

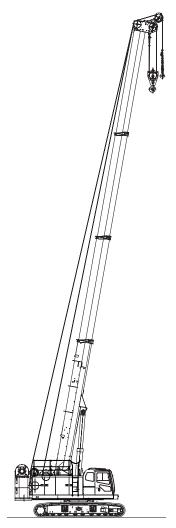
HYDRAULIC CRAWLER CRANE



Variation of The Attachment

Line Speed *	Front / Rear Winch	m/min	105
	Third Winch	,,	105
Boom Raising Speed*		sec/degree	52 / 0 to 78.0
Swing Speed		min ⁻¹ (rpm)	4.5
Travel Speed High / Low *		km/h	1.7 / 1.2
Gradeability		% (Degree)	30 (17)
Engine Model			ISUZU 6HK1 (Stage Ⅲ B, Int.Tier 4)
Engine Rated Output Power		kW/min ⁻¹ (ps/rpm)	210 / 1900 (285 / 1900)

Note: Speeds marked with "*" may vary depending on load applied.



Crane Specification (Boom Longest Length)

Boom Length	m	10 to 30.1	
O	kPa	92.4 (0.94)	
Ground Contact Pressure	(kgf/cm²)	(with 65 t hook)	
Ground Contact Pressure	kPa	93.4 (0.95)	
(When Third Winch Attached)	(kgf/cm²)	93.4 (0.93)	
Overall Operating Weight t		70.9 (with 65 t hook)	
Overall Operating Weight		71 7	
(When Third Winch Attached)	·	71.7	

VARIATION

Variation of The Attachment

2

SPECIFICATIONS)

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Specifications



Model	ISUZU 6HK1		
Type	4-cycle, Water-cooled, Direct injection, Turbo-charged,		
туре	Diesel engine		
Displacement	7.79 liters		
Rated Output	210 kW / 1,900 min ⁻¹ (285 ps / 1,900 rpm)		
Fuel Tank Capacity	400 liters		
Notes	Engine meets Stage III B / Int. Tier 4 of engine exhaust gas		
	emission regulations in USA, Europe, and Japan.		
	Engine rated horsepower is based on international rating		
	formula that includes engine alternator and without fan.		

Third Winch					
	22.4mm				
Standard	175 m				
Max.	260 m (With free fall)				
(In non-work)	280 m (Without free fall)				
Rated	69 kN				
	Free fall winch with brake controled by pedal				
	operation or winch without free fall (optional).				
	Max. (In non-work)				

Swing System

Consisted of hydraulic motor with reduction gear and multi-disc brakes and a swing bearing which has inner



Control

Control System	Main actuators are actuated by main hydraulic system controlled with pilot hydraulic system. Safety devices are securely operated by combined various electronic control with hydraulic system. Working speed can be precisely controlled according to control lever stroke and control dials depending on work.		
Control Levers	Designed and positioned based on ergonomics. Arm-chair lever type is standard.		
Display Panel Design	8 inches size. Located to check work state easily without disturbing the view of the operator.		



Counter Weight

	Total Weight	14.0 ton
Counter Weight	3.0 ton Base Weight	1 piece
(Without self assembly u	unit) 2.7 ton Right Weight	2 pieces
,	2.8 ton Left Weight	2 pieces
	Total Weight	13.6 ton
Counter Weight	2.6 ton Base Weight	1 piece
(With self assembly unit	2.7 ton Right Weight	2 pieces
	2.8 ton Left Weight	2 pieces



Hydraulic System

Hydraulic Oil Tank Capacity	800 liters			
	Max.	31.4 MPa		
	P1	266 L / min	Front winch, Third winch, Auger, Boom telescoping and Travel	
	P2	266 L / min	Rear winch, Auger, Boom hoist and Travel	
Hydraulic Pump Capacity	P3	152 L / min	Swing, Jack, Crawler sideframe extend-retract and External hydraulic power equipment B	
	P4	38 L / min		
	P5	38 L / min	Pilot control, External hydraulic	
	P6	38 L / min	power equipment A and others.	
	P7	30 L / min		



Carbody

Welded steel construction with crawler sideframe extendretract cylinders.



Crawler Sideframe

Frame	Welded steel box construction, and can be retracted.			
Shoe	Cast iron 760 mm width shoe each side.			
Upper Roller	2 pieces each side.			
	10 pieces each side.			
Lower Roller	Forging heat treated steel with double flange type. 2 plane bearing with floating seal for lifetime lubrication.			
	1 piece each side.			
	Hydraulic travel device (Hydrayulic motor and reducer)			
Travel Device	Travel speed	High: 1.7 km/h		
	(Gradability : 30%)	Low: 1.2 km/h		

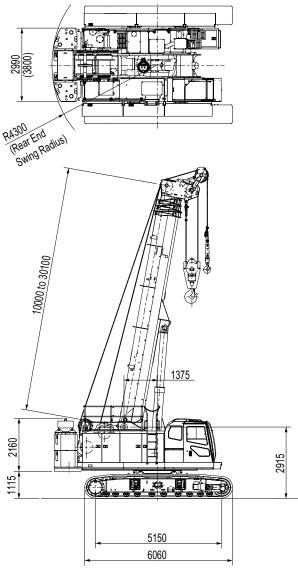
Winch

Front and Rear Winch						
Winch		Front	Rear			
Rope Diameter		22.4mm	22.4mm			
Rope Winding	Standard	175 m	175 m (Optional : 76 m)	for Aux. sheave		
Length	Max. (In non-work)	260 m	260 m			
Line Pull	Rated	69 kN	69 kN			
Standard Equipment		Free fall winch with brake controled by pedal operation.				



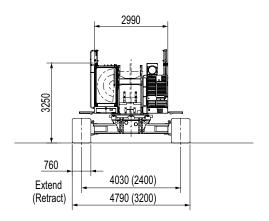
Crane Specifications

Dimensions and Specifications



Crane Specifications		
Max. Lifting Load × Working Radius	t × m	65×3.0
Basic Boom Length	m	10.0
Max. Boom Length	m	30.1
Ground Contact Pressure	kPa (kgf/cm²)	92.4 (0.94) (w / 65 t Hook)
Ground Contact Pressure (When Third Winch Attached)	kPa (kgf/cm²)	93.4 (0.95)
Overall Operating Weight	t	70.9 (w / 65 t Hook)
Overall Operating Weight (When Third Winch Attached)	t	71.7

NOTE: Data is expressed in SI units followed by conventional units in ().

