

TADANO ROUGH TERRAIN CRANE

MODEL : **GR-120NL**

(Right-hand steering)

GENERAL DATA

<u>CRANE CAPACITY</u>		12,000 kg at 2.0 m
<u>BOOM</u>		6-section, 5.3 m — 23.8 m
<u>DIMENSIONS</u>		
Overall length	approx.	7,430 mm
Overall width	approx.	2,000 mm
Overall height	approx.	2,800 mm
<u>MASS</u>		
Gross vehicle mass	approx.	13,365 kg
front axle	approx.	6,900 kg
rear axle	approx.	6,465 kg
<u>PERFORMANCE</u>		
Max. travelling speed	computed	49 km/h
Gradeability (tan θ)	computed	46%

Specifications are subject to change without notice.

CRANE SPECIFICATIONS

<u>MODEL</u>	GR-120NL
<u>CAPACITY</u>	12,000 kg at 2.0 m
<u>BOOM</u>	Six-section full length power telescoping boom of box construction with 4 sheaves at boom head. 4th, 5th and top boom section, as well as 2nd and 3rd boom section, telescope synchronously by means of a double-acting cylinder, extension cables and retraction cables. Hydraulic cylinders fitted with holding valves. Fully retracted length..... 5.3 m Fully extended length..... 23.8 m Extension speed..... 18.5 m in 52 s
<u>JIB</u>	Two-staged extension type. Triple offset (5° /25° /45°) type. Single sheave at jib head. Stored under base boom section. Length..... 3.6 m and 5.5 m
<u>SINGLE TOP (AUXILIARY BOOM SHEAVE)</u>	Single sheave. Mounted to main boom head for single line work.
<u>ELEVATION</u>	By a double-acting hydraulic cylinder, fitted with holding valve. Elevation speed..... -3° to 82° in 29 s
<u>HOIST — Main winch</u>	Grooved drum driven by hydraulic axial piston motor through winch speed reducer. Power load lowering and hoisting. Equipped with automatic brake (neutral brake) and counterbalance valve. Controlled independently of auxiliary winch. Single line pull..... 14.7 kN {1,500 kgf} Single line speed..... 124 m/min. (at the 5th layer) Wire rope..... Spin-resistant type Diameter × length..... 11.2 mm × 132 m
<u>HOOK BLOCK—</u> <u>12 t capacity</u>	4 sheaves, swivel type hook with safety latch.
<u>HOIST —</u> <u>Auxiliary winch</u>	Grooved drum driven by hydraulic axial piston motor through winch speed reducer. Power load lowering and hoisting. Equipped with automatic brake (neutral brake) and counterbalance valve. Controlled independently of main winch. Single line pull..... 17.7 kN {1,800 kgf} Single line speed..... 105 m/min. (at the 3rd layer) Wire rope..... Spin-resistant type Diameter × length..... 11.2 mm × 65 m

HOOK BLOCK—
1.8 t capacity

Swivel hook with safety latch for single line use.

SWING

A hydraulic piston motor driven through planetary swing speed reducer. Continuous 360° full circle swing on ball bearing slew ring.

Equipped with spring loaded swing brake.

Swing speed.....2.4 min⁻¹ {rpm}

HYDRAULIC SYSTEM

Pumps.....Two variable piston pumps for telescoping, elevating and winches. Tandem gear pump for swing, steering and accumulator.

Control valves...Multiple valves actuated by pilot pressure with integral pressure relief valves.

Circuit.....Equipped with air cooled type oil cooler. Oil pressure appears on AML display for main circuit and accumulator.

Hydraulic oil tank capacity....
 approx. 172 liters

Filters.....Return line filter

CAB

Both crane and drive operations can be performed from cab mounted on rotating superstructure. One sided one-man type, steel construction cab with safety glass, sliding door access and windows opening at side and rear. 3-way adjustable, shoulder-supportable, cloth-covered operator's seat with armrest.

