

KOBELCO

**Heavy Duty Base Machine
for Civil Engineering and
Foundation Work**

BM500 HD

**Max. Lifting Capacity 50 Metric ton × 3.8 m
Max. Boom length 51.8 m**

BM700 HD

**Max. Lifting Capacity 70 Metric ton × 3.7 m
Max. Boom length 54.9 m**

A NEW GENERATION OF BASE MACHINES FOR HEAVY- DUTY FOUNDATION WORK

Heavy-duty reliability from wet-type disc brakes. Large capacity drums to handle any job with power to spare. The powerful line-pull of a machine one class higher. And a compact, manoeuvrable machine body.

Drawing on long experience in crane manufacture, KOBELCO researched the bottom line in boosting operating efficiency in civil engineering and foundations work, and has unveiled a new generation of base machines.

The BM500HD/BM700HD feature power and precision in operations, simple controls and comprehensive safety features. Economic to run, easy to transport, kind to operator and environment alike. In every respect the BM500HD/BM700HD deliver a performance that sets new standards.

KOBELCO is proud to present these specialist cranes¹ for foundations and heavy duty work.



Giving rugged, reliable braking

1 Wet-type disc brake

For lifting heavier casing bucket

2 Powerful line-pull winch

Taking 42m of 26mm-dia. wire rope on first layer

3 Large capacity drums

With specifications same as main and auxiliary drum

4 Large capacity third drum (optional)

Holding down running costs

5 Simplified maintenance



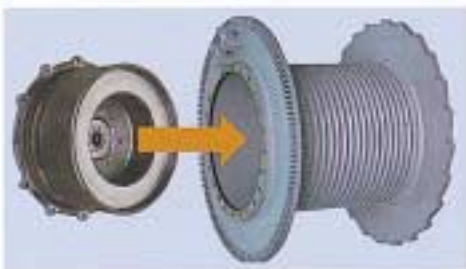
UPPER MACHINERY



First in its class! Giving rugged, reliable braking..

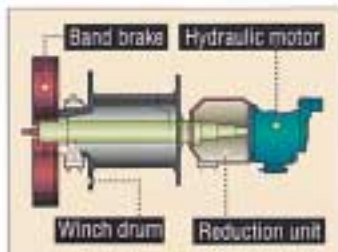
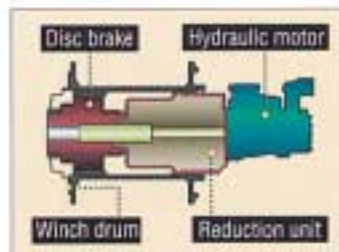
WET-TYPE DISC BRAKE

We've developed a new wet-type multi-disc brake, cooled by circulated oil, which fits inside the winch drum. It's a first to installed in this class (in Japan). With no more loss of braking efficiency due to increasing temperature, this brake gives more reliable braking power over long, repetitive operations. The pedal control is light, there are no brake linings to change and adjust, and irritating brake noise has been eliminated.



Wet-type disc brake installed in winch drum

Conventional, externally-fitted drum brake:



With specifications same as main and auxiliary drums..

LARGE CAPACITY THIRD DRUM (OPTIONAL)



By built-in brake and reduction inside the winch drums, and re-designing the engine layout, we've made it possible to fit in a third drum

identical to the other two drums. This gives greater versatility in accommodating different attachments: for example, the third drum can handle a casing jack while the main and auxiliary winches are used for the bucket.

FIVE ADVANCED DESIGN

Lifts heavier casing bucket..

POWERFUL LINE-PULL WINCH



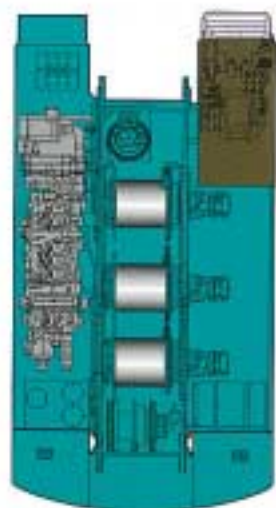
By introducing a heavy-duty engine and a high-output hydraulic motor, the winch achieves more powerful line-pull. Dynamic lift-off and continuous digging are accomplished with ease, lifting capacity is boosted and hoisting is firmer and faster.

	High speed hoisting	The highest lifting capacity in each class
BM500HD	10 ton × approx. 60 m/min	50 ton × 3.8 m (with 12.2 m boom)
BM700HD	10 ton × approx. 60 m/min	70 ton × 3.7 m (with 12.2 m boom)

Taking 42m of 26mm dia. wire rope on first layer..

LARGE CAPACITY DRUMS

Utilizing the space saved by installing disc brakes, the drums are now wider. At 617mm, they take 22 parts of line of 26mmØ wire rope. With so much more winding capacity on each layer, hammer-grab digging 30-50m below ground level is possible on the first and second layer. And with less chance of uneven winding, due to its larger PCD, the life-span of the wire rope is extended, too.



Holding down running costs..

SIMPLIFIED MAINTENANCE

The bandless disc brakes translate into a great saving on the time and cost of changing and adjusting brake linings. And the new engine layout means that just opening the power plant cover gives ready access for checks and servicing.

High Output Engine

A high output engine that delivers ample power for the toughest jobs. Its computer-controlled mechatronic Engine Speed Sensing system (ESS) reduces speed changes in simultaneous operations to give a smoother, more efficient performance.



