

ROUGH TERRAIN CRANE

TR-250M

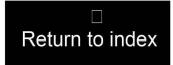
JAPANESE SPECIFICATIONS



OUTLINE	SPEC. NO.
4-section Boom, 2-staged Power Tilt Jib X-type Outrigger	TR-250M-7-00101

Control No. JA-01





TR-250M

CRANE SPECIFICATIONS

CRANE CAPACITY

9.5m	Boom	25,000kg	at 3.5m	(8part-line)
16.5m	Boom	19,000kg	at 4.0m	(6part-line)
23.5m	Boom	12,500kg	at 5.0m	(4part-line)
30.5m	Boom	7,000kg	at 8.0m	(4part-line)
8.0m	Jib	3,000kg	at 72°	(1part-line)
13.0m	Jib	2,000kg	at 76°	(1part-line)
Single t	op	3.500kg		1	1part-line)

MAX.LIFTING HEIGHT

Boom 31.3m 44.2m

MAX.WORKING RADIUS

Boom 28.0m 35 0m .lib

BOOM LENGTH

9.5m - 30.5m

BOOM EXTENSION

21.0m

BOOM EXTENSION SPEED

21.0m/90s

JIB LENGTH

8.0m, 13.0m

MAIN WINCH SINGLE LINE WINDING SPEED

120m/min (4th laver)

MAIN WINCH HOOK SPEED

15.0m/min (8 part-line)

AUXILIARY WINCH SINGLE LINE WINDING SPEED

120m/min (4th layer)

AUXILIARY WINCH HOOK SPEED

120m/min (1 part-line)

BOOM ELEVATION ANGLE

BOOM ELEVATION SPEED

 $0^{\circ} - 83^{\circ}/45s$

SWING ANGLE

360° continue

SWING SPEED

2.6min-1 (rpm)

WIRE ROPE

Main Winch

16mm x 170m (Diameter x Length)

Spin-resistant wire rope

Auxiliary Winch

16mm x 98m (Diameter x Length) Spin-resistant wire rope

BOOM

4-section hydraulically telescoping boom of hexagonal

box construction

(stage 2: sequential; stages 3,4: synchronized)

BOOM EXTENSION

2 double-acting hydraulic cylinders

1 wire rope type telescoping device

JIB

Quick-turn type (2-staged type which stores alongside below the base boom section and extendible from under the boom (with 2nd stage being a pull-out type))

Hydraulic non-stage offset (5° - 45°) type

SINGLE TOP

Single sheave. Mounted on main boom head for single line work.

Driven by hydraulic motor and via spur gear reducer.

With free-fall device

Automatic brake (with foot brake for free-fall device)

2 single winches

With flow regulator valve with pressure compensation

BOOM ELEVATION

1 double-acting hydraulic cylinder

With flow regulator valve with pressure compensation

Hydraulic motor driven planetary gear reducer

Swing bearing

Swing free/lock changeover type

Negative brake

OUTRIGGERS

Fully hydraulic X-type (floats mounted integrally)

Slides and jacks each provided with independent

operation device.

Fully extended width 6.3m

Middle extended width 5.9m, 5.0m, 3.6m

Minimum extended width 3.1m

OPERATION METHOD

Hydraulic pilot valve operation

MAX. VERTICAL LOAD CAPACITY OF OUTRIGGER

26.81

POWER TAKE-OFF

PTO wet multi-plate clutch

HYDRAULIC PUMPS

2 variable piston pumps

2 gear pumps

HYDRAULIC OIL TANK CAPACITY

380 liters

SAFETY DEVICES

Automatic moment limiter (AML)

Swing automatic stop device

Elevation slow down and stop device

Over-winding cutout device

Working area control device

Free-fall interlock device

Outrigger extension width detector

Winch drum lock

Level gauge Hook safety latch

Hydraulic safety valve

Telescopic counterbalance valve

Elevation counterbalance valve

Power tilt counterbalance valve

Jack pilot check valve

Swing lock

EQUIPMENT

Air-conditioner with dehumidifier

Hydraulic oil temperature indication lamp

Radio

Oil cooler

Visual-type winch drum rotation indicator

Operation pedals

ISO arrangement: for telescoping/auxiliary hoisting

TADANO arrangement: for elevating/telescoping

Television (option)