TADANO Automatic
Moment Limiter
(Model:AML-L)

Main unit in crane cab gives audible and visual warning of approach to overload. Automatically cuts out crane motions (including swing motion) before overload. With working range (load radius and/or boom angle and/or tip height and/or swing range) limit function.

Eight functions are constantly displayed.

Digital liquid crystal display:

Either boom angle or moment %

Either boom length or potential hook height

Either actual load radius or swing angle

Actual hook load

Permissible load

Either jib offset angle or number of parts of line of rope

Boom position indicator

Either outriggers position or on-tire indicator

Bar graphical display:

Either moment as percentage or main hydraulic pressure and accumulator pressure (Display changes by alternation key)

OUTRIGGERS

Hydraulically operated H-type outriggers. Each outrigger controlled simultaneously or independently from the cab. Equipped with sight level gauge. Floats mounted integrally with the jacks retract to within vehicle width. All jack cylinders fitted with pilot check valves. Equipped with extension width detector for each outrigger.

Extended width

Fully.....	4,700 mm
Middle.....	4,300 mm, 3,500 mm, 2,500 mm
Minimum.....	1,640 mm

Float size (Diameter)...350 mm

NOTE : Each crane motion speed is based on unladen conditions.

CARRIER SPECIFICATIONS

<u>TYPE</u>	Rear engine, right-hand steering, driving axle 2-way selected type (by manual switch). 4 × 2 front drive 4 × 4 front and rear drive
<u>FRAME</u>	High-tensile steel, all welded box construction.
<u>ENGINE</u>	Model.....MITSUBISHI 4M50-TLE2A Type.....4 cycle, turbo charged and after cooled, 4 cylinder in line, direct injection, water cooled diesel engine. Piston displacement....4,899 cm ³ Bore × stroke.....114 mm × 120 mm Max. output.....125 kW {170 PS} at 2,800 min ⁻¹ {rpm} Max. torque.....451 N·m {46.0 kgf·m} at 1,800 min ⁻¹ {rpm}
<u>TRANSMISSION</u>	Full automatic transmission. Torque converter (with automatic lock up device at forward 1st, 2nd and 3rd of High range) driving full powershift. High range.....3 forward and 1 reverse speeds. Low range.....3 forward and 1 reverse speeds.
<u>AXLES</u>	Front.....Full floating type, steering and driving axle. Conventional differential. RearFull floating type, steering and driving axle. Conventional differential.
<u>STEERING</u>	Hydraulic power steering controlled by steering wheel. 4 steering modes available: 2-wheel front 2-wheel rear 4-wheel coordinated 4-wheel crab
<u>SUSPENSION</u>	Front..... Semi-elliptic leaf springs with hydraulic lockout device. Rear..... Semi-elliptic leaf springs with hydraulic lockout device.
<u>BRAKE SYSTEM</u>	Service.....Air over hydraulic disc brakes on all 4 wheels. Parking.....Spring operated air released brake acting on input shaft of front axle. Auxiliary...Exhaust brake.
<u>ELECTRIC SYSTEM</u>	24 V DC. 2 batteries of 12 V - 100 Ah capacity.
<u>FUEL TANK CAPACITY</u>	189 liters
<u>TIRES</u>	Front.....275/80 R22.5 149/146J, Single × 2 Rear.....275/80 R22.5 149/146J, Single × 2
<u>TURN RADIUS</u>	Min. turning radius(at center of extreme outer tire)..... 2-wheel steering.....6.5 m 4-wheel steering.....3.8 m