Double Auxiliary Sheave (opt.)

By using a double auxiliary sheave, the hammer-grab bucket can be suspended on the auxiliary winch with the crown on the main winch. And the third (opt.) wire rope on a point sheave can accommodate a large capacity hook for greater operating versatility.

100m/min Line Speed

The line speed is the fastest in this class. Faster operation in throating work cuts cycle times and boosts operating efficiency. (third drum : 90 m/min)

Simplified Design

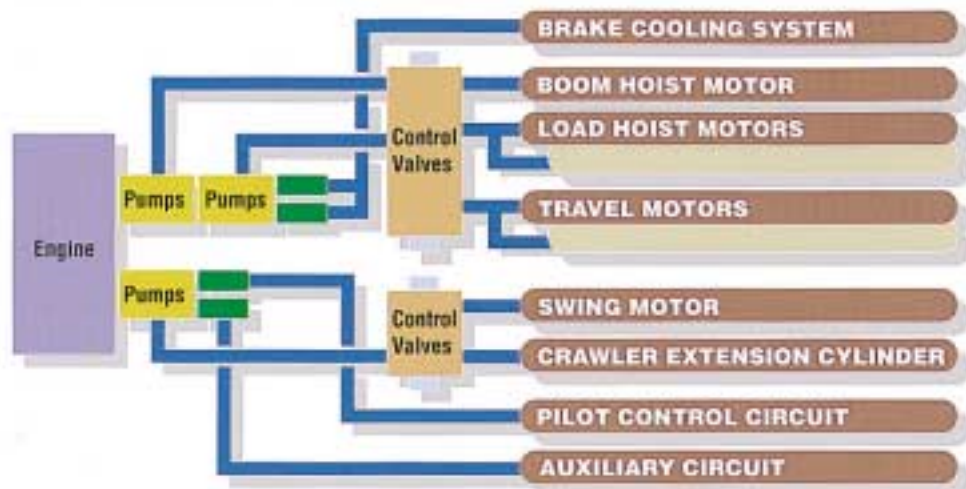
Engine guard and counterweight are designed for easy installation of power unit, etc.



CAUTION: To avoid the risk of dropping suspended loads due to a control error, free-fall should not be used during crane operations.

FOR HEAVY-DUTY WORKS

HYDRAULIC SYSTEM



Independent Swing System

Smooth swing is assured by an independent-driven swing motor with planetary reducer. Maximum swing speed is 3.5 rpm. The single-row, induction-hardened ball bearing circle is bolted to the upper frame and carbody. The swing disc brake is spring set and hydraulically released.

Sensitive Control

Swing control has hydraulic pilot with rebound sensing control.

Full Hydraulic Operating System

The BM500HD/BM700HD employ an advanced, full-hydraulic system for performing all crane operations including main hoist, boom hoist, swing and propel operations as well as counterweight and crawlers assembly and disassembly for transport.

Hydraulic Pilot Control System

Smooth, precise operation is ensured by a sophisticated hydraulic pilot control system that opens and closes the valve spools in direct proportion to control lever movement. If pilot pressure drops when the control lever is in neutral, negative disc braking is applied by spring pressure to the boom hoist and propel circuits. A flick of a switch on the swing lever applies a spring-set, hydraulically-released disc brake to the swing.



COMFORTABLE CAB AND CONTROL



Roomy, Comfortable Cab



Roomy, Comfortable Cab Operator comfort is ensured by vibration-reducing rubber cab mounts a fully adjustable, upholstered seat, and an air conditioner with fresh-air vents.

Reinforced tinted glass windows reduce glare, and the semi-short levers mounted on the side consoles are ergonomically designed for easy control.

Dial-type Drum Speed Control



Speeds for main winch, auxiliary winch and boom hoisting can be set independently with free-turning dial controls. A diaphragm wall or clamshell bucket can be hoisted or lowered at a consistent speed, simplifying simultaneous operations.

- Inching control for hoisting, boom hoisting and travel
- Electric throttle for light, precise engine control

SAFETY CONTROL

Free-Fall Switches



Free-fall control switches repositioned on hoisting levers allow the operator to

engage free-fall whenever necessary without taking his hand off the lever.

New Brake Mechanism

The new brake mechanism has improved 'feel' and reduces fatigue over long periods of repeated braking. The bite of the brake pedal



has been significantly improved over earlier models.

Key-Controlled Release Switches

Safety mechanisms can be individually cancelled for specific operations using the keys provided.



- Free-fall interlock prevents accidental dropping of load due to a control error.
- Boom overhoist prevention device



• Auto-stop release keys



• Free-fall lock

LCD Multi-display Monitor



Information such as engine rpm, height(/depth) display (opt.), and on maintenance and

trouble shooting functions is clearly displayed, to give operator an accurate assessment of machine condition at a glance.

Overload Prevention Device



An easy-to-read LCD display is installed with the overload prevention mechanism, indicating rated and actual loads and other useful data. The smooth-stop device for boom lowering prevents dangerous swaying of the load due to sudden automatic stops.

ASSEMBLY/DISASSEMBLY, TRANSPORTATION AND MAINTENANCE

- An overall width of 3.2 m that fits a trailer bed, and an overall transporting height of 3.2 m (base machine), help reduce transportation cost.
- Boom and guy cables are connected easily, and upper spreader features automatic stowing for disassembly.
- Gantry hoist cylinder is supplied as standard to simplify gantry raising.
- Counterweight divides horizontally into 3 sections for easy assembly, disassembly and transport.
- Increased diameter of upper/lower spreader sheave reduces wear on wire rope.
- New machinery layout simplifies engine checks and other maintenance.



• Double-tapered connecting pins for bottom of lower boom

Features that only come with KOBELCO

- High-powered hydraulic outlet on base machine can power

attachments for foundation work (opt.)

- Optional height level gauge can be used to indicate depth when deep digging.

- Swing flashers/warning buzzer
- Rear working lights
- Lever lock obstructs exit from cab until engaged



• Convenient-to-use tool box



BM500HD Lifting Capacity

Unit: metric ton

Boom rated loads in metric tons for 360° working area

Crawlers fully extended

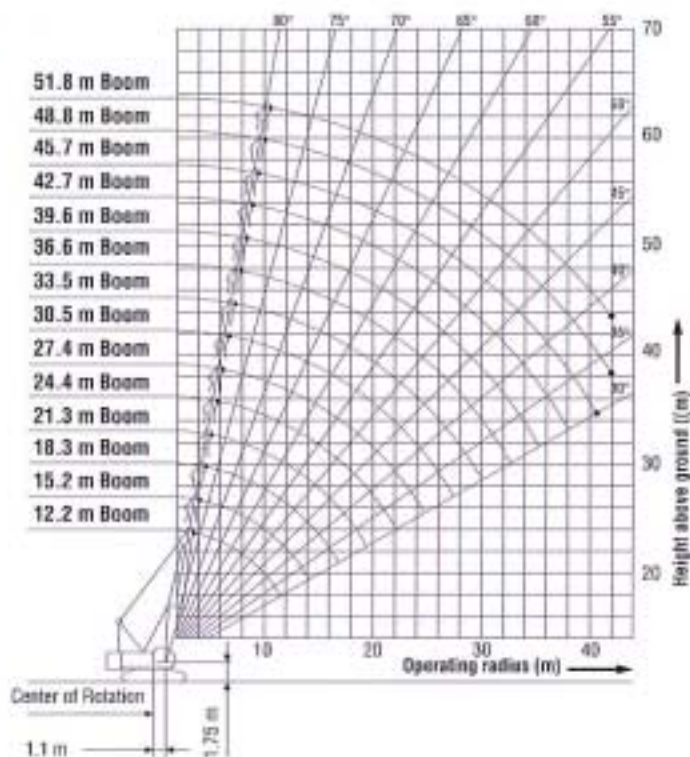
Working radius m	Boom length m (ft)														Working radius m
	12.2 (40)	15.2 (50)	18.3 (60)	21.3 (70)	24.4 (80)	27.4 (90)	30.5 (100)	33.5 (110)	36.6 (120)	39.6 (130)	42.7 (140)	45.7 (150)	48.8 (160)	51.8 (170)	
3.7	50.0														3.7
3.8	50.0														3.8
4.0	48.9	46.0/4.2	38.7/4.7												4.0
5.0	35.0	35.0	34.9	33.0/5.2	28.8/5.7										5.0
6.0	26.4	26.3	26.3	26.2	26.2	24.8/6.3	21.8/6.8								6.0
7.0	21.0	21.0	20.9	20.9	20.8	20.8	20.7	19.4/7.3	17.4/7.9						7.0
8.0	17.5	17.4	17.4	17.3	17.3	17.2	17.2	17.1	17.1	16.2/8.4					8.0
9.0	14.9	14.8	14.8	14.7	14.7	14.6	14.6	14.5	14.5	14.4	14.4	12.9/9.5			9.0
10.0	13.0	12.9	12.9	12.8	12.8	12.7	12.7	12.6	12.6	12.5	12.5	12.4	12.4	11.2/10.5	10.0
12.0	10.5/11.7	10.1	10.1	10.0	10.0	9.9	9.9	9.8	9.8	9.7	9.7	9.6	9.6	9.5	12.0
14.0		8.3	8.3	8.2	8.2	8.1	8.1	8.0	8.0	7.9	7.9	7.8	7.8	7.7	14.0
16.0		8.0/14.4	7.0	6.8	6.8	6.7	6.7	6.6	6.6	6.5	6.5	6.4	6.4	6.3	16.0
18.0			6.4/17.0	5.9	5.8	5.7	5.7	5.6	5.6	5.5	5.4	5.4	5.3	5.2	18.0
20.0				5.2/19.7	5.0	4.9	4.9	4.9	4.8	4.8	4.6	4.5	4.4	4.3	20.0
22.0					4.4	4.3	4.2	4.1	4.1	4.0	3.9	3.9	3.8	3.6	22.0
24.0					4.3/22.3	3.8	3.7	3.6	3.6	3.5	3.4	3.3	3.2	3.1	24.0
26.0						3.6/24.9	3.2	3.2	3.1	3.0	2.9	2.8	2.8	2.6	26.0
28.0							2.9/27.6	2.8	2.8	2.6	2.5	2.5	2.3	2.2	28.0
30.0								2.5	2.4	2.3	2.2	2.1	2.0	1.8	30.0
32.0								2.5/30.2	2.2	2.0	1.9	1.8	1.6	1.5	32.0
34.0									2.1/32.9	1.7	1.6	1.5	1.3	1.2/34.0	34.0
36.0										1.5/35.5	1.3	1.2	1.1/36.0		36.0
38.0											1.1/38.0	1.1/37.0			38.0

Note: Ratings shown in are determined by the strength of the boom or other structural components.