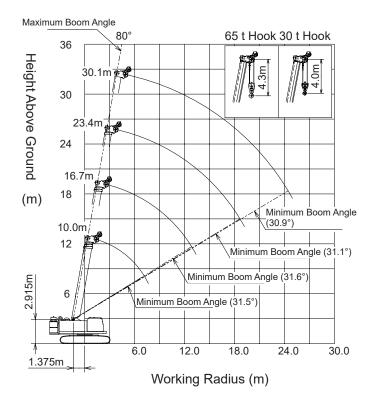


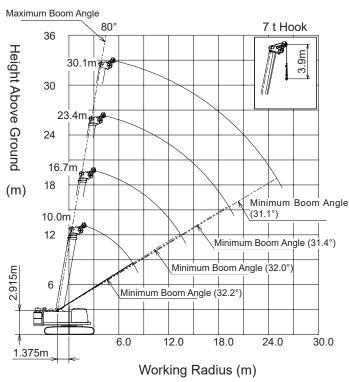
Hook Weight	
65 t	800 kg
30 t	520 kg
7 t	105 kg

Working Ranges: Front Winch

■ Main Boom with Aux. Sheave

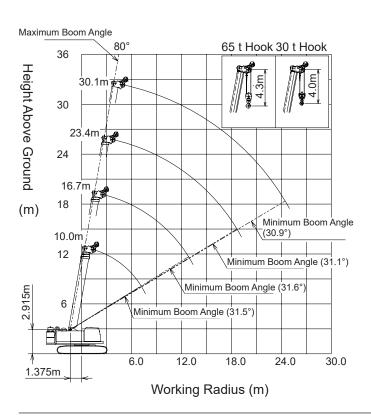
Aux. Sheave

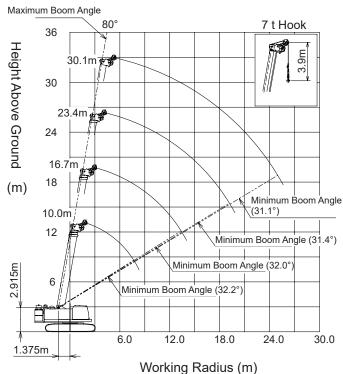




■ Main Boom with Aux. Sheave (2 Sheaves)

Aux.Sheave (2 Sheaves)

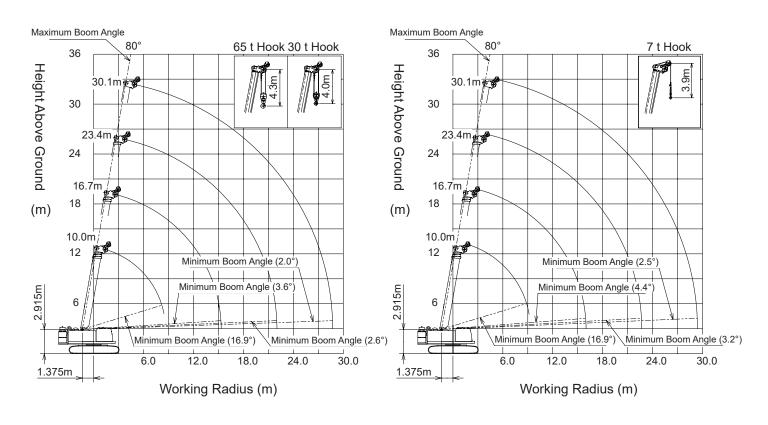




Working Ranges: Rear and Third Winch

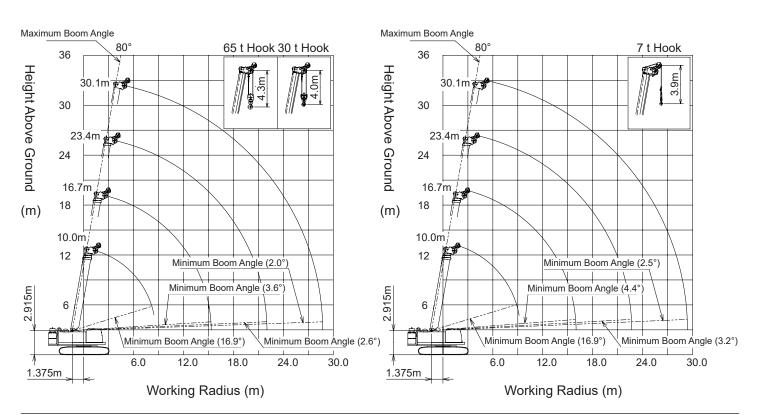
Main Boom with Aux. Sheave

■ Aux. Sheave (Rear Winch Only)



■ Main Boom with Aux. Sheave (2 Sheaves)

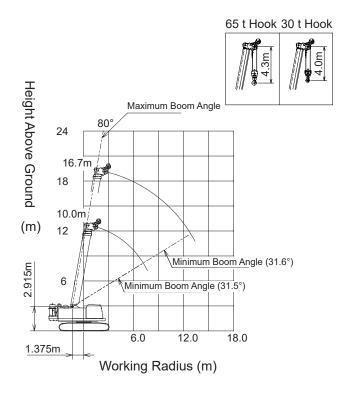
■ Aux.Sheave (2 Sheaves) (Rear Winch Only)

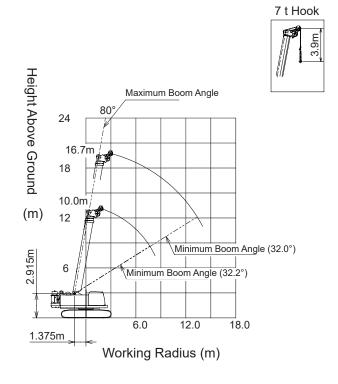


Working Ranges: Front Winch without Counter Weight

Main Boom with Aux. Sheave

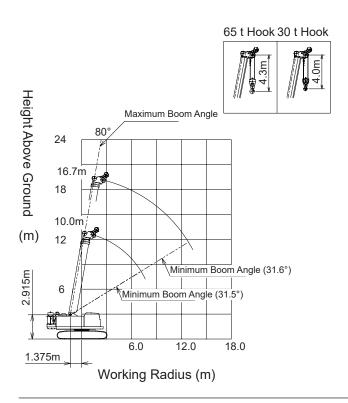
Aux. Sheave

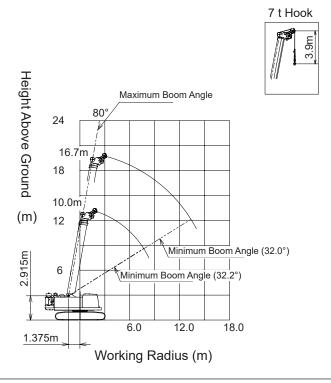




Main Boom with Aux. Sheave (2 Sheaves)

Aux.Sheave (2 Sheaves)

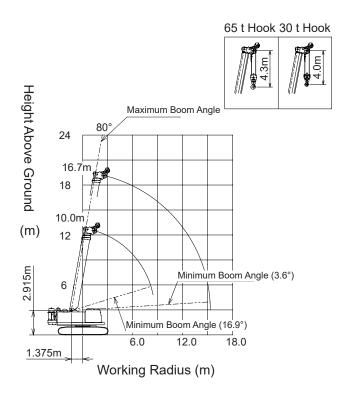


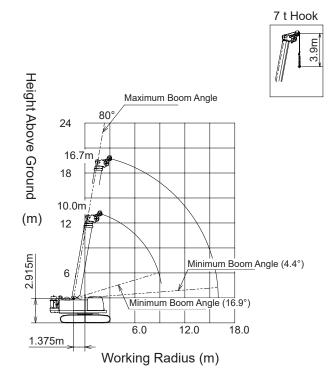


Working Ranges: Rear and Third Winch without Counter Weight

Main Boom with Aux. Sheave

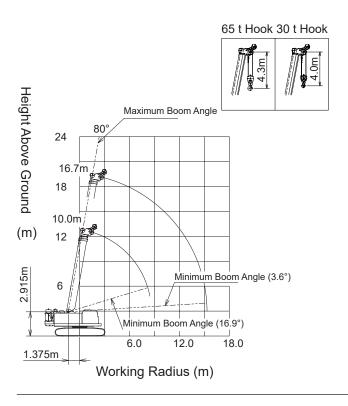
Aux. Sheave (Rear Winch Only)

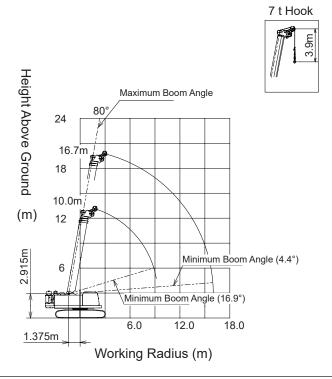




■ Main Boom with Aux. Sheave (2 Sheaves)

■ Aux.Sheave (2 Sheaves) (Rear Winch Only)

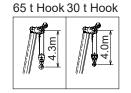


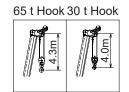


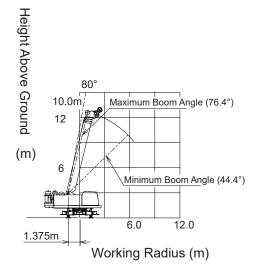
Working Ranges: When Jacking Up, Without Counter Weight

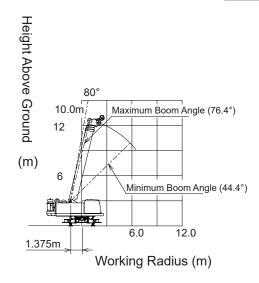
■ Main Boom with Aux. Sheave

■ Main Boom with Aux. Sheave (2 Sheaves)









Gross Rated Load Table

■ Main Boom with Aux. Sheave (Front Winch)



Working			Working		
Radius (m)	10.0	16.7	23.4	30.1	Radius (m)
2	65.0				2
2.5	65.0				2.5
3	65.0	32.0			3
3.5	55.0	32.0			3.5
4	48.0	32.0	26.0		4
4.5	41.5	32.0	26.0		4.5
5	37.0	30.5	26.0	16.0	5
5.5	34.0	28.8	25.0	16.0	5.5
6	32.5	26.5	23.0	16.0	6
7	26.3	23.0	20.2	16.0	7
8	7.7m x 22.5t	19.7	17.8	15.0	8
9		16.7	15.5	13.4	9
10		14.3	13.5	12.0	10
12		10.5	10.3	9.9	12
14		13.4m x 8.6t	7.9	8.0	14
16			6.0	6.5	16
18			4.6	5.2	18
20			19.2m x 3.9t	4.1	20
22				3.1	22
24				2.3	24
26				25.0m x 2.0t	26

- 1. The rated loads shown above are the value of the stationary loads on a firm and level surface, within 78% of tipping loads, and more than forward stability as specified in mobile crane structure specifications.
- 2. To calculate the maximum load that can actually be lifted, deduct mass of all lifting accessories, such as a hook, from figures shown above.
- 3. Capacities surrounded by bold lines are based on factors other than those which would cause a tipping condition.
- 4. Working radius is the horizontal distance from the slewing center to the center of gravity of a lifted load.
- 5. 14 ton counter weight is required for all capacities on this chart.
- 6. Correlation between the number of reeved lines, maximum rated loads, hook mass are shown in the table below.

Hook Capacity	Hook Mass		Maximum Rated Loads (t)						
(t)	(t)	10 falls	8 falls	6 falls	5 falls	4 falls	3 falls	2 falls	1 fall
65	0.80	65	56	42	-	28	-	14	
30	0.52	-		-	30	28	21	14	
7	0.11	-	-	-	-	-	-	-	7
Maximum Availabl	e Boom Length (m)	10	10	16.7	23.4	30.1	30.1	30.1	30.1

■ Main Boom with Aux. Sheave (Rear/Third Winch)



Working		Working			
Radius (m)	10.0	16.7	23.4	30.1	Radius (m)
2	65.0				2
2.5	65.0				2.5
3	65.0	32.0			3
3.5	55.0	32.0			3.5
4	48.0	32.0	26.0		4
4.5	41.5	32.0	26.0		4.5
5	37.0	30.5	26.0	16.0	5
5.5	34.0	28.8	25.0	16.0	5.5
6	32.5	26.5	23.0	16.0	6
7	26.3	23.0	20.2	16.0	7
8	21.0	19.7	17.8	15.0	8
9	8.5m x 18.9t	16.7	15.5	13.4	9
10	*8.7m x 7.0t	14.3	13.5	12.0	10
12		10.5	10.3	9.9	12
14		7.7	7.9	8.0	14
16		15.4m x 6.3t	6.0	6.5	16
18		*15.6m x 6.1t	4.6	5.2	18
20			3.4	4.1	20
22			2.3	3.1	22
24			22.1m x 2.3t	2.3	24
26			*22.3m x 2.2t	1.7	26
28				1.2	28
30				28.7m x 1.0t	30
				*29.0m x 0.9t	

- 1. The rated loads shown above are the value of the stationary loads on a firm and level surface, within 78% of tipping loads, and more than forward stability as specified in mobile crane structure specifications.
- 2. To calculate the maximum load that can actually be lifted, deduct mass of all lifting accessories, such as a hook, from figures shown above.
- 3. Capacities surrounded by bold lines are based on factors other than those which would cause a tipping condition.
- 4. Working radius is the horizontal distance from the slewing center to the center of gravity of a lifted load.
- 5. 14 ton counter weight is required for all capacities on this chart.
- 6. Correlation between the number of reeved lines, maximum rated loads, hook mass are shown in the table below.

Hook Capacity	Hook Mass		Maximum Rated Loads (t)						
(t)	(t)	10 falls	8 falls	6 falls	5 falls	4 falls	3 falls	2 falls	1 fall
65	0.80	65	56	42	-	28	-	14	-
30	0.52	-	-	-	30	28	21	14	-
7	0.11	-	-	-	-	-	-	-	7
Maximum Availabl	e Boom Length (m)	10	10	16.7	23.4	30.1	30.1	30.1	30.1

- 7. The weight when lifting with the third winch is the same as the gross rated load.
- 8. This table shows multiple fall values. However, the working radius marked with * shows a maximum working radius of 1 fall.

Aux. Sheave (Front Winch)



Working		Boom Length (m)					
Radius (m)	10.0	16.7	23.4	30.1	Radius (m)		
2.5	7.0				2.5		
3	7.0				3		
3.5	7.0	7.0			3.5		
4	7.0	7.0			4		
4.5	7.0	7.0	7.0		4.5		
5	7.0	7.0	7.0		5		
5.5	7.0	7.0	7.0	7.0	5.5		
6	7.0	7.0	7.0	7.0	6		
7	7.0	7.0	7.0	7.0	7		
8	7.0	7.0	7.0	7.0	8		
9	8.6m x 7.0t	7.0	7.0	7.0	9		
10		7.0	7.0	7.0	10		
12		7.0	7.0	7.0	12		
14		7.0	7.0	7.0	14		
16		14.3m x 7.0t	6.0	6.5	16		
18			4.6	5.2	18		
20			3.4	4.1	20		
22			20.1m x 3.3t	3.1	22		
24				2.3	24		
26				25.9m x 1.7t	26		

- 1. The rated loads shown above are the value of the stationary loads on a firm and level surface, within 78% of tipping loads, and more than forward stability as specified in mobile crane structure specifications.
- 2. To calculate the maximum load that can actually be lifted, deduct mass of all lifting accessories, such as a hook, from figures shown above.
- 3. Capacities surrounded by bold lines are based on factors other than those which would cause a tipping condition.
- 4. Working radius is the horizontal distance from the slewing center to the center of gravity of a lifted load.
- 5. 14 ton counter weight is required for all capacities on this chart.
- 6. Hook mass are shown in the table below.

Hook Capacity	Hook Mass
(t)	(t)
7	0.11

SPECIFICATIONS

■ Aux. Sheave (Rear Winch)



Working		Boom Length (m)						
Radius (m)	10.0	16.7	23.4	30.1	Working Radius (m)			
2.5	7.0				2.5			
3	7.0				3			
3.5	7.0	7.0			3.5			
4	7.0	7.0			4			
4.5	7.0	7.0	7.0		4.5			
5	7.0	7.0	7.0		5			
5.5	7.0	7.0	7.0	7.0	5.5			
6	7.0	7.0	7.0	7.0	6			
7	7.0	7.0	7.0	7.0	7			
8	7.0	7.0	7.0	7.0	8			
9	7.0	7.0	7.0	7.0	9			
10	9.5m x 7.0t	7.0	7.0	7.0	10			
12		7.0	7.0	7.0	12			
14		7.0	7.0	7.0	14			
16		5.6	6.0	6.5	16			
18		16.3m x 5.5t	4.6	5.2	18			
20			3.4	4.1	20			
22			2.3	3.1	22			
24		·	23.0m x 2.0t	2.3	24			
26				1.7	26			
28				1.2	28			
30				29.7m x 0.8t	30			

- 1. The rated loads shown above are the value of the stationary loads on a firm and level surface, within 78% of tipping loads, and more than forward stability as specified in mobile crane structure specifications.
- 2. To calculate the maximum load that can actually be lifted, deduct mass of all lifting accessories, such as a hook, from figures shown above.
- 3. Capacities surrounded by bold lines are based on factors other than those which would cause a tipping condition.
- 4. Working radius is the horizontal distance from the slewing center to the center of gravity of a lifted load.
- 5. 14 ton counter weight is required for all capacities on this chart.
- 6. Hook mass are shown in the table below.

Hook Capacity	Hook Mass
(t)	(t)
7	0.11

■ Main Boom with Aux. Sheave (2 Sheaves) (Front Winch)



Working		Working			
Radius (m)	10.0	16.7	23.4	30.1	Radius (m)
2	65.0				2
2.5	65.0				2.5
3	65.0	31.9			3
3.5	54.9	31.9			3.5
4	47.9	31.9	25.9		4
4.5	41.4	31.9	25.9		4.5
5	36.9	30.4	25.9	15.9	5
5.5	33.9	28.7	24.9	15.9	5.5
6	32.4	26.4	22.9	15.9	6
7	26.2	22.9	20.1	15.9	7
8	7.7m x 22.4t	19.6	17.7	14.9	8
9		16.6	15.4	13.3	9
10		14.2	13.4	11.9	10
12		10.4	10.2	9.8	12
14		13.4m x 8.5t	7.8	7.9	14
16			5.9	6.4	16
18			4.6	5.1	18
20			19.2m x 3.8t	4.0	20
22				3.0	22
24				2.2	24
26				25.0m x 1.9t	26

- 1. The rated loads shown above are the value of the stationary loads on a firm and level surface, within 78% of tipping loads, and more than forward stability as specified in mobile crane structure specifications.
- 2. To calculate the maximum load that can actually be lifted, deduct mass of all lifting accessories, such as a hook, from figures shown above.
- 3. Capacities surrounded by bold lines are based on factors other than those which would cause a tipping condition.
- 4. Working radius is the horizontal distance from the slewing center to the center of gravity of a lifted load.
- 5. 14 ton counter weight is required for all capacities on this chart.
- 6. Correlation between the number of reeved lines, maximum rated loads, hook mass are shown in the table below.

Hook Capacity	Hook Mass		Maximum Rated Loads (t)						
(t)	(t)	10 falls	8 falls	6 falls	5 falls	4 falls	3 falls	2 falls	1 fall
65	0.80	65	56	42	-	28	-	14	-
30	0.52	-	-	-	30	28	21	14	-
7	0.11	-	-	-	-	-	-	-	7
Maximum Availabl	e Boom Length (m)	10	10	16.7	23.4	30.1	30.1	30.1	30.1

■ Main Boom with Aux. Sheave (2 Sheaves) (Rear/Third Winch)



Jnit: ton

Working		Boom Lo	ength (m)		Working
Radius (m)	10.0	16.7	23.4	30.1	Radius (m)
2	65.0				2
2.5	65.0				2.5
3	65.0	31.9			3
3.5	54.9	31.9			3.5
4	47.9	31.9	25.9		4
4.5	41.4	31.9	25.9		4.5
5	36.9	30.4	25.9	15.9	5
5.5	33.9	28.7	24.9	15.9	5.5
6	32.4	26.4	22.9	15.9	6
7	26.2	22.9	20.1	15.9	7
8	20.9	19.6	17.7	14.9	8
9	8.5m x 18.8t	16.6	15.4	13.3	9
10	*8.7m x 7.0t	14.2	13.4	11.9	10
12		10.4	10.2	9.8	12
14		7.6	7.8	7.9	14
16		15.4m x 6.2t	5.9	6.4	16
18		*15.6m x 6.0t	4.5	5.1	18
20			3.3	4.0	20
22			2.2	3.0	22
24			22.1m x 2.2t	2.2	24
26			*22.3m x 2.1t	1.6	26
28				1.1	28
30				28.7m x 0.9t	30
				*29.0m x 0.8t	

- 1. The rated loads shown above are the value of the stationary loads on a firm and level surface, within 78% of tipping loads, and more than forward stability as specified in mobile crane structure specifications.
- 2. To calculate the maximum load that can actually be lifted, deduct mass of all lifting accessories, such as a hook, from figures shown above.
- 3. Capacities surrounded by bold lines are based on factors other than those which would cause a tipping condition.
- 4. Working radius is the horizontal distance from the slewing center to the center of gravity of a lifted load.
- 5. 14 ton counter weight is required for all capacities on this chart.
- 6. Correlation between the number of reeved lines, maximum rated loads, hook mass are shown in the table below.

Hook Capacity	Hook Mass				Maximum Ra	ated Loads (t	:)		
(t)	(t)	10 falls	8 falls	6 falls	5 falls	4 falls	3 falls	2 falls	1 fall
65	0.80	65	56	42	-	28	-	14	-
30	0.52	-	-	-	30	28	21	14	
7	0.11	-	-	-	-	-	-	-	7
Maximum Availabl	e Boom Length (m)	10	10	16.7	23.4	30.1	30.1	30.1	30.1

- 7. The weight when lifting with the third winch is the same as the gross rated load.
- 8. This table shows multiple fall values. However, the working radius marked with * shows a maximum working radius of 1 fall.

■ Aux. Sheave (2 Sheaves) (Front Winch)



Working	Boom Length (m)				Working
Radius (m)	10.0	16.7	23.4	30.1	Radius (m)
2.5	7.0				2.5
3	7.0				3
3.5	7.0	7.0			3.5
4	7.0	7.0			4
4.5	7.0	7.0	7.0		4.5
5	7.0	7.0	7.0		5
5.5	7.0	7.0	7.0	7.0	5.5
6	7.0	7.0	7.0	7.0	6
7	7.0	7.0	7.0	7.0	7
8	7.0	7.0	7.0	7.0	8
9	8.6m x 7.0t	7.0	7.0	7.0	9
10		7.0	7.0	7.0	10
12		7.0	7.0	7.0	12
14		7.0	7.0	7.0	14
16		14.3m x 7.0t	5.9	6.4	16
18			4.5	5.1	18
20			3.3	4.0	20
22			20.1m x 3.2t	3.0	22
24				2.2	24
26				25.9m x 1.6t	26

- 1. The rated loads shown above are the value of the stationary loads on a firm and level surface, within 78% of tipping loads, and more than forward stability as specified in mobile crane structure specifications.
- 2. To calculate the maximum load that can actually be lifted, deduct mass of all lifting accessories, such as a hook, from figures shown above.
- 3. Capacities surrounded by bold lines are based on factors other than those which would cause a tipping condition.
- 4. Working radius is the horizontal distance from the slewing center to the center of gravity of a lifted load.
- 5. 14 ton counter weight is required for all capacities on this chart.
- 6. Hook mass are shown in the table below.

Hook Capacity	Hook Mass
(t)	(t)
7	0.11

Aux. Sheave (2 Sheaves) (Rear Winch)



Working		Boom Le	ength (m)		Working
Radius (m)	10.0	16.7	23.4	30.1	Radius (m)
2.5	7.0				2.5
3	7.0				3
3.5	7.0	7.0			3.5
4	7.0	7.0			4
4.5	7.0	7.0	7.0		4.5
5	7.0	7.0	7.0		5
5.5	7.0	7.0	7.0	7.0	5.5
6	7.0	7.0	7.0	7.0	6
7	7.0	7.0	7.0	7.0	7
8	7.0	7.0	7.0	7.0	8
9	7.0	7.0	7.0	7.0	9
10	9.5m x 7.0t	7.0	7.0	7.0	10
12		7.0	7.0	7.0	12
14		7.0	7.0	7.0	14
16		5.5	5.9	6.4	16
18		16.3m x 5.4t	4.5	5.1	18
20			3.3	4.0	20
22			2.2	3.0	22
24			23.0m x 1.9t	2.2	24
26				1.6	26
28				1.1	28
30				29.7m x 0.7t	30

- 1. The rated loads shown above are the value of the stationary loads on a firm and level surface, within 78% of tipping loads, and more than forward stability as specified in mobile crane structure specifications.
- 2. To calculate the maximum load that can actually be lifted, deduct mass of all lifting accessories, such as a hook, from figures shown above.
- 3. Capacities surrounded by bold lines are based on factors other than those which would cause a tipping condition.
- 4. Working radius is the horizontal distance from the slewing center to the center of gravity of a lifted load.
- 5. 14 ton counter weight is required for all capacities on this chart.
- 6. Hook mass are shown in the table below.

Hook Capacity	Hook Mass
(t)	(t)
7	0.11

Main Boom with Aux. Sheave (Front Winch without Counter Weight)



Working Radius (m)	Boom L 10.0	ength (m) 16.7	Working Radius (m)
2	26.0	10.7	2
2.5	26.0		2.5
3	26.0	19.0	3
3.5	26.0	19.0	3.5
4	26.0	19.0	4
4.5	26.0	19.0	4.5
5	21.8 19.0		5
5.5	18.0	16.5	5.5
6	15.3	14.0	6
7	11.4	10.5	7
8	7.7m x 9.5t	8.2	8
9		6.5	9
10		5.3	10
12		3.6	12
14		13.4m x 2.7t	14

- 1. The rated loads shown above are the value of the stationary loads on a firm and level surface, within 78% of tipping loads, and more than forward stability as specified in mobile crane structure specifications.
- 2. To calculate the maximum load that can actually be lifted, deduct mass of all lifting accessories, such as a hook, from figures shown above.
- 3. Working radius is the horizontal distance from the slewing center to the center of gravity of a lifted load.
- 4. Correlation between the number of reeved lines, maximum rated loads, hook mass are shown in the table below.

Hook Capacity	Hook Mass				Maximum Ra	ated Loads (t	:)		
(t)	(t)	10 falls	8 falls	6 falls	5 falls	4 falls	3 falls	2 falls	1 fall
65	0.80	65	56	42	-	28	-	14	-
30	0.52	-	-	-	30	28	21	14	-
7	0.11	-		-	-	-		-	7
Maximum Availabl	e Boom Length (m)	10	10	16.7	23.4	30.1	30.1	30.1	30.1

Main Boom with Aux. Sheave (Rear/Third Winch without Counter Weight)



Unit: ton

Working	Boom L	ength (m)	Working
Radius (m)	10.0	16.7	Radius (m)
2	26.0		2
2.5	26.0		2.5
3	26.0	19.0	3
3.5	26.0	19.0	3.5
4	26.0	19.0	4
4.5	26.0	19.0	4.5
5	21.8	19.0	5
5.5	18.0	16.5	5.5
6	15.3	14.0	6
7	11.4	10.5	7
8	8.7	8.2	8
9	8.5m x 7.5t	6.5	9
10	*8.7m x 6.9t	5.3	10
12		3.6	12
14		2.2	14
16		15.4m x 1.3t	16
		*15.6m x 1.1t	

- 1. The rated loads shown above are the value of the stationary loads on a firm and level surface, within 78% of tipping loads, and more than forward stability as specified in mobile crane structure specifications.
- 2. To calculate the maximum load that can actually be lifted, deduct mass of all lifting accessories, such as a hook, from figures shown above.
- 3. Working radius is the horizontal distance from the slewing center to the center of gravity of a lifted load.
- 4. Correlation between the number of reeved lines, maximum rated loads, hook mass are shown in the table below.

Hook Capacity	Hook Mass				Maximum Ra	ated Loads (1	t)		
(t)	(t)	10 falls	8 falls	6 falls	5 falls	4 falls	3 falls	2 falls	1 fall
65	0.80	65	56	42	-	28	-	14	-
30	0.52	-	ı	-	30	28	21	14	-
7	0.11	-		-	-	-	-	-	7
Maximum Availabl	e Boom Length (m)	10	10	16.7	23.4	30.1	30.1	30.1	30.1

- 5. The weight when lifting with the third winch is the same as the gross rated load.
- 6. This table shows multiple fall values. However, the working radius marked with * shows a maximum working radius of 1 fall.

Aux. Sheave (Front Winch without Counter Weight)



Unit: ton

Working		ength (m)	Working
Radius (m)	10.0	16.7	Radius (m)
2.5	7.0		2.5
3	7.0		3
3.5	7.0	7.0	3.5
4	7.0	7.0	4
4.5	7.0	7.0	4.5
5	7.0	7.0	5
5.5	7.0	7.0	5.5
6	7.0	7.0	6
7	7.0	7.0	7
8	7.0	7.0	8
9	8.6m x 6.9t	6.5	9
10		5.3	10
12		3.6	12
14		2.2	14
16		14.3m x 2.0t	16

- 1. The rated loads shown above are the value of the stationary loads on a firm and level surface, within 78% of tipping loads, and more than forward stability as specified in mobile crane structure specifications.
- To calculate the maximum load that can actually be lifted, deduct mass of all lifting accessories, such as a hook, from figures shown above.
- 3. Capacities surrounded by bold lines are based on factors other than those which would cause a tipping condition.
- 4. Working radius is the horizontal distance from the slewing center to the center of gravity of a lifted load.
- 5. Hook mass are shown in the table below.

Hook Capacity	Hook Mass
(t)	(t)
7	0.11

■ Aux. Sheave (Rear Winch without Counter Weight)



Unit: ton

	1		Offic. tori
Working		ength (m)	Working
Radius (m)	10.0	16.7	Radius (m)
2.5	7.0		2.5
3	7.0		3
3.5	7.0	7.0	3.5
4	7.0	7.0	4
4.5	7.0	7.0	4.5
5	7.0	7.0	5
5.5	7.0	7.0	5.5
6	7.0	7.0	6
7	7.0	7.0	7
8	7.0	8	
9	5.8	6.5	9
10	9.5m x 5.0t	5.3	10
12		3.6	12
14		2.2	14
16		1.0	16
18		16.3m x 0.8t	18

- 1. The rated loads shown above are the value of the stationary loads on a firm and level surface, within 78% of tipping loads, and more than forward stability as specified in mobile crane structure specifications.
- 2. To calculate the maximum load that can actually be lifted, deduct mass of all lifting accessories, such as a hook, from figures shown above.
- 3. Capacities surrounded by bold lines are based on factors other than those which would cause a tipping condition.
- 4. Working radius is the horizontal distance from the slewing center to the center of gravity of a lifted load.
- 5. Hook mass are shown in the table below.

Hook Capacity	Hook Mass
(t)	(t)
7	0.11

■ Main Boom with Aux. Sheave (2 Sheaves) (Front Winch without Counter Weight)



Working	Boom L	ength (m)	Working
Radius (m)	10.0	16.7	Radius (m)
2	26.0		2
2.5	26.0		2.5
3	26.0	18.9	3
3.5	26.0	18.9	3.5
4	26.0	18.9	4
4.5	4.5 26.0		4.5
5	5 21.7		5
5.5	17.9 16.4		5.5
6	6 15.2		6
7	11.3	10.4	7
8	7.7m x 9.4t	8.1	8
9		6.4	9
10		5.2	10
12		3.5	12
14		13.4m x 2.6t	14

- 1. The rated loads shown above are the value of the stationary loads on a firm and level surface, within 78% of tipping loads, and more than forward stability as specified in mobile crane structure specifications.
- 2. To calculate the maximum load that can actually be lifted, deduct mass of all lifting accessories, such as a hook, from figures shown above.
- 3. Working radius is the horizontal distance from the slewing center to the center of gravity of a lifted load.
- 4. Correlation between the number of reeved lines, maximum rated loads, hook mass are shown in the table below.

Hook Capacity	Hook Mass		Maximum Rated Loads (t)						
(t)	(t)	10 falls	8 falls	6 falls	5 falls	4 falls	3 falls	2 falls	1 fall
65	0.80	65	56	42	-	28	-	14	-
30	0.52	-	-	-	30	28	21	14	-
7	0.11	-		-	-	-		-	7
Maximum Availabl	e Boom Length (m)	10	10	16.7	23.4	30.1	30.1	30.1	30.1

■ Main Boom with Aux. Sheave (2 Sheaves) (Rear/Third Winch without Counter Weight)



Working	Boom L	ength (m)	Working
Radius (m)	10.0	16.7	Radius (m)
2	26.0		2
2.5	26.0		2.5
3	26.0	18.9	3
3.5	26.0	18.9	3.5
4	26.0	18.9	4
4.5	26.0	18.9	4.5
5	21.7 18.9		5
5.5	17.9	16.4	5.5
6	15.2	13.9	6
7	11.3	10.4	7
8	8.6	8.1	8
9	8.5m x 7.4t	6.4	9
10	*8.7m x 6.8t	5.2	10
12		3.5	12
14		2.1	14
16		15.4m x 1.2t	16
		*15.6m x 1.0t	

- 1. The rated loads shown above are the value of the stationary loads on a firm and level surface, within 78% of tipping loads, and more than forward stability as specified in mobile crane structure specifications.
- To calculate the maximum load that can actually be lifted, deduct mass of all lifting accessories, such as a hook, from figures shown above.
- 3. Working radius is the horizontal distance from the slewing center to the center of gravity of a lifted load.
- 4. Correlation between the number of reeved lines, maximum rated loads, hook mass are shown in the table below.

Hook Capacity	Hook Mass		Maximum Rated Loads (t)						
(t)	(t)	10 falls	8 falls	6 falls	5 falls	4 falls	3 falls	2 falls	1 fall
65	0.80	65	56	42	-	28	-	14	-
30	0.52	-	-	-	30	28	21	14	-
7	0.11	-	-	-	-	-	-	-	7
Maximum Availabl	e Boom Length (m)	10	10	16.7	23.4	30.1	30.1	30.1	30.1

- 5. The weight when lifting with the third winch is the same as the gross rated load.
- 6. This table shows multiple fall values. However, the working radius marked with * shows a maximum working radius of 1 fall.

■ Aux. Sheave (2 Sheaves) (Front Winch without Counter Weight)



Unit: ton

Working Radius (m)	Boom L 10.0	ength (m) 16.7	Working Radius (m)
2.5	7.0		2.5
3	7.0		3
3.5	7.0	7.0	3.5
4	7.0	7.0	4
4.5	7.0	7.0	4.5
5	7.0	7.0	5
5.5	7.0	7.0	5.5
6	7.0	7.0	6
7	7.0	7.0	7
8	7.0	8	
9	8.6m x 6.8t	6.4	9
10		5.2	10
12		3.5	12
14		2.1	14
16		14.3m x 1.9t	16

- 1. The rated loads shown above are the value of the stationary loads on a firm and level surface, within 78% of tipping loads, and more than forward stability as specified in mobile crane structure specifications.
- 2. To calculate the maximum load that can actually be lifted, deduct mass of all lifting accessories, such as a hook, from figures shown above.
- 3. Capacities surrounded by bold lines are based on factors other than those which would cause a tipping condition.
- 4. Working radius is the horizontal distance from the slewing center to the center of gravity of a lifted load.
- 5. Hook mass are shown in the table below.

Hook Capacity	Hook Mass
(t)	(t)
7	0.11

■ Aux. Sheave (2 Sheaves) (Rear Winch without Counter Weight)



Unit: ton

Working	Boom L	ength (m)	Working
Radius (m)	10.0	16.7	Radius (m)
2.5	7.0		2.5
3	7.0		3
3.5	7.0	7.0	3.5
4	7.0	7.0	4
4.5	7.0	7.0	4.5
5	7.0	7.0	5
5.5	7.0	7.0	5.5
6	6 7.0		6
7	7 7.0		7
8	7.0	7.0	8
9	5.7	6.4	9
10	9.5m x 4.9t	5.2	10
12		3.5	12
14		2.1	14
16		0.9	16
18		16.3m x 0.7t	18

- 1. The rated loads shown above are the value of the stationary loads on a firm and level surface, within 78% of tipping loads, and more than forward stability as specified in mobile crane structure specifications.
- 2. To calculate the maximum load that can actually be lifted, deduct mass of all lifting accessories, such as a hook, from figures shown above.
- 3. Capacities surrounded by bold lines are based on factors other than those which would cause a tipping condition.
- 4. Working radius is the horizontal distance from the slewing center to the center of gravity of a lifted load.
- 5. Hook mass are shown in the table below.

Hook Capacity	Hook Mass
(t)	(t)
7	0.11

Main Boom with Aux. Sheave (When Jacking Up, Without Counter Weight)



Working	Boom Length (m)
Radius (m)	10.0
2	9.5
2.5	9.5
3	9.5
3.5	9.5
4	9.5
4.5	9.5
5	9.5
5.5	7.5
6	6.0
6.5	5.0

- 1. This gross rated load table is for the crawler side frame self removal/installation. Do not use this for other than self removal/installation.
- 2. The rated loads shown above are the value of the stationary loads on a firm and level surface, within 78% of tipping loads, and more than forward stability as specified in mobile crane structure specifications.
- 3. To calculate the maximum load that can actually be lifted, deduct mass of all lifting accessories, such as a hook, from figures shown above.
- 4. Working radius is the horizontal distance from the slewing center to the center of gravity of a lifted load.
- 5. Correlation between the number of reeved lines, maximum rated loads, hook mass are shown in the table below.

Hook Capacity	Hook Mass		Maximum Rated Loads (t)						
(t)	(t)	10 falls	8 falls	6 falls	5 falls	4 falls	3 falls	2 falls	1 fall
65	0.80	65	56	42	-	28	-	14	-
30	0.52	-		-	30	28	21	14	
7	0.11	-	-	-	-	-	-	-	7
Maximum Availabl	e Boom Length (m)	10	10	16.7	23.4	30.1	30.1	30.1	30.1

■ Main Boom with Aux. Sheave (2 Sheaves) (When Jacking Up, Without Counter Weight)



Working	Boom Length (m)
Radius (m)	10.0
2	9.5
2.5	9.5
3	9.5
3.5	9.5
4	9.5
4.5	9.5
5	9.5
5.5	7.4
6	5.9
6.5	4.9

- 1. This gross rated load table is for the crawler side frame self removal/installation. Do not use this for other than self removal/installation.
- 2. The rated loads shown above are the value of the stationary loads on a firm and level surface, within 78% of tipping loads, and more than forward stability as specified in mobile crane structure specifications.
- 3. To calculate the maximum load that can actually be lifted, deduct mass of all lifting accessories, such as a hook, from figures shown above.
- 4. Working radius is the horizontal distance from the slewing center to the center of gravity of a lifted load.
- 5. Correlation between the number of reeved lines, maximum rated loads, hook mass are shown in the table below.

Hook Capacity	Hook Mass	Maximum Rated Loads (t)							
(t)	(t)	10 falls	8 falls	6 falls	5 falls	4 falls	3 falls	2 falls	1 fall
65	0.80	65	56	42	-	28	-	14	-
30	0.52	-		-	30	28	21	14	-
7	0.11	-		-	-	-	-	-	7
Maximum Availabl	e Boom Length (m)	10	10	16.7	23.4	30.1	30.1	30.1	30.1



Weights and Dimensions of Disassembled Units

Weights and Dimensions List

Comply with the regulations when transporting.

"Qty" indicates the number of the fully-equipped item and "Weight" indicates the mass of each unit.

Weights and Dimensions of Disassembled Units

Description	Qty	Dimensions (mm)	Weight (kg)
Base Crane with: Third Winch Aux. Sheave (2 Sheaves), Boom Front Wintch Wire Rope Rear Wintch Wire Rope Crawlers 65 t Hook, 7 t Hook	1	13180	57600
Base Crane with: Aux. Sheave, Boom Front Wintch Wire Rope Rear Wintch Wire Rope Crawlers 65 t Hook, 7 t Hook Auxiliary Weight	1	13180	56800
Base Crane with: Crawlers Boom Hoist Cylinder Without: Wire Rope Auxiliary Weight	1	7250 3200 6060	42600 (44600)
Base Crane with: Boom Without: Aux. Sheave Wire Rope Hook Auxiliary Weight	1	13180 2990 4635 4635	38800 (40800)
Base Crane with: Boom Hoist Cylinder Without: Wire Rope Auxiliary Weight	1	6800 2990 4635 2540	27900 (29900)
Base Crane with: Boom Folding Type Jack Beam Without: Aux. Sheave Wire Rope Hook Auxiliary Weight	1	13180 2990 4635	41600 (43600)

- The value within () shows the case of the third winch attached. With the third winch, auxiliary weight is not attached.
- With upper house handrails, the weight of the main unit increases by 110 kg.
- With catwalks, the weight of the main unit increases by 215 kg and the width of the main unit increases by 210 mm.

Neights and Dimensions of Disassemble Description	Qty	Dimensions (mm)	Weight (kg)
Base Crane with: Boom Hoist Cylinder Folding Type Jack Beam Without: Wire Rope Auxiliary Weight	1	6800 2990 4635	30700 (32700)
Crawler	2	6060	7390
Counter Weight (R)	2	790 735	2730
Counter Weight (L)	2	735	2780
Counter Weight (Base)	1	2990 (3800) (1185) * () is attached the self assembly unit (OPT).	2960 (2570)
Boom (with Aux. Sheave)	1	11205	11200
Folding Type Jack Beam	2	2000	1400
Jack Beam	2	1855	1410

 $[\]cdot$ The value within () shows the case of the third winch attached. With the third winch, auxiliary weight is not attached.

Weights and Dimensions of Disassembled Units

Description	Qty	Dimensions (mm)	Weight (kg)
65 t Hook	1	455	800
30 t Hook	1	690	520
7 t Hook	1	190	105



Equipment List

Standard and Optional Equipment

		○ : Standard ● : Optional
	Item	
	760 mm Crawler Shoe	0
	Crawler Extension/Retraction System	0
Lower Structure	Steps	
	Folding Type Jack Beam 1	•
	Jack Beam ¹	•
	Shoe Tension Unit (Hydraulic)	•
	Cab Up/Down Catwalk	0
	Under Cover (Bed Lower Surface)	0
	Working Light (× 2)	0
	Back Mirror (Left and Right)	0
	Drum Flange Cover	0
	Winch Rope Retainer (Front Winch)	•
	Winch Rope Retainer (Rear Winch)	0
Upper Structure	Winch Rope Retainer (Third Winch)	•
opper Structure	Catwalk (Folding Type, Left and Right)	0
	Electric Fuel Pump	•
	Handrail (Folding Type)	
	Front, Rear Winch (ϕ 22.4mm with Free Fall, Brake Mode Select Switch)	0
	Third Winch (φ22.4mm with Free Fall, Guide Sheave, Winch Drum Lock, Rope, and Aux. Sheave (2 Sheaves))	0
	Third Winch (\$\phi\$22.4mm without Free Fall, with Guide Sheave, Winch Drum Lock, Rope, and Aux. Sheave (2 Sheaves))	•
	Standard Counter Weight (2990mm Width)	0
	Counter Weight with Self Assembly Unit (Counter Weight 3800mm Width)	•
	Air Conditioner	0
	Sunvisor	
	Sunshade	
	Wiper with Washer (Front Window, Cab Roof Window)	0
	Microphone & Loud-speaker	
	AM / FM Radio (With Clock)	
	Room Lamp	0
	Cup Holder	0
	24 V Power Socket (× 2)	0
	Floor Carpet	0
Cab	Level Gauge (In Cab)	0
	Arm Chair Lever	0
	Accelerator Grip	0
	Accelerator Pedal (Right Side)	•
	Drum Rotation Sensor (Front/Rear)	0
	Speed Control Dial (Boom Hoist/Swing)	0
	Boom Hoist Operation Pedal	0
	Boom Hoist Operation Lever (Third Winch Lever is Replaced Forward)	•
	Fire Extinguisher (ABC No.4)	•
	Fan	•
	Life Hammer	0

^{*1} Jack beam and folding type jack beam cannot be attached at the same time.

		C) : Standard ● : Optional
		Item	
	4-Section Telescopic Boom (10 to 30.1m)	0	
Attachment	Boom Transportation Mount	•	
	Boom Assembly/Disassembly Transport Mo	•	
	Boom Foot Pin Assembly/Disassembly Jig a	•	
	Tool Box for Boom Foot Pin Assembly/Disas	•	
	Aux. Sheave (1 Sheave) [Aux. Sheave and	Anti-two Block]	•
	Aux. Sheave (2 Sheaves)		0
	65 t Hook (5 Sheaves)		0
	30 t Hook (3 Sheaves)		•
	7t Hook (Light Type with Lock (105kg))		0
	* It may not fall by its own weight depends of		
		XP IWRC6 x WS (31)	0
	Front Winch (ϕ 22.4)	3 x F (40)	•
		P·S (19) + 39 x P·7	•
		XP IWRC6 x WS (31)	0
Wire Rope	Rear Winch (ϕ 22.4)	3 x F (40)	•
		P·S (19) + 39 x P·7	•
		XP IWRC6 x WS (31)	0
	Third Winch (ϕ 22.4)	3 x F (40)	•
		P·S (19) + 39 x P·7	0
	Moment Limiter		0
	3 Color Percentage Indicator Light		0
	Mode Select Switch (Crane/Excavation)		0
	Gate Lock Lever	0	
	Individual Operation Lever Lock (Front, Rea	0	
	Winch Drum Lock (Front and Rear)	0	
	Swing Lock	0	
	Swing Alarm	0	
O-fata Davidas	Travel Alarm	0	
Safety Device	Auto Slowdown (Slow Stop)	0	
	Warning Alarm	0	
	Engine Start Interlock System	0	
	Emergency Engine Stop Switch (In Cab)	0	
	Lifting Height Indication Device	0	
	Swing Neutral Free/Brake Selection Switch	0	
	Anti-two Block	0	
	Swing Restriction Unit		
	Drum and Rear View Monitor System (× 3)		
	Cab Roof Window Guard Remote Sensing (Mobile Communication Te	0	
	Without Counter Weight (Reduced Counter		
	Hydraulic Power Outlet for Auger (Includin	0	
	1 '	•	
	520L/min)		
	External Hydraulic Power Outlet A (Maximus	•	
	External Hydraulic Power Outlet B (Maximu		
Common Parts	Auger Speed Selecter Panel (On the Right Sing Ropes for Disassembly and Assembly		
	<u> </u>	(for Counter Weights, Crawlers, Boom)	•
	Boom Stanchion Pooving Winch Cum Hydraulic Tagling (6 x	*2	
	Reeving Winch Cum Hydraulic Tagline (6 x		
	Tool Box (On the Front of the Right Bed)	0	
	Additional Fuel Filter (Triple Filter) Additional Spare Parts (Hydraulic Oil Filter)		
		Phical\	
	Additional Tools (Large Hammer, Crowbar, C		

^{*2} Reeving Winch Cum Hydraulic Tagline

Other

Standard Supplied Tools

Standard Spare Parts

(Maxmum line pull: 1.4 kN (150 kgf) for hydraulic tagline / 2.9 kN (300 kgf) for reeving winch)

Special Tools (When Hydraulic Power Outlet for Auger is Attached)

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