EQUIPMENT

STANDARD EQUIPMENT

Automatic moment limiter (AML-L)
 Pendant type over-winding cutout
 Over-unwinding prevention
 Hook stowing device (Mechanically stowed beneath boom top portion)
 Hook safety latch
 Pilot check valves
 Holding valves
 Counterbalance valves
 Hydraulic pressure relief valves
 Swing brake
 Working area control device
 Swing signal lamp
 Boom elevation slowing-down and stop function
 Load follower control switch
 Boom telescoping foot pedal
 Auxiliary winch foot pedal
 Outrigger extension width detector
 Sight level gauge
 Hydraulic oil cooler
 Electric windshield wiper and washer
 Roof window wiper and washer
 Tachometer/Speedometer
 Seat belt (Driver's seat)
 Air conditioner (Hot water heater type with dehumidification function)
 Power window (Right-hand door of the cab)
 Cab floor mat
 Sun visor (Roof and side)
 Neutral position adjustable crane control levers
 Automatic drive system
 Transmission neutral position engine start
 Overshift prevention
 Parking braked travel warning
 Rear steering lock
 Tilt-telescope steering wheel
 Back-up alarm
 Air cleaner dust indicator
 Air dryer
 Engine over-run alarm
 Hydraulic lockout suspension
 Towing eyes - front and rear
 Reversing steering compensator
 Emergency steering
 Central lubricating system

OPTIONAL EQUIPMENT

External lamp (AML)
 Winch drum rotation indicator (Visual)
 Power stowing mirror
 Tire inflation kit

RATED LIFTING CAPACITIES

I S O 4 3 0 5

ON OUTRIGGERS

Unit : kg

Outriggers fully extended (4.7 m) —360° rotation—						
A \ B	5.3 m	9.0 m	12.7 m	16.4 m	20.1 m	23.8 m
1.0 m	12,000	6,000				
1.5 m	12,000	6,000	6,000			
2.0 m	12,000	6,000	6,000	5,000		
2.5 m	10,000	6,000	6,000	5,000	4,500	
3.0 m	8,200	6,000	6,000	5,000	4,500	
3.5 m	7,000	6,000	6,000	5,000	4,500	3,000
4.0 m	6,100	6,000	5,350	4,850	4,250	3,000
4.5 m		5,200	4,750	4,350	3,850	3,000
5.0 m		4,650	4,250	3,900	3,550	3,000
5.5 m		4,150	3,800	3,550	3,300	2,900
6.0 m		3,750	3,450	3,200	3,050	2,750
7.0 m		3,050	2,850	2,700	2,550	2,350
8.0 m		2,700	2,200	2,300	2,200	2,100
9.0 m		(7.7m)	1,650	1,950	1,900	1,800
10.0 m			1,250	1,700	1,650	1,600
11.0 m			1,000	1,400	1,450	1,400
12.0 m			900	1,150	1,300	1,200
13.0 m			(11.4m)	950	1,100	1,100
14.0 m				750	900	1,000
15.0 m				650	750	850
16.0 m					650	700
17.0 m					550	600
18.0 m					450	500
19.0 m					400	400
20.0 m					(18.7m)	350
22.0 m						250
22.3 m						230

A : Boom length

B : Load radius

RATED LIFTING CAPACITIES

I S O 4 3 0 5

ON OUTRIGGERS

Unit : kg

Outriggers extended to middle (4.3 m) — Over side —						
A \ B	5.3 m	9.0 m	12.7 m	16.4 m	20.1 m	23.8 m
1.0 m	12,000	6,000				
1.5 m	12,000	6,000	6,000			
2.0 m	12,000	6,000	6,000	5,000		
2.5 m	10,000	6,000	6,000	5,000	4,500	
3.0 m	8,200	6,000	6,000	5,000	4,500	
3.5 m	7,000	6,000	6,000	5,000	4,500	3,000
4.0 m	6,100	6,000	5,350	4,850	4,250	3,000
4.5 m		5,200	4,750	4,350	3,850	3,000
5.0 m		4,650	4,250	3,900	3,550	3,000
5.5 m		4,150	3,800	3,550	3,300	2,800
6.0 m		3,750	3,450	3,200	3,050	2,650
7.0 m		2,900	2,850	2,700	2,550	2,350
8.0 m		2,450	2,150	2,300	2,200	2,100
9.0 m		(7.7m)	1,650	1,900	1,900	1,800
10.0 m			1,300	1,500	1,650	1,600
11.0 m			1,050	1,200	1,350	1,400
12.0 m			950	1,000	1,100	1,200
13.0 m			(11.4m)	800	900	1,000
14.0 m				600	750	850
15.0 m				500	600	700
16.0 m					500	600
17.0 m					400	500
18.0 m					300	430
19.0 m					250	350
20.0 m					(18.7m)	250

A : Boom length

B : Load radius

RATED LIFTING CAPACITIES

I S O 4 3 0 5

ON OUTRIGGERS

Unit : kg

Outriggers extended to middle (3.5 m) — Over side—						
A B	5.3 m	9.0 m	12.7 m	16.4 m	20.1 m	23.8 m
1.0 m	12,000	6,000				
1.5 m	12,000	6,000	6,000			
2.0 m	12,000	6,000	6,000	5,000		
2.5 m	10,000	6,000	6,000	5,000	4,500	
3.0 m	8,200	6,000	6,000	5,000	4,500	
3.5 m	7,000	6,000	6,000	5,000	4,500	3,000
4.0 m	6,100	6,000	5,350	4,850	4,250	3,000
4.5 m		4,750	4,700	4,350	3,850	3,000
5.0 m		3,850	3,800	3,900	3,550	3,000
5.5 m		3,250	3,100	3,500	3,300	2,900
6.0 m		2,700	2,600	2,950	3,050	2,750
7.0 m		1,950	1,850	2,150	2,350	2,350
8.0 m		1,600	1,350	1,650	1,800	1,850
9.0 m		(7.7m)	1,000	1,250	1,400	1,450
10.0 m			700	950	1,100	1,150
11.0 m			500	750	850	950
12.0 m			400	550	650	750
13.0 m			(11.4m)	400	500	600
14.0 m				300	400	450
15.0 m				200	300	350
16.0 m					200	250
17.0 m						200

A : Boom length

B : Load radius

RATED LIFTING CAPACITIES

I S O 4 3 0 5

ON OUTRIGGERS

Unit : kg

		Outriggers extended to middle (2.5 m)					— Over side —
A \ B	5.3 m	9.0 m	12.7 m	16.4 m	20.1 m	23.8 m	
1.0 m	12,000	6,000					
1.5 m	12,000	6,000	6,000				
2.0 m	12,000	6,000	6,000	5,000			
2.5 m	8,000	6,000	6,000	5,000	4,500		
3.0 m	5,700	5,500	5,500	5,000	4,500		
3.5 m	4,250	4,200	4,150	4,500	4,500	3,000	
4.0 m	3,450	3,250	3,300	3,550	3,650	3,000	
4.5 m		2,550	2,500	2,800	2,950	3,000	
5.0 m		2,050	2,000	2,300	2,400	2,550	
5.5 m		1,650	1,600	1,850	2,050	2,150	
6.0 m		1,350	1,300	1,550	1,700	1,800	
7.0 m		900	850	1,050	1,200	1,300	
8.0 m		650	500	750	900	950	
9.0 m		(7.7m)	250	500	650	700	
10.0 m				300	450	500	
11.0 m					300	350	
12.0 m						250	

ON OUTRIGGERS

Unit : kg

		Outriggers extended to minimum (1.64 m)					— Over side —
A \ B	5.3 m	9.0 m	12.7 m	16.4 m	20.1 m	23.8 m	
1.0 m	8,000	6,000					
1.5 m	7,000	6,000	6,000				
2.0 m	5,500	5,400	5,500	5,000			
2.5 m	3,700	3,800	3,550	3,200	3,200		
3.0 m	2,700	2,850	2,650	2,600	2,600		
3.5 m	2,100	2,000	2,000	2,050	2,100	2,100	
4.0 m	1,600	1,550	1,500	1,600	1,700	1,750	
4.5 m		1,150	1,100	1,250	1,400	1,450	
5.0 m		850	800	1,000	1,150	1,250	
5.5 m		600	600	800	950	1,050	
6.0 m		450	400	600	750	850	
7.0 m				350	450	550	
8.0 m						350	

