

TRUCK CRANE

TG-800R

TG

JAPANESE SPECIFICATIONS

CARRIER MODEL	OUTLINE	SPEC. NO.
MITSUBISHI P-K602 (improvement)	Luffing Jib	TG-800R-1-20101

Control No. JA-01

TG-800R

CRANE SPECIFICATIONS

CRANE CAPACITY

10.6m Boom	80,000kg	at 3.5m	(16 part-line)
16.0m Boom	45,000kg	at 5.5m	(9 part-line)
21.3m Boom	40,000kg	at 5.5m	(8 part-line)
26.6m Boom	30,000kg	at 5.5m	(6 part-line)
31.9m Boom	25,000kg	at 6.0m	(5 part-line)
35.5m Boom	22,000kg	at 6.5m	(4 part-line)
39.0m Boom	19,000kg	at 7.0m	(4 part-line)
9.0m Jib	5,500kg	at 70°	(1 part-line)
14.0m Jib	3,500kg	at 73°	(1 part-line)
19.0m Jib	2,500kg	at 78°	(1 part-line)
16.0m Luffing jib	12,100kg	× 14.0m(3 part-line, Boom length: 26.6m)	
22.0m Luffing jib	9,900kg	× 14.0m(2 part-line, Boom length: 21.3m)	
28.0m Luffing jib	8,500kg	× 14.0m(2 part-line, Boom length: 16.0m)	
34.0m Luffing jib	5,500kg	× 18.0m(1 part-line, Boom length: 16.0m)	
Single top	5,500kg		

MAX. LIFTING HEIGHT

Boom	39.2m
Jib	57.7m
Luffing jib	73.0m

MAX. WORKING RADIUS

Boom	34.0m
Jib	43.0m
Luffing jib	50.0m

BOOM LENGTH

10.6m - 39.0m

BOOM EXTENSION

28.4m

BOOM EXTENSION SPEED

28.4m / 115s

JIB LENGTH

9.0m - 19.0m

LUFFING JIB LENGTH

16.0m, 22.0m, 28.0m, 34.0m

MAIN WINCH SINGLE LINE SPEED

High range:	100m/min	(4th layer)
Low range:	50m/min	(4th layer)

MAIN WINCH HOOK SPEED

High range:	6.2m/min	(16 part-line)
Low range:	3.1m/min	(16 part-line)

AUXILIARY WINCH SINGLE LINE SPEED

High range:	110m/min	(2nd layer)
Low range:	55m/min	(2nd layer)

AUXILIARY WINCH HOOK SPEED

High range:	110m/min	(1 part-line)
Low range:	55m/min	(1 part-line)

BOOM ELEVATION ANGLE

-1° - 82°

BOOM ELEVATION SPEED

-1° - 82° / 66s

SWING ANGLE

360° continue

SWING SPEED

1.8 rpm

WIRE ROPE

Main Winch

20mm × 240m (Diameter × Length)
 7×7+6×WS(31) Class C ordinary · Z twist
 Spin-resistant wire rope
 Breaking strength 33.3t

Auxiliary Winch

20mm × 175m (Diameter × Length)
 7×7+6×WS(31) Class C ordinary · Z twist
 Spin-resistant wire rope
 Breaking strength 29.3t

HOOK

80 t hook	(16 part-line)
45 t hook	(9 part-line)
15 t hook	(3 part-line)
5.5 t hook	(1 part-line)

BOOM

5-section hydraulically telescoping boom of box construction.
 (stages 2-4: synchronized; stage 5: sequenced)

BOOM EXTENSION

4 double-acting hydraulic cylinder

JIB

3-staged swingaround boom extensions.
 Hydraulically synchronized telescoping type (stage 2, 3)
 Hydraulic non-stage offset (5°-45°) type

LUFFING JIB

Down-swinging type
 Non-stage offset (10°-60°) type

SINGLE TOP

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

HOIST

Main Winch

Driven by hydraulic motor and via planetary gear reducer
 With free-fall device
 Automatic brake
 (With foot brake for free-fall operation)

Auxiliary Winch

Driven by hydraulic motor and via bevel gear speed reducer
 Automatic brake

BOOM ELEVATION

2 double-acting hydraulic cylinders

SWING

Hydraulic motor driven planetary gear reducer
 Swing bearing
 Manual switch type brake
 Swing free/lock changeover type

OUTRIGGERS

Fully hydraulic H-type
 Slides and jacks each provided with independent operation device.
 Full extended width 7.3m
 Middle extended width 5.0m

FRONT JACK

Hydraulic operated type

MAX. OUTRIGGER LOAD

88t (over front), 57t (over rear)

ENGINE FOR CRANE

Model MITSUBISHI 6D16T
 Type 4-cycle, 6 in-line cylinder, direct-injection,
 water-cooled diesel engine.
 Piston Displacement 7,545cc
 Max. Output 180PS at 2,000rpm
 Max. Torque 70.0kg·m at 1,400rpm

HYDRAULIC PUMPS

2 high pressure variable piston pumps and 1 high pressure gear pump
 1 high pressure gear pump

HYDRAULIC OIL TANK CAPACITY

985 liters

SAFETY DEVICES

Automatic moment limiter (AML)
 With working range limiting function

Working area control device

Over-winding cutout

Level gauge

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

Boom dismount device

Radio

Fan

OPTIONAL EQUIPMENT

Crane cab cooler

CARRIER SPECIFICATIONS

MANUFACTURER

MITSUBISHI MOTOR CORPORATION

CARRIER MODEL

P-K602 (improvement)

ENGINE

Model 8DC9

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

Piston displacement 16,031cc

Max. output 320PS at 2,200rpm

Max. torque 110kg·m at 1,400rpm

CLUTCH

Dry single-plate type

TRANSMISSION

10-forward and 2-reverse speeds

Constant-mesh gear (1st speed, 2nd speed, reverse)

Synchronized-mesh gear (for 3rd - 10th speeds)

REDUCER

Spiral bevel gear type

With planetary gear type hub reduction

FRONT AXLE

Reverse-elliot type steering knuckles

REAR AXLE

Full-floating type; cast-steel housing

SUSPENSION

Front Tapered leaf spring

With torsion bar stabilizer

Rear Equalizer beam and torque rod type

With semi-elliptical leaf spring

STEERING

Recirculating ball screw type

With linkage type hydraulic power booster

BRAKE SYSTEM

Service Brake

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

Parking Brake

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

Auxiliary Brake

Exhaust brake

Spring brake, acting on 4 rear wheels

ELECTRIC SYSTEM

24 V DC. 2 batteries of 12V (112Ah)

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

Car cooler

GENERAL DATA

DIMENSIONS (CARRIER ONLY)

Overall length 10,800mm

Overall width 3,000mm

Overall height 2,700mm

Wheel base 1,550mm + 2,750mm + 1,350mm = 5,650mm

Tread Front 2,500mm

Rear 2,275mm

WEIGHTS (CARRIER ONLY)

Gross vehicle weight

Total 27,000kg

Front 12,145kg

Rear 14,855kg

PERFORMANCE (CARRIER ONLY)

Max. traveling speed 70km/h

Gradeability (tan θ) 0.52

Min. turning radius 9.6m

TOTAL RATED LOADS

Extra weight specifications
[BOOM]

Unit : ton

Outriggers fully extended + Front jack (Over rear · Over sides)							
A B (m)	10.6m	16.0m	21.3m	26.6m	31.9m	35.5m	39.0m
3.0	80.0	45.0	40.0				
3.5	80.0	45.0	40.0				
4.0	70.0	45.0	40.0	30.0			
4.5	62.0	45.0	40.0	30.0			
5.0	56.0	45.0	40.0	30.0	25.0		
5.5	50.0	45.0	40.0	30.0	25.0		
6.0	45.0	42.0	38.0	28.5	25.0	22.0	
6.5	41.0	39.4	36.2	27.0	24.0	22.0	
7.0	38.0	37.0	34.5	25.7	23.0	21.0	19.0
7.5	34.0	34.6	33.0	24.4	22.0	20.0	18.4
8.0	30.5	31.0	31.5	23.0	20.7	19.0	17.2
9.0		26.4	26.7	20.8	18.5	17.3	16.0
10.0		21.7	22.0	19.0	16.6	15.8	14.8
11.0		18.2	18.4	17.2	15.0	14.3	13.6
12.0		15.4	15.5	15.7	13.8	13.0	12.5
14.0		11.5	11.6	11.7	11.3	10.9	10.7
16.0			8.9	9.0	9.0	9.3	9.1
18.0			6.9	7.0	7.0	7.6	7.9
20.0				5.4	5.4	6.0	6.4
22.0				4.1	4.1	4.7	5.2
24.0				3.0	3.0	3.6	4.1
26.0					2.1	2.7	3.2
28.0					1.4	2.0	2.5
30.0						1.4	2.0
32.0						0.8	1.5
34.0							1.0