Notes:

- Operating radius is the horizontal distance from centerline of rotation to a vertical line through the center of gravity of the load.
- Flaring do not exceed 75% of tipping load. Deduct weight of hook block(s), slings and all other load handling accessories from main boom or jib rating shown.
- Ratings shown are based on freely suspended loads and make no allowance for such factors as wind effect on lifted load, ground conditions out-of-level. Operating speeds or any other condition that could be detrimental to the safe operation of this equipment, the operator, therefore, has the responsibility to judge the existing conditions and reduce lifted loads and operating speeds accordingly.
- At radii and boom length where no ratings are shown no chart, operation is not intended or approved.
- Ratings surrounded by thick lines in the "Rated Loads" tables are determined by the machine's structural strength, and others are determined by the machine's stability.
- Gantry must be in raised position for all conditions.
- Main Boom Rating Loads
Deduct weight of main hook, slings and all other load handling accessories from main boom rating loads shown.
- In principle, the boom should be erected over the front of the crawlers.
- Both crawlers should be fully extended.
- Figures shown by (ft) in the boom configuration are for reference only.

Main Boom Working Ranges



BM700HD Lifting Capacity

Unit: metric ton

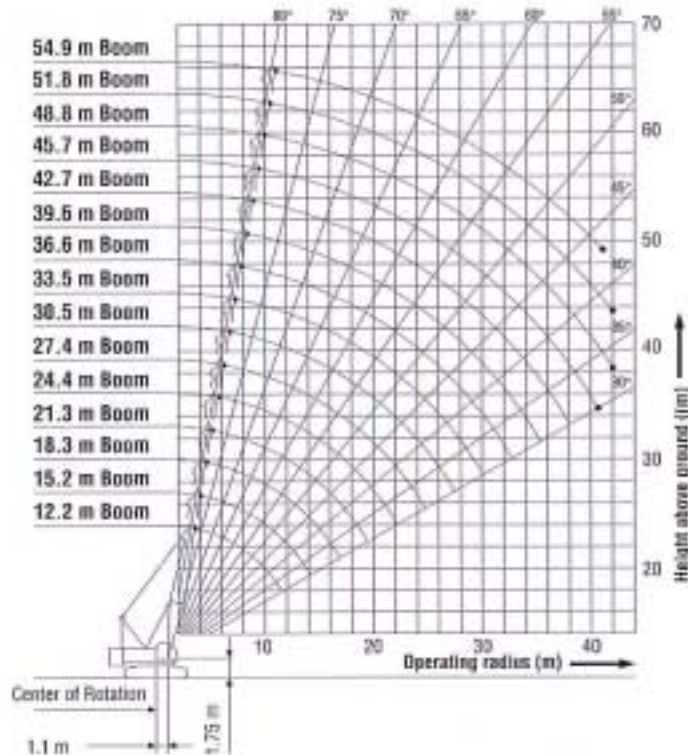
Boom rated loads in metric tons for 360° working area