A : Boom length

B : Load radius

RATED LIFTING CAPACITIES

I S O 4 3 0 5

ON OUTRIGGERS

Outriggers fully extended (4.7 m) —360° rotation—												
Boom angle	23.8m Boom + 3.6m Jib						23.8m Boom + 5.5m Jib					
	5° offset		25° offset		45° offset		5° offset		25° offset		45° offset	
	R (m)	W (kg)	R (m)	W (kg)	R (m)	W (kg)	R (m)	W (kg)	R (m)	W (kg)	R (m)	W (kg)
82.0°	3.8	1,500	4.7	1,200	5.9	900	3.9	850	6.2	700	7.2	600
80.0°	4.8	1,500	5.7	1,200	6.8	900	5.0	850	7.3	700	8.2	600
75.0°	7.3	1,500	8.1	1,200	9.2	900	7.7	850	9.9	700	10.6	550
70.0°	9.7	1,250	10.4	1,000	11.4	850	10.3	850	12.2	650	12.8	530
65.0°	12.0	1,050	12.5	900	13.4	770	12.6	800	14.3	600	15.0	500
60.0°	14.2	900	14.6	800	15.4	700	14.8	660	16.3	550	17.0	480
55.0°	16.2	690	16.4	650	17.0	640	16.9	580	18.0	500	18.9	450
50.0°	18.0	500	18.2	470	18.5	470	18.8	450	19.6	420	20.5	410
45.0°	19.7	360	19.8	340	19.8	340	20.5	320	21.1	300	22.0	290
40.0°	21.1	260	21.2	240			22.3	220	23.2	210		
35.0°	22.3	170	22.4	170								

ON OUTRIGGERS

Outriggers extended to middle (4.3 m) —Over side—												
Boom angle	23.8m Boom + 3.6m Jib						23.8m Boom + 5.5m Jib					
	5° offset		25° offset		45° offset		5° offset		25° offset		45° offset	
	R (m)	W (kg)	R (m)	W (kg)	R (m)	W (kg)	R (m)	W (kg)	R (m)	W (kg)	R (m)	W (kg)
82.0°	3.8	1,500	4.7	1,200	5.9	900	3.9	850	6.1	700	7.1	600
80.0°	4.8	1,500	5.7	1,200	6.9	900	5.0	850	7.2	700	8.2	600
75.0°	7.3	1,500	8.1	1,200	9.2	900	7.7	850	9.9	700	10.6	550
70.0°	9.7	1,250	10.4	1,000	11.4	850	10.2	850	12.2	650	12.8	530
65.0°	12.0	1,050	12.5	900	13.4	770	12.6	800	14.3	600	15.0	500
60.0°	14.2	800	14.5	740	15.3	650	14.8	660	16.3	550	17.0	480
55.0°	16.1	550	16.4	520	16.9	500	16.8	500	18.0	450	18.8	400
50.0°	17.9	370	18.1	350	18.4	340	18.7	340	19.6	310	20.5	310
45.0°	19.6	240	19.7	230	19.8	220	20.5	220	21.1	200	21.9	200