A = Boom length B = Working radius

**Extra weight specifications
[BOOM]**

Unit : ton

Outriggers fully extended + Front jack (Over front)							
A B (m)	10.6m	16.0m	21.3m	26.6m	31.9m	35.5m	39.0m
3.0	64.0	45.0	40.0				
3.5	60.0	45.0	40.0				
4.0	53.0	45.0	40.0	30.0			
4.5	46.5	45.0	40.0	30.0			
5.0	40.0	40.0	38.0	30.0	25.0		
5.5	34.0	34.0	34.0	30.0	25.0		
6.0	30.0	30.0	30.0	28.5	25.0	22.0	
6.5	26.0	27.0	27.5	27.0	24.0	22.0	
7.0	22.5	23.5	24.0	24.0	23.0	21.0	19.0
7.5	20.0	21.0	21.3	21.5	22.0	20.0	18.4
8.0	18.0	19.0	19.2	19.5	19.6	19.0	17.2
9.0		15.9	16.0	16.1	16.2	16.6	16.0
10.0		13.0	13.1	13.2	13.3	13.9	13.5
11.0		10.7	10.8	10.9	11.0	11.6	11.8
12.0		9.1	9.2	9.3	9.4	9.9	10.3
14.0		6.6	6.7	6.8	6.9	7.4	7.8
16.0			5.0	5.1	5.2	5.6	6.0
18.0			3.5	3.6	3.6	4.2	4.5
20.0				2.4	2.4	3.0	3.4
22.0				1.4	1.4	2.0	2.4
24.0						1.2	1.6

A = Boom length B = Working radius

**Extra weight specifications
[BOOM]**

Unit : ton

Outriggers middle extended + Front jack (360°)							
A B (m)	10.6m	16.0m	21.3m	26.6m	31.9m	35.5m	39.0m
3.0	64.0	45.0	40.0				
3.5	60.0	45.0	40.0				
4.0	53.0	45.0	40.0	30.0			
4.5	46.5	45.0	40.0	30.0			
5.0	40.0	40.0	38.0	30.0	25.0		
5.5	34.0	34.0	34.0	30.0	25.0		
6.0	30.0	30.0	30.0	28.5	25.0	22.0	
6.5	26.0	27.0	27.5	27.0	24.0	22.0	
7.0	22.5	23.5	24.0	24.0	23.0	21.0	19.0
7.5	20.0	21.0	21.3	21.5	22.0	20.0	18.4
8.0	18.0	19.0	19.2	19.5	19.6	19.0	17.2
9.0		15.7	15.9	16.0	16.1	16.6	16.0
10.0		12.8	13.0	13.1	13.1	13.8	13.5
11.0		10.5	10.7	10.8	10.9	11.5	11.9
12.0		8.8	9.0	9.1	9.1	9.7	10.1
14.0		6.2	6.3	6.4	6.5	7.0	7.4
16.0			4.4	4.5	4.5	5.1	5.6
18.0			2.9	2.9	3.0	3.6	4.1
20.0				1.7	1.8	2.4	2.9
22.0				0.8	0.8	1.4	1.9
24.0							1.1

A = Boom length B = Working radius

**Extra weight specifications
[JIB]**

Unit : ton

Outriggers fully extended + Front jack (Over rear · Over sides)										
E	C	9.0m			14.0m			19.0m		
	D	5°	25°	45°	5°	25°	45°	5°	25°	45°
82°		5.5	4.2	3.0	3.5	2.4	1.5	2.5	1.1	0.7
80°		5.5	4.2	3.0	3.5	2.4	1.5	2.5	1.1	0.7
78°		5.5	4.2	3.0	3.5	2.4	1.5	2.5	1.1	0.7
75°		5.5	4.0	2.95	3.5	2.25	1.5	2.25	1.05	0.7
73°		5.5	3.85	2.9	3.5	2.15	1.5	2.08	1.0	0.68
70°		5.5	3.6	2.8	3.3	2.0	1.5	1.85	0.95	0.67
68°		4.95	3.45	2.75	3.1	1.9	1.47	1.72	0.91	0.66
65°		4.3	3.3	2.65	2.9	1.8	1.42	1.55	0.87	0.65
63°		3.9	3.15	2.6	2.75	1.75	1.4	1.43	0.84	0.64
60°		3.5	3.0	2.55	2.55	1.7	1.35	1.3	0.8	0.63
58°		3.0	2.7	2.5	2.4	1.65	1.34	1.24	0.77	0.62
55°		2.3	2.1	2.0	1.9	1.6	1.32	1.15	0.74	0.62
53°		1.85	1.7	1.6	1.5	1.3	1.1	1.1	0.72	0.62
50°		1.3	1.2	1.1	1.0	0.9	0.8	0.8	0.7	0.62
48°		1.0	0.9	0.8	0.75	0.65	0.55	0.55	0.45	0.4
45°		0.6	0.5	0.45	0.4					

[JIB]

Unit : ton

Outriggers middle extended + Front jack (360°)										
E	C	9.0m			14.0m			19.0m		
	D	5°	25°	45°	5°	25°	45°	5°	25°	45°
82°		5.5	4.2	3.0	3.5	2.4	1.5	2.5	1.1	0.7
80°		5.5	4.2	3.0	3.5	2.4	1.5	2.5	1.1	0.7
78°		5.5	4.2	3.0	3.5	2.4	1.5	2.5	1.1	0.7
75°		5.5	4.0	2.95	3.5	2.25	1.5	2.25	1.05	0.7
73°		5.5	3.85	2.9	3.5	2.15	1.5	2.08	1.0	0.68
70°		4.85	3.6	2.8	3.3	2.0	1.5	1.85	0.95	0.67
68°		3.75	3.35	2.75	3.1	1.9	1.47	1.72	0.91	0.66
65°		2.45	2.2	2.0	2.1	1.7	1.42	1.55	0.87	0.65
63°		1.75	1.6	1.45	1.45	1.2	1.0			

C = Jib length D = Jib offset E = Boom angle

Standard weight specifications
[BOOM]

Unit : ton

Outriggers fully extended + Front jack (Over rear · Over sides)							
A \ B (m)	10.6m	16.0m	21.3m	26.6m	31.9m	35.5m	39.0m
3.0	80.0	45.0	40.0				
3.5	77.0	45.0	40.0				
4.0	66.0	45.0	40.0	30.0			
4.5	58.0	45.0	40.0	30.0			
5.0	52.0	45.0	40.0	30.0	25.0		
5.5	47.0	45.0	40.0	30.0	25.0		
6.0	42.0	42.0	38.0	28.5	25.0	22.0	
6.5	38.0	38.0	36.2	27.0	24.0	22.0	
7.0	35.0	35.0	34.5	25.7	23.0	21.0	19.0
7.5	31.0	32.4	32.5	24.4	22.0	20.0	18.4
8.0	27.6	28.4	28.6	23.0	20.7	19.0	17.2
9.0		22.5	22.8	20.8	18.5	17.3	16.0
10.0		18.4	18.6	18.8	16.6	15.8	14.8
11.0		15.3	15.6	15.7	15.0	14.3	13.6
12.0		12.9	13.1	13.2	13.3	13.0	12.5
14.0		9.4	9.6	9.7	9.7	10.3	10.7
16.0			7.2	7.3	7.3	7.9	8.3
18.0			5.3	5.4	5.4	6.0	6.4
20.0				3.8	3.9	4.5	5.0
22.0				2.6	2.6	3.3	3.8
24.0				1.7	1.7	2.3	2.8
26.0					0.9	1.5	2.0
28.0						0.9	1.3
30.0							0.8