Crawlers fully extended

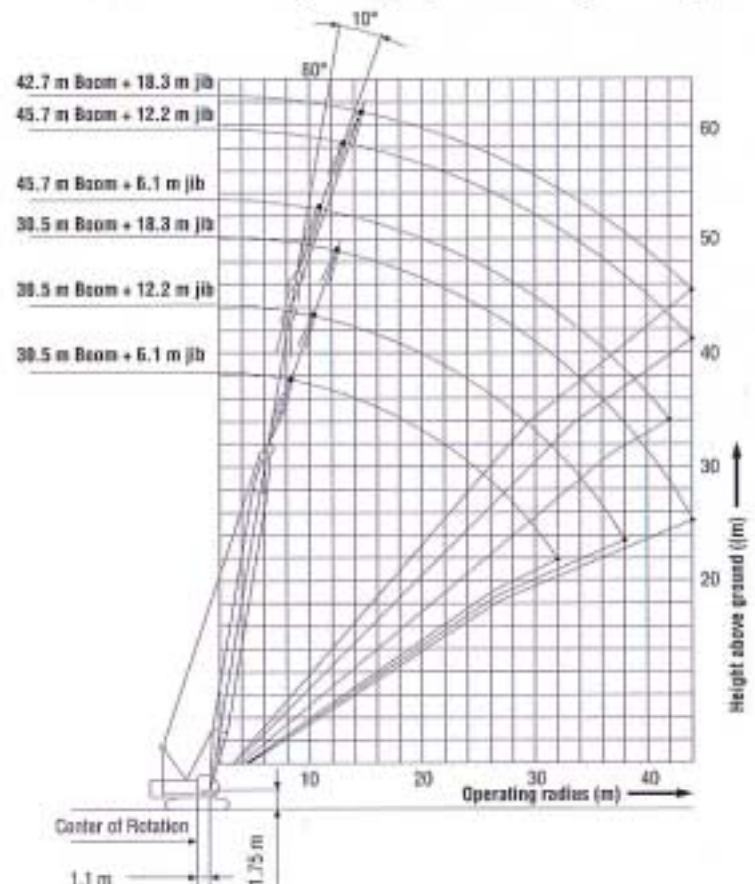
Working radius m	Boom length m (ft)	12.2	15.2	18.3	21.3	24.4	27.4	30.5	33.5	36.6	39.6	42.7	45.7	48.8	51.8	54.9	Boom length m (ft)	Working radius m
		(40)	(50)	(60)	(70)	(80)	(90)	(100)	(110)	(120)	(130)	(140)	(150)	(160)	(170)	(180)		
3.7	70.0/3.7																	3.7
4.0	68.0																	4.0
4.2	65.0	64.2/4.3	57.2/4.8															4.2
5.0	53.2	53.1	53.0	50.3/5.3	43.4/5.9													5.0
6.0	41.3	41.2	41.1	41.1	41.0	38.0/6.4	33.5/6.9											6.0
7.0	32.6	32.5	32.4	32.4	32.3	32.2	32.1	30.3/7.5										7.0
8.0	26.9	26.8	26.7	26.7	26.6	26.5	26.4	26.3	26.1/8.0	24.3/8.5								8.0
9.0	22.8	22.7	22.6	22.6	22.5	22.4	22.3	22.2	22.1	22.0	20.8/9.0	19.9/9.6						9.0
10.0	19.7	19.6	19.5	19.5	19.4	19.3	19.2	19.1	19.0	18.9	18.8	18.7	17.7/10.1	16.3/10.6	13.2/11.2			10.0
12.0	15.9/11.8	15.7	15.6	15.5	15.4	15.3	15.2	15.1	15.0	14.9	14.9	14.7	14.6	13.5	13.2			12.0
14.0		12.9	12.8	12.6	12.5	12.4	12.3	12.2	12.1	12.0	12.0	11.8	11.7	11.6	11.1			14.0
16.0		12.5/14.5	10.7	10.6	10.5	10.3	10.2	10.1	10.0	9.9	9.9	9.7	9.6	9.5	9.4			16.0
18.0			9.7/17.1	9.0	8.9	8.8	8.7	8.6	8.5	8.3	8.3	8.2	8.1	7.9	7.8			18.0
20.0				7.9/19.8	7.7	7.6	7.5	7.4	7.3	7.1	7.1	7.0	6.8	6.7	6.6			20.0
22.0					6.8	6.7	6.5	6.4	6.3	6.2	6.1	6.0	5.8	5.7	5.6			22.0
24.0					6.6/22.4	5.9	5.8	5.6	5.5	5.4	5.3	5.2	5.0	4.9	4.8			24.0
26.0						5.5/25.0	5.1	5.0	4.9	4.7	4.7	4.5	4.4	4.3	4.2			26.0
28.0							4.6/27.7	4.5	4.3	4.2	4.1	4.0	3.8	3.7	3.6			28.0
30.0								4.0	3.9	3.7	3.7	3.5	3.3	3.2	3.1			30.0
32.0								3.9/30.3	3.5	3.3	3.2	3.1	2.9	2.8	2.6			32.0
34.0									3.2/33.0	3.0	2.9	2.7	2.5	2.4	2.2			34.0
36.0										2.7/35.6	2.6	2.4	2.2	2.0	1.8			36.0
38.0											2.2	2.0	1.9	1.7	1.5			38.0
40.0											2.2/38.2	1.8	1.6	1.4	1.2			40.0
42.0												1.6/40.9	1.3/42.0	1.1/42.0	1.1/41.0			42.0

Note: Ratings shown in are determined by the strength the boom or other structural components.