R : Load radius

W : Rated lifting capacity

RATED LIFTING CAPACITIES

I S O 4 3 0 5

ON OUTRIGGERS

Outriggers extended to middle (3.5 m) —Over side—												
Boom angle	23.8m Boom + 3.6m Jib						23.8m Boom + 5.5m Jib					
	5° offset		25° offset		45° offset		5° offset		25° offset		45° offset	
	R (m)	W (kg)	R (m)	W (kg)	R (m)	W (kg)	R (m)	W (kg)	R (m)	W (kg)	R (m)	W (kg)
82.0°	3.8	1,500	4.7	1,200	5.9	900	3.9	850	6.1	700	7.2	600
80.0°	4.8	1,500	5.7	1,200	6.8	900	5.0	850	7.3	700	8.2	600
75.0°	7.3	1,500	8.1	1,200	9.2	900	7.7	850	9.9	700	10.6	550
70.0°	9.6	1,100	10.3	1,000	11.4	850	10.2	850	12.2	650	12.8	530
65.0°	11.8	700	12.4	670	13.3	630	12.5	660	14.2	520	14.9	450
60.0°	13.9	420	14.4	420	15.2	400	14.6	400	16.2	350	16.9	330
55.0°	15.9	240	16.2	240	16.8	230	16.9	230	17.9	200	18.7	190

ON OUTRIGGERS

Outriggers extended to middle (2.5 m) —Over side—												
Boom angle	23.8m Boom + 3.6m Jib						23.8m Boom + 5.5m Jib					
	5° offset		25° offset		45° offset		5° offset		25° offset		45° offset	
	R (m)	W (kg)	R (m)	W (kg)	R (m)	W (kg)	R (m)	W (kg)	R (m)	W (kg)	R (m)	W (kg)
82.0°	3.8	1,500	4.7	1,200	5.9	900	3.9	850	6.1	700	7.2	600
75.0°	7.2	1,100	8.0	900	9.1	800	7.7	850	9.8	650	10.5	500
70.0°	9.5	570	10.1	500	11.1	450	10.0	500	12.0	400	12.7	350
65.0°	11.6	250	12.1	220	13.1	200	12.2	200				

R : Load radius

W : Rated lifting capacity

NOTES FOR "ON OUTRIGGERS" TABLES

1. Rated lifting capacities based on crane stability are according to ISO 4305.
2. Rated lifting capacities shown in the table are based on condition that crane is set on firm level surface. Those above bold lines are based on crane strength and those below, on its stability.
3. The mass of the hook (90 kg for 12,000 kg capacity, 25 kg for 1,800 kg capacity), slings and all similarly used load handling devices must be added to the weight of the load.
4. Jib operation should be based on boom angle irrespective of boom length. The working radius shown above is reference value with jib mounted to 23.8m boom.
5. For rated lifting capacity of single top, reduce the 90 kg from the relevant boom rated lifting capacity.
Rated lifting capacity of single top should not exceed 1,800 kg.
6. High-speed down hoisting should be performed without any load on the hook. Be sure to operate the levers slowly.
7. Standard number of parts of line for each boom length is as shown below. Load per line should not surpass 1,500 kg for main winch and 1,800 kg for auxiliary winch.

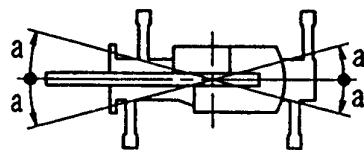
Boom length (m)	5.3	9.0	12.7	16.4	20.1	23.8	JIB/Single top
No. of parts of line	8	4	4	4	4	4	1

The lifting capacity data stored in the AUTOMATIC LIMITER(AML) is based on the standard number of parts of line listed in the chart.

Maximum lifting capacity is restricted by the number of parts of line of AUTOMATIC MOMENT LIMITER(AML).

8. The over-side rated lifting capacity depends on outrigger extension. Rated lifting capacity of over-front and over-rear assume fully extended outrigger position. Working area for each outrigger position are given separately and must be followed accordingly during operation.

Outriggers position	Extended to middle (4.3 m)	Extended to middle (3.5 m)	Extended to middle (2.5 m)	Extended to minimum (1.64 m)
Angle a °	35	25	15	5



RATED LIFTING CAPACITIES

I S O 4 3 0 5

ON TIRES

Unit : kg

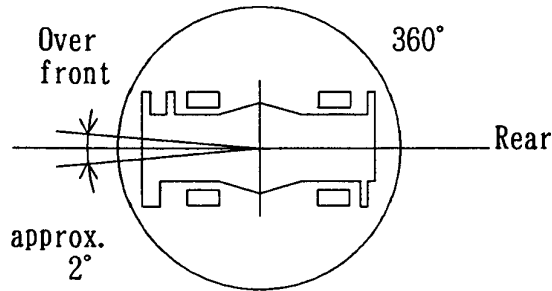
Load radius	Stationary					
	5.3 m Boom		9.0 m Boom		12.7 m Boom	
	Over front	360°	Over front	360°	Over front	360°
1.0 m	3,600	2,800	3,600	2,800		
1.5 m	3,600	2,800	3,600	2,800	3,600	2,800
2.0 m	3,400	2,800	3,400	2,800	3,400	2,800
2.5 m	3,100	2,150	3,100	2,100	3,100	2,050
3.0 m	2,650	1,600	2,600	1,550	2,550	1,500
3.5 m	2,300	1,250	2,200	1,200	2,100	1,100
4.0 m	2,000	900	1,900	800	1,700	700
4.5 m			1,600	500	1,400	400
5.0 m			1,300		1,100	
5.5 m			1,100		950	
6.0 m			900		800	
7.0 m			500		500	

ON TIRES

Unit : kg

Load radius	Creep					
	5.3 m Boom		9.0 m Boom		12.7 m Boom	
	Over front	360°	Over front	360°	Over front	360°
1.0 m	3,200	2,000	3,200	2,000		
1.5 m	3,200	2,000	3,200	2,000	3,200	2,000
2.0 m	3,000	2,000	3,000	2,000	3,000	2,000
2.5 m	2,800	1,550	2,750	1,500	2,650	1,450
3.0 m	2,400	1,100	2,300	1,050	2,200	1,000
3.5 m	2,000	850	1,900	750	1,800	650
4.0 m	1,700	600	1,650	500	1,500	400
4.5 m			1,400	300	1,250	
5.0 m			1,150		1,000	
5.5 m			950		850	
6.0 m			800		700	
7.0 m			450		450	

WORKING AREA



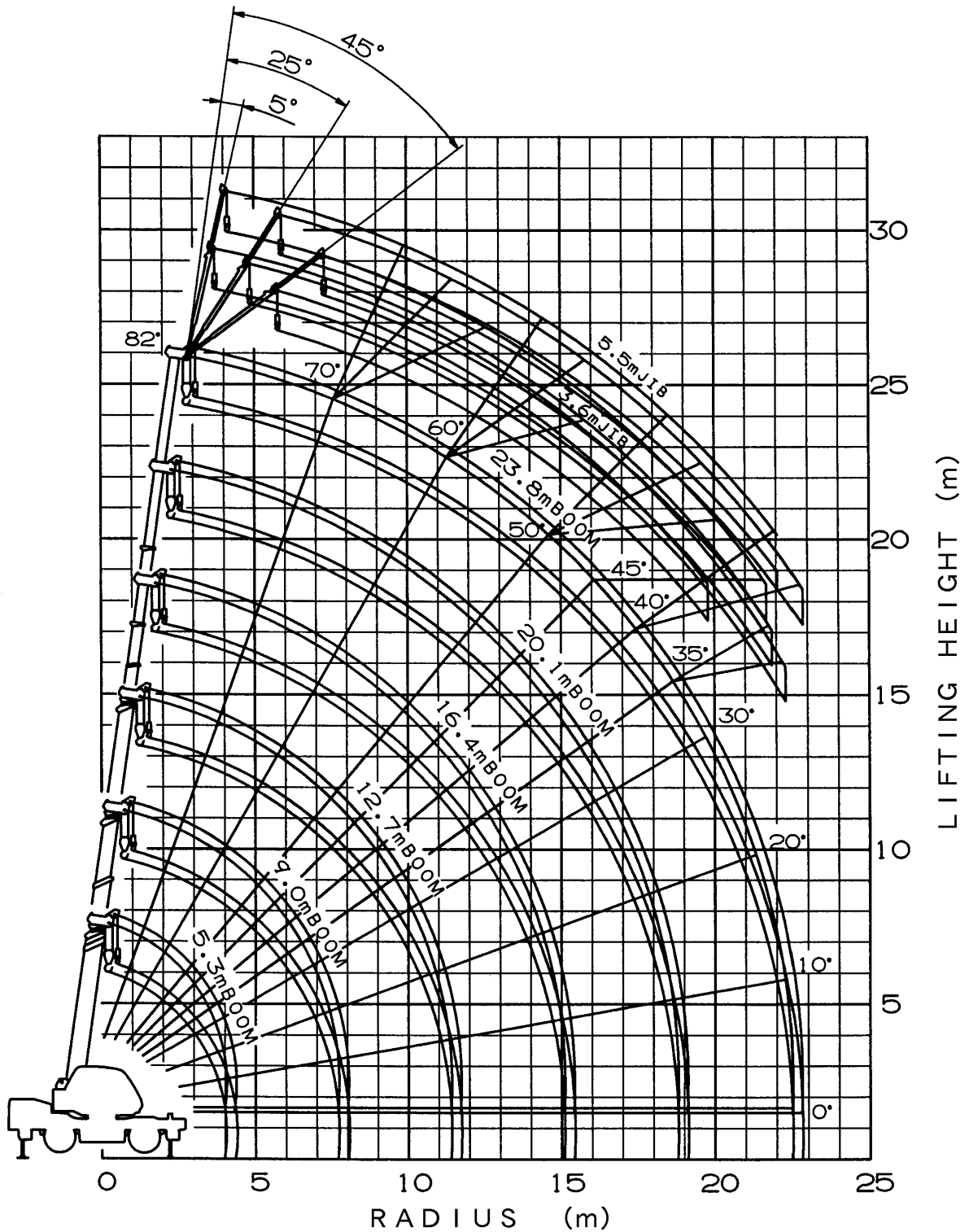
Without outriggers "Over front" operation should be performed within 2 degrees in front of chassis.

NOTES FOR "ON TIRES" TABLES

1. Rated lifting capacities based on crane stability are according to ISO 4305.
2. Rated lifting capacities shown in the table are based on condition that crane is set on firm level surface, with suspension lock applied. Those above bold lines are based on tire capacity and those below, on crane stability. They are based on actual working radii increased by tire deformation and boom deflection.
3. The mass of the hook (90 kg for 12,000 kg capacity, 25 kg for 1,800 kg capacity), slings and all similarly used load handling devices must be added to the weight of the load.
4. For rated lifting capacity of single top, reduce the 90 kg from the relevant boom rated lifting capacity.
Rated lifting capacity of single top should not exceed 1,800 kg.
5. High-speed down hoisting and on tires lifting with "jib" is not permitted. Maximum permissible boom length is 12.7 m.
6. CREEP is motion for crane not to travel more than 60 m in any 30 min. period and to travel at the speed of less than 1.6 km/h.
7. During "CREEP" duties travel slowly and keep the lifting load as close to the ground as possible, and especially avoid any abrupt steering, accelerating or braking.
8. Do not operate the crane while carrying the load.
9. Tires should be inflated to their correct air pressure of 875 kPa {8.75 kgf/cm²} .
10. For CREEP operation, set Drive select switch to "4-WHEEL(Lo)" and set gear shift lever to "1".
11. Standard number of parts of line for each boom length is as shown below.
Load per line should not surpass 1,500 kg for main winch and 1,800 kg for auxiliary winch.

Boom length (m)	5.3	9.0	12.7	Single top
No. of parts of line	4	4	4	1

WORKING RANGE



- NOTE: 1. The above lifting heights and boom angles are based on a straight (unladen) boom, and allowance should be made for boom deflection obtained under laden conditions.
2. The above working range is shown on condition with outriggers fully extended. (360°)

EXTERNAL VIEWS