A = Boom length B = Working radius

**Standard weight specifications
[BOOM]**

Unit : ton

Outriggers fully extended + Front jack (Over front)							
A B (m)	10.6m	16.0m	21.3m	26.6m	31.9m	35.5m	39.0m
3.0	64.0	45.0	40.0				
3.5	57.0	45.0	40.0				
4.0	50.0	45.0	40.0	30.0			
4.5	43.0	42.0	40.0	30.0			
5.0	35.0	35.0	35.0	30.0	25.0		
5.5	30.0	30.0	30.0	30.0	25.0		
6.0	26.0	26.5	26.5	27.0	25.0	22.0	
6.5	22.5	23.0	23.5	24.0	24.0	22.0	
7.0	19.5	20.0	20.5	20.5	21.0	21.0	19.0
7.5	17.5	18.0	18.2	18.3	18.5	19.0	18.4
8.0	15.5	15.9	16.1	16.2	16.3	16.9	17.2
9.0		13.0	13.1	13.2	13.4	13.9	14.3
10.0		10.5	10.6	10.7	10.9	11.4	11.9
11.0		8.7	8.8	8.9	9.0	9.5	10.0
12.0		7.1	7.2	7.3	7.5	8.1	8.6
14.0		5.0	5.1	5.2	5.3	5.8	6.3
16.0			3.4	3.5	3.6	4.1	4.6
18.0			2.1	2.2	2.2	2.8	3.3
20.0				1.1	1.1	1.7	2.2
22.0							1.3

A = Boom length B = Working radius

**Standard weight specifications
[BOOM]**

Unit : ton

Outriggers middle extended + Front jack (360°)							
A B (m)	10.6m	16.0m	21.3m	26.6m	31.9m	35.5m	39.0m
3.0	64.0	45.0	40.0				
3.5	57.0	45.0	40.0				
4.0	50.0	45.0	40.0	30.0			
4.5	43.0	42.0	40.0	30.0			
5.0	35.0	35.0	35.0	30.0	25.0		
5.5	30.0	30.0	30.0	30.0	25.0		
6.0	26.0	26.5	26.5	27.0	25.0	22.0	
6.5	22.5	23.0	23.5	24.0	24.0	22.0	
7.0	19.5	20.0	20.5	20.5	21.0	21.0	19.0
7.5	17.5	18.0	18.2	18.3	18.5	19.0	18.4
8.0	15.3	15.9	16.1	16.2	16.3	16.9	17.2
9.0		12.6	12.8	13.0	13.0	13.7	14.2
10.0		10.1	10.3	10.4	10.5	11.1	11.6
11.0		8.2	8.4	8.5	8.6	9.2	9.6
12.0		6.7	6.9	7.0	7.0	7.6	8.0
14.0		4.3	4.5	4.6	4.7	5.3	5.7
16.0			2.8	2.8	2.9	3.6	4.0
18.0			1.5	1.5	1.6	2.2	2.7
20.0						1.2	1.6

A = Boom length B = Working radius

**Standard weight specifications
[JIB]**

Unit : ton

Outriggers fully extended + Front jack (Over rear · Over sides)										
E	C	9.0m			14.0m			19.0m		
	D	5°	25°	45°	5°	25°	45°	5°	25°	45°
82°		5.5	4.2	3.0	3.5	2.4	1.5	2.5	1.1	0.7
80°		5.5	4.2	3.0	3.5	2.4	1.5	2.5	1.1	0.7
78°		5.5	4.2	3.0	3.5	2.4	1.5	2.5	1.1	0.7
75°		5.5	4.0	2.95	3.5	2.25	1.5	2.25	1.05	0.7
73°		5.5	3.85	2.9	3.5	2.15	1.5	2.08	1.0	0.68
70°		5.5	3.6	2.8	3.3	2.0	1.5	1.85	0.95	0.67
68°		4.95	3.45	2.75	3.1	1.9	1.47	1.72	0.91	0.66
65°		4.3	3.3	2.65	2.9	1.8	1.42	1.55	0.87	0.65
63°		3.65	3.15	2.6	2.75	1.75	1.4	1.43	0.84	0.64
60°		2.6	2.35	2.15	2.1	1.7	1.35	1.3	0.8	0.63
58°		2.05	1.85	1.7	1.6	1.4	1.25	1.24	0.77	0.62
55°		1.35	1.2	1.1	1.0	0.85	0.75	0.8	0.65	0.56
53°		0.9	0.82	0.75	0.7					

[JIB]

Unit : ton

Outriggers middle extended + Front jack (360°)										
E	C	9.0m			14.0m			19.0m		
	D	5°	25°	45°	5°	25°	45°	5°	25°	45°
82°		5.5	4.2	3.0	3.5	2.4	1.5	2.5	1.1	0.7
80°		5.5	4.2	3.0	3.5	2.4	1.5	2.5	1.1	0.7
78°		5.5	4.2	3.0	3.5	2.4	1.5	2.5	1.1	0.7
75°		5.5	4.0	2.95	3.5	2.25	1.5	2.25	1.05	0.7
73°		5.2	3.85	2.9	3.5	2.15	1.5	2.08	1.0	0.68
70°		3.3	2.9	2.6	2.75	2.0	1.5	1.85	0.95	0.67
68°		2.3	2.1	1.85	1.9	1.6	1.3	1.72		

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 above the bold lines are based on the crane strength while those below are based on the crane stability.
2. The weights of slings and hooks (950kg for a 80 ton capacity hook, 450kg for a 45 ton capacity hook and 140kg for a 5.5 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 chart below shows the standard number of part lines for each boom length. The load per line should not exceed 5.0t for the main winch and 5.5t for the auxiliary winch.

A	10.6m	16.0m	21.3m	26.6m	31.9m	35.5m	39.0m	J
H	16	9	8	6	5	4	4	1

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

5. As a rule, free-fall operation of the main winch should be performed only when lowering the hook alone. If a hoisted load must be lowered by free-fall operation, the load should be kept below 1/5th of the total rated load (keep the load per line at 1.0t or less) and sudden braking operations must be avoided.
6. The total rated load for the single top is the same as that of the boom and must not exceed 5.5 tons. However, when hooks, slings, etc. are mounted on the boom, one should work with the total rated load obtained by subtracting the weights of the hooks, slings, etc. mounted on the boom from the total rated load of the boom.

Extra weight specifications
[16.0m LUFFING JIB]
(Over rear · Over sides)

Unit : ton

B		Outriggers fully extended + Front jack (Over rear · Over sides)																								
		16.0 m BOOM				21.3 m BOOM				26.6 m BOOM				31.9 m BOOM				35.5 m BOOM				39.0 m BOOM				
		Tilt angle		Tilt angle		Tilt angle		Tilt angle		Tilt angle		Tilt angle		Tilt angle		Tilt angle		Tilt angle		Tilt angle		Tilt angle		Tilt angle		
10°	20°	30°	45°	60°	10°	20°	30°	45°	60°	10°	20°	30°	45°	60°	10°	20°	30°	45°	60°	10°	20°	30°	45°	60°		
12.0	-	-	11.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
14.0	-	10.7	11.0	-	-	-	11.4	11.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
16.0	10.0	10.1	10.4	9.2	-	-	10.8	11.1	9.7	-	-	11.4	11.6	-	-	-	-	-	-	-	-	-	-	-	-	
18.0	9.4	9.5	9.9	8.7	6.2	9.5	10.2	10.6	9.2	6.5	-	9.8	10.6	9.5	-	-	-	-	-	-	-	-	-	-	-	
20.0	8.2	8.7	9.2	8.2	6.0	7.7	8.3	8.9	8.7	6.3	7.4	8.0	8.6	9.1	6.5	-	7.7	8.1	9.0	6.7	-	6.3	6.8	7.6	7.2	
22.0	6.9	7.3	7.7	7.8	5.8	6.4	6.8	7.3	7.9	6.1	6.0	6.5	7.0	7.7	6.4	5.6	6.2	6.8	7.5	6.6	-	5.5	5.9	6.6	7.0	
24.0	5.6	6.1	6.3	6.7	-	5.2	5.7	6.1	6.5	5.9	4.8	5.3	5.8	6.3	6.3	4.5	5.0	5.6	6.2	6.4	4.6	4.6	4.8	5.2	5.7	6.4
26.0	4.8	5.1	5.3	5.5	-	4.3	4.7	5.0	5.4	5.5	3.9	4.4	4.7	5.2	5.5	3.5	4.1	4.5	5.0	5.4	3.6	4.2	4.5	5.0	5.6	6.0
28.0	4.0	4.2	4.4	-	-	3.5	3.8	4.1	4.4	-	3.0	3.5	3.9	4.2	4.4	2.7	3.2	3.6	4.1	4.3	2.8	3.3	3.8	4.2	4.5	5.0
30.0	3.3	3.4	-	-	-	2.8	3.1	3.3	3.5	-	2.3	2.7	3.0	3.4	-	1.9	2.4	2.7	3.2	3.4	2.0	2.5	2.9	3.4	3.7	4.1
32.0	-	-	-	-	-	2.0	2.3	2.5	-	-	1.7	2.0	2.3	2.6	-	1.3	1.7	2.0	2.4	-	1.4	1.8	2.2	2.6	2.8	3.1
34.0	-	-	-	-	-	1.5	1.7	1.8	-	-	1.1	1.4	1.6	1.8	-	-	-	1.1	1.4	1.7	-	1.2	1.5	1.9	-	-
36.0	-	-	-	-	-	1.0	-	-	-	-	-	-	1.0	-	-	-	-	-	1.0	-	-	-	1.0	1.2	-	-