Main Boom Working Ranges



Fixed Jib Working Range (Offset angle: 10°)



BM700HD Jib Lifting Capacity

Unit: metric ton

Jib Rated loads in metric tons for 360° working area (Jib offset angle 10°/without main hook)

Crawlers fully extended

Boom Length m (ft)	30.5 (100)			33.5 (110)			36.6 (120)			39.6 (130)			42.7 (140)			45.7 (150)		
	Jib length m (ft)	6.1 (20)	12.2 (40)	18.3 (60)	6.1 (20)	12.2 (40)	18.3 (60)	6.1 (20)	12.2 (40)	18.3 (60)	6.1 (20)	12.2 (40)	18.3 (60)	6.1 (20)	12.2 (40)	18.3 (60)	6.1 (20)	12.2 (40)
8	6.6/9.0																	
10	6.6			6.6/10.0			6.6/10.0											
12	6.6			6.6			6.6			6.6/12.0			6.6/12.0				6.6/12.0	
14	6.6	6.6/14.0		6.6	6.6/14.0		6.6	6.6/14.0		6.6	6.6/14.0		6.6				6.6	
16	6.6	6.6	4.5/16.0	6.6	6.6	4.5/16.0	6.6	6.6	4.5/16.0	6.6	6.6	4.5/16.0	6.6	6.6/16.0			6.6	6.6/16.0
18	6.6	6.6	4.5	6.6	6.6	4.5	6.6	6.6	4.5	6.6	6.6	4.5	6.6	6.6	4.5/16.0		6.6	6.6
20	6.6	6.6	4.5	6.6	6.6	4.5	6.6	6.6	4.5	6.6	6.6	4.5	6.6	6.6	4.5		6.5	6.6
22	6.1	6.4	4.5	6.0	6.2	4.5	5.9	6.2	4.5	5.8	6.0	4.5	5.7	6.0	4.5		5.6	5.8
24	5.4	5.6	4.5	5.2	5.5	4.5	5.1	5.4	4.5	5.0	5.3	4.5	4.9	5.2	4.5		4.8	5.1
26	4.7	5.0	4.5	4.6	4.8	4.5	4.5	4.8	4.5	4.4	4.6	4.5	4.3	4.5	4.5		4.2	4.4
28	4.2	4.4	4.5	4.1	4.3	4.4	4.0	4.2	4.3	3.9	4.1	4.2	3.8	4.0	4.1		3.6	3.9
30	3.8	4.0	4.1	3.6	3.8	3.9	3.5	3.7	3.9	3.4	3.6	3.7	3.3	3.5	3.6		3.2	3.4
32	3.4/32.0	3.6	3.7	3.2	3.4	3.5	3.1	3.3	3.5	3.0	3.2	3.3	2.9	3.1	3.2		2.7	3.0
34		3.2	3.3	2.9	3.1	3.2	2.8	3.0	3.1	2.6	2.9	3.0	2.5	2.8	2.9		2.3	2.6
36		2.9	3.0	2.6/36.0	2.8	2.9	2.5	2.7	2.8	2.3	2.5	2.7	2.2	2.4	2.6		2.0	2.2
38		2.6/38.0	2.8		2.5	2.6	2.2/38.0	2.4	2.5	2.0	2.2	2.4	1.8	2.1	2.2		1.6	1.9
40			2.5		2.3	2.4		2.1	2.3	1.7/40.0	1.9	2.1	1.6	1.8	2.0		1.4	1.6
42			2.3		2.0/42.0	2.1		1.9	2.0		1.7	1.8	1.3	1.5	1.7		1.1/42.0	1.4
44			2.1/44.0			1.9/44.0		1.6/44.0	1.8/44.0		1.4/44.0	1.6/44.0	1.1/44.0	1.3/44.0	1.5/44.0			1.1/44.0

