TRUCK CRANE

TG-600M

TG

JAPANESE SPECIFICATIONS

CARRIER MODEL	OUTLINE	SPEC. NO.
NISSAN DIESEL P-KG53W	5-section Boom, 3-stage Jib	TG-600M-1-10101

Control No. JA-03

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TG-600M-1-10101

TG-600M

CRANE SPECIFICATIONS

CRANE CAPACITY

11.0m	Boom	60,000kg	at 3.5m	(12 part-line)
18.8m	Boom	35,000kg	at 5.0m	(7 part-line)
26.5m	Boom	23,000kg	at 6.0m	(5 part-line)
34.3m	Boom	15,000kg	at 8.0m	(4 part-line)
42.0m	Boom	8,000kg	at 12.0m	(2 part-line)
9.0m	Jib	4,500kg	at 78°	(1 part-line)
15.0m	Jib	2,800kg	at 78°	(1 part-line)
20.2m	Jib	1,700kg	at 78°	(1 part-line)
Single top		4,500kg		(1 part-line)

MAX. LIFTING HEIGHT
Boom 41.5m
Jib 61.0m

MAX. WORKING RADIUS
Boom 28.0m (Standard)
34.0m (With device for heavy-duty work)
Jib 36.3m (Standard)
43.0m (With device for heavy-duty work)

BOOM LENGTH
11.0m – 42.0m

BOOM EXTENSION
31.0m

BOOM EXTENSION SPEED
31.0m / 128s

JIB LENGTH
9.0m, 15.0m, 20.2m

MAIN WINCH SINGLE LINE SPEED
High range: 100m/min (3rd layer)
Low range: 50m/min (3rd layer)

MAIN WINCH HOOK SPEED
High range: 8.3m/min (12 part-line)
Low range: 4.2m/min (12 part-line)

AUXILIARY WINCH SINGLE LINE SPEED
High range: 106m/min (2nd layer)
Low range: 53m/min (2nd layer)

AUXILIARY WINCH HOOK SPEED
High range: 106m/min (1 part-line)
Low range: 53m/min (1 part-line)

BOOM ELEVATION ANGLE
-2° – 83°

BOOM ELEVATION SPEED
-2° – 83° / 67s

SWING ANGLE
360° continue

SWING SPEED
1.9 rpm

WIRE ROPE
Main Winch
20mm × 195m (Diameter × Length)
7×7+6×WS(31) Class C ordinary · Z twist
Spin-resistant wire rope
Breaking strength 29.3t
Auxiliary Winch
18mm × 140m (Diameter × Length)
7×7+6×WS(31) Class C ordinary · Z twist
Spin-resistant wire rope
Breaking strength 24.3t

HOOK
60 t hook (12 part-line)
15 t hook (3 part-line)
5 t hook (1 part-line)

BOOM
5-section power telescoping boom of hexagonal box construction
(stages 2,3: synchronized; stage 4,5: synchronized)

BOOM EXTENSION
3 double-acting hydraulic cylinder
1 wire rope type telescoping device

JIB
3-staged swingaround boon extensions.
(stages 2,3: pull-out type)
Dual (5°, 30°) offset

SINGLE TOP
Single sheave. Mounted to main boom head for single line work.

HOIST
Driven by hydraulic motor and via helical gear speed reducer.
With free-fall device.
Automatic brake (with foot brake for free-fall device)
2 single winches

BOOM ELEVATION
2 double-acting hydraulic cylinders

SWING
Hydraulic motor driven planetary gear reducer
Swing bearing
Hand brake
Swing free/lock changeover type

OUTRIGGERS
Fully hydraulic H-type (Floats mounted integrally)
Slides and jacks each provided with independent operation device.
Full extended width 7.2m
Middle extended width 4.6m

MAX. OUTRIGGER LOAD
57t

FRONT JACK
Hydraulic operated type

HYDRAULIC PUMPS
4 gear pumps

HYDRAULIC OIL TANK CAPACITY
820 liters

SAFETY DEVICES
Automatic moment limiter (AML-US)
Over-winding cutout
Level gauge
Over front area control device
Working area control device
Hook safety latch
Cable follower
Winch drum lock
Winch drum rotation indicator
Hydraulic safety valve
Telescopic counterbalance valve
Elevation counterbalance valve
Jack pilot check valve
Front jack over load alarm

EQUIPMENTS
Crane cab heater
Oil cooler
Boom angle indicator
Jib extending device
Radio
Fan

OPTIONAL EQUIPMENT
Device for heavy-duty work

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TG-600M-1-10101

CARRIER SPECIFICATIONS

MANUFACTURER
NISSAN DIESEL MOTOR CO., LTD

CARRIER MODEL
P-KG53W

ENGINE
Model RE8
Type 4-cycle V8-cylinder, direct-injection, water-cooled diesel engine
Piston displacement 15,115cc
Max. output 315PS at 2,300rpm
Max. torque 105kg·m at 1,400rpm

CLUTCH
Dry single-plate type

TRANSMISSION
9-forward and 1-reverse speeds
Constant-mesh gear

REDUCER
2-stage speed reduction type

FRONT AXLE
Reverse Elliot-type steel pipe cross section

REAR AXLE
Full floating, cast torque rods

SUSPENSION
Front REYCO type
Rear Equalizer and torque rods

STEERING
Recirculating ball screw type with linkage power assistance

BRAKE SYSTEM
Service Brake
2-circuit air brake, 8-wheels internal expanding brake
Parking Brake
Mechanically operated, duo-servo shoe type acting on drum at transmission case rear.
Auxiliary Brake
Electro-pneumatic operated exhaust brake

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

FUEL TANK CAPACITY
300 liters

CAB
Two-man type

TIRES
Front 14.00-24-24PR
Rear 12.00-20-18PR

STANDARD EQUIPMENTS
Car heater
Car radio

GENERAL DATA

DIMENSIONS

Overall length		13,925mm
Overall width		3,000mm
Overall height		3,790mm
Wheel base	1,500mm + 4,400mm + 1,400mm = 7,300mm	
Tread	Front	2,480mm
	Rear	2,280mm

WEIGHTS

Gross vehicle weight		
Total		43,180kg
Front		21,510kg
Rear		21,670kg

PERFORMANCE

Max. traveling speed		70km/h
Gradeability	(tan θ)	0.36
Min. turning radius	(Outermost wheel)	11.6m

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TOTAL RATED LOADS

(1) Standard specifications

(i)

Unit : ton

· Outriggers fully extended + Front jack (360°)
· Outriggers fully extended (Over rear · Over sides)

B (m) \ A	11.0 m	18.8 m	26.5 m	34.3 m	42.0 m
3.0	60.0	35.0			
3.5	60.0	35.0			
4.0	51.8	35.0			
4.5	45.4	35.0			
5.0	40.4	35.0	23.0		
5.5	36.1	32.3	23.0		
6.0	32.6	29.7	23.0		
6.5	29.7	27.5	21.8	15.0	
7.0	26.4	25.2	20.4	15.0	
7.5	23.0	23.0	19.1	15.0	
8.0	20.3	20.3	18.0	15.0	8.0
9.0	16.0	16.0	16.0	13.4	8.0
10.0		12.75	12.75	12.2	8.0
11.0		10.4	10.4	11.0	8.0
12.0		8.55	8.55	9.45	8.0
14.0		6.0	6.0	6.85	7.0
16.0		4.2	4.2	5.1	5.85
18.0			2.75	3.8	4.55
20.0			1.65	2.75	3.55
22.0			0.80	1.85	2.7
24.0				1.2	2.0
26.0				0.60	1.4
28.0					0.90

E (°) \ C / D	9.0 m		15.0 m		20.2 m	
	5°	30°	5°	30°	5°	30°
83	4.5	2.7	2.8	1.3	1.7	0.70
80	4.5	2.7	2.8	1.3	1.7	0.70
78	4.5	2.5	2.8	1.2	1.7	0.70
75	3.7	2.2	2.5	1.1	1.5	0.65
73	3.3	2.0	2.2	1.05	1.38	0.63
70	2.8	1.8	1.85	1.0	1.25	0.62
68	2.5	1.66	1.67	0.92	1.16	0.60
65	2.1	1.5	1.45	0.85	1.05	0.57
63	1.65	1.41	1.05	0.81	0.80	0.55
60	1.0	0.95	0.55	0.48		
58	0.70	0.63				

A = Boom length
B = Working radius
C = Jib length
D = Jib offset
E = Boom angle

NOTES:

1. The total rated loads shown are for the case when the outriggers are set horizontally on firm ground. The values are based on the crane strength.
2. The weights of slings and hooks (600kg for a 60 ton capacity hook, 260kg for a 15 ton capacity hook and 140kg for a 5 ton capacity hook) 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.
4. The number of part lines for each boom length should not exceed the values below. The load per line should not exceed 5t for the main winch and 4.5t for the auxiliary winch.

