

# TRUCK CRANE



**TG-3600M**

*JAPANESE SPECIFICATIONS*

**TG**

CARRIER MODEL	SPEC. NO.
NISSAN DIESEL KC-KL630YN	TG-3600M-2

The "fully automatic luffing jib" and the "luffing jib" are optional equipment.  
Refer to the specifications in the following pages regarding the details of these optional jibs.

Control No. TG-3600M-2/MB-90

# TG-3600M

## CRANE SPECIFICATIONS

### CRANE CAPACITY

<b>Boom</b>			
14.2m	Boom	360,000kg	at 3.0m (17part-line x2)
17.3m, 20.3m, 22.6m, 23.4m	Boom	180,000kg	at 6.0m (17part-line)
31.0m	Boom	130,000kg	at 7.0m (12part-line)
32.6m	Boom	130,000kg	at 6.0m (12part-line)
39.4m	Boom	100,000kg	at 8.0m (9part-line)
41.8m	Boom	100,000kg	at 7.0m (9part-line)
47.8m	Boom	70,000kg	at 9.0m (6part-line)
51.0m	Boom	70,000kg	at 7.0m (6part-line)
Single top		12,500kg	(1part-line)
[Reference]			
<b>Fully automatic luffing jib</b>			
11.1m	Jib	54,000kg	at 10.0m (5part-line)
19.1m	Jib	29,000kg	at 8.0m (3part-line)
27.1m	Jib	10,000kg	at 22.0m (1part-line)
35.1m	Jib	9,500kg	at 16.0m (1part-line)
<b>Luffing jib</b>			
17m	Jib	100,000kg	at 10.0m (9part-line)
23m	Jib	80,000kg	at 12.0m (8part-line)
35m	Jib	51,600kg	at 16.0m (6part-line)
47m	Jib	31,000kg	at 18.0m (4part-line)
*65m	Jib	8,000kg	at 35.0m (1part-line)
*70m	Jib	5,000kg	at 55.0m (1part-line)
For the mark *, luffing jib (47m) + extension jib			

### MAX.LIFTING HEIGHT

Boom	51.0m (70.0t)
[Reference]	Fully automatic luffing jib 88.0m (8.0t)
[Reference]	Luffing jib
	98.0m (9.5t)
	119.0m (3.5t) (luffing jib + extension jib)

### MAX.WORKING RADIUS

Boom	46.0m (12.1t)
[Reference]	Fully automatic luffing jib 70.0m (1.5t)
[Reference]	Luffing jib
	70.0m (3.9t)
	90.0m (3.2t) (luffing jib + extension jib)

### BOOM LENGTH

14.2m – 51.0m

### MAIN WINCH SINGLE LINE SPEED

145m/min (5th layer)

### AUXILIARY WINCH SINGLE LINE SPEED

145m/min (5th layer)

### BOOM ELEVATION ANGLE

-1° – 83°

### BOOM ELEVATION SPEED

-1° – 83°/140s

### SWING ANGLE

360° continue

### SWING SPEED

1.1rpm

### WIRE ROPE

<b>Main Winch</b>	
25mm x 450m (Diameter x Length)	Non spin type
<b>Auxiliary Winch</b>	
25mm x 450m (Diameter x Length)	Non spin type

### HOOK

180t	hook	(17part-line)
80t	hook	(6part-line)
25t	hook	(2part-line) · · · option
12.5t	hook	(1part-line)

### BOOM

5-section hydraulically sequentially telescoping boom of box construction  
Every step lock or no lock  
(spring type and air cylinder type)

### BOOM EXTENSION

4 double-acting hydraulic cylinders

### SINGLE TOP

Single sheave. Mounted to main boom head by pin.

### HOIST

Driven by hydraulic variable motor and via planetary gear reducer.

### Automatic brake

High/low speed changeover and creep operation device provided.

2 single winches

### BOOM ELEVATION

2 double-acting hydraulic cylinders

### SWING

Hydraulic motor driven planetary gear reducer

Roller type swing bearing

Disk type negative brake

High/low speed changeover and creep operation device provided.

Swing free/lock changeover type

Pneumatically operated swing lock

### OUTRIGGERS

Fully hydraulic H-type 3 steps

Slides and jacks each provided with independent operation device.

Fully extended width 8.8m

Middle extended width 7.0m, 5.9m

Extended width detector provided.

### FRONT JACK

1 hydraulic type (with grounding detector)

### REAR JACK

2 hydraulic types (with grounding detector)

### ENGINE FOR CRANE

Engine exclusive to upper component operation

Model NISSAN DIESEL RF804

Type 4-cycle, V8-cylinder, direct-injection, water-cooled diesel engine

Piston displacement 16,991cc

Max. output 270PS at 1,700rpm

Max. torque 107kg·m at 1,400rpm

### HYDRAULIC PUMPS

2 variable piston pumps and 2 variable gear pumps

### HYDRAULIC OIL TANK CAPACITY

Upper 2,630 liters

Lower 200 liters

### SAFETY DEVICES

Automatic moment limiter (AML)

With working range limiting function

Outrigger extension automatic detector

Front jack grounding automatic detector

Rear jack grounding automatic detector

Weight combination automatic detector

Over-winding cutout device

Dead winding holding device

Cable follower

Hook safety latch

Winch drum lock

Winch drum rotation indicator

Hydraulic safety valve

Hydraulic lock (elevation, telescoping, hoist, jack, jib tilt, dismount)

Swing lock

Boom angle indicator

Level gauge

Front jack overload alarm

### EQUIPMENT

Air conditioner (crane cab)

Radio

Fan

Oil cooler

Boom dismount device

Swing frame dismount device

Counterweight dismount device

Iron plate

Automatic engine air removing device

## CARRIER SPECIFICATIONS

### MANUFACTURER

NISSAN DIESEL MOTOR CO., LTD.

