7550	7500	7450
					6700	6450	6450	6400	6350
					(3.90)	21	30	36	43
						6700	6550	6500	6450
4.5						5700	5550	5500	5500
						(4.40)	20	29	37
							5850	5700	5650
5.0							4950	4800	4800
							(4.90)	19	31
								5150	5000
5.5								4350	4200
								(5.40)	23
6.0									4450
									3700
									11
6.15									4300
									3600
									(6.15)

SWL (KG) LESS THAN 10 DEG ARTICULATION
SWL (KG) GREATER THAN 10 DEG ARTICULATION
BOOM ANGLE OR (RADIUS AT 0 DEG BOOM ANGLE)

			STACON NEW TOWNSHIP TO STANKING THE TOWNSHIP TOWNSHIP TO STANKING THE TOWNSHIP TOWNS	gramment management and the second	EAD OFF S	procession and in contract or a second reconstitution		CONTROL OF THE PROPERTY OF THE	
RADIUS	4.16	4.50	5.00	5.50	6.00	6.50	7.00	7.50	8.25
	20000	20000	20000	19900					
1.4	16000	16000	16000	16000					
	46	50	54	57					
	19000	19000	19000	18850	17400	15650			
1.7	16000	16000	16000	16000	16000	15650			
	41	45	50	54	57	59			
	17400	17300	17150	17050	16350	14700	13400		
2.0	15200	15100	14950	14850	14750	14650	13400		
2.0	35	40	46	50	54	56	59		
	13700	13600	13500	13400	13300	13250	12350	11150	1015
2.5	11950	11850	11750	11650	11550	11500	11400	11150	10150
	23	31	38	44	48	52	54	57	60
	11850	11150	11050	11000	10900	10850	10750	10300	9350
3.0	10300	9700	9600	9500	9450	9350	9300	9250	9150
	(2.85)	17	29	37	42	46	50	53	56
		10350	9300	9250	9150	9100	9050	9000	8650
3.5		9000	8050	8000	7900	7850	7800	7750	7650
		(3.20)	16	28	35	41	45	48	52
4.0			8700	7900	7850	7800	7750	7700	7650
			7550	6800	6750	6700	6650	6600	6550
			(3.70)	15	27	34	39	43	48
				7450	6850	6800	6750	6700	6650
4.5				6400	5850	5800	5750	5750	5650
				(4.20)	15	26	33	38	44
					6500	6000	5950	5900	5850
5.0					5550	5100	5050	5000	4950
					(4.70)	14	25	32	39
						5700	5250	5250	5200
5.5						4850	4450	4450	4400
						(5.20)	14	24	33
					,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	***************************************	5050	4700	4650
6.0							4250	3950	3900
							(5.70)	13	27
6.5					****			4500	4200
								3750	3500
								(6.20)	19
6.9			***************************************					, , , , , , , , , , , , , , , , , , ,	3800
			***************************************						3150
						annye mandade ni mirakalake ini dibikin	600 - 100 100 1 100 100 100 100 100 100 1		(6.94)

MANBASKET					
MAX LENGTH 13.85					
MAX	SWL				
RADIUS 6.18	250				
6.18	250				
	60				
	250				
8.36	250				
	50				
10.22	250 250				
10.22	40				
	250				
11.71	250				
	30				
	250				
12.79	250				
	20				
13.42	250				
13.42	<u> 230</u>				
	250				
13.58	250				
	Ō				

SWL	(KG)	LESS	THAI	V 10	DEG	ART	ICUL/	NOITA	
SWL	(KG)	GREA	TER	THA	N 10	DEG	ARTI	CULAT	ION
BOOI	VI AN	GLE							

Read and understand warning notes before operating crane Loads above bold red line are structural

NOTE:

13.85m Boom length does not include Manbasket. Ratings for Manbasket are structural & based on Boom Angle, not radius. The ratings do not change if the power sections are retracted with the Manbasket installed

LMI Duty
Lifting in MANBASKET

13

MANUAL EXT'N					
MAX LENGTH 17.90					
MAX	SWL				
RADIUS	250				
8.20	250				
	60				
	250				
10.96	250				
	50				
	250				
13.32	<u>250</u>				
	40				
15.22	250 250				
10.22	30				
	250				
16.59	250				
	20				
	250				
17.41	250				
	10				
	250				
17.63	250				
	0				
B	L				

SWL (KG) LESS THAN 10 DEG ARTICULATION
SWL (KG) GREATER THAN 10 DEG ARTICULATION
BOOM ANGLE

Read and understand warning notes before operating crane Loads above bold red line are structural

NOTE:

17.90m Boom length includes Manual 3rd extension but not Manbasket. Ratings for Manbasket are structural & based on Boom Angle, not radius. The ratings do not change if the power sections are retracted with the manual extended.