B = Working radius

NOTES:

1. The total rated loads shown are for the case when the outriggers are set horizontally on firm 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 slings and hooks (255kg for a 15 ton capacity hook and 190kg for a 5.5 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.
4. Free-fall operation must not be performed since it may lead to damages or toppling of the crane.
5. The chart below shows the standard number of part lines for each boom length. The load per line should not exceed 5.5t.

A	16.0m	21.3m	26.6m	31.9m	35.5m	39.0m
H	3	3	3	2	2	2

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

Extra weight specifications
[16.0m LUFFING JIB]
(Over front)

Unit : ton

B (m)	Outriggers fully extended + Front jack (Over front)																													
	16.0 m BOOM			21.3 m BOOM			26.6 m BOOM			31.9 m BOOM			35.5 m BOOM			39.0 m BOOM														
	Tilt angle			Tilt angle			Tilt angle			Tilt angle			Tilt angle			Tilt angle														
	10°	20°	30°	45°	60°	10°	20°	30°	45°	60°	10°	20°	30°	45°	60°	10°	20°	30°	45°	60°	10°	20°	30°	45°	60°					
12.0	-	-	11.7			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
14.0	-	10.7	11.0			-	10.9	11.6			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
16.0	8.2	8.9	9.6	9.2		-	8.5	9.3	9.7		-	8.2	9.0			-	8.8				-	-	-	-	-	6.5				
18.0	6.5	7.1	7.7	8.4	8.2	6.1	6.7	7.3	8.2	6.5	-	6.4	7.1	8.0		-	6.1	6.9	7.8		-	-	-	-	-	6.0				
20.0	5.2	5.7	6.2	6.8	6.0	4.8	5.3	5.8	6.5	6.3	4.4	5.0	5.6	6.3	6.5	-	4.7	5.4	6.2	6.7	-	-	-	-	-	4.9	5.6	6.4		
22.0	4.2	4.6	5.0	5.4	5.7	3.7	4.2	4.7	5.2	5.0	3.2	3.9	4.4	5.0	5.5	-	3.6	4.2	4.9	5.4	-	-	-	-	-	3.8	4.4	5.1	5.6	
24.0	3.4	3.7	4.0	4.3		2.8	3.3	3.7	4.1	4.4	2.3	2.9	3.4	4.0	4.3		2.5	3.1	3.8	4.2		-	-	-	-	2.7	3.3	4.0	4.4	4.5
26.0	2.6	2.9	3.1	3.4		2.0	2.4	2.8	3.2	3.4		2.0	2.5	3.0	3.3				2.8	3.2		-	-	-	-	2.4	3.0	3.4	3.5	
28.0	1.9	2.1	2.3				1.7	2.0	2.3				1.7	2.1	2.4					2.3		-	-	-	-	2.5			2.3	2.6
30.0									1.3	1.5												-	-	-	-					

B = Working radius

NOTES:

- The total rated loads shown are for the case when the outriggers are set horizontally on firm ground. The values above the bold lines are based on the crane strength while those below are based on the crane stability.
- The weights of slings and hooks (255kg for a 15 ton capacity hook and 190kg for a 5.5 ton capacity hook) are included in the total rated loads shown.
- The total rated load is based on the actual working radius including the deflection.
- Free-fall operation must not be performed since it may lead to damages or toppling of the crane.
- The chart below shows the standard number of part lines for each boom length. The load per line should not exceed 5.5t.

A	16.0m	21.3m	26.6m	31.9m	35.5m	39.0m
H	3	3	3	2	2	2

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

Extra weight specifications
[22.0m LUFFING JIB]
(Over rear · Over sides)

Unit : ton

B (m)	Outriggers fully extended + Front jack (Over rear · Over sides)																									
	16.0 m BOOM			21.3 m BOOM			26.6 m BOOM			31.8 m BOOM			35.5 m BOOM			39.0 m BOOM										
	Tilt angle			Tilt angle			Tilt angle			Tilt angle			Tilt angle			Tilt angle										
10°	20°	30°	45°	60°	10°	20°	30°	45°	60°	10°	20°	30°	45°	60°	10°	20°	30°	45°	60°	10°	20°	30°	45°	60°		
12.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
14.0	9.5	9.4	-	-	-	-	0.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
16.0	8.8	8.7	9.0	-	-	9.5	9.3	-	-	9.0	9.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
18.0	8.2	8.2	8.4	-	-	8.9	8.8	9.0	-	9.0	9.1	9.2	-	-	7.0	7.0	7.0	-	-	-	-	-	-	-	-	
20.0	7.7	7.7	8.0	6.5	-	8.4	8.3	8.5	-	8.1	8.7	8.8	-	-	6.6	6.8	7.0	-	-	-	-	-	-	-	-	
22.0	7.2	7.3	7.6	6.2	-	7.0	7.6	8.1	6.5	6.6	7.4	8.1	7.1	-	5.8	6.2	6.6	7.0	-	-	-	-	-	-	-	
24.0	6.3	6.8	7.2	5.8	4.2	5.8	8.4	7.0	6.2	4.4	5.5	6.2	6.8	6.8	4.8	5.1	5.5	5.9	6.7	-	-	-	-	-	-	
26.0	5.4	5.8	6.2	5.6	4.1	4.9	5.4	5.9	5.9	4.3	4.6	5.1	5.7	6.4	4.7	4.2	4.9	5.2	5.9	4.8	3.8	4.0	4.4	5.1	4.9	2.7
28.0	4.6	5.0	5.3	5.3	4.0	4.1	4.6	5.0	5.5	4.2	3.8	4.3	4.8	5.4	4.6	3.4	4.0	4.5	5.2	4.7	3.3	3.6	3.9	4.6	4.8	2.4
30.0	3.9	4.2	4.5	4.9	-	3.4	3.8	4.2	4.7	4.1	3.0	3.5	4.0	4.5	4.5	2.6	3.2	3.7	4.4	4.6	2.6	3.3	3.5	4.1	4.7	2.0
32.0	3.3	3.6	3.8	4.1	-	2.8	3.2	3.5	3.9	4.1	2.4	2.9	3.3	3.8	4.0	2.0	2.5	3.0	3.6	3.9	2.0	2.6	3.1	3.7	4.2	1.8
34.0	2.8	3.0	3.2	-	-	2.2	2.6	2.9	3.2	-	1.8	2.3	2.6	3.1	3.3	1.4	1.9	2.4	2.9	3.2	1.4	1.9	2.4	3.0	3.3	1.5
36.0	2.3	2.4	-	-	-	1.7	2.0	2.3	2.5	-	1.3	1.7	2.1	2.3	-	1.4	1.8	2.2	2.5	-	-	-	-	-	-	-
38.0	-	-	-	-	-	1.3	1.5	1.7	-	-	0.9	1.2	1.5	1.8	-	-	-	-	-	-	-	-	-	-	-	-
40.0	-	-	-	-	-	0.9	1.0	1.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

B = Working radius

NOTES:

1. The total rated loads shown are for the case when the outriggers are set horizontally on firm 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 slings and hooks (255kg for a 15 ton capacity hook and 190kg for a 5.5 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.
4. Free-fall operation must not be performed since it may lead to damages or toppling of the crane.
5. The chart below shows the standard number of part lines for each boom length. The load per line should not exceed 5.5t.