### CARRIER MODEL

KC-KL630YN

### ENGINE

Model RH10

Type 4-cycle, V10-cylinder, direct-injection,  
water-cooled diesel engine

Piston displacement 26,507cc

Max. output 450PS at 2,200rpm

Max. torque 160kg·m at 1,400rpm

### CLUTCH

Dry multi-plate diaphragm type

### TRANSMISSION

5-forward and 1-reverse speeds (with 2-step sub reducer)  
Constant-mesh gear

### REDUCER

Spiral bevel gear type (2nd axle) and hypoid gear type  
(4th and 5th axles)

Planetary gear 2-stage speed reduction type

### FRONT AXLE

1st axle: Reverse-elliot type

2nd axle: Full-floating type, reverse-elliot type

### REAR AXLE

3rd, 6th axles: Reverse-elliot type

4th, 5th axles: Full-floating type

### SUSPENSION

1st, 2nd axles: Semi-elliptic leaf spring type,  
vehicle shaft type

3rd, 6th axles: Hydraulic type

4th, 5th axles: Equalizer beam type

### STEERING

Recirculating ball screw type

With linkage power assistance

1st, 2nd, 3rd, 6th axle steering

### BRAKE SYSTEM

Service Brake

Foot operated full air brake on 10 wheels, dual air  
line system, internal expanding leading and trailing  
shoe type.

Parking Brake

Full air brake type spring brake, acting on wheels

Auxiliary Brake

Electro-pneumatic operated exhaust brake

Emergency Brake

Works by applying the parking brake

### ELECTRIC SYSTEM

24 V DC. 2 batteries of 115F51 (96Ah)

### FUEL TANK CAPACITY

300 liters

### CAB

Two-man type

### TIRES

Front 14.00-24-24PR

Rear 14.00-24-24PR

### STANDARD EQUIPMENT

Car heater

Car radio

Car cooler

## GENERAL DATA

### DIMENSIONS (CARRIER ONLY)

Overall length 13,510mm

Overall width 3,400mm

Overall height 2,790mm

Wheel base

1,500mm + 2,800mm + 1,950mm + 1,500mm +

1,500mm = 9,250mm

Tread 2,830mm (1st, 2nd, 3rd, 6th axles)

2,540mm (4th, 5th axles)

### WEIGHTS (CARRIER ONLY)

Gross vehicle weight

Total 44,950kg

### PERFORMANCE (CARRIER ONLY)

Max. traveling speed 60km/h

Gradeability (tan  $\theta$ ) 0.31

Min. turning radius 11.8m

### TOTAL RATED LOADS

1. The total rated loads shown are for the case where the outriggers are set horizontally on firm level ground. The values above the bold lines are based on the crane strength while those below are based on the crane stability.
2. The weights of the slings and hooks are included in the total rated loads shown.
3. The total rated load is based on the actual working radius including the deflection of the boom and jib.
4. The chart below shows the standard hook and number of part lines under each working condition.

A	14.2		17.3	20.3	22.6	31.0	39.4	47.8
			17.3	20.3	23.4	32.6	41.8	51.0
M	360	180	180		130	100	70	
H	17 x 2	17	17		12	9	6	
N	180 x 2	180	180		180	180	80	
O	8 x 2	8	8		8	8	3	
L	2,400 x 2	2,400	2,400		2,400	2,400	1,360	
Remarks	360 sling support, hook support for the top boom (4,150kg)	Attachment sheave for the top boom	Attachment sheave for the top boom					

A= Boom length (m) M= Max. total rated loads (t) H= No. of part-lines  
 N= Hook lifting capacity (t) O= No. of sheaves L= Hook weight (kg)

5. Boom length and boom fixing pin  
 The boom telescoping order, stroke of each boom, boom length, boom fixing pin condition when the boom and jib are used are as follows.
  - 1) Boom telescoping order and stroke of each boom
    - Extend the boom from the base boom side, and then extend the next boom when the boom is extended by the strokes shown in the following table.
    - Retract the boom from the top boom side, and then retract the next boom when the boom is retracted by the strokes shown in the following table.

Crane service condition	Boom stroke
Boom	9.2m
	8.4m
Fully automatic luffing jib	9.2m
Luffing jib	8.4m

2) Boom length and boom fixing pin status

Boom length (m)				Pin condition when the boom fixing pin is used	Pin inserted
Boom		Fully automatic luffing jib	Luffing jib		Pin removed
100%	91%				Both pin insertion and removal are available.
14.2	14.2	14.2	14.2		
17.3	17.3	---	---		(Boom performance S, A, B, C, D, E only)
20.3	20.3	---	---		(Boom performance S, A, B, C, D, E only)
23.4	22.6	23.4	22.6		
32.6	31.0	32.6	31.0		
41.8	39.4	41.8	39.4		
51.0	47.8	51.0	47.8		

- When the boom is operated, when the boom is extended to the middle, and when at least one boom fixing pin condition marked with ● in the above chart is ○, the performance for the case where the boom fixing pin is not used shall apply.
- When operating the jib (fully automatic luffing jib, luffing jib), the boom length and the boom fixing pin condition must be in accordance with the above chart.

6. As shown in the following table, the performance depends on the outrigger installation condition, counterweight combination, and whether or not the boom fixing pin is used.

1) Performance classification

Counterweight Outrigger extension width	100t	85t	65t	45t	20t	0t	65t on the carrier
	8.8m	S	A	B (D)	C (D)	D (E)	E (F)
7.0m	※	※	C (D)	D (D)	E (E)	F (F)	E (E)
5.9m	※	※	※	D (D)	E (E)	F (F)	E (E)
Setting outrigger jacks without extending beams	※	※	※	※	※	G (H)	※

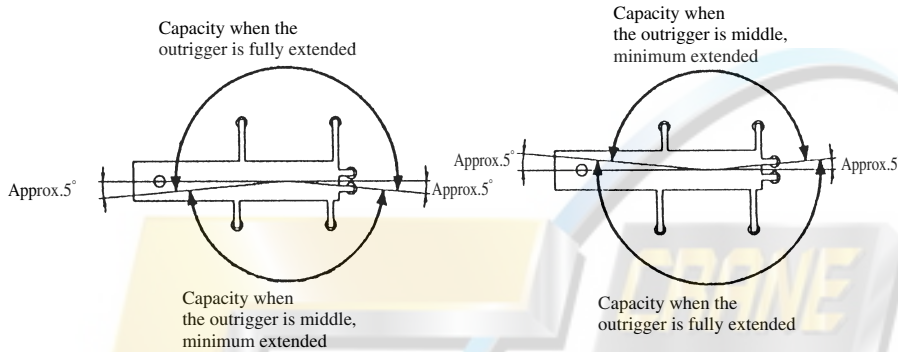
- If at least either of the front and rear jacks is not used, the performance classification in parentheses shall apply. However, when a 100-ton or 85-ton counterweight is mounted, both of the front and rear jacks should be used.
- Performance F is for the work preparation. The boom length is 14.2m to 23.4m.
- Performance G and H are for crane mounting/demounting operations. The boom length is only 14.2m.
- Mark ※ shows the prohibition in order to prevent the crane from falling down on its rear side.

