

20m

18m

16m

14m

12m

10m

8m

6m

SPECIFICATIONS FOR 18 TONNE MODEL

RATED CAPACITY

18 Tonnes at 1.26m radius
16 Tonne at 2.01m radius
1.50 Tonne at 15.80m radius
Hook Height 16.75 metres
Lift Hook block 12.6 tonnes
Single Line 4.2 tonnes

AXLE LOADINGS

Front Axle 8000kg
Rear Axle 11000kg
TOTAL 19000kg

TURNING CIRCLE

Outside
Wheels 7.4 metres

DIMENSIONS

Overall Length
9.67 metres
Overall Width 2.50 metres
Overall Height
3.07 metres

HYDRAULIC WINCH

Line pull with full drum 4.2T
3/2 part fall block or single line, full hook compensation.

CABIN

ROPS type insulated lock up cabin.

ENGINE

Hino H07C-T 6 Cylinder
Turbo Charged
162 kW (217 HP) at 2800 rpm
647 Nm (477 ft.lbf) at 1700 rpm.

TRANSMISSION

Allison MT643
4 Speed fully automatic with lockup available in 3rd/4th whilst driving and 1st-4th in conjunction with the exhaust brake.

TRANSFER CASE

Two (2) speed AIR SHIFT with AIR SHIFT disconnect to REAR wheels.

HYDRAULIC TANK

Capacity 255 litres.

FUEL TANK

Capacity
290 litres.

DRIVE AXLES

Front and rear heavy duty drive axles. Driver engaged air diff lock on front axle.

DRIVE SHAFTS

Spicer Series 1610.

BRAKES

Full air S cam Twin Circuit Brakes front and rear axles. Spring applied on rear axle, Crane operation hold brake on front wheel. Engine exhaust brake.

TYRES

1200 x 20 x 20 PR Duals.

STEERING

Full Power ORBITROL with twin Hydraulic double acting rams. Priority flow from main pump supply plus electro hydraulic emergency supply.

HYDRAULIC PUMP

Load sensing axial piston
126 litre/min.

SUSPENSION

Two (2) Semi elliptic springs on each axle plus TORSION BAR on front axle for stability.

PERFORMANCE

Maximum – 85kph
Gradability – 50%

OPTIONAL EQUIPMENT

- Air Conditioning
- Machinery Hook (10 tonne SWL)
- Spare wheel carrier
- Central greasing
- Fly Jib (2.9m)
- Man Basket
- Spreader Bar
- Six speed synchromesh manual transmission
- Others on application

Specifications subject to change without notice.