A	11.0 m	18.8 m	26.5 m	34.3 m	42.0 m	J
H	12	7	5	4	2	1

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

5. The total rated loads for free-fall operations is 1/5 of the total rated loads given above. The load per line should not exceed 1t for the main winch and 0.9t for the auxiliary winch.
6. The total rated load for the single top is the same as that of the boom and must not exceed 4.5 tons. However, when hooks, slings, etc. are mounted on the boom, one should work with the to rated load obtained by subtracting the weights of the hooks, slings, etc. mounted on the boomtal from the total rated load of the boom.

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TG-600M-1-10101

(1) Standard specifications
(ii)

Unit : ton

· Outriggers middle extended (360°) · Outriggers fully extended (Over front)						Without outriggers (Over rear)	
B (m) \ A	11.0 m	18.8 m	26.5 m	34.3 m	42.0 m	B (m) \ A	11.0 m
3.0	40.0	24.0				3.0	9.0
3.5	40.0	24.0				3.5	7.7
4.0	37.0	24.0				4.0	6.1
4.5	29.5	24.0				4.5	5.25
5.0	22.4	23.95	15.0			5.0	4.7
5.5	18.45	18.45	15.0			5.5	4.25
6.0	14.6	14.6	14.6			6.0	3.8
6.5	11.95	11.95	11.95	10.0		6.5	3.4
7.0	9.9	9.9	9.9	10.0		7.0	3.0
7.5	8.35	8.35	8.35	9.25		7.5	2.6
8.0	7.05	7.05	7.05	7.95	5.5	8.0	2.3
9.0	5.1	5.1	5.1	5.95	5.5	9.0	1.5
10.0		3.65	3.65	4.55	5.5		
11.0		2.6	2.5	3.5	4.4		
12.0				2.6	3.5		
14.0					2.15		

E (°) \ C / D	9.0 m	
	5°	30°
83	4.5	2.7
30	4.5	2.7
78	3.2	2.3

A = Boom length
B = Working radius
C = Jib length
D = Jib offset
E = Boom angle

NOTES:

1. The total rated loads shown are for the case when the outriggers are set horizontally on firm ground. The values are based on the crane strength.
2. The weights of slings and hooks (600kg for a 60 ton capacity hook, 260kg for a 15 ton capacity hook and 140kg for a 5 ton capacity hook) 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.
4. The number of part lines for each boom length should not exceed the values below. The load per line should not exceed 5t for the main winch and 4.5t for the auxiliary winch.

A	11.0 m	18.8 m	26.5 m	34.3 m	42.0 m	J
H	12	7	5	4	2	1

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

5. The total rated loads for free-fall operations is 1/5 of the total rated loads given above. The load per line should not exceed 1t for the main winch and 0.9t for the auxiliary winch. Free-fall operations should not be performed without the outriggers.
6. The total rated load for the single top is the same as that of the boom and must not exceed 4.5 tons. However, when hooks, slings, etc. are mounted on the boom, one should work with the to rated load obtained by subtracting the weights of the hooks, slings, etc. mounted on the boomtal from the total rated load of the boom.

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TG-600M-1-10101

(2) Specifications for the case when the device for heavy-duty work (option) is mounted

(i) Unit : ton

· Outriggers fully extended + Front jack (360°)
· Outriggers fully extended (Over rear · Over sides)

A / B (m)	11.0 m	18.8 m	26.5 m	34.3 m	42.0 m
3.0	60.0	35.0			
3.5	60.0	35.0			
4.0	53.0	35.0			
4.5	46.5	35.0			
5.0	42.0	35.0	23.0		
5.5	37.5	32.3	23.0		
6.0	34.0	29.7	23.0		
6.5	30.5	27.5	21.8	15.0	
7.0	27.5	25.2	20.4	15.0	
7.5	24.8	23.3	19.1	15.0	
8.0	22.5	21.4	18.0	15.0	8.0
9.0	19.0	18.5	16.0	13.4	8.0
10.0		16.0	14.5	12.2	8.0
11.0		13.4	13.0	11.0	8.0
12.0		11.2	11.2	10.0	8.0
14.0		8.1	8.1	8.4	7.0
16.0		6.0	6.0	6.9	6.0
18.0			4.45	5.35	5.3
20.0			3.15	4.2	4.5
22.0			2.15	3.15	3.9
24.0			1.3	2.35	3.2
26.0				1.7	2.5
28.0				1.1	1.9
30.0				0.65	1.4
32.0					1.0
34.0					0.6