2) Working area

In the following cases, the total rated load varies according to the swing position. Be careful about the AML moment indication (%) because an overload may be applied in some swing directions.

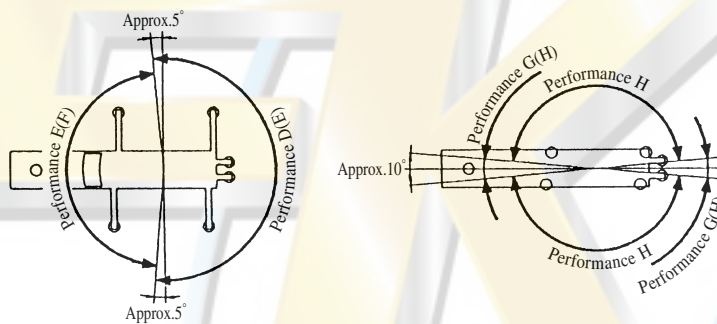
Front and rear jacks used  
 Left side middle, minimum extended  
 Right side fully extended

Front and rear jacks used  
 Right side middle, minimum extended  
 Left side fully extended



65t counterweight is placed on the carrier.

Setting outrigger jacks without extending beams



3) When the boom length and the boom fixing pin condition are other than those stated in the chart "Boom length and the boom fixing pin condition" in item 5.2), the maximum total rated load for each boom length is limited as shown in the following table. The total rated loads below the limit value are the same when the boom fixing pin is used. However, when removing the boom fixing pin, the total rated loads for every boom length should be 25 tons or less.

Boom length	Less than 23.4m	Over 23.4m less than 32.6m	Over 32.6m less than 51.0m
Max. total rated load (t)	52.0	50.0	30.0

7. The total rated load for the single top is the same as that of the main boom and must not exceed 12.5 tons. However, when hooks, slings, etc. are mounted on the main boom, work at the total rated load obtained by subtracting the weights of the hooks, slings, etc. mounted on the main boom from the total rated load of the main boom.
8. Do not swing the upper swing frame on tires.  
(Keep the swing frame locked until the outrigger is installed.)
9. Mark  $\theta$  in the total rated load chart shows the boom angle range (under no load).



**TOTAL RATED LOADS**

[BOOM]  
(Stroke: 8.4m)

Unit: ton

Performance S							
A \ B	14.2m	17.3m	20.3m	22.6m	31.0m	39.4m	47.8m
3.0m	360.0	180.0	180.0	180.0			
3.5m	305.0	180.0	180.0	180.0			
4.0m	274.0	180.0	180.0	180.0			
4.5m	251.0	180.0	180.0	180.0			
5.0m	231.0	180.0	180.0	180.0	130.0		
6.0m	198.0	180.0	180.0	180.0	130.0	100.0	
7.0m	172.0	169.0	169.0	169.0	130.0	100.0	70.0
8.0m	152.0	149.0	149.0	149.0	127.0	100.0	70.0
9.0m	135.0	132.0	132.0	132.0	116.0	97.8	70.0
10.0m	121.0	118.0	118.0	118.0	107.0	90.1	69.4
11.0m		106.0	106.0	106.0	99.3	83.5	65.2
12.0m		96.1	96.1	96.1	92.2	77.6	61.4
14.0m		79.9	79.9	79.9	80.5	67.9	54.8
16.0m			67.4	67.4	68.4	60.0	48.7
18.0m				56.6	57.6	53.5	43.2
20.0m					48.5	47.9	38.6
22.0m					41.4	43.0	34.9
24.0m					35.6	38.8	32.0
26.0m					30.8	35.0	29.5
28.0m						31.2	27.4
30.0m						28.0	25.5
32.0m						24.7	23.8
34.0m						21.9	22.2
36.0m							20.8
38.0m							19.4
40.0m							17.5
42.0m							15.8
44.0m							14.2
$\theta$ (°)	0~83	0~83	0~83	0~83	0~83	0~83	13~83

A= Boom length B= Working radius  
 $\theta$  = Boom angle range (for the unladen condition)

[BOOM]  
(Stroke: 8.4m)

Unit: ton

Performance A							
A \ B	14.2m	17.3m	20.3m	22.6m	31.0m	39.4m	47.8m
3.0m	360.0	180.0	180.0	180.0			
3.5m	300.0	180.0	180.0	180.0			
4.0m	260.0	180.0	180.0	180.0			
4.5m	240.0	180.0	180.0	180.0			
5.0m	225.0	180.0	180.0	180.0	130.0		
6.0m	190.0	180.0	180.0	180.0	130.0	100.0	
7.0m	163.0	163.0	163.0	163.0	130.0	100.0	70.0
8.0m	143.0	142.0	142.0	142.0	127.0	100.0	70.0
9.0m	125.0	126.0	126.0	126.0	116.0	97.8	70.0
10.0m	110.0	112.0	112.0	112.0	107.0	90.1	69.4
11.0m		101.0	101.0	101.0	99.3	83.5	65.2
12.0m		91.4	91.4	91.4	92.2	77.6	61.4
14.0m		75.7	75.7	75.7	76.8	67.9	54.8
16.0m			61.4	61.4	62.5	60.0	48.7
18.0m				50.6	51.6	53.5	43.2
20.0m					43.2	46.0	38.6
22.0m					36.6	40.0	34.9
24.0m					31.3	34.5	32.0
26.0m					26.9	29.5	29.5
28.0m						26.0	27.4
30.0m						22.9	24.5
32.0m						20.2	22.0
34.0m						17.8	19.8
36.0m							17.5
38.0m							15.7
40.0m							14.0
42.0m							12.5
44.0m							11.0
$\theta$ (°)	0~83	0~83	0~83	0~83	0~83	0~83	13~83

A= Boom length B= Working radius  
 $\theta$  = Boom angle range (for the unladen condition)



[BOOM]  
(Stroke: 8.4m)