Jib Rated loads in metric tons for 360° working area (Jib offset angle 30°/without main hook)

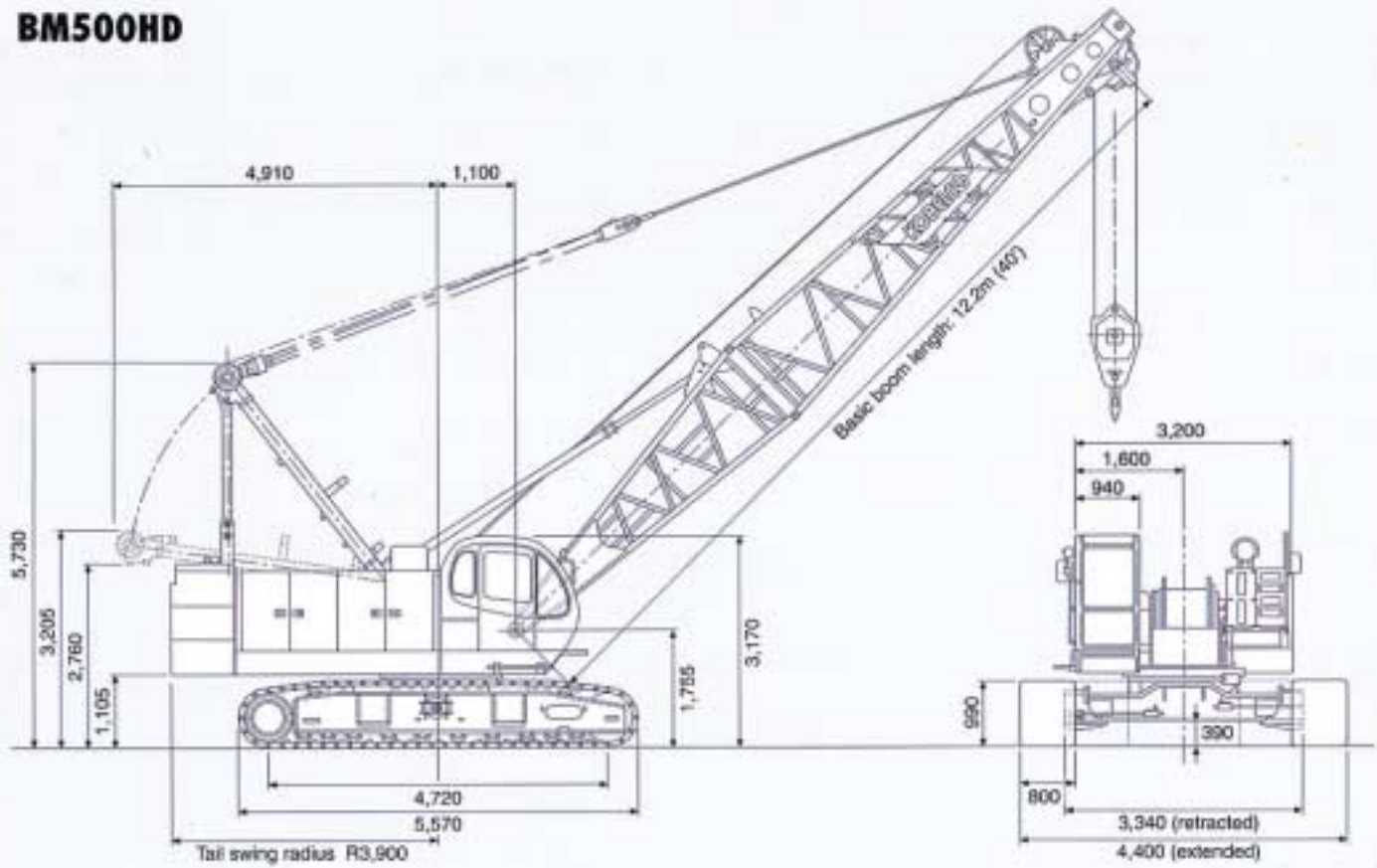
Crawlers fully extended

Boom Length m (ft)	30.5 (100)			33.5 (110)			36.6 (120)			39.6 (130)			42.7 (140)			45.7 (150)		
	Jib length m (ft)	6.1 (20)	12.2 (40)	18.3 (60)	6.1 (20)	12.2 (40)	18.3 (60)	6.1 (20)	12.2 (40)	18.3 (60)	6.1 (20)	12.2 (40)	18.3 (60)	6.1 (20)	12.2 (40)	18.3 (60)	6.1 (20)	12.2 (40)
12	6.6/12.0			6.6/12.0			6.6/12.0											
14	6.6			6.6			6.6			6.6/14.0			6.6/14.0				6.6/14.0	
16	6.6	5.0/16.0		6.6			6.6			6.6			6.6				6.6	
18	6.6	5.0		6.6	5.0/18.0		6.6	5.0/18.0		6.6	5.0/18.0		6.6	5.0/18.0			6.6	
20	6.6	5.0	3.2/20.0	6.6	5.0		6.6	5.0		6.6	5.0		6.6	5.0			6.6	5.0/20.0
22	6.2	5.0	3.2	6.1	5.0	3.2/22.0	6.1	5.0	3.2/22.0	5.9	5.0	3.2/22.0	5.9	5.0	3.2/22.0		5.8	5.0
24	5.5	5.0	3.2	5.4	5.0	3.2	5.3	5.0	3.2	5.2	5.0	3.2	5.1	5.0	3.2		5.0	5.0
26	4.8	4.9	3.2	4.7	5.0	3.2	4.6	5.0	3.2	4.5	4.9	3.2	4.4	4.8	3.2		4.3	4.7
28	4.3	4.6	3.2	4.2	4.5	3.2	4.1	4.4	3.2	4.0	4.3	3.2	3.9	4.3	3.2		3.8	4.2
30	3.8/30.0	4.1	3.1	3.7	4.0	3.2	3.6	3.9	3.2	3.5	3.8	3.2	3.4	3.8	3.2		3.3	3.7
32		3.7	3.0	3.3/32.0	3.6	3.0	3.2	3.5	3.1	3.1	3.4	3.2	3.0	3.3	3.2		2.9	3.2
34		3.3	2.8		3.2	2.9	2.9/34.0	3.1	3.0	2.7	3.0	3.1	2.6	3.0	3.2		2.4	2.9
36		3.0/36.0	2.7		2.9	2.8		2.8	2.9	2.3	2.7	2.9	2.2	2.6	2.8		2.1	2.5
38			2.6		2.6/38.0	2.7		2.5	2.7	2.0/38.0	2.4	2.6	1.9	2.3	2.5		1.7	2.1
40			2.5			2.5		2.2/40.0	2.5		2.1	2.3	1.6/40.0	2.0	2.3		1.4	1.8
42			2.4/42.0			2.3			2.2		1.8	2.1		1.7	2.0		1.2/42.0	1.5
44						2.1/44.0			2.0/44.0		1.5/44.0	1.8/44.0		1.4/44.0	1.7/44.0			1.3/44.0