C / D / E (°)	9.0 m		15.0 m		20.2 m	
	5°	30°	5°	30°	5°	30°
83	4.5	2.7	2.8	1.3	1.7	0.7
80	4.5	2.7	2.8	1.3	1.7	0.7
78	4.5	2.5	2.8	1.2	1.7	0.7
75	3.7	2.2	2.5	1.1	1.5	0.65
73	3.3	2.0	2.2	1.05	1.38	0.63
70	2.8	1.8	1.85	1.0	1.25	0.62
68	2.5	1.66	1.67	0.92	1.16	0.60
65	2.2	1.5	1.45	0.85	1.05	0.57
63	2.0	1.41	1.3	0.81	0.96	0.55
60	1.8	1.3	1.15	0.75	0.85	0.52
58	1.65	1.2	1.05	0.70	0.77	0.49
55	1.15	1.05	0.75	0.65	0.56	0.45
53	0.90	0.85	0.55	0.50		
50	0.55	0.50				

A = Boom length
B = Working radius
C = Jib length
D = Jib offset
E = Boom angle

NOTES:

1. The total rated loads shown are for the case when the outriggers are set horizontally on firm ground. The values are based on the crane strength.
2. The weights of slings and hooks (600kg for a 60 ton capacity hook, 260kg for a 15 ton capacity hook and 140kg for a 5 ton capacity hook) 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.
4. The number of part lines for each boom length should not exceed the values below. The load per line should not exceed 5t for the main winch and 4.5t for the auxiliary winch.

A	11.0 m	18.8 m	26.5 m	34.3 m	42.0 m	J
H	12	7	5	4	2	1

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

5. The total rated loads for free-fall operations is 1/5 of the total rated loads given above. The load per line should not exceed 1t for the main winch and 0.9t for the auxiliary winch.
6. The total rated load for the single top is the same as that of the boom and must not exceed 4.5 tons. However, when hooks, slings, etc. are mounted on the boom, one should work with the to rated load obtained by subtracting the weights of the hooks, slings, etc. mounted on the boomtal from the total rated load of the boom.

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TG-600M-1-10101

(2) Specifications for the case when the device for heavy-duty work (option) is mounted

(ii)

Unit : ton

· Outriggers middle extended (360°)
· Outriggers fully extended (Over front)

A / B (m)	11.0 m	18.8 m	26.5 m	34.3 m	42.0 m
3.0	40.0	24.0			
3.5	40.0	24.0			
4.0	40.0	24.0			
4.5	38.0	24.0			
5.0	30.0	24.0	15.0		
5.5	24.8	24.0	15.0		
6.0	20.8	20.8	15.0		
6.5	17.55	17.55	15.0	10.0	
7.0	14.8	14.8	14.8	10.0	
7.5	12.65	12.65	12.65	10.0	
8.0	10.95	10.95	10.95	10.0	5.5
9.0	8.35	8.35	8.35	9.25	5.5
10.0		6.50	6.50	7.35	5.5
11.0		5.1	5.1	5.95	5.5
12.0		3.95	3.95	4.85	5.5
14.0		2.15	2.15	3.2	4.0
16.0		0.95	0.90	1.95	2.8
18.0				1.0	1.85
20.0					1.1

C / D / E (°)	9.0 m		15.0 m		20.2 m	
	5°	30°	5°	30°	5°	30°
83	4.5	2.7	2.8	1.3	1.7	0.7
80	4.5	2.7	2.8	1.3	1.7	0.7
78	4.5	2.5	2.8	1.2	1.7	0.7
75	3.7	2.2	1.9	1.1	1.4	0.65
73	3.3	1.9	1.35	1.05	0.95	
70	1.8	1.0				

A = Boom length
B = Working radius
C = Jib length
D = Jib offset
E = Boom angle

Without outriggers (Over rear)

A / B (m)	11.0 m
3.0	8.0
3.5	6.4
4.0	5.1
4.5	4.55
5.0	4.05
5.5	3.6
6.0	3.15
6.5	2.8
7.0	2.4
7.5	2.1
8.0	1.8
9.0	1.0

NOTES:

1. The total rated loads shown are for the case when the outriggers are set horizontally on firm ground. The values are based on the crane strength.
2. The weights of slings and hooks (600kg for a 60 ton capacity hook, 260kg for a 15 ton capacity hook and 140kg for a 5 ton capacity hook) 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.
4. The number of part lines for each boom length should not exceed the values below. The load per line should not exceed 5t for the main winch and 4.5t for the auxiliary winch.