Unit: ton

Performance B							
A \ B	14.2m	17.3m	20.3m	22.6m	31.0m	39.4m	47.8m
3.0m	360.0	180.0	180.0	180.0			
3.5m	300.0	180.0	180.0	180.0			
4.0m	260.0	180.0	180.0	180.0			
4.5m	240.0	180.0	180.0	180.0			
5.0m	225.0	180.0	180.0	180.0	130.0		
6.0m	190.0	176.0	176.0	176.0	130.0	100.0	
7.0m	159.0	152.0	152.0	152.0	130.0	100.0	70.0
8.0m	136.0	132.0	132.0	132.0	127.0	100.0	70.0
9.0m	118.0	116.0	116.0	116.0	116.0	97.8	70.0
10.0m	104.0	103.0	103.0	103.0	104.0	90.1	69.4
11.0m		92.8	92.8	92.8	93.9	83.5	65.2
12.0m		81.1	81.1	81.1	82.4	77.6	61.4
14.0m		62.9	62.9	62.9	64.0	66.5	54.8
16.0m			50.2	50.2	51.2	57.0	48.7
18.0m				40.8	41.8	47.0	43.2
20.0m					34.6	38.9	38.6
22.0m					28.9	32.2	33.8
24.0m					24.3	27.0	29.4
26.0m					20.4	23.0	25.2
28.0m						19.5	21.7
30.0m						16.7	18.9
32.0m						14.2	16.6
34.0m						12.0	14.5
36.0m							12.6
38.0m							10.7
40.0m							9.1
42.0m							7.7
44.0m							6.4
$\theta$ (°)	0~83	0~83	0~83	0~83	0~83	0~83	13~83

A= Boom length B= Working radius  
 $\theta$  = Boom angle range (for the unladen condition)

[BOOM]  
(Stroke: 8.4m)

Unit: ton

Performance C							
A \ B	14.2m	17.3m	20.3m	22.6m	31.0m	39.4m	47.8m
3.0m	320.0	180.0	180.0	180.0			
3.5m	265.0	180.0	180.0	180.0			
4.0m	235.0	180.0	180.0	180.0			
4.5m	215.0	180.0	180.0	180.0			
5.0m	200.0	180.0	180.0	180.0	130.0		
6.0m	170.0	164.0	164.0	164.0	130.0	100.0	
7.0m	143.0	140.0	140.0	140.0	130.0	100.0	70.0
8.0m	122.0	122.0	122.0	122.0	123.0	100.0	70.0
9.0m	106.0	107.0	107.0	107.0	108.0	97.8	70.0
10.0m	94.0	90.6	90.6	90.6	92.0	90.1	69.4
11.0m		77.0	77.0	77.0	78.3	81.0	65.2
12.0m		66.3	66.3	66.3	67.6	70.2	61.4
14.0m		50.7	50.7	50.7	51.8	54.3	54.8
16.0m			39.8	39.8	40.9	43.2	46.0
18.0m				31.1	32.2	34.6	37.5
20.0m					25.6	27.9	30.7
22.0m					20.5	22.7	25.4
24.0m					16.4	18.5	21.2
26.0m					13.2	15.2	17.7
28.0m						12.4	14.9
30.0m						10.1	12.5
32.0m						7.9	10.4
34.0m						5.9	8.7
36.0m							7.0
38.0m							5.4
40.0m							4.0
42.0m							2.8
$\theta$ (°)	0~83	0~83	0~83	0~83	0~83	0~83	16~83

A= Boom length B= Working radius  
 $\theta$  = Boom angle range (for the unladen condition)

[BOOM]  
(Stroke: 8.4m)

Unit: ton

Performance D							
A \ B	14.2m	17.3m	20.3m	22.6m	31.0m	39.4m	47.8m
3.0m	250.0	180.0	180.0	180.0			
3.5m	221.0	180.0	180.0	180.0			
4.0m	198.0	180.0	180.0	180.0			
4.5m	178.0	175.0	175.0	175.0			
5.0m	162.0	159.0	159.0	159.0	130.0		
6.0m	135.0	132.0	132.0	132.0	130.0	100.0	
7.0m	115.0	112.0	112.0	112.0	122.0	100.0	70.0
8.0m	97.2	92.8	92.8	92.8	94.5	97.7	70.0
9.0m	78.1	74.0	74.0	74.0	75.5	78.5	70.0
10.0m	64.5	60.5	60.5	60.5	61.9	64.7	68.1
11.0m		50.3	50.3	50.3	51.7	54.3	57.6
12.0m		42.4	42.4	42.4	43.7	46.3	49.4
14.0m		31.0	31.0	31.0	32.1	34.5	37.5
16.0m			22.9	22.9	24.1	26.4	29.2
18.0m				16.6	17.7	20.1	23.1
20.0m					12.9	15.2	18.0
22.0m					9.2	11.4	14.2
24.0m					6.3	8.4	11.1
26.0m					3.5	6.0	8.6
28.0m						3.7	6.5
30.0m							4.7
$\theta$ (°)	0~83	0~83	0~83	0~83	21~83	40~83	49~83

A= Boom length B= Working radius  
 $\theta$  = Boom angle range (for the unladen condition)

[BOOM]  
(Stroke: 8.4m)

Unit: ton

Performance E							
B \ A	14.2m	17.3m	20.3m	22.6m	31.0m	39.4m	47.8m
3.0m	200.0	180.0	180.0	180.0			
3.5m	180.0	180.0	180.0	180.0			
4.0m	165.0	173.0	173.0	173.0			
4.5m	150.0	154.0	154.0	154.0			
5.0m	140.0	139.0	139.0	139.0	130.0		
6.0m	120.0	110.0	110.0	110.0	113.0	100.0	
7.0m	80.0	78.3	78.3	78.3	80.1	83.7	70.0
8.0m	62.0	58.5	58.5	58.5	60.2	63.4	67.4
9.0m	48.0	45.3	45.3	45.3	46.9	49.9	53.5
10.0m	40.0	35.9	35.9	35.9	37.3	40.2	43.6
11.0m		28.8	28.8	28.8	30.2	32.8	36.1
12.0m		23.3	23.3	23.3	24.6	27.2	30.3
14.0m		15.3	15.3	15.3	16.5	18.9	21.8
16.0m			9.6	9.6	10.8	13.2	15.9
18.0m				5.2	6.3	8.8	11.6
20.0m							8.2
$\theta$ (°)	0~83	0~83	0~83	13~83	50~83	60~83	63~83