A	16.0m	21.3m	26.6m	31.9m	35.5m	39.0m
H	2	2	2	2	1	1

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

Extra weight specifications
[22.0m LUFFING JIB]
(Over front)

Unit : ton

B (m)	Outriggers fully extended + Front jack (Over front)																								
	16.0 m BOOM				21.3 m BOOM				26.6 m BOOM				31.9 m BOOM				35.5 m BOOM				39.0 m BOOM				
	Tilt angle		Tilt angle		Tilt angle		Tilt angle		Tilt angle		Tilt angle		Tilt angle		Tilt angle		Tilt angle		Tilt angle		Tilt angle		Tilt angle		
10°	20°	30°	45°	60°	10°	20°	30°	45°	60°	10°	20°	30°	45°	60°	10°	20°	30°	45°	60°	10°	20°	30°	45°	60°	
12.0	-																								
14.0	9.5	9.4																							
16.0	8.8	8.7	9.0																						
18.0	7.2	7.9	8.4																						
20.0	5.9	6.5	7.1	6.5																					
22.0	4.8	5.3	5.9	6.2																					
24.0	4.0	4.4	4.9	5.5	4.2	3.5	4.0	4.6	5.3	4.4	3.1	3.8	4.4	5.2	4.8	2.7	3.5	4.2	5.1						
26.0	3.2	3.6	4.0	4.6	4.1	2.7	3.2	3.7	4.3	4.3	2.2	2.9	3.5	4.2	4.7										
28.0	2.0	3.0	3.3	3.8	4.0	2.0	2.5	3.0	3.5	3.9															
30.0	2.0	2.4	2.7	3.0		1.4	1.9	2.3	2.8	3.1															
32.0	1.5	1.8	2.1	2.4		1.3	1.7	2.1	2.4																
34.0	1.0	1.2	1.5						1.5																

B = Working radius

NOTES:

- The total rated loads shown are for the case when the outriggers are set horizontally on firm ground. The values above the bold lines are based on the crane strength while those below are based on the crane stability.
- The weights of slings and hooks (255kg for a 15 ton capacity hook and 190kg for a 5.5 ton capacity hook) are included in the total rated loads shown.
- The total rated load is based on the actual working radius including the deflection.
- Free-fall operation must not be performed since it may lead to damages or toppling of the crane.
- The chart below shows the standard number of part lines for each boom length. The load per line should not exceed 5.5t.

A	16.0m	21.3m	26.6m	31.9m	35.5m	39.0m
H	2	2	2	2	1	1

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

Extra weight specifications
[28.0m LUFFING JIB]
(Over rear · Over sides)

Unit : ton

B (m)	Outriggers fully extended + Front jack (Over rear · Over sides)																								
	16.0 m BOOM				21.3 m BOOM				26.6 m BOOM				31.9 m BOOM				35.5 m BOOM				39.0 m BOOM				
	Tilt angle		Tilt angle		Tilt angle		Tilt angle		Tilt angle		Tilt angle		Tilt angle		Tilt angle		Tilt angle		Tilt angle		Tilt angle		Tilt angle		
10°	20°	30°	45°	60°	10°	20°	30°	45°	60°	10°	20°	30°	45°	60°	10°	20°	30°	45°	60°	10°	20°	30°	45°	60°	
12.0	8.5				7.7																				
14.0	8.5				7.7					4.6															
16.0	7.9	7.9			7.7	8.0				4.6															
18.0	7.4	7.3			7.7	7.6				4.6	4.8														
20.0	6.9	6.9	7.1		7.4	7.3	6.7			4.6	4.8														
22.0	6.4	6.5	6.7		7.0	6.9	6.3			4.6	4.8	5.0													
24.0	6.0	6.1	6.3		6.3	6.5	6.0			4.6	4.8	5.0													
26.0	5.7	5.8	6.0	4.9	5.4	6.0	5.7	5.1		5.0	5.7	5.5	4.6												
28.0	5.1	5.5	5.8	4.6	3.3	4.6	5.1	5.4	4.8	4.2	4.8	5.3	4.4												
30.0	4.4	4.8	5.2	4.4	3.1	3.0	4.4	4.9	4.6	3.5	4.1	4.6	4.3	3.5	3.1	3.3	3.7	4.3							
32.0	3.8	4.1	4.5	4.2	3.0	3.3	3.7	4.2	4.4	3.2	2.8	3.4	3.9	4.1	3.4	2.5	3.0	3.4	4.0	3.6	2.0	2.3	2.5	3.2	3.7
34.0	3.3	3.6	3.9	4.0	2.9	2.8	3.2	3.6	4.1	3.1	2.3	2.8	3.3	3.9	3.3	2.0	2.6	3.0	3.6	3.5	1.8	2.0	2.2	2.9	3.6
36.0	2.8	3.1	3.3	3.7		2.3	2.7	3.0	3.5	3.0	1.8	2.3	2.7	3.3	3.2	1.5	2.0	2.6	3.2	3.5	1.4	1.7	2.0	2.5	3.4
38.0	2.4	2.6	2.8	3.1		1.8	2.2	2.5	2.9	3.0	1.3	1.8	2.2	2.7	3.0		1.5	2.0	2.7	3.0		1.5	1.8	2.3	3.0
40.0	2.0	2.2	2.3			1.4	1.7	2.0	2.3		0.9	1.3	1.7	2.2	2.4							1.5	2.1	2.5	
42.0	1.6	1.7				1.0	1.3	1.6	1.8		0.9	1.2	1.6									1.6	1.9		
44.0							0.9	1.1					1.1									1.4			

B = Working radius

NOTES:

1. The total rated loads shown are for the case when the outriggers are set horizontally on firm 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 slings and hooks (255kg for a 15 ton capacity hook and 190kg for a 5.5 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.
4. Free-fall operation must not be performed since it may lead to damages or topping of the crane.
5. The chart below shows the standard number of part lines for each boom length. The load per line should not exceed 5.5t.

A	16.0m	21.3m	26.6m	31.9m	35.5m	39.0m
H	2	2	2	1	1	1

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

Extra weight specifications
[28.0m LUFFING JIB]
(Over front)

Unit : ton

B (m)	Outriggers fully extended + Front jack (Over front)																								
	16.0 m BOOM				21.3 m BOOM				26.6 m BOOM				31.9 m BOOM				35.5 m BOOM				39.0 m BOOM				
	Tilt angle		Tilt angle		Tilt angle		Tilt angle		Tilt angle		Tilt angle		Tilt angle		Tilt angle		Tilt angle		Tilt angle		Tilt angle				
10°	20°	30°	45°	60°	10°	20°	30°	45°	60°	10°	20°	30°	45°	60°	10°	20°	30°	45°	60°	10°	20°	30°	45°	60°	
12.0	8.5				7.7																				
14.0	8.5				7.7				6.2						4.6										
16.0	7.9	7.9			7.7	8.0			6.2						4.6						3.8				
18.0	7.4	7.3			7.3	7.6			6.2	6.5					4.6	4.8					3.8				
20.0	6.4	6.9	7.1		5.9	6.8	6.7		5.5	6.5					4.6	4.8					3.8	4.0			
22.0	5.3	5.9	6.8		4.8	5.6	6.3		4.4	5.3	6.0				4.3	4.8	5.0				3.5	4.0			
24.0	4.4	5.0	5.0		3.9	4.6	5.3		3.6	4.3	5.1				3.4	4.2	5.0				3.3	3.6	4.2		
26.0	3.7	4.2	4.7	4.0	3.2	3.8	4.4	5.1	2.8	3.5	4.2	4.6			2.5	3.4	4.1				3.2	3.6			
28.0	3.1	3.5	4.0	4.6	3.3	2.5	3.2	3.7	2.1	2.8	3.4	4.3			2.7	3.4	4.3				2.7	3.3	4.0		
30.0	2.5	2.9	3.3	3.9	3.1	1.9	2.5	3.0	3.7	3.3					2.7	3.5					2.7	3.3	4.0		
32.0	2.0	2.4	2.8	3.3	3.0	1.4	2.0	2.5	3.1	3.2					2.2	2.9	3.4				2.9	3.4			
34.0	1.5	1.9	2.3	2.7	2.9		1.4	1.9	2.5	2.9					2.3	2.8					2.2	2.8			
36.0	1.1	1.5	1.8	2.2			1.4	1.9	2.3						1.7	2.2					2.2				
38.0		1.0	1.3	1.6																					

B = Working radius

NOTES:

1. The total rated loads shown are for the case when the outriggers are set horizontally on firm 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 slings and hooks (255kg for a 15 ton capacity hook and 190kg for a 5.5 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.
4. Free-fall operation must not be performed since it may lead to damages or toppling of the crane.
5. The chart below shows the standard number of part lines for each boom length. The load per line should not exceed 5.5t.