A	11.0 m	18.8 m	26.5 m	34.3 m	42.0 m	J
H	12	7	5	4	2	1

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

5. The total rated loads for free-fall operations is 1/5 of the total rated loads given above. The load per line should not exceed 1t for the main winch and 0.9t for the auxiliary winch. Free-fall operations should not be performed without the outriggers.
6. The total rated load for the single top is the same as that of the boom and must not exceed 4.5 tons. However, when hooks, slings, etc. are mounted on the boom, one should work with the to rated load obtained by subtracting the weights of the hooks, slings, etc. mounted on the boomtal from the total rated load of the boom.

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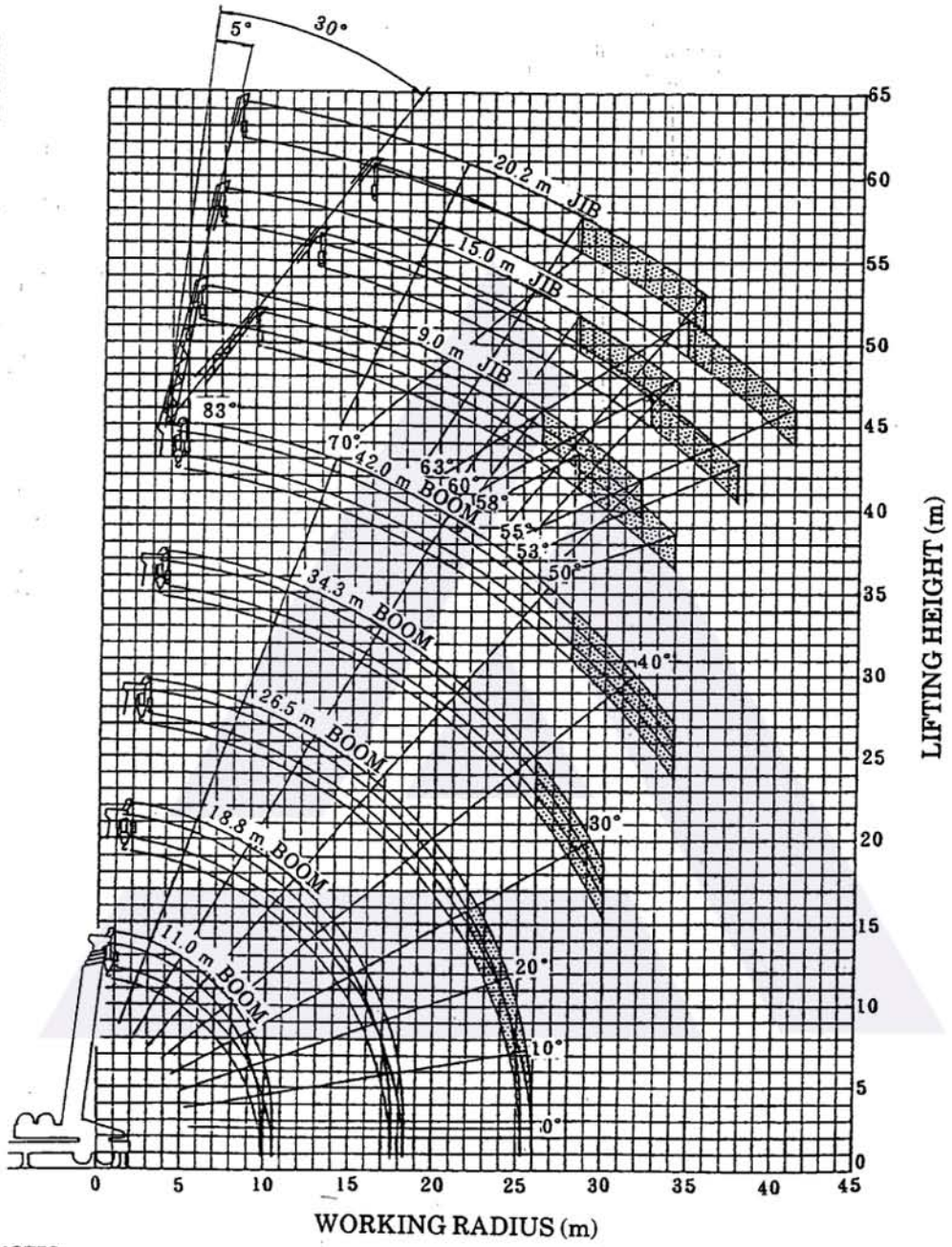
WORKING RADIUS - LIFTING HEIGHT