Unit: ton

Performance F		
B \ A	14.2m	22.6m
3.0m	160.0	145.0
3.5m	145.0	145.0
4.0m	130.0	130.0
4.5m	115.0	115.0
5.0m	104.0	100.0
6.0m	64.0	66.0
7.0m	44.0	44.0
8.0m	31.0	31.0
9.0m	24.0	21.0
10.0m	18.0	14.0
11.0m		9.0
$\theta$ (°)	23~83	54~83

A= Boom length    B= Working radius  
 $\theta$  = Boom angle range (for the unladen condition)

[BOOM]  
(Stroke: 9.2m)

Unit: ton

Performance S							
A \ B	14.2m	17.3m	20.3m	23.4m	32.6m	41.8m	51.0m
3.0m	360.0	180.0	180.0	180.0			
3.5m	305.0	180.0	180.0	180.0			
4.0m	274.0	180.0	180.0	180.0			
4.5m	251.0	180.0	180.0	180.0			
5.0m	231.0	180.0	180.0	180.0	130.0		
6.0m	198.0	180.0	180.0	180.0	130.0	100.0	
7.0m	172.0	169.0	169.0	169.0	128.0	100.0	70.0
8.0m	152.0	148.0	148.0	148.0	116.0	94.2	68.8
9.0m	135.0	131.0	131.0	131.0	106.0	86.2	65.0
10.0m	121.0	117.0	117.0	117.0	97.9	79.4	60.6
11.0m		106.0	106.0	106.0	90.4	73.5	56.8
12.0m		95.9	95.9	95.9	83.8	68.3	53.3
14.0m		79.6	79.6	79.6	73.0	59.2	47.5
16.0m			67.1	67.1	64.3	51.9	42.7
18.0m				56.3	57.2	46.0	38.4
20.0m				47.4	48.3	41.0	34.6
22.0m					41.2	36.9	31.4
24.0m					35.4	33.3	28.6
26.0m					30.6	30.3	26.1
28.0m					26.7	27.6	23.9
30.0m						25.2	21.9
32.0m						23.2	20.2
34.0m						21.4	18.7
36.0m						19.3	17.3
38.0m						17.2	16.1
40.0m							15.0
42.0m							14.0
44.0m							13.1
46.0m							12.1
$\theta$ (°)	0~83	0~83	0~83	0~83	0~83	0~83	17~83

A= Boom length B= Working radius  
 $\theta$  = Boom angle range (for the unladen condition)

[BOOM]  
(Stroke: 9.2m)

Unit: ton

Performance A							
A \ B	14.2m	17.3m	20.3m	23.4m	32.6m	41.8m	51.0m
3.0m	360.0	180.0	180.0	180.0			
3.5m	300.0	180.0	180.0	180.0			
4.0m	260.0	180.0	180.0	180.0			
4.5m	240.0	180.0	180.0	180.0			
5.0m	225.0	180.0	180.0	180.0	130.0		
6.0m	190.0	180.0	180.0	180.0	130.0	100.0	
7.0m	163.0	162.0	162.0	162.0	128.0	100.0	70.0
8.0m	143.0	142.0	142.0	142.0	116.0	94.2	68.8
9.0m	125.0	126.0	126.0	126.0	106.0	86.2	65.0
10.0m	110.0	112.0	112.0	112.0	97.9	79.4	60.6
11.0m		101.0	101.0	101.0	90.4	73.5	56.8
12.0m		91.2	91.2	91.2	83.8	68.3	53.3
14.0m		75.4	75.4	75.4	73.0	59.2	47.5
16.0m			61.1	61.1	62.3	51.9	42.7
18.0m				50.3	51.4	46.0	38.4
20.0m				42.1	43.0	41.0	34.6
22.0m					36.4	36.9	31.4
24.0m					31.1	33.3	28.6
26.0m					26.7	30.3	26.1
28.0m					23.1	26.0	23.9
30.0m						22.9	21.9
32.0m						20.2	20.2
34.0m						18.0	18.7
36.0m						15.8	16.6
38.0m						13.9	14.8
40.0m							13.2
42.0m							11.8
44.0m							10.6
46.0m							9.6
$\theta$ (°)	0~83	0~83	0~83	0~83	0~83	0~83	17~83

A= Boom length B= Working radius

$\theta$  = Boom angle range (for the unladen condition)



[BOOM]  
(Stroke: 9.2m)

Unit: ton

Performance B							
A \ B	14.2m	17.3m	20.3m	23.4m	32.6m	41.8m	51.0m
3.0m	360.0	180.0	180.0	180.0			
3.5m	300.0	180.0	180.0	180.0			
4.0m	260.0	180.0	180.0	180.0			
4.5m	240.0	180.0	180.0	180.0			
5.0m	225.0	180.0	180.0	180.0	130.0		
6.0m	190.0	176.0	176.0	176.0	130.0	100.0	
7.0m	159.0	151.0	151.0	151.0	128.0	100.0	70.0
8.0m	136.0	132.0	132.0	132.0	116.0	94.2	68.8
9.0m	118.0	116.0	116.0	116.0	106.0	86.2	65.0
10.0m	104.0	103.0	103.0	103.0	97.9	79.4	60.6
11.0m		92.5	92.5	92.5	90.4	73.5	56.8
12.0m		80.9	80.9	80.9	82.2	68.3	53.3
14.0m		62.6	62.6	62.6	63.8	59.2	47.5
16.0m			49.9	49.9	51.0	51.9	42.7
18.0m				40.6	41.6	45.0	38.4
20.0m					33.5	34.4	34.6
22.0m						28.7	31.6
24.0m						24.1	28.6
26.0m						20.2	25.2
28.0m						16.9	21.9
30.0m							16.6
32.0m							14.2
34.0m							12.1
36.0m							10.2
38.0m							8.5
40.0m							
42.0m							9.3
44.0m							7.8
46.0m							6.5
$\theta$ (°)	0~83	0~83	0~83	0~83	0~83	0~83	17~83

A= Boom length B= Working radius  
 $\theta$  = Boom angle range (for the unladen condition)