CARRIER SPECIFICATIONS

ENGINE

MITSUBISHI 6M60 - TLE2A Model

(with turbo charger and air cooler)

4-cycle, 6-cylinder, direct-injection, water-cooled

diesel engine

Piston displacement 7,545cc

200kW {272PS} at 2,700min⁻¹{rpm} Max. output Max. torque 785N·m {80.0kgf·m} at 1,400min⁻¹{rpm}

TORQUE CONVERTER

3-element, 1-stage unit (with automatic lock-up mechanism)

TRANSMISSION

Automatic and manual transmission

Power shift type (wet multi-plate clutch)

4 forward and 1 reverse speeds (with Hi/Low settings)

REDUCER

Axle dual-ratio reduction

2-wheel drive (4X2) / 4-wheel drive (4X4) selection

FRONT AXLE

Full floating type

REAR AXLE

Full floating type

SUSPENSION

Front

Hydro-pneumatic suspension (with hydraulic lock cylinder)

Hydro-pneumatic suspension (with hydraulic lock cylinder)

Fully hydraulic power steering With reverse steering correction mechanism

BRAKE SYSTEM

Service Brake

Hydro-pneumatic disk brake

Parking Brake

Mechanically operated, internal expanding duo-servo shoe type acting on drum at transmission case rear.

Auxiliary Brake

Hydrodynamic retarder

Electro-pneumatic operated exhaust brake

Auxiliary braking device for operations

FRAME

Welded box-shaped structure

ELECTRIC SYSTEM

12 V DC. 2 batteries of 24V (120Ah)

FUEL TANK CAPACITY 300 liters

TIRES

Front 385/95R25 170E ROAD

Rear 385/95R25 170E ROAD

CAB

One-man type

With interior equipment Liquid filled rubber mounted type

Fully adjustable foldable seat

(with headrest, armrest and seat belt)

Adjustable handle (tilt, telescoping)
Intermittent type windshield/roof wiper (with washer)

Power window

Side visor

SAFETY DEVICES

Emergency steering device

Suspension lock device Rear wheel steering lock device

Engine over-run alarm

Overshift prevention device

Parking brake alarm

Powered mirror for right side of boom

Monitor TV for left side of boom

EQUIPMENT

Centralized oiling device

Electric mirror

GENERAL DATA

DIMENSIONS

Overall length 11,130mm Overall width 2,620mm Overall height 3,455mm Wheel base 3.500mm Tread Front 2.170mm Rear 2,170mm

WEIGHTS

Gross vehicle weight

Total 26,495kg Front 13,250kg 13,245kg Rear

PERFORMANCE

49km/h Max. traveling speed Gradeability (tan θ) 0.57

Min. turning radius 5.0m (4-wheel steering) 8.4m (2-wheel steering)

Note:

This crane is covered by Class C Conditions under the Basic Running Conditions of the Road Traffic Act.



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TOTAL RATED LOADS

(1) With outriggers set [BOOM]

Uni	t:ton	

Outrig	Outriggers fully extended (6.3m) -360°-								
B A	9.5m	16.5m	23.5m	30.5m					
2.5m	25.0	19.0	12.5						
3.0m	25.0	19.0	12.5						
3.5m	25.0	19.0	12.5	7.0					
4.0m	23.0	19.0	12.5	7.0					
4.5m	21.2	18.0	12.5	7.0					
5.0m	19.4	16.7	12.5	7.0					
5.5m	17.8	15.6	11.85	7.0					
6.0m	16.3	14.6	11.2	7.0					
6.5m	15.1	13.8	10.6	7.0					
7.0m	13.7	13.0	10.1	7.0					
8.0m		10.55	9.1	7.0					
9.0m		8.5	8.2	6.4					
10.0m		7.05	7.4	5.9					
11.0m		5.85	6.4	5.35					
12.0m		4.95	5.5	4.9					
13.0m		4.2	4.75	4.5					
14.0m		3.6	4.1	4.15					
15.0m			3.6	3.85					
16.0m			3.15	3.45					
17.0m			2.8	3.05					
18.0m			2.45	2.7					
19.0m			2.15	2.45					
20.0m			1.9	2.2					
21.0m			1.7	1.95					
22.0m				1.75					
24.0m				1.4					
26.0m				1.15					
28.0m				0.95					
a (°)		0 ^	83						

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Outriggers middle extended (5.9m) -Over sides-									
BA	9.5m	16.5m	23.5m	30.5m					
2.5m	25.0	19.0	12.5						
3.0m	25.0	19.0	12.5						
3.5m	25.0	19.0	12.5	7.0					
4.0m	23.0	19.0	12.5	7.0					
4.5m	21.2	18.0	12.5	7.0					
5.0m	19.4	16.7	12.5	7.0					
5.5m	17.8	15.6	11.85	7.0					
6.0m	16.3	14.6	11.2	7.0					
6.5m	15.1	13.8	10.6	7.0					
7.0m	13.0	12.6	10.1	7.0					
8.0m		9.7	9.1	7.0					
9.0m		7.7	8.2	6.4					
10.0m		6.3	7.0	5.9					
11.0m		5.2	6.0	5.35					
12.0m		4.35	5.1	4.9					
13.0m		3.7	4.35	4.5					
14.0m		3.15	3.8	4.05					
15.0m			3.3	3.6					
16.0m			2.85	3.15					
17.0m			2.5	2.75					
18.0m			2.2	2.45					
19.0m			1.95	2.2					
20.0m			1.7	1.95					
21.0m			1.5	1.75					
22.0m				1.55					
24.0m				1.2					
26.0m				0.95					
27.9m				0.75					
a (°)		0 ~	83						

A= Boom length B= Working radius

a= Boom angle range (for the unladen condition)



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[BOOM]

				Unit:ton
Outrigge	ers middle	extended	(5.0m) -O	ver sides-
BA	9.5m	16.5m	23.5m	30.5m
2.5m	25.0	19.0	12.5	
3.0m	25.0	19.0	12.5	
3.5m	25.0	19.0	12.5	7.0
4.0m	23.0	19.0	12.5	7.0
4.5m	21.2	18.0	12.5	7.0
5.0m	18.4	16.7	12.5	7.0
5.5m	15.4	15.0	11.85	7.0
6.0m	13.0	12.6	11.2	7.0
6.5m	11.2	10.8	10.6	7.0
7.0m	9.5	9.4	10.1	7.0
8.0m		7.3	8.0	7.0
9.0m		5.85	6.5	6.4
10.0m		4.75	5.4	5.6
11.0m		3.9	4.55	4.8
12.0m		3.3	3.85	4.15
13.0m		2.75	3.3	3.55
14.0m		2.3	2.85	3.1
15.0m			2.45	2.7
16.0m			2.1	2.35
17.0m			1.8	2.1
18.0m			1.55	1.8
19.0m			1.35	1.6
20.0m			1.15	1.4
21.0m			0.95	1.2
22.0m				1.05
24.0m				0.75
26.0m				0.5
$\overline{}$				

9.5m 25.0 25.0 20.5	16.5m	(3.6m) -Ov 23.5m	ver sides- 30.5m
25.0 25.0			30.5m
25.0	19.0		
		12.5	
20.5	19.0	12.5	
	19.0	12.5	7.0
16.0	15.7	12.5	7.0
12.8	12.6	12.5	7.0
10.7	10.5	11.0	7.0
9.05	8.8	9.4	7.0
7.7	7.6	8.2	7.0
6.6	6.5	7.25	7.0
5.8	5.6	6.4	6.5
	4.4	5.05	5.3
	3.4	4.05	4.35
	2.7	3.3	3.65
	2.15	2.75	3.05
	1.7	2.3	2.6
	1.3	1.9	2.2
	1.0	1.6	1.85
		1.3	1.55
		1.05	1.3
		0.85	1.05
		0.65	0.9
		0.5	0.7
			0.55
			42~83
	5.8	6.6 6.5 5.8 5.6 4.4 3.4 2.7 2.15 1.7 1.3 1.0	6.6 6.5 7.25 5.8 5.6 6.4 4.4 5.05 3.4 4.05 2.7 3.3 2.15 2.75 1.7 2.3 1.3 1.9 1.0 1.6 1.3 1.05 0.85 0.65

A= Boom length B= Working radius a= Boom angle range (for the unladen condition)

 $0\sim\!83$

a (°)

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20~83

[BOOM]

Ι'n		

			1	Unit:ton
Outrigge	rs minimur	n extended	(3.1m) -O	ver sides-
BA	9.5m	16.5m	23.5m	30.5m
2.5m	18.0	14.2	12.2	
3.0m	18.0	14.2	12.2	
3.5m	14.5	14.2	12.2	7.0
4.0m	11.6	11.25	12.2	7.0
4.5m	9.5	9.15	10.05	7.0
5.0m	7.9	7.65	8.45	7.0
5.5m	6.75	6.45	7.25	7.0
6.0m	5.75	5.5	6.25	6.5
6.5m	5.0	4.75	5.45	5.7
7.0m	4.25	4.1	4.8	5.0
8.0m		3.0	3.8	4.0
9.0m		2.2	3.0	3.2
10.0m		1.6	2.4	2.6
11.0m		1.1	1.9	2.1
12.0m		0.7	1.5	1.7
13.0m			1.1	1.4
14.0m			0.8	1.1
15.0m				0.8
16.0m				0.6
a (°)	0~83	21~83	40~83	54~83

A= Boom length B= Working radius a= Boom angle range (for the unladen condition)

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[JIB]

Unit:ton

			Out	rigger	s fully	exter	ided	(6.3m	1)		-3	60°-
/ c		30.5r	n Boon	1 + 8.0	m Jib			30.5n	1 Boom	+ 13.0	m Jib	
D	į	5°	2	25°	45°		5°		2		4	5°
E (°)	B (m)	M	B (m)	М	B (m)	М	B(m)	М	B (m)	M	B (m)	M
83	4.3	3.0	6.9	2.1	8.9	1.6	5.7	2.0	10.0	1.2	13.0	0.8
76	9.5	3.0	11.8	2.1	13.5	1.6	11.7	2.0	15.5	1.2	18.1	0.8
72	12.3	3.0	14.4	2.1	15.9	1.6	14.6	1.75	18.4	1.1	20.5	0.8
70	13.6	2.8	15.6	2.1	17.0	1.6	16.1	1.65	19.7	1.05	21.8	0.8
65	16.6	2.35	18.5	1.8	19.7	1.5	19.6	1.4	22.8	0.95	24.5	0.78
60	19.6	2.0	21.2	1.55	22.1	1.35	22.8	1.2	25.8	0.9	27.0	0.75
55	22.2	1.45	23.7	1.35	24.4	1.2	25.9	1.05	28.5	0.85	29.4	0.74
50	24.6	1.05	26.0	1.0	26.5	0.95	28.6	0.85	31.0	0.75	31.5	0.7
45	26.9	0.75	28.1	0.7	28.3	0.7	31.1	0.6	33.1	0.55	33.3	0.55
40	29.0	0.55	29.9	0.5			33.3	0.4	35.0	0.4		
35	30.8	0.38	31.6	0.35								
a (°)		34 ~	~ 83		44 -	~ 83		39	~ 83		44 -	~ 83