A	16.0m	21.3m	26.6m	31.9m	35.5m	39.0m
H	2	2	2	1	1	1

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

Extra weight specifications
[34.0m LUFFING JIB]
(Over rear · Over sides)

Unit : ton

B (m)	Outriggers fully extended + Front jack (Over rear · Over sides)																									
	16.0 m BOOM				21.3 m BOOM				26.6 m BOOM				31.9 m BOOM				35.5 m BOOM				39.0 m BOOM					
	Tilt angle		Tilt angle		Tilt angle		Tilt angle		Tilt angle		Tilt angle		Tilt angle		Tilt angle		Tilt angle		Tilt angle		Tilt angle					
10°	20°	30°	45°	60°	10°	20°	30°	45°	60°	10°	20°	30°	45°	60°	10°	20°	30°	45°	60°	10°	20°	30°	45°	60°		
14.0	5.5				5.0																					
16.0	5.5				5.0					4.1																
18.0	5.5	5.2			5.0					4.1																
20.0	5.3	5.0			5.0	5.2				4.1	4.5															
22.0	5.1	4.6			5.0	4.8				4.1	4.5															
24.0	4.7	4.3	3.8		5.0	4.5				4.1	4.5															
26.0	4.4	4.0	3.6		4.8	4.2	3.7			4.1	4.5	3.8														
28.0	4.2	3.8	3.4		4.5	4.0	3.5			3.9	4.2	3.6														
30.0	3.9	3.4	3.2	2.6	4.2	3.8	3.3			3.5	3.8	3.4														
32.0	3.7	3.3	3.0	2.4	3.7	3.5	3.1	2.6		3.2	3.5	3.2	2.6													
34.0	3.4	3.1	2.8	2.3	2.0	3.2	3.0	2.4		2.7	3.2	3.1	2.5													
36.0	3.1	2.9	2.6	2.3	1.9	2.7	3.1	2.8	2.3	2.0	2.2	2.8	2.9	2.4	2.0	1.8	2.1	2.3	2.4	2.0	0.9	1.1	1.4	2.0		
38.0	2.6	2.7	2.5	2.2	1.9	2.2	2.7	2.0	2.2	1.9	1.7	2.3	2.8	2.3	1.9	1.3	1.8	2.1	2.3	1.9	0.9	1.1	1.4	2.0		
40.0	2.2	2.6	2.4	2.1	1.9	1.8	2.2	2.4	2.2	1.9	1.3	1.8	2.3	2.2	1.9		1.5	2.0	2.3	1.9	0.9	1.1	1.5	1.9		
42.0	1.9	2.2	2.3	2.1		1.4	1.8	2.2	2.1	1.8	1.0	1.4	1.9	2.2	1.9			1.6	2.2	1.9						
44.0	1.6	1.8	2.0	2.0		1.1	1.4	1.8	2.0	1.8		1.0	1.5	2.0	1.8				2.0	1.8						
46.0	1.3	1.5	1.6			0.8	1.1	1.4	1.7				1.1	1.5	1.8				1.4	1.7						
48.0	1.0	1.1																								
50.0																										

B = Working radius

NOTES:

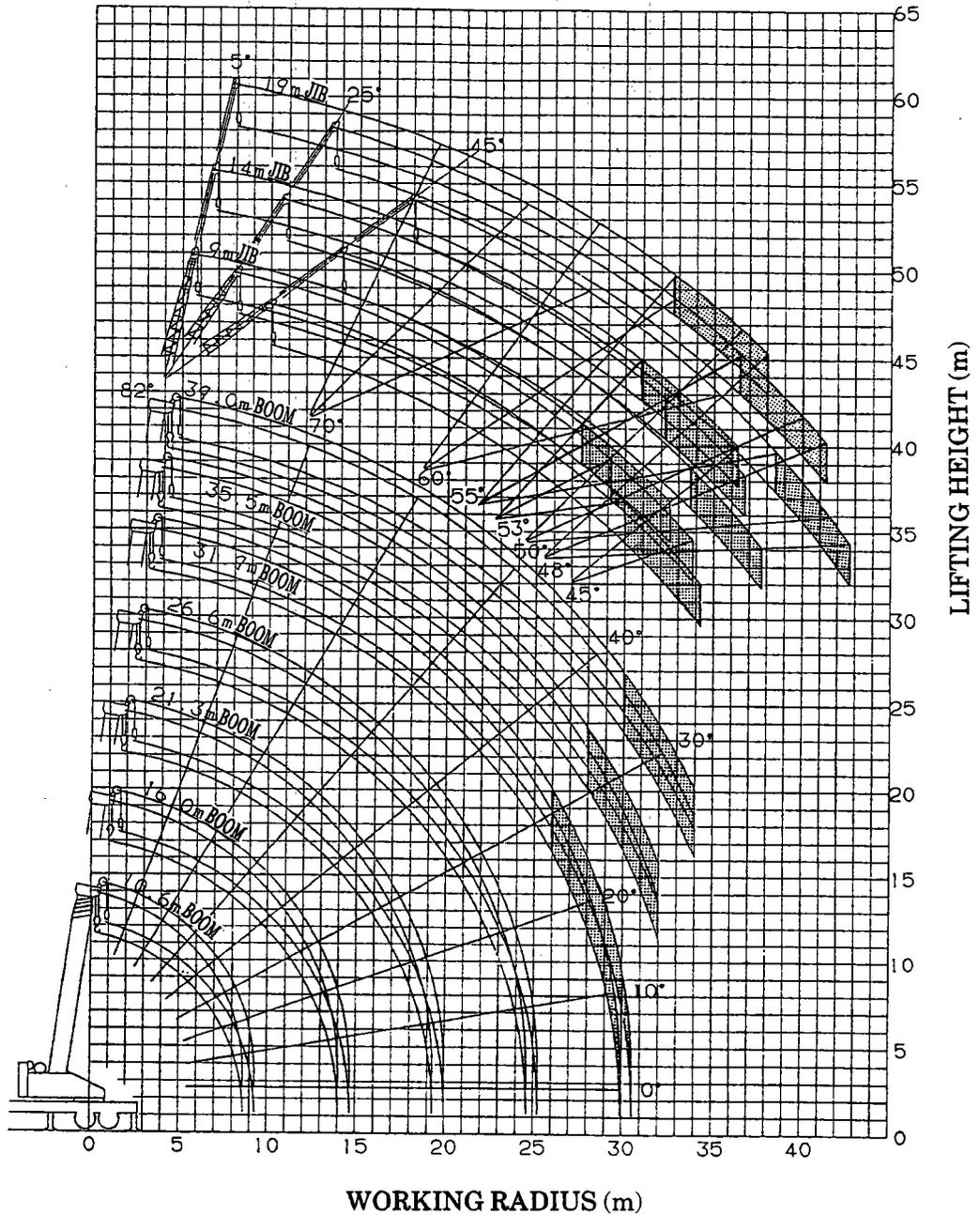
1. The total rated loads shown are for the case when the outriggers are set horizontally on firm ground. The values above the bold lines are based on the crane strength while those below are based on the crane stability.
2. The weights of slings and hooks (190kg for a 5.5 ton capacity hook) are included in the total rated loads shown.
3. The total rated load is based on the actual working radius including the deflection.
4. Free-fall operation must not be performed since it may lead to damages or toppling of the crane.
5. The chart below shows the standard number of part lines for each boom length. The load per line should not exceed 5.5t.