NOTES:

1. The deflection of the boom is not incorporated in the figure above.
2. The above chart is for the case where the outriggers are fully extended and where the front jack are used (over 360°)
3. The ▒▒ area in the diagram applies only to the case when the device for heavy-duty work (option) is mounted.

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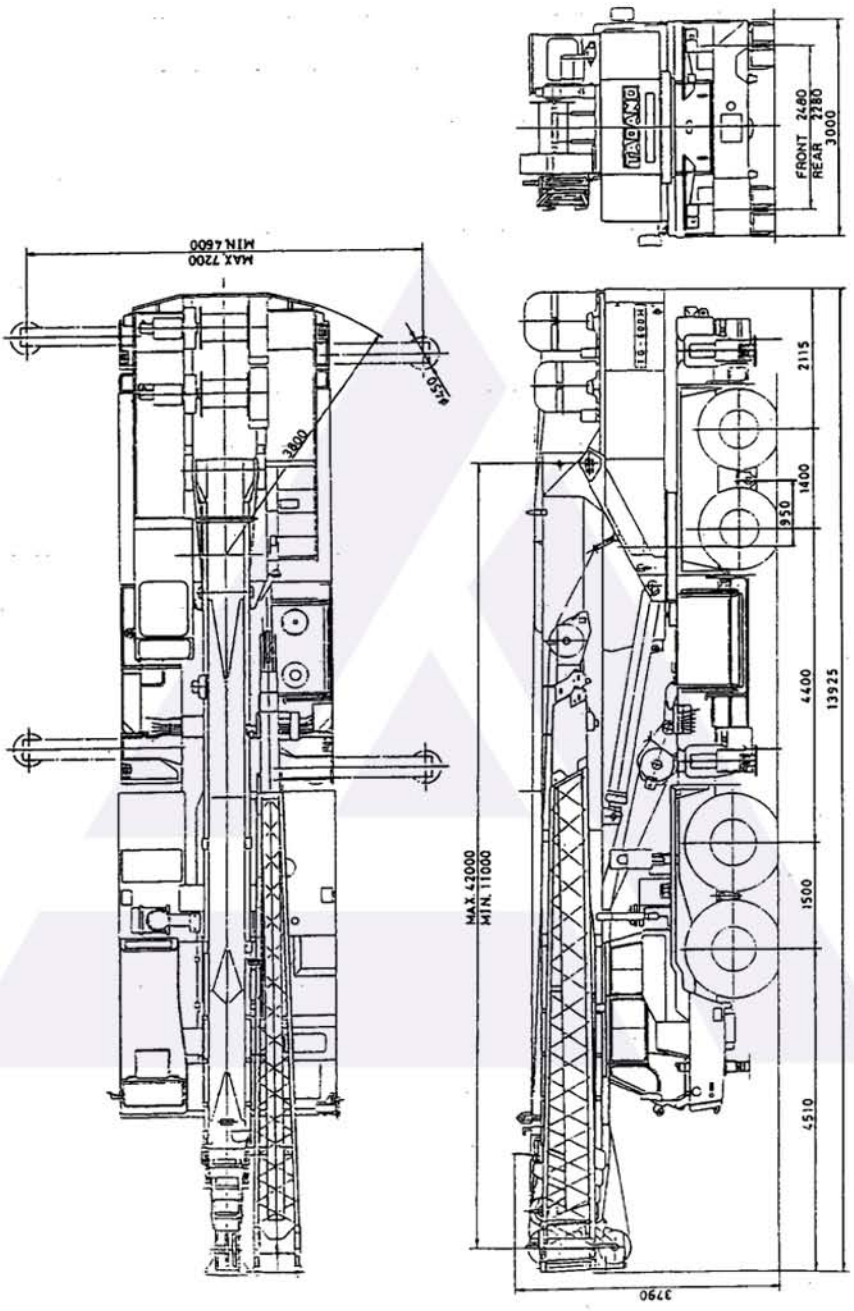
DIMENSIONS (1/100)



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