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SUMITOMO S-468HD Basic Machine



Upper Machinery

UPPER FRAME: All-welded, precision machined unit with integral chinery side housings

TURNTABLE BEARING WITH INTEGRAL SWING GEAR: Outer race is bolted to upper frame, inner race with

internal ring gear is bolted to lower frame. Swing pinion meshes with internal, integral ring gear machined surface is provided for mounting turntable bearing.

CONTROL SYSTEM: Main/aux. drums-Speed-O-Matic pov hydraulic system that includes a gear pump to proride a constant flow of oil, an accumilator to maintain operating pressure and variable pressure control valves to regulate this pressure to all the clutches Boom hoist/travel - Remote controlled hydraulic servo. Swing-Direct controlled hydraulic Working speed can be privisely controlled by lever

stroke. HYDRAULIC SYSTEM: System combining variable displacement axial piston pumps and fixed displacement gear pumps providing oil flow to each function and drum

control enable both independent and combined operations LOAD HOIST ASSEMBLY: Front and rear operating drums

driven by spur gear in oil bath. Drums - One piece, mounted on involute splined shaft. Dual type lagging is available for double lined bucket

work (option). Clutches - Speed-O-Matic power hydraulic actuated, internal

expanding, self-adjusting 2-shoe type. Brakes - External contracting band. Automatic b (option for main drum only; automatically applied when control lever in neutral position) or free fall

mode (mechanically foot pedal operated with lock-

ing latch) can be selected by switch. BOOM HOIST ASSEMBLY: Driven by the bi-directional axial piston motor through reduction gear powering the rope drum in either direction for boom hoisting or

Brake - Spring applied, hydraulically released multiple disc brake installed in motor, automatically applied when

motor stops. Mechanically operated drum lock pawl

SWING: Driven by 2 sets of bi-directional axial piston motor through planetary reduction gear

Hydralulically applied multiple disc brake. Lock - Mechanically operated pin connection house lock.

Speed - 2.4 rpm (High), 1.3 rpm (Low) OPERATOR'S CAB: Full-vision compartment with safety glass panels, separated from upper machinery.

COUNTERWEIGHT: Mounted on rear of upper frame by bolts. 3 pcs. 30,000 kg.

POWER UNIT:

Make & Model	Mitsubishi 8DC9CT
Туре	Water-cooled, 4-cycle diese engine
No. of cylinders	8
Bore & Stroke	135 x 140mm
Displacement	16,031 cc
Rated output	360 PS/2,200 rpm
Maximum torque	138 kg·m/1,400 rpm
Fuel tank	495 liters
Power take-off	Torque converter

Torque converter with brake clutch (option) - Multiple disc brake installed in torque converter enables load lowering at uniform speed (0 ~ 48 m/min.).

Load lowering speed can be selected suitably on each job requirement, by adjuster located at operator's cab. Recommended for foundation job.

Lower Machinery

LOWER FRAME: All-welded, robust rolled steel, box construc-

SIDE FRAMES: All welded robust rolled steel, Connected to lower frame by axle shim packs, removable for transportation.

ROLLERS: Heat treated, mounted on bushings with floating seals requiring no further lubrication. Double flanged Bottom - 10 pcs. per side frame

3 pcs. per side frame

DRIVE SPROCKETS: Heat treated, involute splined to drive shaft mounted on antifriction bearings

IDLERS: Heat treated, mounted on bushings with floating seals requiring no further lubrication

TRACKS: Heat treated, self cleaning one lug, multiple hinged shoes; 54 pcs. per side frame.

Shoe width - 965mm (standard) 1.118mm (option)

TRAVEL AND STEER: Axial piston motor with spur gear reduclocated at inner drive end of each crawler side frame. Each track is driven simultaneously or individually for straight-line travel or pivot turn, or

the tracks can be counter-rotated for spin turns Brakes - Spring applied, hydraulically released multiple disc brake installed in motor.

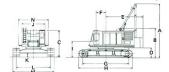
Speed - 1.5 km/h (High), 1.0 km/h (Low)

TRACK TENSION ADJUSTER: Adjusted by hydraulic cylinders at the idler blocks. Tension can be automatically released when abnormal load occured on tracks.

JACK-UP DEVICE (option): Hydraulic jack-up cylinders enable speedy removal of side frames for transportation.