[BOOM]  
(Stroke: 9.2m)

Unit: ton

Performance C							
A \ B	14.2m	17.3m	20.3m	23.4m	32.6m	41.8m	51.0m
3.0m	320.0	180.0	180.0	180.0			
3.5m	265.0	180.0	180.0	180.0			
4.0m	235.0	180.0	180.0	180.0			
4.5m	215.0	180.0	180.0	180.0			
5.0m	200.0	180.0	180.0	180.0	130.0		
6.0m	170.0	164.0	164.0	164.0	130.0	100.0	
7.0m	143.0	140.0	140.0	140.0	128.0	100.0	70.0
8.0m	122.0	122.0	122.0	122.0	116.0	94.2	68.8
9.0m	106.0	107.0	107.0	107.0	106.0	86.2	65.0
10.0m	94.0	90.3	90.3	90.3	91.8	79.4	60.6
11.0m		76.7	76.7	76.7	78.1	73.5	56.8
12.0m		66.0	66.0	66.0	67.3	68.3	53.3
14.0m		50.4	50.4	50.4	51.6	54.2	47.5
16.0m			39.5	39.5	40.7	43.1	42.7
18.0m				30.8	32.0	34.5	37.5
20.0m				24.4	25.4	27.8	30.7
22.0m					20.3	22.6	25.4
24.0m					16.2	18.4	21.1
26.0m					12.9	15.1	17.7
28.0m					10.3	12.3	14.8
30.0m						9.9	12.4
32.0m						7.8	10.4
34.0m						5.7	8.6
36.0m						4.0	6.9
38.0m						2.5	5.3
40.0m							3.9
42.0m							2.7
$\theta$ (°)	0~83	0~83	0~83	0~83	0~83	15~83	27~83

A= Boom length B= Working radius  
 $\theta$  = Boom angle range (for the unladen condition)

[BOOM]  
(Stroke: 9.2m)

Unit: ton

Performance D							
A \ B	14.2m	17.3m	20.3m	23.4m	32.6m	41.8m	51.0m
3.0m	250.0	180.0	180.0	180.0			
3.5m	221.0	180.0	180.0	180.0			
4.0m	198.0	180.0	180.0	180.0			
4.5m	178.0	175.0	175.0	175.0			
5.0m	162.0	159.0	159.0	159.0	130.0		
6.0m	135.0	132.0	132.0	132.0	130.0	100.0	
7.0m	115.0	112.0	112.0	112.0	113.0	100.0	70.0
8.0m	97.2	92.5	92.5	92.5	94.2	94.2	68.8
9.0m	78.1	73.6	73.6	73.6	75.2	78.3	65.0
10.0m	64.5	60.2	60.2	60.2	61.6	64.5	60.6
11.0m		50.0	50.0	50.0	51.4	54.2	56.8
12.0m		42.2	42.2	42.2	43.5	46.1	49.3
14.0m		30.7	30.7	30.7	31.9	34.4	37.4
16.0m			22.6	22.6	23.9	26.3	29.2
18.0m				16.3	17.5	20.0	23.0
20.0m				11.7	12.7	15.1	18.0
22.0m					9.0	11.3	14.1
24.0m					6.1	8.3	11.0
26.0m					3.2	5.9	8.5
28.0m							6.4
30.0m							4.7
$\theta$ (°)	0~83	0~83	0~83	0~83	29~83	47~83	52~83

A= Boom length B= Working radius  
 $\theta$  = Boom angle range (for the unladen condition)

[BOOM]  
(Stroke: 9.2m)

Unit: ton

Performance E							
B \ A	14.2m	17.3m	20.3m	23.4m	32.6m	41.8m	51.0m
3.0m	200.0	180.0	180.0	180.0			
3.5m	180.0	180.0	180.0	180.0			
4.0m	165.0	172.0	172.0	172.0			
4.5m	150.0	154.0	154.0	154.0			
5.0m	140.0	139.0	139.0	139.0	130.0		
6.0m	120.0	110.0	110.0	110.0	112.0	100.0	
7.0m	80.0	77.9	77.9	77.9	79.8	83.5	70.0
8.0m	62.0	58.2	58.2	58.2	59.9	63.3	67.3
9.0m	48.0	45.0	45.0	45.0	46.6	49.7	53.4
10.0m	40.0	35.6	35.6	35.6	37.1	40.0	43.5
11.0m		28.5	28.5	28.5	29.9	32.7	36.0
12.0m		23.0	23.0	23.0	24.4	27.0	30.2
14.0m		15.0	15.0	15.0	16.3	18.8	21.8
16.0m			9.3	9.3	10.6	13.0	15.9
18.0m				4.9	6.1	8.7	11.6
20.0m							8.1
$\theta$ (°)	0~83	0~83	0~83	29~83	52~83	62~83	65~83

Unit: ton

Performance F		
B \ A	14.2m	23.4m
3.0m	160.0	145.0
3.5m	145.0	145.0
4.0m	130.0	130.0
4.5m	115.0	115.0
5.0m	104.0	100.0
6.0m	64.0	66.0
7.0m	44.0	44.0
8.0m	31.0	31.0
9.0m	24.0	21.0
10.0m	18.0	14.0
11.0m		9.0
$\theta$ (°)	23~83	55~83

Unit: ton

Performance G	
B \ A	14.2m
3.0m	7.0
3.5m	7.0
4.0m	7.0
4.5m	7.0
5.0m	7.0
6.0m	7.0
7.0m	7.0
8.0m	7.0
9.0m	7.0
10.0m	7.0
$\theta$ (°)	23~83