Unit:ton

			Outri	iggers	middl	le exte	nded	(5.91	n)	-(Over s	ides–
C		30.5r	n Boon	1 + 8.0	m Jib		30.5m Boom + 13.0m Jib					
D	;	5°	2	5°	4	5°	5 °		25°		4	5°
E (°)	B (m)	M	B (m)	М	B (m)	М	B(m)	М	B (m)	M	B (m)	M
83	4.3	3.0	6.9	2.1	8.9	1.6	5.7	2.0	10.0	1.2	13.0	0.8
76	9.5	3.0	11.8	2.1	13.5	1.6	11.7	2.0	15.5	1.2	18.1	0.8
72	12.3	3.0	14.4	2.1	15.9	1.6	14.6	1.75	18.4	1.1	20.5	0.8
70	13.6	2.8	15.6	2.1	17.0	1.6	16.1	1.65	19.7	1.05	21.8	0.8
65	16.6	2.35	18.5	1.8	19.7	1.5	19.6	1.4	22.8	0.95	24.5	0.78
60	19.5	1.85	21.2	1.55	22.1	1.35	22.8	1.2	25.8	0.9	27.0	0.75
55	22.1	1.3	23.7	1.15	24.4	1.1	25.9	1.05	28.5	0.85	29.4	0.74
50	24.5	0.9	25.9	0.85	26.5	0.8	28.6	0.7	30.9	0.6	31.5	0.6
45	26.8	0.6	28.0	0.55	28.3	0.55	31.0	0.5	33.0	0.4	33.3	0.4
40	28.9	0.4	29.9	0.35			33.3	0.3				
a (°)		39 ~	~ 83		44 ~	~ 83	39 ~	~ 83		44 -	~ 83	



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[JIB]

Unit:ton

			Outri	iggers	midd	le exte	nded	(5.01	n)	-(Over s	ides–
C	30.5m Boom + 8.0m Jib							30.5m Boom + 13.0m Jib				
D	ï	5°	2	5°	4	5°	į	5° 25		5°	4	5°
E (°)	B (m)	M	B (m)	М	B (m)	M	B(m)	М	B (m)	М	B (m)	M
83	4.3	3.0	6.9	2.1	8.9	1.6	5.7	2.0	10.0	1.2	13.0	0.8
76	9.5	3.0	11.8	2.1	13.5	1.6	11.7	2.0	15.5	1.2	18.1	0.8
72	12.3	3.0	14.4	2.1	15.9	1.6	14.6	1.75	18.4	1.1	20.5	0.8
70	13.6	2.8	15.6	2.1	17.0	1.6	16.1	1.65	19.7	1.05	21.8	0.8
65	16.5	2.0	18.5	1.7	19.7	1.5	19.6	1.4	22.8	0.95	24.5	0.78
60	19.3	1.3	21.0	1.15	22.1	1.1	22.7	1.0	25.8	0.9	27.0	0.75
55	21.8	0.8	23.5	0.75	24.3	0.75	25.7	0.65	28.4	0.6	29.4	0.5
50	24.3	0.5	25.8	0.45	26.4	0.45	28.3	0.4	30.8	0.35	31.4	0.3
a (°)	49 ~ 83							49 ~	~ 83			

Unit:ton

			Outrig	gers n	ninim	um ex	tende	1 (3.	6m)	-0	Over s	ides-
C	30.5m Boom + 8.0m Jib						30.5m Boom + 13.0m Jib					
D		5° 25° 45°			5° 2		5°	4	45°			
E (°)	B (m)	M	B (m)	M	B (m)	M	B (m)	M	B (m)	M	B (m)	M
83	4.4	3.0	6.9	2.1	8.9	1.6	5.7	2.0	10.0	1.2	13.0	0.8
76	9.5	3.0	11.8	2.1	13.5	1.6	11.7	2.0	15.5	1.2	18.1	0.8
72	12.0	2.2	14.3	1.8	15.9	1.6	14.6	1.75	18.4	1.1	20.5	0.8
70	13.2	1.8	15.4	1.5	16.9	1.35	15.9	1.4	19.7	1.05	21.8	0.8
65	16.1	1.0	18.1	0.9	19.4	0.8	19.1	0.8	22.6	0.65	24.4	0.55
60	18.9	0.5	20.7	0.45	21.8	0.4	22.2	0.4	25.3	0.35	26.8	0.3
a (°)		59 ∼ 83							59 ~	~ 83		