General Dimensions

A: Height of high gantry									
B: Height of low gantry (for transporting	1)								.4.070 m
C: Height of cab		i.							.3.750 m
D: Counterweight ground clearance					ï	ì	ì	ì	.1.355 m
E: Radius of rear end									.5.500 m
F: Center of rotation to boom foot pin .									.1.400 m
G: Center to center distance of tumbler .		i	Ō	ì			Ġ	Ġ	.6.690 m
H: Overall length of crawler		Ċ	Ī	Ċ	Ĺ	Ċ	Ċ	ï	.7.770 m
1: Height from ground to boom foot pin		Ċ		Ġ	Ċ	Ĵ	0		.2.230 m
J: Overall width of cab									.3.400 m
K: Ground clearance									.0.565 m
L: Center to center distance of crawler .								Û	.5.100 m
M: Overall width of crawler				Ī				ľ	
(with 965mm shoe)									.6 065 m
(with 1118mm shoe)									6 219 m
N: Overall width of upper with catwalk .				î			Ċ		4 400 m



We are constantly improving our products and therefore reserve the right to change designs and specifications.

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LS-468HD CRANE CAPACITIES (CTWT "AB"):

(in metric tons)

Working radius									Boom	length	(m)								
(m)	18.30	21.35	24.40	27.45	30.50	33.55	36.60	39.65	42.70	45.75	48.80	51.85	54.90	57.95	61.00	64.05	67.10	70.15	73.2
5.0	100.0																		
5.5	100.0																		
6.0	89.2	82.2	75.1																
7.0	68.6	68.4	68.3	64.4	57.7														
8.0	56.1	55,9	55.8	55.6	55.4	50.0	45.6												
9.0	47.1	46.9	46.8	46.6	46.4	46.3	44.5	40.0	36.6										
10.0	40.6	40.4	40.3	40.1	39.9	39,8	39.6	39.0	35.8	32.6	30.0								
12.0	31.6	31.4	31.3	31.1	30.9	30.8	30.6	30.4	30.3	29.8	28.3	25.8	23.7	21.7					
14.0	25.8	25.6	25.5	25.3	25.1	25.0	24.8	24.6	24.5	24,3	24.1	24.0	22.8	20.6	18.5	17,2	16.4	15,0	
16.0	21.6	21.4	21.3	21.1	20.9	20.8	20,6	20.4	20,3	20.1	19.9	19.8	19.6	19.5	17.6	16.2	15.3	14.0	12.0
18.0		18.5	18.4	18.2	18.0	17.9	17.7	17.5	17.4	17.2	17.0	16.9	16.7	16.5	16.4	15.2	14.2	13.0	11.3
20.0		16.1	16.0	15.8	15.6	15.5	15.3	15.2	15.1	14.9	14.7	14.6	14.4	14.2	14.1	13.9	13.1	12.0	10.
22.0			14.1	13.9	13.7	13.6	13.4	13.2	13.1	12.9	12.7	12,6	12.4	12.2	12.1	11.9	11.7	11.0	9.5
24.0				12.4	12.2	12.1	11.9	11.7	11.6	11.4	11.2	11.1	10.9	10.7	10.6	10.4	10.2	10.0	9.3
26.0					11.0	10.9	10.7	10.5	10.4	10.2	10.0	9.9	9.7	9.5	9,4	9.2	9.0	8,8	8.5
28.0					9.8	9.7	9.5	9.3	9.2	9.0	8.8	8.7	8.5	8.3	8.2	8.0	7.8	7.7	7.
30.0						8.8	8.6	8.4	8.3	8,1	7,9	7.8	7,6	7.4	7.3	7.1	6.9	6.8	6.
32.0							7.9	7.7	7,6	7.4	7.2	7.1	6.9	6.7	6.6	6.4	6.2	6.1	5.
34.0						-		7.0	6.9	6.7	6.5	6.4	6.2	6.0	5.9	5.7	5.5	5,4	5.3
36.0								6.3	6.2	6.0	5.8	5.7	5.5	5.3	5.2	5.0	4.8	4.7	4.
38.0			- 6						5.7	5.5	5.3	5.2	5.0	4.8	4.7	4.5	4.3	4.2	4.6
40.0										5.1	4.9	4.8	4.6	4.4	4.3	4.1	3.9	3,8	3.
42.0											4.4	4.3	4.1	3.9	3.8	3.6	3.4	3.3	2.
44.0					9						4.0	3.9	3.6	3.4	3.3	3.1	2.9	2.8	2.
46.0					0							3.6	3.4	3.2	3,1	2.9	2.7	2.4	2.
48.0													3.1	2.9	2.8	2.6	2.3	2.0	1.8
50.0				-										2,6	2.5	2.2	1.9	1.7	1.
52.0												-		2.3	2.1	1.8	1.6	1.4	1.3
54.0															1.7	1.5	1.3	1.2	
56.0														-	1.5	1.3			