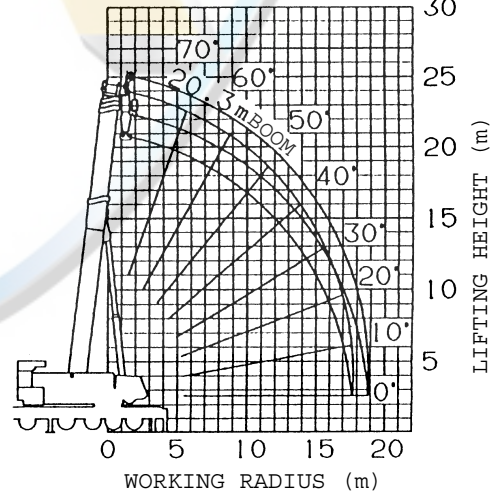
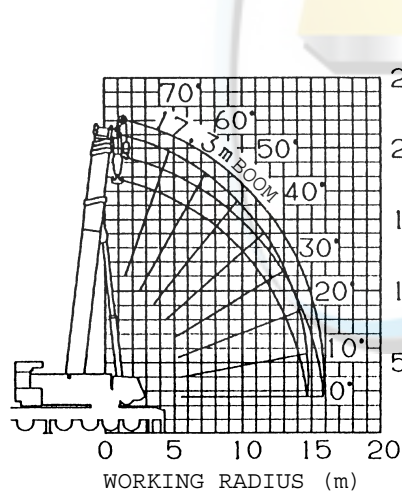
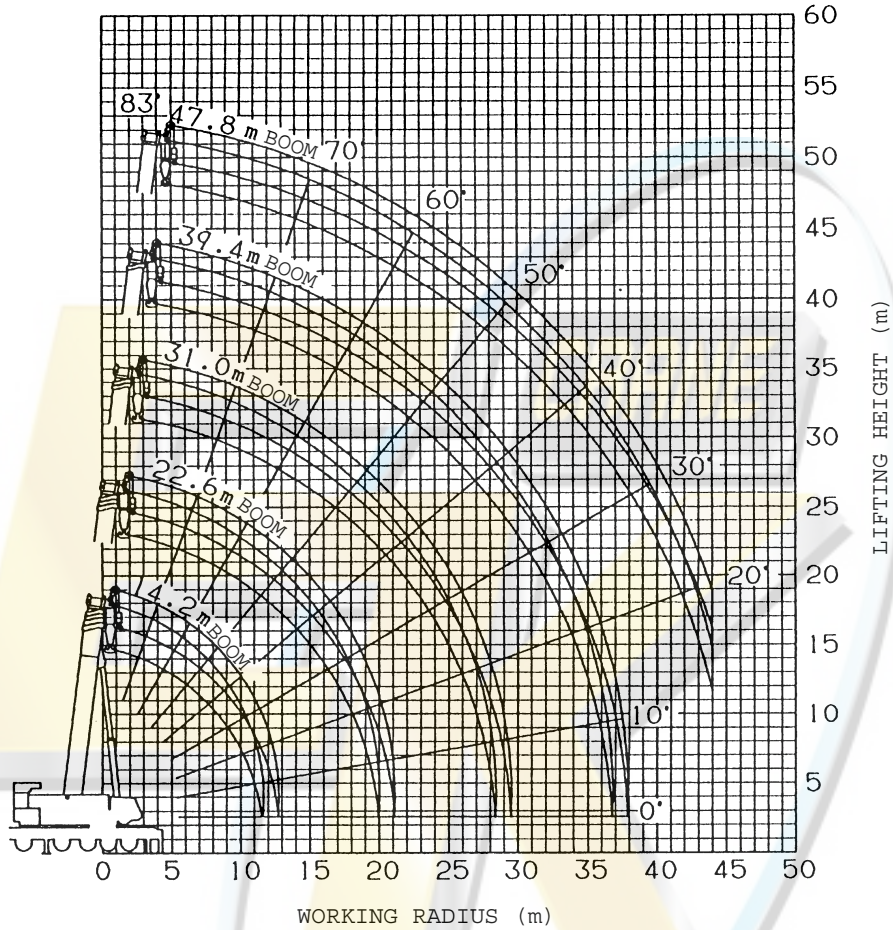
Unit: ton

Performance H	
B \ A	14.2m
3.0m	7.0
3.5m	7.0
4.0m	7.0
4.5m	7.0
5.0m	7.0
6.0m	7.0
7.0m	7.0
8.0m	6.0
9.0m	4.0
10.0m	1.5
$\theta$ (°)	37~83

A= Boom length B= Working radius  
 $\theta$  = Boom angle range (for the unladen condition)

**WORKING RADIUS - LIFTING HEIGHT**

BOOM (each section stroke: 8.4m)