A	16.0m	21.3m	26.6m	31.9m	35.5m	39.0m
H	1	1	1	1	1	1

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

WORKING RADIUS - LIFTING HEIGHT

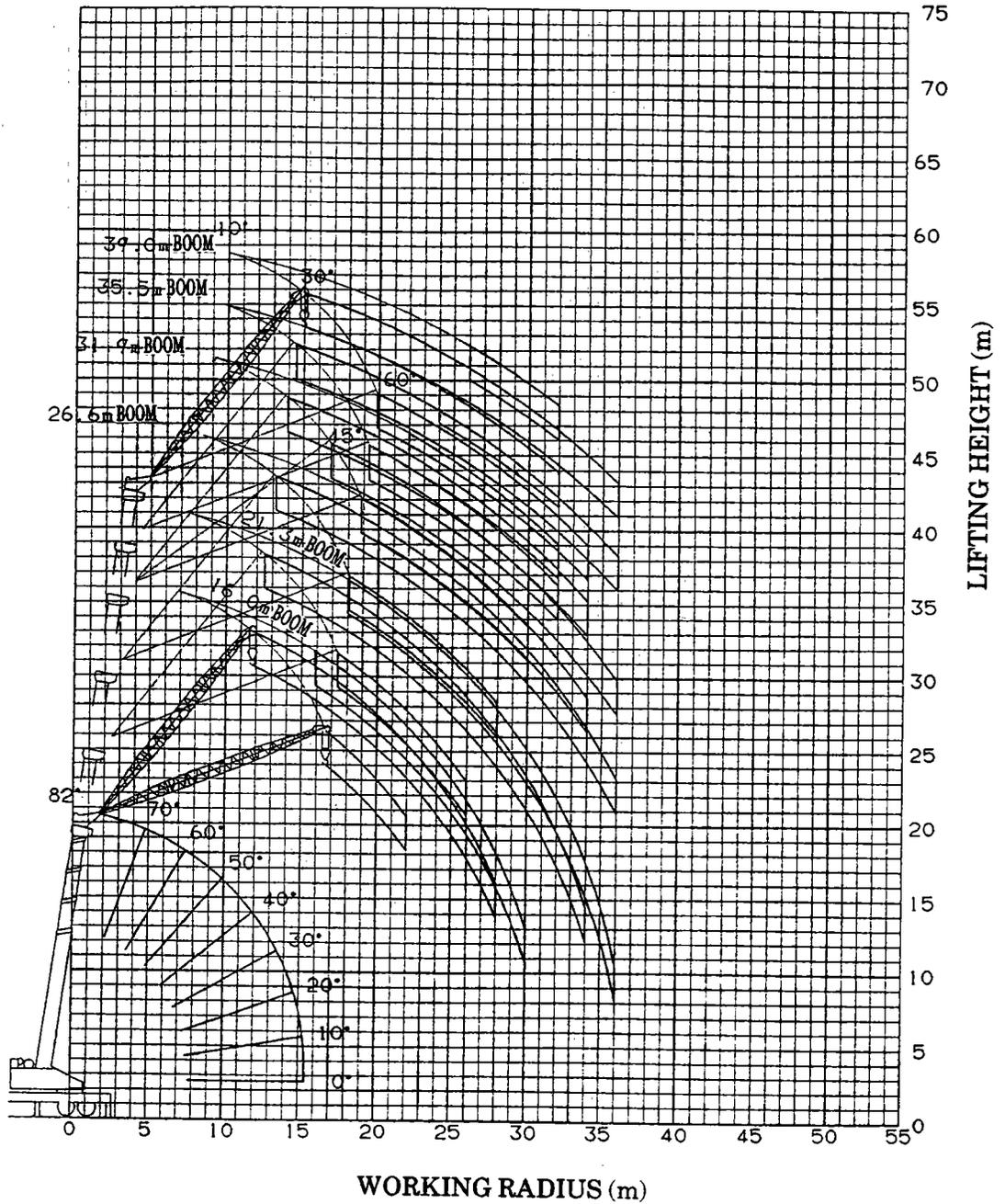
[BOOM, JIB]



NOTES:

1. The deflection of the boom is not incorporated in the figure above.
2. The figure above is for the case when the outriggers are fully extended (Over rear or sides).
3. The shaded area in the diagram applies only when the extra weight option is used.

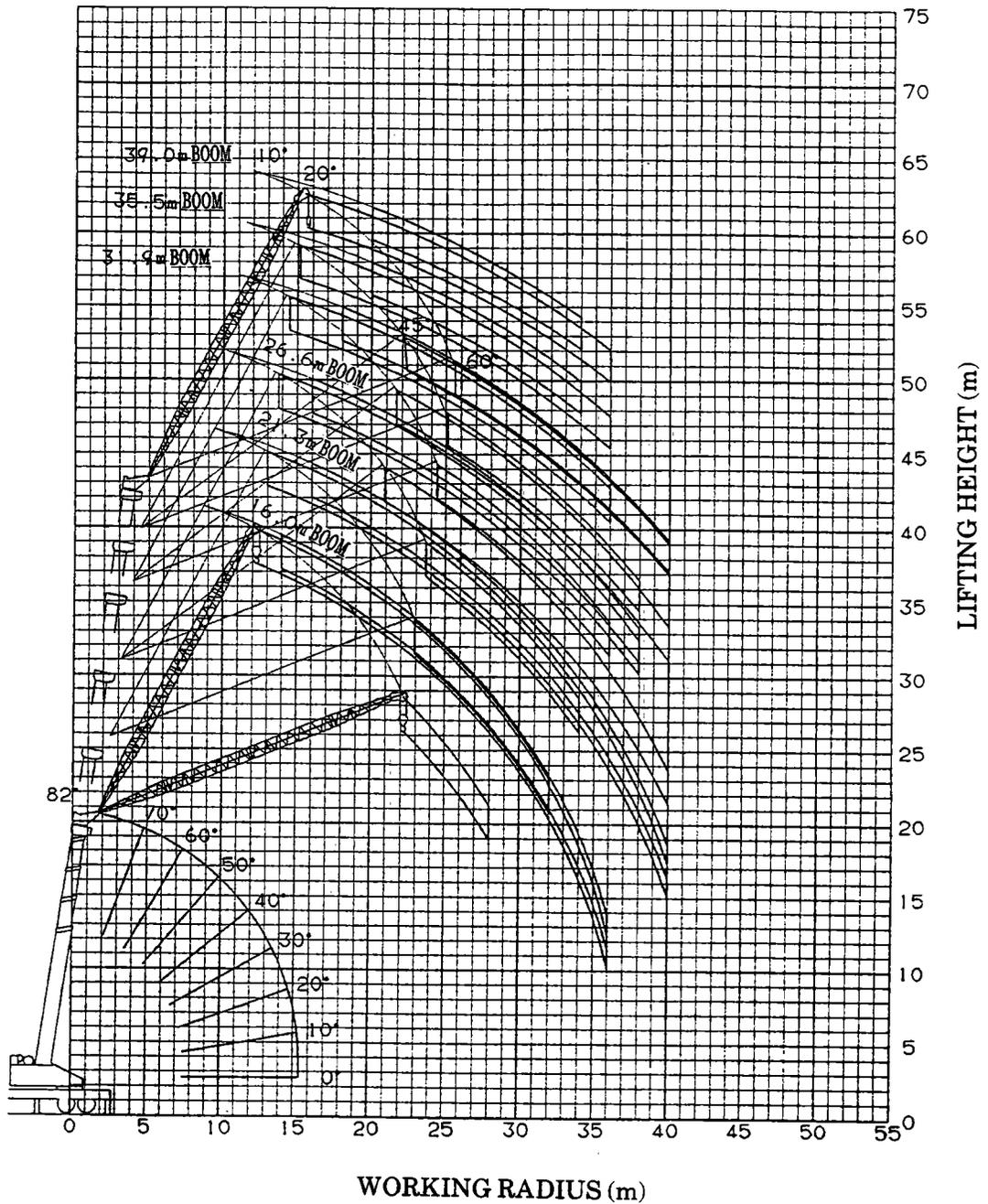
Extra weight specifications
[16.0m LUFFING JIB]



NOTES:

1. The deflection of the boom is not incorporated in the figure above.
2. The figure above is for the case when the outriggers are fully extended (Over rear or sides).