PATENTED DESIGN



FRANNA CRANES PTY. LTD. A.C.N. 010 671 048

570 Curtin Avenue Eagle Farm Brisbane Qld 4009 Australia

Telephone: +61 7 3268 7422 Facsimile: +61 7 3268 2489

ALL TERRAIN LIFT & CARRY MOBILE CRANE



Quality
Endorsed
Company
ISO 9001:1994



AT-18



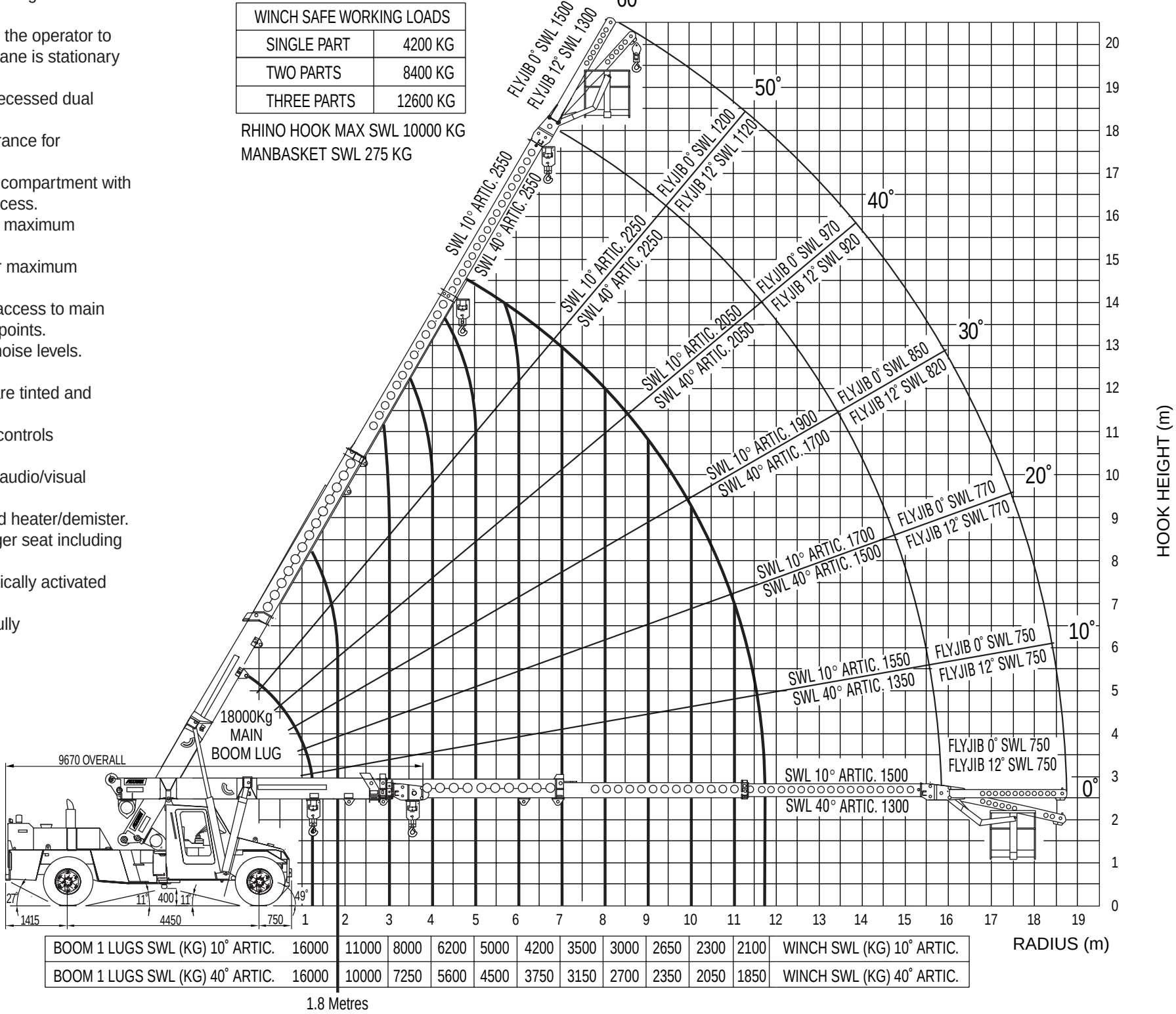
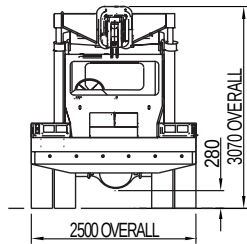


The FRANNA AT-18 is the latest addition in the successful Franna range of all terrain mobile cranes. This machine incorporates many new features which enhance safety, driver ergonomics and improve machine operations.

Built for comfort as well as hard work the cabin offers a spacious interior, a binnacle type dashboard, pilot operated hydraulics and a digital load indicator. Both the hydraulic oil and fuel tank have been integrated around the six cylinder engine in the rear body, with the latest design in adjustable wear pads and boom structure up front.

With this machine you have the power, finesse and versatility to lift almost anything anywhere. Here are some of the many features.

- Hydraulic winch with full hook compensation.
- Synchronised power boom $\frac{2}{3}$ part hook block.
- 40° articulation each side of centre providing a total of 80° of slewing arc.
- Exclusive hold brake attachment allows the operator to slew the crane through 80° whilst the crane is stationary and the holding brake is activated.
- 32mm thick steel front plate, with fully recessed dual headlights and blinkers.
- Boom head design with maximum clearance for machinery installation.
- 800 litre front mounted sling and tackle compartment with opening front and top doors for easy access.
- Wide stance boom lift cylinders provide maximum operator's vision.
- Total engine cover hinged rearwards for maximum access to engine and service points.
- Front bonnet cover hinged to allow full access to main hydraulics, pilot hydraulics and service points.
- Upswept exhaust muffler for minimum noise levels.
- Large, zone tinted front windscreen.
- Roof, rear and quarter glass windows are tinted and allow greater visibility.
- Full binnacle type instrumentation and controls positioned for ease of operation.
- Robway 1502 Safe Load Indicator with audio/visual overload pre-warning.
- 2 speed windscreen wipers, washer and heater/demister.
- Suspension driver's seat, fixed passenger seat including seat belts.
- Full power orbital steering with automatically activated DC emergency steering.
- Heavy duty front and rear bodies with fully incorporated checker plate mudguards.
- Work lights front and rear.
- Amber rotating light to rear bonnet.



NOTE: 1. UNLESS OTHERWISE STATED ALL SWL'S REFER TO LIFTING ON THE WINCH, FOR LIFTING LUG CAPACITIES PLEASE REFER TO THE SPECIFIC LOADCHART.
2. THIS RADIUS CHART IS A SUMMARY OF LOADCHART 16C1204-, REFER TO THE CRANE'S LOADCHART BEFORE ATTEMPTING A LIFT.



LOAD CHART 16C1204A
MODEL AT-18

S.W.L. IN KILOGRAMS FOR SLEW ANGLES OF 10° OR LESS EITHER
SIDE OF STRAIGHT AHEAD (INDICATED BY GREEN LED ON DASH).

S.W.L. IN KILOGRAMS FOR SLEW ANGLES OF GREATER THAN 10° EITHER
SIDE OF STRAIGHT AHEAD (INDICATED BY YELLOW LED ON DASH).

RADIUS IN METRES.

BOOM ANGLE	BOOM PIVOT TO HEAD SHEAVES – MANUAL EXTENSION RETRACTED.																				MAN. EXT.	FLY JIB	
	5.67	6.00	6.50	7.00	7.50	8.00	8.50	9.00	9.50	10.00	10.50	1.00	1.150	12.00	12.50	13.00	13.50	13.85	17.90	20.83		20.78	
60°			12600	12600	12600	12600	12600	12600	11860	11800	10600	9850	7800	7200	6700	6250	5800	5550	2550	1500	1300		
			12600	12600	12600	12600	12600	12600	12600	11860	11800	10700	9750	8950	7800	7200	6700	6250	5800	2550	1500	1300	
			1.04	1.29	1.54	1.79	2.04	2.29	2.54	2.79	3.04	3.29	3.54	3.79	4.04	4.29	4.54	4.72	6.74	8.26	8.73		
50°		12600	12600	12600	12600	12600	11150	9950	9000	8200	7500	6900	6400	5950	5550	5200	4850	4600	4400	2250	1200	1120	
		12600	12600	12600	12600	11650	10100	9060	8160	7400	6800	6260	5750	5360	5000	4650	4360	4100	3960	2260	1200	1120	
		1.45	1.66	1.98	2.30	2.62	2.95	3.27	3.59	3.91	4.23	4.55	4.87	5.20	5.52	5.84	6.16	6.48	6.71	9.31	11.22	11.64	
40°		12600	12600	1300	1330	9100	8100	7300	6650	6100	5600	5150	4800	4450	4150	3900	3650	3450	3300	2050	970	920	
		12600	12600	10750	9350	8250	7350	6600	6000	5500	5050	4650	4300	4000	3750	3500	3300	3100	2950	2060	970	920	
		2.16	2.42	2.80	3.18	3.56	3.95	4.33	4.71	5.10	5.48	5.86	6.25	6.63	7.01	7.39	7.78	8.16	8.43	11.53	13.79	14.13	
30°		12600	10850	9350	8250	7350	6650	5950	5400	4950	4600	4250	3950	3650	3400	3200	3050	2850	2700	1850	850	820	
		10850	9850	8500	7450	6600	5950	5350	4900	4450	4100	3800	3500	3250	3050	2850	2700	2500	2400	1700	850	820	
		2.75	3.03	3.47	3.90	4.33	4.77	5.20	5.63	6.07	6.50	6.93	7.36	7.80	8.23	8.66	9.10	9.53	9.83	13.34	15.88	16.14	
20°		10300	9300	8100	7150	6350	5670	5200	4750	4350	4000	3700	3450	3200	3000	2800	2650	2450	2350	1700	770	770	
		9350	8400	7300	6450	5750	5150	4650	4200	3900	3600	3300	3050	2850	2650	2500	2350	2200	2100	1500	770	770	
		3.19	3.50	3.97	4.44	4.91	5.38	5.85	6.32	6.79	7.26	7.73	8.20	8.67	9.13	9.60	10.07	10.54	10.87	14.88	17.43	17.99	
10°		9400	8500	7400	6550	5850	5300	4800	4350	4000	3700	3400	3200	2950	2750	2600	2400	2300	2200	1650	750	750	
		8500	7700	6700	5900	5300	4750	4300	3950	3600	3300	3000	2850	2650	2450	2300	2150	2000	1900	1350	750	750	
		3.46	3.79	4.28	4.77	5.27	5.76	6.26	6.74	7.24	7.73	8.22	8.71	9.21	9.70	10.19	10.68	11.18	11.62	15.61	18.39	18.45	
0°		9050	8200	7150	6350	5700	5100	4650	4250	3900	3600	3350	3100	2850	2700	2500	2350	2200	2100	1500	750	750	
		8200	7400	6500	5750	5100	4600	4200	3800	3500	3200	2950	2750	2650	2400	2200	2100	1950	1850	1300	750	750	
		3.57	3.90	4.40	4.90	5.40	5.90	6.40	6.90	7.40	7.90	8.40	8.90	9.40	9.90	10.40	10.90	11.40	11.75	15.80	18.73	18.69	

BOOM ANGLE	18T LUG	3.36	BOOM ANGLE	BOOM PIVOT TO INNER LUG, 1st EXTENSION MANUAL EXTENSION RETRACTED.															
				4.16	4.50	5.00	5.50	6.00	6.50	7.00	7.50	8.00	8.25	8.50	8.75	9.00	9.25		
				16000	15150	14000	13000	12500	11500	10500	9600	8850	8150	7500	6900	6350	5850	5400	
60°			60°								1.6000	16000	15900	14530	12600	10950	9600	9050	
											1.6000	16000	15900	13350	11360	9600	8650	8150	
											1.17	1.49	1.81	2.14	2.46	2.78	3.10	3.20	
											1.22	1.47	1.72	1.97	2.09	2.21	2.33	2.45	
50°			50°								1.6000	16000	15900	14530	12600	10950	9600	9050	
											1.6000	16000	15900	13350	11360	9600	8650	8150	
											1.17	1.49	1.81	2.14	2.46	2.78	3.10	3.20	
											1.22	1.47	1.72	1.97	2.09	2.21	2.33	2.45	
40°			40°								1.6000	16000	16000	13300	11060	9350	8050	7050	6200
											1.13	1.40	1.78	2.16	2.55	2.93	3.31	3.69	4.08
											1.6000	16000	16000	13300	11060	9350	8050	7050	6200
											1.13	1.40	1.78	2.16	2.55	2.93	3.31	3.69	4.08
											1.6000	16000	15000	16000	13300	11060	9350	8050	7050
											1.6000	16000	12700	10400	8700	7450	6450	5650	4950
30°			30°								1.54	1.84	2.27	2.70	3.14	3.57	4.00	4.43	4.87
											1.83	2.16	2.63	3.10	3.57	4.04	4.51	4.98	5.46
											1.6000	16000	12700	10400	8700	7450	6450	5650	4950
											1.83	2.16	2.63	3.10	3.57	4.04	4.51	4.98	5.46
											1.6000	16000	12700	10400	8700	7450	6450	5650	4950
											1.83	2.16	2.63	3.10	3.57	4.04	4.51	4.98	5.46
											1.6000	16000	12700	10400	8700	7450	6450	5650	4950
											1.83	2.16	2.63	3.10	3.57	4.04	4.51	4.98	5.46
											1.6000	16000	12700	10400	8700	7450	6450	5650	4950
											1.83	2.16	2.63	3.10	3.57	4.04	4.51	4.98	5.46
											1.6000	16000	12700	10400	8700	7450	6450	5650	4950
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											1.83	2.16	2.63	3.10	3.57	4.04	4.51	4.98	5.46
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											1.6000	16000	12700	10400	8700	7450	6450	5650	4950
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											1.83	2.16	2.63	3.10	3.57	4.04	4.51	4.98	5.46
											1.6000	16000	12700	10400	8700	7450	6450	5650	4950
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											1.6000	16000	12700	10400	8700	7450	6450	5650	4950
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											1.6000	16000	12700	10400	8700	7450	6450	5650	4950
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											1.6000	16000	12700	10400	8700	7450	6450	5650	4950
											1.83	2.16	2.63	3.10	3.57	4.04	4.51	4.98	5.46
											1.6000	16000	12700	10400	8700	7450	6450	5650	4950
											1.83	2.16	2.63	3.10	3.57	4.04	4.51	4.98	5.46
											1.6000	16000	12700	10400	8700	7450	6450	5650	4950
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											1.83	2.16	2.63	3.10	3.57	4.04	4.51	4.98	5.46
											1.6000	16000	12700	10400	8700	7450	6450	5650	4950
											1.83	2.16	2.63	3.10	3.57	4.04	4.51	4.98	5.46
											1.6000	16000	12700	10400	8700	7450	6450	5650	4950
											1.83	2.16	2.63	3.10	3.57	4.04	4.51	4.98	5.46
											1.6000	16000	12700	10400	8700	7450	6450	5650	4950
											1.83	2.16	2.63	3.10	3.57	4.04	4.51	4.98	5.46
											1.6000	16000	12700	10400	8700	7450	6450	5650	4950
											1.83	2.16	2.63	3.10	3.57	4.04	4.51	4.98	5.46
											1.6000	16000	12700	10400	8700	7450	6450	5650	4950
											1.83	2.16	2.63	3.10	3.57	4.04	4.51	4.98	5.46
											1.6000	16000	12700	10400	8700	7450	6450	5650	4950
											1.83	2.16	2.63	3.10	3.57	4.04	4.51	4.98	5.46
											1.6000	16000	12700	10400	8700	7450	6450	5650	4950
											1.83	2.16	2.63	3.10	3.57	4.04	4.51	4.98	5.46
											1.6000	16000	12700	10400	8700	7450	6450	5650	4950
											1.83	2.16	2.63	3.10	3.57	4.04	4.51	4.98	5.46
											1.6000	16000	12700	10400	8700	7450	6450	5650	4950
											1.83	2.16	2.63	3.10	3.57	4.04	4.51	4.98	5.46
											1.6000	16000	12700	10400	8700	7450	6450	5650	4950
											1.83	2.16	2.63	3.10	3.57	4.04	4.51	4.98	5.46
											1.6000	16000	12700	10400	8700	7450	6450	5650	4950
											1.83	2.16	2.63	3.10	3.57	4.04	4.51	4.98	5.46
											1.6000	16000	12700	10400	8700	7450	6450	5650	4950
											1.83	2.16	2.63	3.10	3.57	4.04	4.51	4.98	5.46
											1.6000	16000	12700	10400	8700	7450	6450	5650	4950
											1.83	2.16	2.63	3.10					

BOOM ANGLE	OUTER LUG, 1st EXTENSION, MANUAL EXT., RETRACTED										
	READ OFF INNER LUG INDICATOR SCALE (RED)										
	4.16	4.50	5.00	5.50	6.00	6.50	7.00	7.50	8.00	8.25	
60°					16000	16000	15300	14150	13100	11950	12000
					16000	16000	15300	14150	13100	11950	12000
					1.12	1.37	1.62	1.87	2.12	2.37	2.46
50°	16000	16000	16000	16000	15300	14150	13100	12000	10850	9700	9750
	16000	16000	16000	14750	12450	10750	9400	8300	7400	7000	7000
	1.14	1.37	1.69	2.01	2.33	2.65	2.97	3.30	3.62	3.77	
40°	16000	16000	15350	14150	12850	11650	10450	9250	8050	6750	6750
	16000	15000	12300	10350	8900	7750	6800	6050	5400	5100	
	1.74	2.01	2.39	2.78	3.16	3.54	3.93	4.31	4.69	4.88	
30°	14900	12200	10750	9150	7900	6900	6100	5450	4900	4650	
	13550	11700	9700	8250	7100	6200	5450	4850	4350	4100	
	2.23	2.53	2.96	3.40	3.80	4.20	4.70	5.13	5.56	5.77	
20°	12700	11650	9300	7900	6850	6000	5350	4750	4250	4000	
	11550	10000	8400	7150	6150	5400	4750	4200	3750	3550	
	2.58	2.91	3.38	3.86	4.30	4.79	5.26	5.70	6.20	6.43	
10°	11050	10150	8550	7300	6350	5650	5000	4350	3900	3700	
	10550	9200	7700	6600	5750	5100	4500	3850	3450	3250	
	2.79	3.14	3.63	4.12	4.61	5.10	5.60	6.09	6.58	6.82	
0°	11350	9900	8350	7100	6150	5400	4800	4250	3800	3600	
	10300	8950	7500	6400	5550	4850	4250	3700	3350	3150	
	2.85	3.20	3.70	4.20	4.70	5.20	5.70	6.20	6.70	6.96	

S.W.L ARE BASED ON 66.7% STABILITY & STRENGTH.
- S.W.L ABOVE BOLD RED LINE ARE STRUCTURAL.
- S.W.L ON 18T LUG ARE STRUCTURAL.

S.W.L ARE BASED ON FIRM LEVEL GROUND (1% SLOPE (0.6 DEG)
AS PER ASI(418.5) WITH TYRES INFLATED AS PER THIS CHART.
WEIGHT OF HOOKS, BLOCKS, SLINGS & OTHER LOAD HANDLING
DEVICES SHALL BE ADDED TO THE WEIGHT OF THE LOAD.
LIFT & CARRY - THE S.W.L SHALL BE CARRIED WITH THE MINIMUM
BOOM LENGTH & AS CLOSE TO THE GROUND AS POSSIBLE AT
SPEEDS NOT IN EXCESS OF 0.4 m/sec (1.44km/hr).

HOIST ROPE

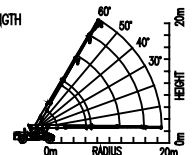
DIAMETER : Nominal 14mm.
CONST : 35Wx7NR COMPAK MIN. BREAKING LOAD : 165 kN.
MACHINE SPLICE & THIMBLE EYE, ONE END ONLY, LENGTH : 65m.

BOOM HEAD MOUNTED RHINO HOOK

MAXIMUM S.W.L ABOVE BOLD BLACK LINE IS 10000 KG
WHICH IS STRUCTURAL.
S.W.L BELOW BOLD BLACK LINE AS PER CHART WITH LENGTH
AS READ ON BOOM LENGTH INDICATOR + 0.50 METRE.

TYRES

FRONT : 12.00x20x20 PLY INFLATED TO 125 PSI (DUAL)
REAR : 12.00x20x20 PLY INFLATED TO 90 PSI (DUAL)



WARNING

DO NOT LEAVE KEY "ON"
EMERGENCY STEERING
WILL ACTIVATE.

WINCH SAFE WORKING LOADS

SINGLE PART	4200 KG
TWO PARTS	8400 KG
THREE PARTS	12600 KG