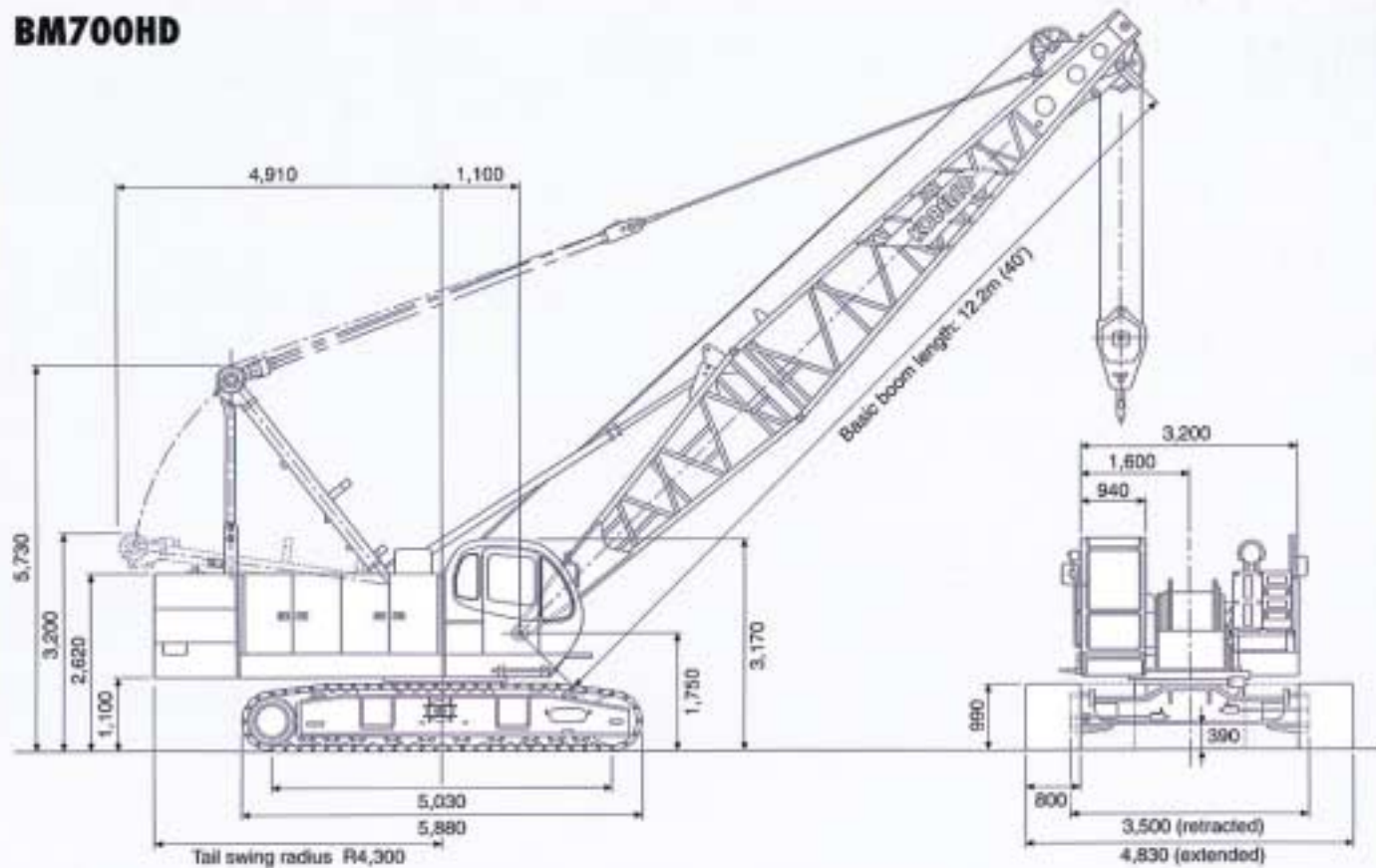
General Dimensions

Unit: mm

BM500HD



BM700HD



SPECIFICATIONS

PERFORMANCE	BM500HD	BM700HD
Boom:		
Max. lifting capacity (mass)	50 tons at 3.8 m	70 tons at 3.7 m
Max. boom length	51.8 m	54.9 m
Basic boom length	12.2 m	12.2 m
Jib:		
Max. jib lifting capacity (mass)	—	6.6 tons
Max. jib length	—	18.3 m
Basic jib length	—	6.1 m
Max. boom + jib length	—	42.7 m + 18.3 m
LOAD HOIST SYSTEM		
Drums	Front, rear and optional 3rd drum 614 mm P.C.D. x 617 mm wide drums	Front, rear and optional 3rd drum 614 mm P.C.D. x 617 mm wide drums
Wire rope	26 mm wire rope	26 mm wire rope
Wire rope capacity (each drum)	160 working length	170 working length
Storage length (each drum)	300 m	300 m
Brake and clutch	Forced-circulation oil-cooled wet-type multi-disc brakes	
LINE SPEED (AT FIRST LAYER)		
Main hook hoist (hoisting/lowering)	100 m/min	100 m/min
Boom hoist (hoisting/lowering)	65 m/min	65 m/min
Rated line pull (Allowable/Permissible)	196kN (20,000 kg)/108kN (11,000 kg)	196kN (20,000 kg)/108kN (11,000 kg)
BOOM HOIST SYSTEM		
Drum (single drum)	Grooved for 16 mm dia. wire rope	Grooved for 16 mm dia. wire rope
Brake	A spring-set, hydraulically released multiple-disc brake	
LINE SPEED (AT FIRST LAYER)		
Hoisting	65 m/min	65 m/min
Lowering	65 m/min	65 m/min
SWING AND TRAVEL		
Swing speed	3.5 min ⁻¹ (rpm)	3.5 min ⁻¹ (rpm)
Max. travel speed (high/low)	1.7/1.1 km/h	1.7/1.1 km/h
Max. gradeability	40%	40%
POWER PLANT		
Model	Mitsubishi 6D24-TE1	Mitsubishi 6D24-TE1
Type	Water-cooled, direct fuel injection, with turbocharger	Water-cooled, direct fuel injection, with turbocharger
Rated power (SAE)	184 kW(250 PS) at 2,000 min ⁻¹ (rpm)	184 kW(250 PS) at 2,000 min ⁻¹ (rpm)
Max. torque	103 N·m (105 kg·m) at 1,400 rpm	103 N·m (105 kg·m) at 1,400 rpm
Fuel tank capacity	400 liters	400 liters
HYDRAULIC PUMPS		
Load hoist, boom hoist and propel system	2 variable displacement pumps	2 variable displacement pumps
Swing system	1 variable displacement pump	1 variable displacement pump
Control system and aux.	3 gear pumps	3 gear pumps
Max. relief valve pressure	30.9 MPa (315 kg/cm ²)	30.9 MPa (315 kg/cm ²)
Reservoir capacity	450 liters	450 liters
HYDRAULIC MOTORS		
Load hoist	Two hydraulic variable piston motors	
Boom hoist	One hydraulic variable piston motor	
Swing	One hydraulic piston motor	
Propel	Two 2-speed hydraulic piston motors	
WEIGHT		
Operating weight (mass)	Approx. 53.0 tons	Approx. 69.0 tons
Ground pressure	Average 68 KPa (0.69 kg/cm ²)	Average 78 KPa (0.80 kg/cm ²)
Counterweight (mass)	Five-piece, total weight: 15.8 tons	Three-piece, total weight: 22.9 tons

Note: Due to our policy of continual product improvements all designs and specifications are subject to change without advance notice.

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