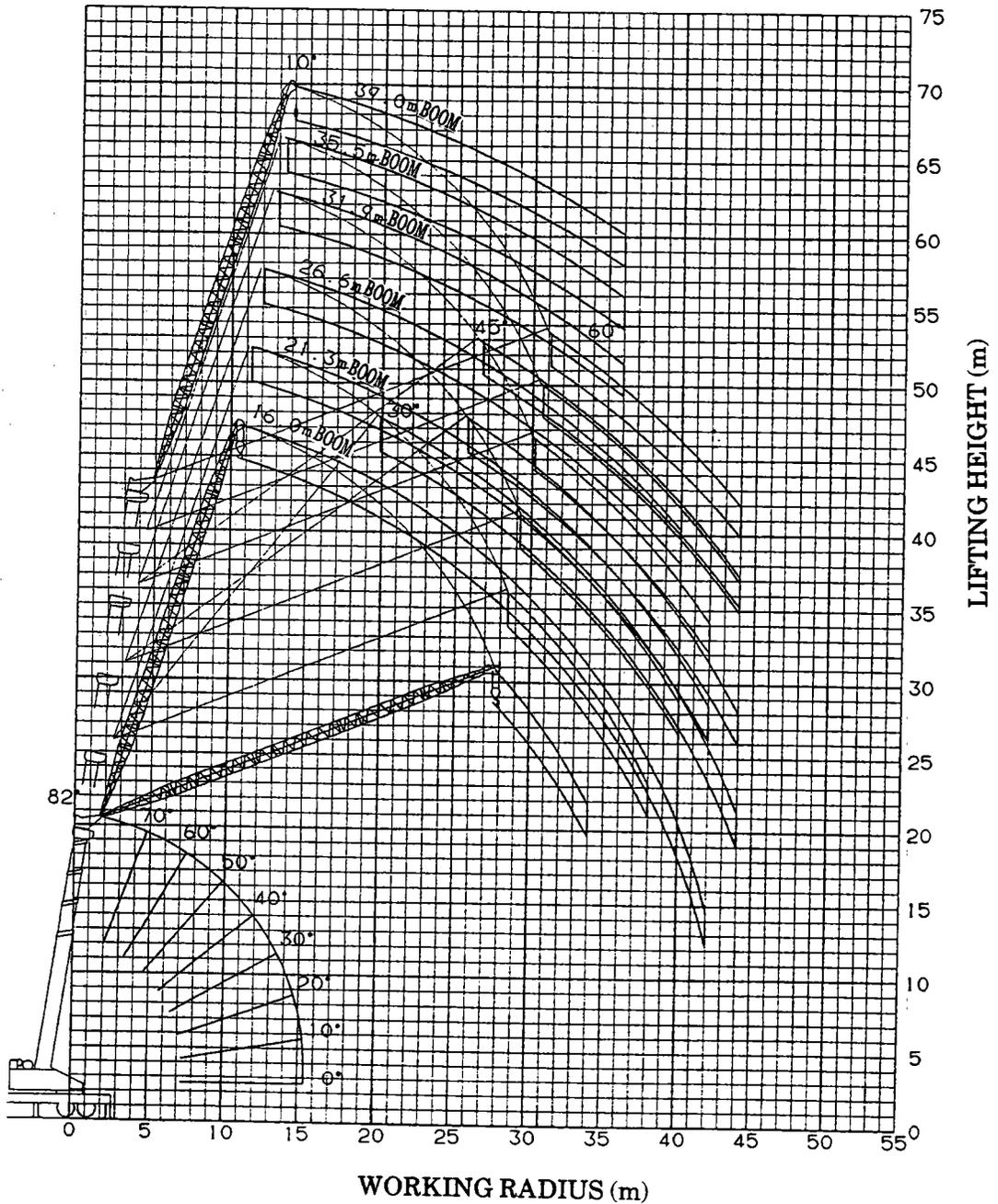
Extra weight specifications
[22.0m LUFFING JIB]



NOTES:

1. The deflection of the boom is not incorporated in the figure above.
2. The figure above is for the case when the outriggers are fully extended (Over rear or sides).

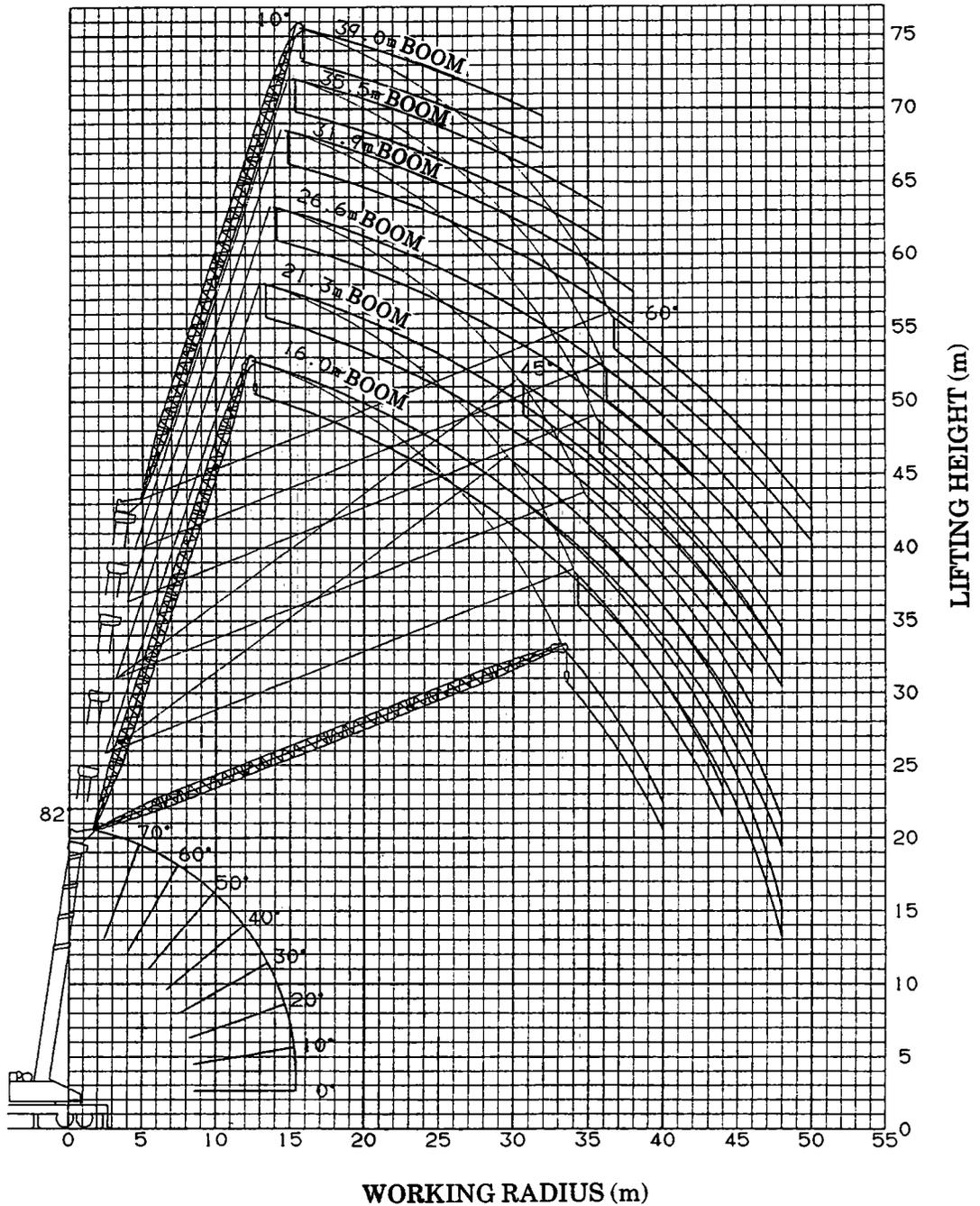
Extra weight specifications
[28.0m LUFFING JIB]



NOTES:

1. The deflection of the boom is not incorporated in the figure above.
2. The figure above is for the case when the outriggers are fully extended (Over rear or sides).

Extra weight specifications
[34.0m LUFFING JIB]



NOTES:

1. The deflection of the boom is not incorporated in the figure above.
2. The figure above is for the case when the outriggers are fully extended (Over rear or sides).