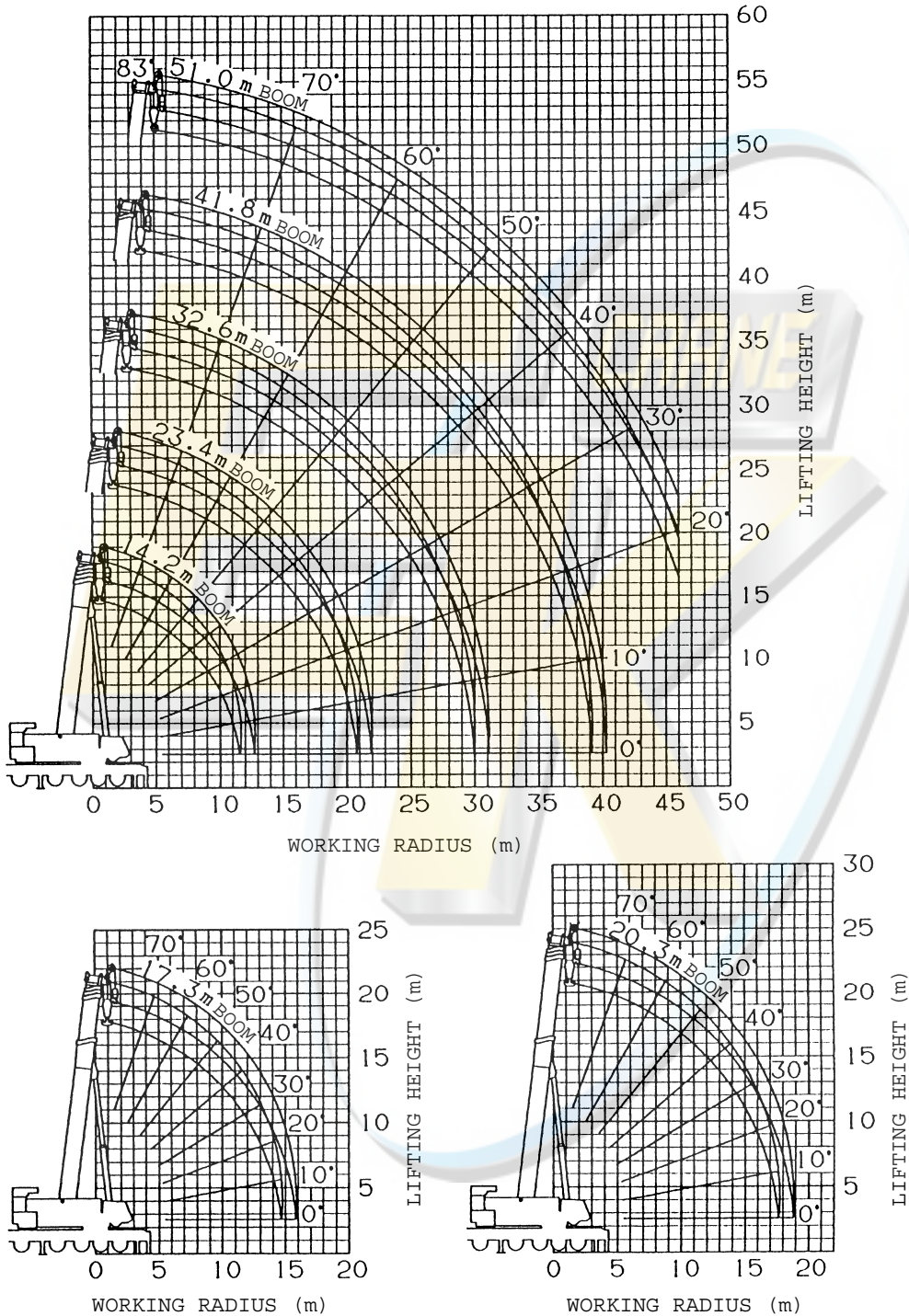
**NOTES:**

1. The deflection of the boom is not incorporated in the figure above.
2. The above charts show the maximum working radii of performance S, A and B.



**WORKING RADIUS - LIFTING HEIGHT**

BOOM (each section stroke: 9.2m)

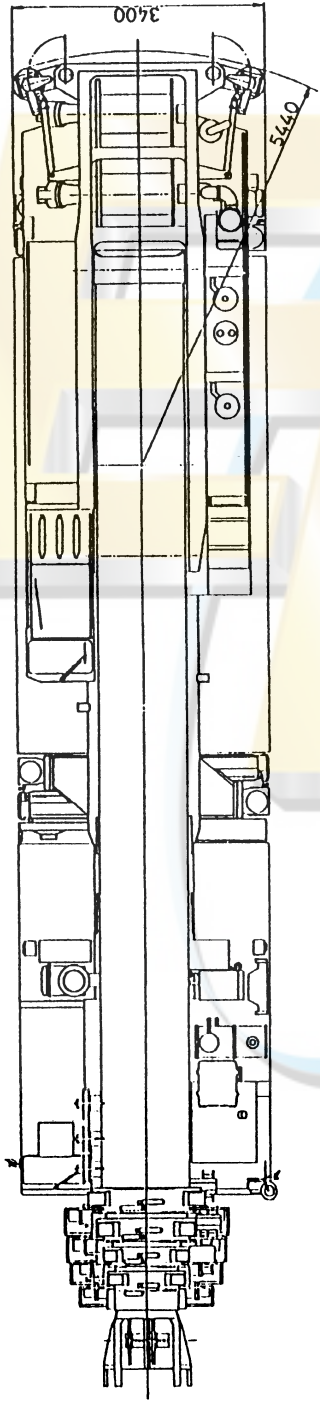


**NOTES:**

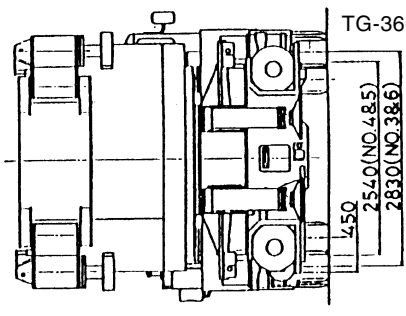
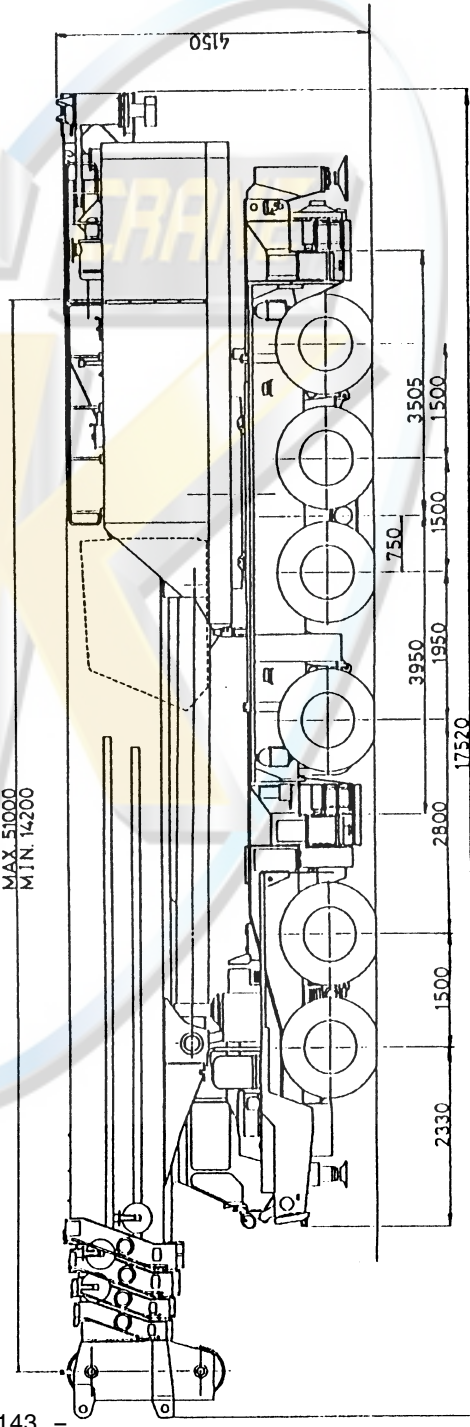
1. The deflection of the boom is not incorporated in the figure above.
2. The above charts show the maximum working radii of performance S, A and B.



**DIMENSIONS** (1/100) [On-site traveling condition]



MAX. 51000  
MIN. 14200



TG-3600M-2/MB-90