 $[\]begin{array}{lll} B=\mbox{Working radius} & C=\mbox{ Jib length} & D=\mbox{ Jib offset} \\ E=\mbox{Boom angle} & M=\mbox{ Total rated loads} \\ a=\mbox{Boom angle range (for the unladen condition)} \end{array}$



This information is for reference use only. For more details kindly Contact : Aryan Cranes & Heavy Equipment

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PRECAUTIONS TO BE TAKEN WHEN THE OUTRIGGERS ARE EXTENDED:

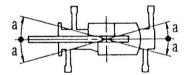
- The total rated loads shown are for the case where the crane is set horizontally on firm level ground. They include
 the weights of the slings and hooks (main hook: 260kg, 12t hook: 170kg, auxiliary hook: 60kg).
 The values above the bold lines are based on the crane strength while those below are based on the crane stability.
- 2. Since the working radii are based on the actual values including the deflection of the boom, operations should be performed in accordance with the working radii.
- Jib operations should be performed in accordance with the boom angle, irrespective of the boom length. The working radii are reference values for the case where the jib is mounted on a 30.5m boom.
- 4. The total rated load for the single top shall be the value obtained by subtracting the weight of the hook mounted on the boom from the total rated load of the boom and must not exceed 3.5t.
- As a rule, free-fall operation should be performed only when lowering the hook alone. If a hoisted load must be lowered by free-fall operation, the load must be kept below 1/5th of the total rated load and sudden braking operations must be avoided.
- 6. The table below shows the standard number of part lines for each boom length. When using with other than this number of part lines, the load per line should not exceed 3.17t for the main winch, and 3.5t for the auxiliary winch.

Α	9.5m	16.5m	23.5m	30.5m	J
Н	8	6	4	4	1

A= Boom length H= No. of part-lines J= Jib/Single top

7. The hoisting performance for the "Over sides" range will differ according to the extended width of the outriggers. Operations should be performed in accordance with the performance corresponding to the extended width. Also, although the hoisting performances for the "Over front" and "Over rear" ranges are equivalent to those of the "outriggers fully extended" condition, the front and rear ranges (angle a) will differ according to the width to which the outriggers are extended in the left and right directions.

Extended width	Middle extended (5.9m)	Middle extended (5.0m)	Middle extended (3.6m)	Minimum extended (3.1m)
Angle a°	35	25	15	5







(2) Without outriggers

Ilnit-ton

											Un	it:ton
	Stationary						Creep (travelling at 1.6km/h or less)					
В	9.5m Boom 16.5n			n Boom 23.5m Boom		9.5m Boom 16.5m Boom			1 Boom	23.5m Boom		
(m)	K	G	K	G	K	G	K	G	K	G	K	G
3.0	14.0	9.0	9.0	7.3	40		10.5	7.0	7.5	5.1		
3.5	14.0	7.6	9.0	7.3	6.5	4.5	10.5	6.2	7.5	5.1	5.5	3.2
4.0	12.5	6.3	9.0	5.85	6.5	4.5	9.5	5.3	7.5	4.9	5.5	3.2
4.5	10.9	5.2	9.0	4.75	6.5	4.5	8.7	4.4	7.5	3.95	5.5	3.2
5.0	9.55	4.3	8.2	4.0	6.5	4.3	8.0	3.6	7.0	3.3	5.5	3.2
5.5	8.3	3.6	7.4	3.3	6.1	3.7	6.9	3.0	6.2	2.7	5.15	3.1
6.0	7.2	3.0	6.6	2.8	5.65	3.2	5.9	2.5	5.5	2.3	4.8	2.7
6.5	6.25	2.5	5.9	2.35	5.25	2.75	5.1	2.1	4.9	1.9	4.45	2.3
7.0	5.2	2.0	5.25	1.95	4.85	2.4	4.3	1.7	4.35	1.6	4.15	2.0
8.0			4.1	1.4	4.1	1.8			3.4	1.1	3.5	1.5
9.0			3.25	0.95	3.5	1.4			2.7	0.7	2.95	1.1
10.0			2.6	0.6	3.0	1.05			2.15		2.45	0.8
11.0			2.1		2.55	0.75			1.7		2.05	0.6
12.0			1.7		2.2				1.35		1.7	
13.0			1.35		1.85				1.1		1.45	
14.0			1.0		1.55				0.8		1.2	
15.0					1.3						1.0	
16.0					1.05						0.85	
17.0					0.85						0.7	
18.0					0.65						0.55	
19.0					0.5							
(0.)		o =-		42 ~	26~	56∼				48~	31~	57 ~
a (°)	ş	0∼77		77	77	77	0~77			77	77	77



B= Working radius $\,$ K= Front $\,$ G= 360° a= Boom angle range (for the unladen condition)

PRECAUTIONS TO BE TAKEN WHEN THE OUTRIGGERS ARE NOT MOUNTED:

1. The total rated loads shown are for the case where the tire air pressure on firm level ground is as specified (900kPa {9.00kgf/cm²}) and the suspension-lock cylinder is retracted as much as possible. They include the weights of the slings and hooks (main hook: 260kg, 12t hook: 170kg, auxiliary hook: 60kg).
The values above the bold lines are based on the crane strength while those below are based on the crane stability.

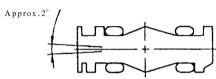
The foundation, working conditions, etc. should be taken into consideration for actual work.

- 2. Since the working radii are based on the actual values including the deflection of the boom and the tires, operations should be performed in accordance with the working radii.
- 3. The table below shows the standard number of part lines for each boom length. When using with other than this number of part lines, the load per line should not exceed 3.17t for the main winch, and 3.5t for the auxiliary winch.

Α	9.5m	16.5m	23.5m	Single top
H	6	4	4	1

A= Boom length H= No. of part-lines

- 4. "Over front" crane operations should be performed only when the AML "over-front area indicator lamp" is lit. The boom must be kept inside a 2° area over front of the carrier when performing "Over front" crane operations without the outriggers.
- 5. The total rated load for the single top shall be the value obtained by subtracting the weight of the hook mounted on



the boom from the total rated load of the boom and must not exceed 3.5t.

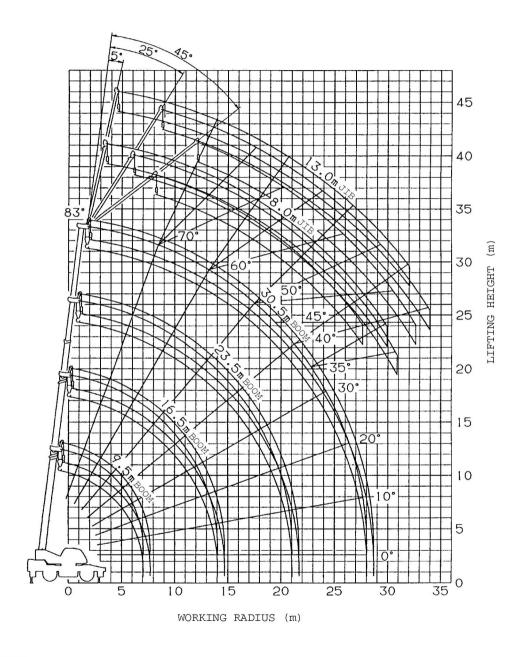
- Free-fall operations should not be performed without outriggers.Booms over 23.5m in length and jibs should not be used without outriggers.
- 7. The "Drive Mode Selection" switch should be set to "4-wheel / Lo" for creeping while hoisting a load and the shift
- lever should be set to first.

 8. When creeping while hoisting a load, the swing brake should be applied, the load should be kept as close to the ground as possible but not touching the ground and the speed should be kept at 1.6km/h or less. In particular, any abrupt steering, starting or braking must be avoided.
- 9. Crane operations should not be performed when creeping while hoisting a load.





WORKING RADIUS - LIFTING HEIGHT



NOTES:

- 1. The deflection of the boom is not incorporated in the figure above.
- 2. The figure above is for the case where the outriggers are fully extended (360°).



DIMENSIONS (1/100)