Notes:

 Capacities shown are in metric tons and are based on 75% of minimum tipping loads — over the side — with machine standing level on firm supporting surface under ideal job conditions. Deductions from the lifting crane capacities must be made for weight of hook block.

weight of hook block.			
Kind of hook block	100 t	40 t	13 t
Weight of hook block (t)	1.4	1.0	0.5

- Mid point cable should be used when operate with 64,05m or longer boom length.
- When operating of the main boom peak sheave with jib on boom, following deductions in above crane lifting capacities must be made.

iust be made.		0.000	
Jib length (m)	12.20	18.30	24.40
Weight to be deducted (t)	2.0	3.0	5.0



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S-468HD Crane 100 metric tons

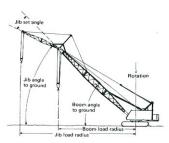
Working radius	100	53.03	40.0	No.		80.00		Boom	length	(m)	1	10.0				12.43	
(m)	18.30	21.35	24.40	27.45	30.50	33.55	36.60	39.65	42.70	45.75	48.80	51.85	54.90	57.95	61.00	64.05	67.10
5.0	100.0															-	
5.5	85.7																
6.0	75.8	75.6	75.5														
7.0	56.2	56.0	55.9	55.7	55.5												
8.0	46.0	45.8	45.7	45.5	45.3	45.2	45.0										
9.0	35.0	34.8	34.7	34.5	34.3	34.2	34.0	33.8	33.7								
10.0	33.2	33.0	32.9	32.7	32.5	32.4	32.2	32.0	31.9	31.7	31.5						
12.0	25.8	25.6	25.5	25.3	25.1	25.0	24.8	24.6	24.5	24.3	24.1	24.0	23.7	21.7			
14.0	21.0	20.8	20.7	20.5	20.3	20.2	20.0	19.8	19.7	19.5	19.3	19,2	19.0	18.8	18.5	17.2	16.4
16.0	17.5	17.3	17.2	17.0	16.8	16.7	16.5	16.3	16.2	16.0	15.8	15,7	15,5	15,3	15.2	15.0	14.8
18.0		14.9	14.8	14.6	14.4	14.3	14.1	13.9	13.8	13.6	13.4	13.3	13.1	12.9	12.8	12.6	12.4
20.0		12.9	12.8	12.6	12.4	12.3	12.1	11,9	11.8	11.6	11,4	11,3	11,1	10.9	10.8	10.6	10.4
22.0			11.3	11.1	10.9	10.8	10.6	10.4	10.3	10.1	9,9	9.8	9,6	9,4	9.3	9.1	8.9
24.0				9.8	9.6	9.5	9.3	9.1	9.0	8.8	8.6	8.5	8.3	8.1	8.0	7.8	7.6
26.0					8.5	8.4	8.2	8.0	7.9	7.7	7.5	7,4	7.2	7.0	6.9	6.7	6.5
28.0					7.6	7.5	7.3	7.1	7.0	6.8	6.6	6.5	6.3	6.1	6.0	5.8	5.6
30.0						6.8	6.6	6.4	6.3	6.1	5.9	5.8	5.6	5.4	5.3	5.1	4.9
32.0							6.0	5.8	5.7	5.5	5.3	5.2	5.0	4.8	4.7	4.5	4.3
34.0	_						-	5.2	5.1	4.9	4.7	4.6	4.4	4.2	4.1	3.9	3.6
36.0								4.6	4.5	4.3	4.1	4.0	3.8	3.6	3.5	3.2	3.0
38.0									4.1	3.9	3.7	3.6	3.4	3.2	3.0	2.8	2.5
40.0										3.5	3.3	3.2	3.0	2.7	2.6	2.3	2.1
42.0											3.0	2.9	2.6	2.4	2.2	2.1	1.7
44.0											2.7	2.5	2.3	2.0	1.9	1.6	
46.0												2.1	1.8	1.6			

LS-468HD JIB CAPACITIES:

(in metric tons)

Ph. Leavel (-)	Jib s	et angle
Jib length (m)	10°	30°
12.20	13.0	8.0
18.30	10.0	6.0
24.40	6.0	4.5

- 1. The jib capacities are equal to the crane lifting capacities of the main boom on which the jib is fixed except that they are restricted by the maximum jib capacities shown above. 2. The jib angle to boom must not exceed 30° when lifting. 3. Min, boom length of jib setting is 39.65 m.





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LS-468HD CRANE WORKING RANGES:

