

SUMITOMO SC 2000-3

Note: We are constantly improving our products and therefore reserve the right to change designs and specifications without notice.
Units in this specification are shown under International System of Units; the figures in parenthesis are under Gravitational System of Units as old one.

SUMITOMO



PAX Series

SC 2000-3

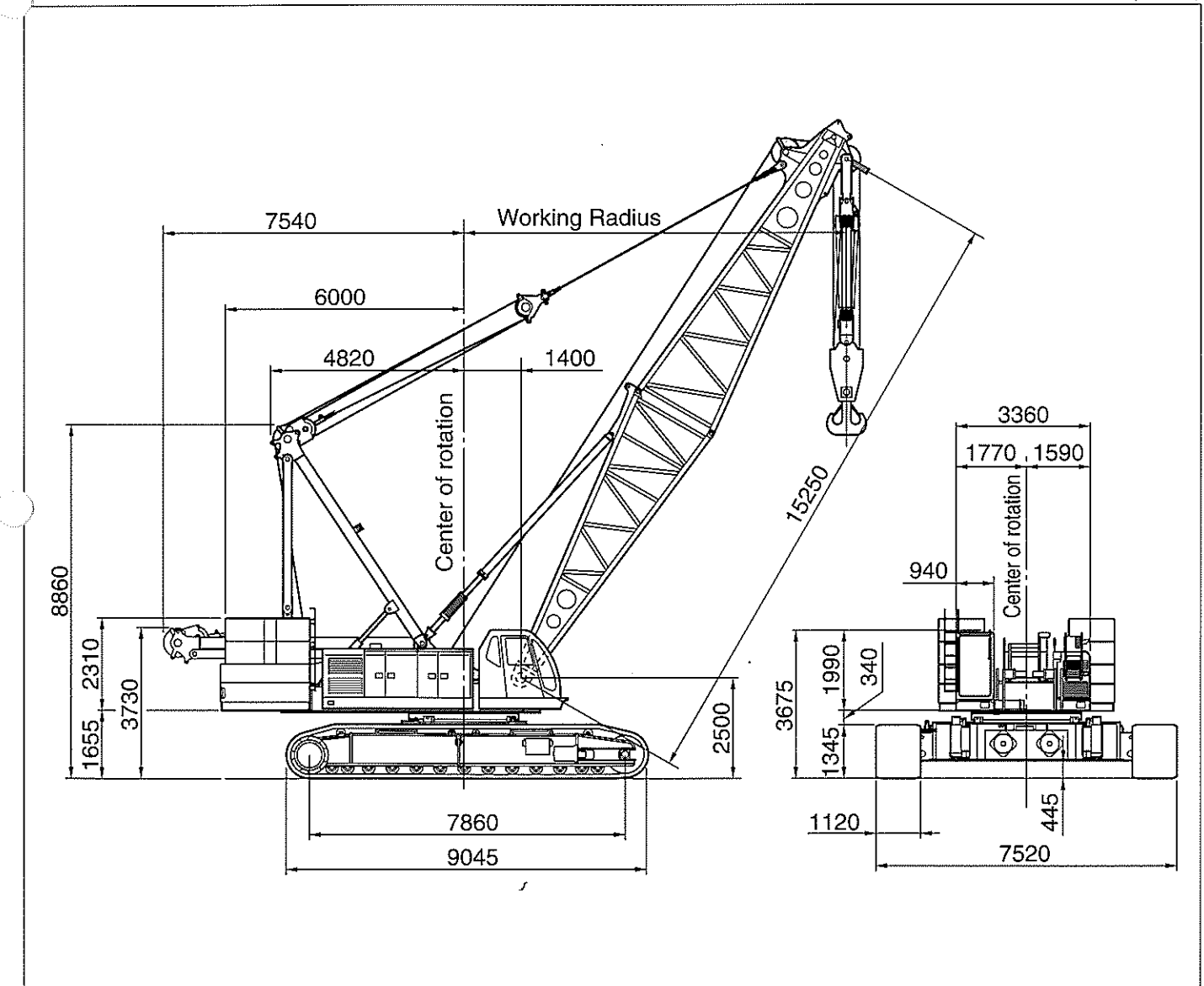
200-M ton Hydraulic Crawler Crane & Cable Excavator



Technical Data

General Dimensions:

(in mm)



SUMITOMO HEAVY INDUSTRIES CONSTRUCTION CRANE CO., LTD.

5-9-11, Kita-shinagawa, Shinagawa-ku, Tokyo 141-8686, Japan
Phone: 81-3-5421-8586
Facsimile: 81-3-5798-4264

Address Inquires to:

Specifications

SUMITOMO

SC 2000-3

Basic Machine

Superstructure

UPPER REVOLVING FRAME:

All-welded, precision machined, robust construction. A machined surface provided for mounting load hoist and boom hoist assemblies, and mounting itself on turntable bearing.

TURNTABLE BEARING WITH INTERNAL SWING GEAR:

Single shear ball type; inner race of turntable bearing with integral, internal swing (ring) gear bolted to carbody frame, and outer race of turntable bearing bolted to upper revolving frame.

CONTROL SYSTEM:

System contains one set each of duplicate and triplicate tandem valves which direct oil to various machine function and are actuated by control levers via remote controlled hydraulic servo for all motions. Working speeds can be precisely controlled by motorcycle type throttle and pilot-operated arm chair single axis control levers in cooperation with SUMITOMO's patented "SC" controller that varies engine rpm and hyd. pump discharge simultaneously, or varies just hyd. pump discharge while keeping engine rpm. System also takes SUMITOMO's unique EEP SA (Electrical Engine Pump Sensing Analyzer) to maximizes drum horsepower, and reduces horsepower loss with eliminating the possibility of engine stall.

Pump control system — By SUMITOMO's patented "SC" controller that provides two modes of engine-pump control.

MODE I:

The SC Controller is normally programmed to vary the engine speed and pump discharge simultaneously. Simply twisting the grip advances the engine to maximum speed and the hydraulic pumps to maximum flow at the same time. This mode is suitable to precision crane work.

MODE II:

By activating a switch, it is able to vary just the pump discharge by means of the grip throttle, while keeping engine speed fixed. Mode II is convenient for operations such as lifting magnet and bucket work, where the engine is normally run at full throttle.

HYDRAULIC SYSTEM:

System provided with three variable displacement axial piston pumps and one fixed displacement duplicate tandem gear pump for both independent and combined operations of all functions. Gear pump also used for system valves and cylinder controls.

Main/aux. crane hoist motors — Variable displacement axial piston motor with counterbalance valve and spring-applied/hydraulically released multiple wet-disc type automatic brake.

Boom hoist motor — Twin-designed motor with axial piston type with counterbalance valve and spring-applied/hydraulically released multiple wet-disc type automatic brake.

Swing motor — Two; axial piston type with spring-applied/hydraulically released multiple wet-disc type manually controlled brake.

Travel motors — Shoe-in design; axial piston motor with brake valve and spring-applied/hydraulically released multiple wet-disc type automatic brake.

Independent hyd. circuits — Available in between hydraulic circuits of P1 main pump and front main drum winch motor, and between P2 main pump and rear main drum winch motor.

Hydraulic oil reservoir — 410 liters capacity.

LOAD HOIST ASSEMBLY:

Front and rear main operating drums driven by independent hydraulic motor of bi-directional, variable displacement axial piston motor through 2-stage planetary reduction gear units powering the rope drum in either direction for hoisting and lowering load. Each of drum sized in same dimension.

Clutches — Optional extra; internal expanding, self-adjusting, mono-band design with non-asbestos lining; spring-applied, power hydraulically released.

Brakes — Optional extra; 1,270mm dia. by 170mm wide brake drum; external contracting band type with non-asbestos lining; operated by power hydraulically assisted foot pedal with locking latch. Two brake modes are available; for crane operation, automatic brake, spring-applied, power hydraulically released is applied when control lever is in neutral position, and for bucket operation.

Drums — One piece, parallel grooved lagging with locking ratchet wheel cast integral; mounted on drum shaft through anti-friction bearings.

Drum locks — With free fall device: Electrically operated pawl with switch. Without free fall device: Power hydraulically operated pawl with lever.

Drum rollers — Optional extra; available for right cable winding onto drums.

BOOM HOIST ASSEMBLY:

Twin-drum design; driven by two bi-directional, axial piston hydraulic motor through 2 sets of 2-stage planetary reduction gear unit powering the rope drum in either direction for hoisting and lowering boom.

Brake — Spring-applied, power hydraulically released multiple wet-disc type automatic brake.

Drum — One piece, twin-designed parallel grooved with locking ratchet wheel cast integral; mounted on drum shaft through anti-friction bearings.

Drum lock — Power hydraulically operated pawl.

SWING:

Driven by two units of bi-directional, axial piston hydraulic motors through 2 sets of planetary reduction gear unit powering swing pinion. Swing pinion meshes with internal

teeth of swing (ring) gear of turntable bearing inner race.

Brakes — Manually controlled; spring-applied, power hydraulically released multiple wet-disc type; provided on each of hydraulic motor.

Swing speed control — Max. swing speed can be tuned to arbitrary value by tuning dial that varies pump displacement.

Lock — Mechanically operated drop pin.

Speed — 1.7min.⁻¹ <1.7rpm>

GANTRY:

A-frame type; raised and lowered by power hydraulic cylinders.

OPERATOR'S CAB:

Operator's cab can swing to be compact within 3.2m in width for transportation with side frame dismantled.

940mm wide; acoustically treated, all new stamped, automotive type, full-vision, cushion rubber mounted, well-ventilated, full compartment, roomy operator's cab with large curved front window; provided with an arrangement of "SC" control/swing lever, sunvisor, sunshade, rear-view mirrors, intermittent dual window shield wipers with washer on both front and roof windows, and roll-down window on sliding door.

Instrument panel — Contains engine monitoring lamps, display panel of SUMITOMO Model SML-10 Load Moment Limiter, and other necessary controllers and switches.

Operator's seat — Full adjustable reclining seat.

Anemometer — Optional extra; recommended for luffing towercrane attachment.

Stone guard — Optional extra; stainless steel-make. This is available for operator's cab protection from outside obstacles.

AM/FM radio — Provided as std. with clock.

Fire extinguisher — Optional extra; powder type with 1kg capacity.

MACHINERY CAB:

Equipped with hinged doors on both sides for machinery access and inspection; tape-type non-skid material applied to the roof.

CATWALKS:

Optional extra; hitched in place along both sides of machinery cab.

HYDRAULIC TAGLINE WINDER:

Optional extra; provided in front of upper revolving frame, and this is available for preventing a shake of suspended load like clamshell bucket by an 10mm dia. tug cable with light force.

COUNTERWEIGHTS:

Weights 86.3ton consisting of an iron base plate of 10.9ton and 8 blocks, cast, removable, corner-rounded design and eight blocks consist of "A" (10,900kg), "B" (10,900kg), "C" (10,800kg), "D" (10,800kg), "E" (8,500kg), "F" (8,100kg), "G" (7,900kg) and "H" (7,500kg).

AUXILIARY WEIGHT:

Weights 14.0ton in all. Each 7.0ton lower weight is mounted on the front and rear of the lower frame.

ELECTRICAL SYSTEM:

24-volt negative ground system; provided with two maintenance free 12-volt batteries.

LIGHTING SYSTEM:

Includes following lights.
 • Two 70 W working lights;
 • One 10 W interior cab light.

POWER UNIT:

Make & Model	Mitsubishi 6D24-TL
Type	Water-cooled, 4-cycle, direct injection, turbo-charged, diesel w/automatic cooling fan
No. of Cylinders	Six (6)
Bore & Stroke	130 mm x 150 mm
Displacement	11,945 cc
Rated Output	235 kW/2,000 min ⁻¹ < 320 ps/2,000 rpm >
Maximum Torque	1,245 N·m/1,400 min ⁻¹ < 127 kgf·m/1,400 rpm >
Fuel Tank	500 liters

***Note**

6D24-TLU2E

EU Emission Regulations for Off-road Diesel Engines- Stage 2

6D24-TLE2A

Japanese Emission Standards For Diesel Construction Equipment Stage 2.

Undercarriage

CARBODY FRAME:

All-welded, precision machined, box type construction; A machined surface provided for mounting turntable bearing.

CARBODY JACK-UP DEVICE:

Contains four hydraulic jack cylinders attached on carbody jack cylinder beams for extending/retracting, and disassembling/assembling ease of crawler side frames.

Pontoon — All-welded construction; four pontoons each stored at an inside part of jack cylinder beams.

CRAWLER SIDE FRAMES:

All-welded, box type construction, precision machined; Cylinder-joint system can fix side frame and lower frame through operation of cylinders after side frame is hung on guide-pin of lower frame for assembly.

Joint cylinders — For assisting in connection and disconnection of side frames.

Crawler side steps — Provided at both ends of the frames for easy access to superstructure.

DRIVE SPROCKETS:

Cast steel, heat treated; one per side frame. Track drive sprocket assembly bolt-coupled to 3-stage planetary reduction gear unit outer case as an integral part of shoe-in type traction motor. Sealed between parts of rotation and non-rotation of the motor with floating seal.

IDLER WHEELS:

Cast steel, heat treated; one per side frame. Mounted on two bronze bushings with floating seals for lifetime lubrication.

TRACK ROLLERS:

13 per side frame; each cast steel, double flanged, heat treated. All rollers mounted on two bronze bushings with floating seals for lifetime lubrication.

CARRIER ROLLERS:

Four per side frame; cast steel and heat treated. Two rollers are double flanged to be mounted on two bronze bushings. Another two rollers are single flanged to be mounted on single bronze bushing. All rollers are provided with floating seals for lifetime lubrication.

TRACKS:

Heat treated, self-cleaning, multiple hinged track shoes joined by full floating pins; 58 pcs. per side frame.

Shoe width — 1,120mm wide as standard.

Track adjustment — Manual adjustment device with oil jack and shim plate packs is standardized. As an optional extra, that idler wheels automatically adjusted while operation by means of hyd. cylinders actuated by power hydraulic supplied from operational hyd. pumps

of superstructure is available instead.

TRAVEL AND STEERING:

A bi-directional, shoe-in type axial piston hydraulic motor bolt-couples drive sprocket thru 3-stage planetary reduction gear unit outer case at each crawler side frame end for travel and steer. Straight-line travel (forward or reverse), pivot or differential turns, and counter-rotation for spin turns available.

Brake — Spring-applied, hydraulically released multiple wet-disc type automatic brake; located within hydraulic motor. Brakes automatically set when travel levers are in neutral or when engine is shut down.

Travel speed — 1.2/0.8km/hr.

Gradeability — 30% (17°) permissible based on basic machine without front-end attachment.

Safety Devices

SUMITOMO MODEL SML-10 LOAD MOMENT LIMITER:

This is a fully computerized total safe operation control system, and automatic over-load preventing system as standard equipment.

Construction (standard version) — Comprises (1) load detecting device with amplifier for general crane application (except luffing towercrane application), (2) angle detector for crane main boom/luffing towercrane boom (except tower jib), (3) computerized Micro Processing Unit (M.P.U.), and (4) display panel.

Functions — This system functions that if a lifting load reaches a 90% of the rated one specified in the crane capacity chart, an annunciating pre-warning (Approaching Limit) is given; if it is an 100%, a warning is given by red lamp, and annunciating warning (Overload Limit), and all peril side motions are automatically stopped. The machine, however, can be operated in safety side motions.

Display panel indications — Followings are indication details on LCD 1 thru LCD 5:

- After operation modes were set by means of mode setting keys on panel, LCD 1 indicates:
 - liftcrane/luffing towercrane boom length;
 - kind of hook block (for boom of item 1);
 - no. of part-line (for hook block of item 2);
 - tower jib length;
 - kind of hook block (for tower jib of item 4);
 - no. of part-line (for hook block of item 5);
 - liftcrane boom/tower jib upper limit setting angle;
 - liftcrane boom/tower jib lower limit setting angle;
 - lifting curve number ("01" to "03");
 - "attached or non" of aux. short jib, and

(11) lifting load ratio indication with 3 kinds of color lamping (green, yellow and red).

- LCD 2 indicates:
 - engine rpm, or
 - lifting height.
- LCD 3 indicates:
 - present lifting load, or
 - rated load, or
 - remaining load.
- LCD 4 indicates:
 - liftcrane/luffing towercrane boom angle.
- LCD 5 indicates:
 - tower jib angle, or
 - fly jib offset angle;
 - present working radius, or
 - remaining working radius.

Display panel also provided with a fourteen-kind of indication lamp, and a function to indicate letter message on LCD 1 when machine becomes abnormal.

NON FREE-FALL OPERATION SWITCH:

Optional extra; this is for keeping non free-fall operation during operation when it is necessary. Provided with key for switch on-off control.

HOOK OVER-HOIST LIMITING DEVICE:

Interlocked with the SML-10 for automatically preventing a hook over-hoist of crane main boom with functions of automatic drum braking, and warnings by red lamp and annunciating alarm.

BOOM OVER-HOIST AND -LOWERING LIMITING DEVICE:

This is one of key safety devices; interlocked with the SML-10 also for automatically preventing boom over-hoist and -lowering with functions of automatic drum braking, and warnings by red lamp and annunciating alarm. Further boom protection from rapid boom over-hoist by hook over-hoist motion under mal-function of hook over-hoist limiting device is available as one of functions of the SML-10.

BOOM BACKSTOPS:

Dual; telescopic design with spring buffers.

DUAL BOOM OVER-HOIST LIMITING DEVICE:

Additional limit switch located on boom backstops; this is as a further safety device for redundant boom protection.

SWING LOCK:

Mechanically operated drop pin; available to firmly lock superstructure in four positions of facing front or rear or left or right to undercarriage.

DRUM LOCKS:

Power hydraulically operated pawl lock is available on front, rear and boom hoist drum with an automatic locking device as std. Optional extra; electrically operated pawl locks is available on front and rear main drums by manual switch type.

BOOM ANGLE INDICATOR:

Pendulum type; mounted on right-hand side of bottom section of crane main boom.

HOOK LATCH:

Provided on every kinds of hook to prevent

Liftcrane 200 metric tons

- out of place of cable from hook.
- LEVEL GAUGE:**
Bubble type; located on operator's cab floor of superstructure and lower frame.
- LEVER LOCKS:**
Provided on all control levers (except swing lever) to lock levers in neutral.
- SWING ALARM:**
This is by buzzer, and flasher lamps located on both sides of machinery cab.
- ANNUNCIATING ALARMS:**
This is one of functions of the SML-10; provided with sixteen kinds of the alarm like "Approaching Limit".
- SPEED SLOWDOWN DEVICE:**
This is for speed slowdown of hoisting and lowering motions of crane main boom (and/or tower jib in case of luffing towercrane att.) which are available just before automatic stopping to prevent a shock.
- SWING BRAKE LAMP:**
Provided on operator's cab instrument panel; this is available to confirm whether or not swing brake is applied.
- SIGNAL HORN:**
Available as warning just before every kinds of motions from operator.
- FOOL PROOF SHUT-OFF SYSTEM:**
Located in the cab exit; this is available to automatically deactives and locks hydraulic system.
- TRAVEL ALARM:**
Buzzer warns when travel motion is initiated.
- ENGINE MONITORING LAMPS:**
Available for checking engine operating conditions like battery charge, engine oil pressure, radiator coolant level, oil filter clogging, air filter clogging, and battery electrolyte amount.
- EMERGENCY MACHINE STOP BUTTONS:**
Two; each located nearby front main and boom hoist drums. Available when it is necessary to stop all machine motion.
- REAR VIEW MIRRORS:**
Two each provided on front-left and -right corners of super-structure.
- THREE COLOR PERCENTAGE INDICATOR:**
Optional extra; this is with three colours of Green, Yellow and Red. Each colour indicates the load percentage to rated capacity; Green shows less than 90% as safety, Yellow shows 90 to 99% as marginal, and Red shows over 100% as over-loading. As further function, Red lamp comes on automatically when operator cuts off safety device switch absent-mindedly.
- LIFTING HEIGHT METER:**
Optional extra; available to indicate lifting height above ground or depth below ground on display "LCD 2" of SML-10 Load Moment Limiter display panel.
- MICROPHONE & LOUD-SPEAKER:**
Optional extra; this is for operator's convenience for loud speaking.

- ANNUNCIATING SWING ALARM:**
Optional extra; this is additional alarm for swing motion with a caution voice of "now swing, keep clear please!".
- ANNUNCIATING TRAVEL ALARM:**
Optional extra; this is additional alarm for travel motion with a caution voice of "now travel, keep clear please!".
- DRUM LIGHT & MIRROR:**
Optional extra; these are available for checking rope winding onto front and/or rear drum(s).
- AUX. CRANE HOOK OVER-HOIST LIMITING DEVICE:**
Optional extra; this is available for auxiliary crane hoist with optional aux. short jib and/or fly jib. Performs the same function as that of "Hook over-hoist limiting device" mentioned before.

In addition to the above, following safety devices are standard for luffing towercrane attachment.

- TOWER JIB ANGLE DETECTOR:**
This is one of key safety device in a case of luffing towercrane attachment.
- TOWERCRANE LOAD DETECTOR:**
This is also important safety device when luffing towercrane attachment is required.
- TOWER JIB OVER-HOIST AND -LOWERING LIMITING DEVICE:**
Performs all the same function as that of "Boom over-hoist and -lowering limiting device" stated before.
- TOWER JIB HOOK OVER-HOIST LIMITING DEVICE:**
Performs the same function as that of "Hook over-hoist lifting device" described before.
- TOWERCRANE ATT. SELF-ERECTION MODE:**
This is an internal, integral mode as one of key function of the SML-10 for safe self-erection and -laying down of luffing towercrane attachment without fail.
- TOWER JIB BACKSTOPS:**
Dual; telescopic design with spring buffers.
- DUAL TOWER JIB OVER-HOIST LIMITING DEVICE:**
Additional limit switch located on tower jib backstops; this is as a further safety device for redundant tower jib protection.

- CRANE BOOM:**
Lattice construction, round tubular main chords, alloy, hi-ten steel, with bracing of round steel tubing.
- Boom connections.....In-line pin connections at 2.10m deep and 2.10m wide for heavy-duty booms, and 1.55m deep 1.55m wide for light-duty booms.
- Basic boom.....Two-piece, 15.25m basic length; 7.60m heavy-duty bottom boom and 7.60m heavy-duty tapered top boom.
- Boom head machinery.....Five head sheaves, three hunger sheaves and two guide sheaves mounted on anti-friction bearings.
- Heavy-duty boom extensions.....Optional extra; available in 3.05m, 6.10m and 9.15m length with pendants.
- Tapered boom extensions.....Optional extra; available in 4.55m with pendants.
- Light-duty boom extensions.....Optional extra; available in 3.05m, 6.10m and 9.15m length with pendants.
- Light-duty tapered top boom.....Optional extra; available in 9.15m with pendants.
- Maximum boom length.....88.40m (combination of heavy-duty and light-duty boom extensions)
73.15m (combination of heavy-duty boom extensions only)

Note: For lift crane application, light-duty boom extensions can be used as tower jib extensions due to interchangeability.

- AUXILIARY SHORT JIB:**
Optional extra; all-welded construction having single sheave head machinery. Pinned to 7.60m heavy-duty tapered top boom and 9.15m light-duty tapered top boom.
- HOOK BLOCKS:**
200/125t, five sheaves plus 3-hanger sheave block with duplex type hook.....Optional extra.
80t, three sheaves.....Optional extra.
35/25t, one sheave.....Optional extra.
13.5t, ball hook.....Optional extra.

- BAIL AND BRIDLE:**
All-welded construction; provided with larger sheaves of a 21.4 D/d ratio on both bail and bridle for 2x8-part boom hoist rope reeving. Bail pinned to A-frame gantry, and bridle suspended between a 2x8-part boom hoist rope and pendant ropes connecting to tip of 7.60m tapered crane top section.

DRUM DATA:

Drum	Root dia.	Type	Line speed (Hoisting, Lowering)	Cable	Max. line pull
Front (main crane hoist) (towercrane hoist) (h/grab crown holding via hook) (c/bucket holding) (MHL/MEH bucket hoist)	576mm	Parallel grooved	120 ~ 2mpm	28mm	245kN (25.0ton)
Rear (aux. crane hoist) (tower jib hoist) (h/grab holding & closing) (c/bucket closing) (MHL/MEH bucket hoist)	576mm	Parallel grooved	120 ~ 2mpm *51 ~ 2mpm	28mm	245kN (25.0ton)
Boom hoist	504mm	Parallel grooved	2 x (24 ~ 1.0) mpm	22.4mm	165kN (16.9ton) x 2

Notes:

- Line speed is based on drum first layer and rated engine rpm.
- Hoisting line speed varies under load and operating conditions.
- The figures with asterisk mark (*) indicate rope line speed in a case of luffing towercrane application.

Liftcrane Capacities

HOIST REEVING:

		ton											
		16	14	12	10	8	7	6	5	4	3	2	1
hook	No. of partline												
	200/125t	200.0	175.0	150.0	125.0	100.0	—	75.0	—	50.0	—	25.0	—
	80t	—	—	—	—	—	—	80.0	75.0	62.5	50.0	37.5	25.0
	35/25t	—	—	—	—	—	—	—	—	—	—	35.0	25.0
	13.5t	—	—	—	—	—	—	—	—	—	—	—	13.5

CABLES:

- Front drumP-S (19)+39×P-7, non-spin type, 28mm dia./410m long, breaking load 755kN (77.0t).
- Rear drumP-S (19)+39×P-7, non-spin type, 28mm dia./350m long, breaking load 755kN (77.0t).
- Boom hoist drumXP rope with construction of IWRC 6×P-WS (31), 22.4mm dia./310m long, breaking load 417kN (42.5t).

WORKING WEIGHT & GROUND PRESSURE:

Shoe width	Weight	Pressure
1,120mm	200t	108kPa <1.10kg/cm²>

Note: Working weights shown above are respectively with 15.25m basic boom, 86.3ton counterweight, 14.0ton lower weight, and optional 200ton hook block.

w/7.60m Tapered Crane Heavy Top Section

Boom length (m) Working radius (m)	15.25	18.30	21.35	24.40	27.45	30.50	33.50	36.55	39.60	42.65	45.70	48.75	51.80	54.85	57.90	60.95	64.00	67.05	70.10	73.15	
4.0	200.0/4.6																				
5.0	200.0	192.1/5.2	175.0/5.7																		
6.0	184.7	183.2	175.0	150.0/6.2	150.0/6.8																
7.0	163.5	163.3	162.8	150.0	150.0	125.0/7.3	124.9/7.8														
8.0	143.8	143.6	143.1	142.8	142.5	125.0	124.1	100.0/8.3	100.0/8.9												
9.0	128.2	128.0	127.6	127.3	127.0	125.0	120.4	100.0	100.0	94.9/9.4	80.0/9.9										
10.0	115.6	115.4	115.0	114.7	114.4	114.7	114.4	100.0	100.0	93.5	80.0	75.0/10.5	72.6/11.0	67.0/11.5							
12.0	89.6	89.5	89.3	89.2	89.0	89.5	89.3	89.4	89.2	88.9	80.0	75.0	71.1	66.3	61.9	56.7/12.6	50.0/13.1	48.1/13.6			
14.0	71.9	72.0	71.8	71.7	71.4	71.9	71.7	71.7	71.5	71.2	71.1	71.1	68.4	63.8	59.4	55.3	50.0	47.8	44.3/14.2	37.5/14.7	
16.0	63.5/14.8	60.1	59.8	59.6	59.3	59.8	59.5	59.6	59.4	59.1	58.9	58.9	58.8	58.4	57.3	53.4	49.6	46.3	43.0	37.5	
18.0		53.3/17.5	51.0	50.8	50.5	51.0	50.7	50.7	50.5	50.2	50.1	50.0	49.7	49.5	49.5	49.2	48.0	44.8	41.6	37.5	
20.0			44.4	44.2	43.8	44.3	44.0	44.0	43.8	43.4	43.3	43.2	42.9	42.7	42.4	42.3	42.2	42.3	42.2	40.3	36.6
22.0			44.1/20.1	38.9	38.6	39.0	38.7	38.7	38.5	38.1	38.0	37.9	37.8	37.4	37.3	37.0	37.0	36.8	36.5	34.0	
24.0				37.3/22.7	34.4	34.7	34.4	34.4	34.2	33.8	33.7	33.6	33.2	33.1	33.0	32.7	32.6	32.4	32.1	31.7	
26.0					31.9/25.4	31.3	30.9	30.9	30.6	30.3	30.1	30.0	29.7	29.5	29.4	29.1	29.1	28.9	28.5	28.5	
28.0						28.3	28.0	27.9	27.7	27.3	27.2	27.1	26.7	26.5	26.5	26.1	26.1	25.9	25.5	25.5	
30.0							25.5	25.4	25.2	24.8	24.6	24.5	24.2	24.0	23.9	23.6	23.5	23.3	23.0	23.0	
32.0							24.7/30.7	23.3	23.0	22.6	22.5	22.4	22.0	21.8	21.7	21.4	21.3	21.1	20.8	20.8	
34.0								22.0/33.3	21.2	20.8	20.6	20.5	20.1	19.9	19.8	19.5	19.4	19.2	18.9	18.8	
36.0									19.6/35.9	19.1	18.9	18.8	18.4	18.3	18.2	17.8	17.7	17.5	17.2	17.2	
38.0										17.7	17.5	17.4	17.0	16.8	16.7	16.3	16.3	16.0	15.7	15.7	
40.0										17.3/38.6	16.2	16.1	15.7	15.5	15.4	15.0	14.9	14.7	14.4	14.3	
42.0											15.5/41.2	14.9	14.5	14.3	14.2	13.8	13.8	13.5	13.2	13.1	
44.0												13.9/43.9	13.5	13.3	13.2	12.8	12.7	12.5	12.1	12.1	
46.0													12.5	12.3	12.2	11.8	11.7	11.5	11.2	11.1	
48.0													12.3/46.5	11.5	11.3	11.0	10.9	10.6	10.3	10.2	
50.0														11.1/49.1	10.6	10.2	10.1	9.8	9.5	9.4	
52.0															9.9/51.8	9.5	9.3	9.1	8.7	8.7	
54.0																8.8	8.7	8.4	8.0	7.9	
56.0																	8.7/54.4	8.1	7.8	7.3	7.2
58.0																		7.7/57.1	7.1	6.7	6.5
60.0																			6.6/59.7	6.1	5.9
62.0																				5.5	5.3
64.0																				5.4/82.3	4.8
66.0																					4.6/85.0

(EC401054)

w/9.15m Tapered Crane Light Top Section

Boom length (m) Working radius (m)	73.15	76.20	79.25	82.30	85.35	88.40
14.0	37.5/14.5	34.5/15.0	32.7/15.5			
16.0	35.9	33.5	32.1	31.5/16.1	25.0/16.5	25.0/17.0
18.0	34.3	31.7	30.4	29.7	25.0	25.0
20.0	32.9	30.2	28.9	28.2	25.0	24.1
22.0	31.6	28.9	27.5	26.9	25.0	23.2
24.0	30.2	27.7	26.3	25.7	24.2	22.1
26.0	28.5	26.2	25.3	24.6	23.1	20.9
28.0	26.0	24.9	24.4	23.5	22.1	20.0
30.0	23.8	23.4	23.1	22.3	21.0	18.9
32.0	21.6	21.7	21.6	20.9	19.9	17.9
34.0	19.8	19.8	19.7	19.7	18.7	16.9
36.0	18.2	18.1	18.1	18.1	17.6	15.9
38.0	16.7	16.6	16.6	16.6	16.3	14.8
40.0	15.3	15.3	15.2	15.2	15.2	13.9
42.0	14.2	14.1	14.1	14.1	14.0	13.1
44.0	13.1	13.0	13.0	13.0	12.9	12.3
46.0	12.1	12.1	12.0	12.0	12.0	11.6
48.0	11.2	11.2	11.1	11.1	11.1	10.9
50.0	10.4	10.4	10.3	10.3	10.3	10.2
52.0	9.7	9.7	9.6	9.6	9.5	9.5
54.0	9.0	9.0	8.9	8.9	8.9	8.9
56.0	8.4	8.4	8.3	8.3	8.3	8.3
58.0	7.8	7.8	7.7	7.7	7.7	7.7
60.0	7.3	7.2	7.1	7.1	7.1	7.1
62.0	6.7	6.6	6.6	6.6	6.6	6.6
64.0	6.2	6.1	6.0	6.0	6.0	6.0
66.0	6.0/64.9	5.6	5.6	5.6	5.6	5.6
68.0		5.3/67.5	5.1	5.1	5.1	5.1
70.0			4.7	4.7	4.7	4.7
72.0			4.6/70.2	4.3	4.3	4.3
74.0				4.1/72.8	3.9	3.9
76.0					3.7/74.8	3.5
78.0						3.2/77.4

(EC401054)

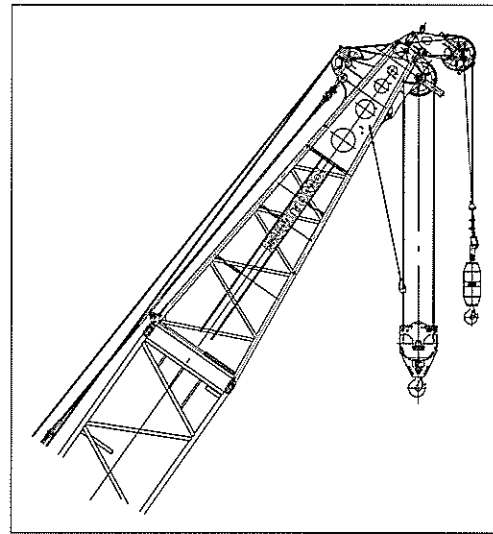
Liftcrane Working Ranges

Notes — Liftcrane capacities

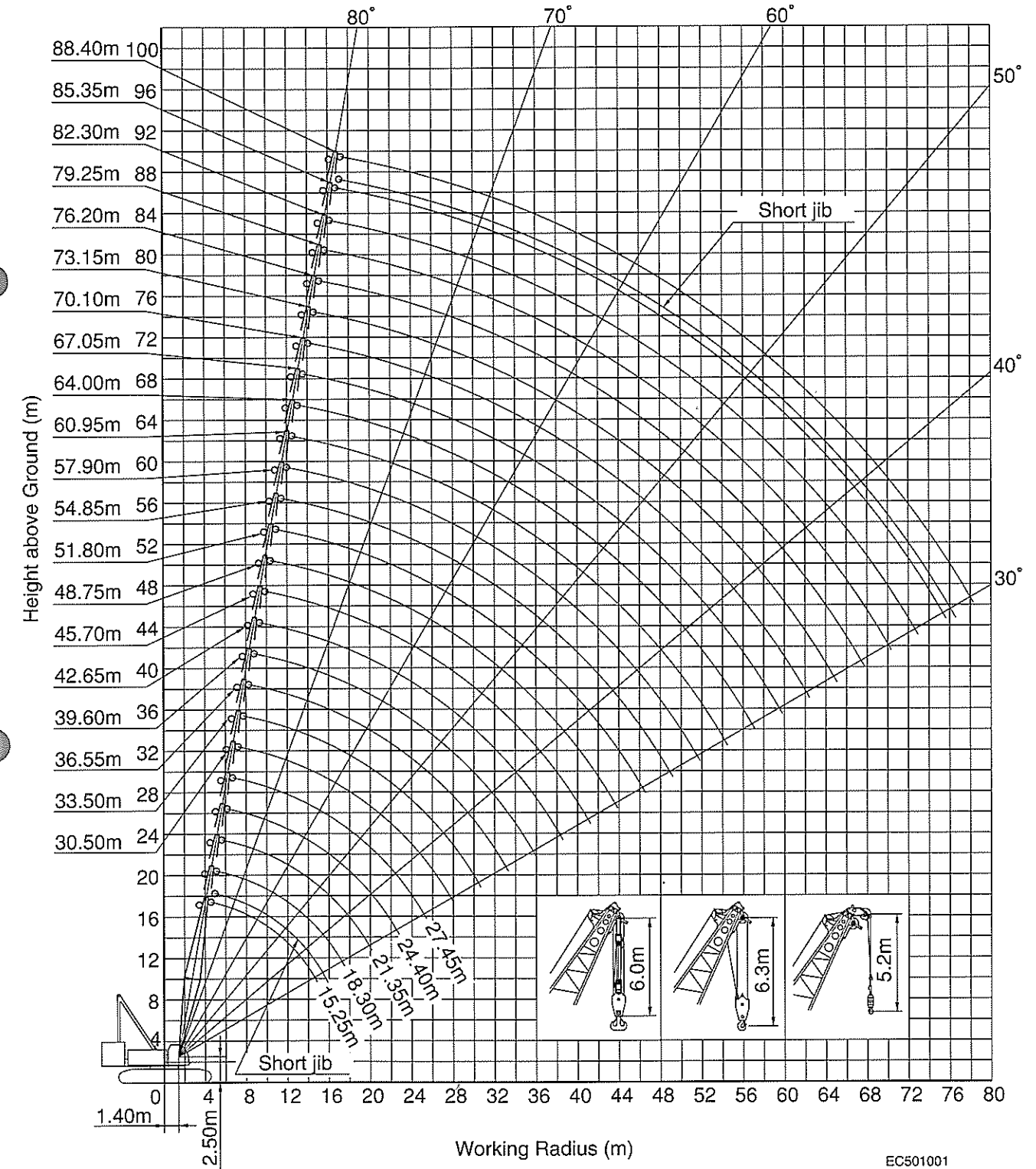
1. Capacities included in this chart are the maximum allowable, and are based on machine standing level on firm supporting surface under ideal job conditions.
2. Capacities are in metric tons, and are not more than 78% of minimum tipping loads except the figures surrounded by bold lines which are based on other factor of machine structural strength limitation.
3. Capacities are based on freely suspended loads and make no allowance for such factors as the effect of wind, sudden stopping of loads, supporting surface conditions, and operating speeds. Operator must reduce load ratings to take such conditions into account. Deduction from rated capacities must be made for weight of hook block, weighted ball/hook, sling, spreader bar, or other suspended gear.
SUMITOMO's hook block weight is as follows:
200t.....3.0ton 125t2.5ton 80t1.4ton
35/15t.....0.9ton 13.5t0.6ton
4. All capacities are rated for 360° swing.
5. Least stable rated condition is over the side.
6. An 86.3ton counterweight and 14.0ton lower weight (7.0tonx2) are required for all capacities on this chart.
7. Attachment must be erected and lowered over the ends of the crawler mounting.
8. Main boom length must not exceed 88.40m.
Maximum boom length when mounting auxiliary short jib is 85.35m.
9. Capacities when handling load off main boom head sheaves in case of mounting auxiliary short jib on top of boom are detailed; if required, please consult us or nearest distributor.
10. Boom combination shall be in accordance with manufacture's standard described here in "Boom Combination Diagram".
11. Capacities apply only to machine as originally manufactured and normally equipped by Sumitomo Heavy Industries Construction Crane Co., Ltd.

SC2000-3 AUXILIARY SHORT JIB CAPACITIES: Max. 13.5ton

Note: Jib capacities is almost equal to the figures made by the deduction of an 600kg from the liftcrane capacities for boom length up to 85.35m unless restricted by the maximum jib capacity shown above. As to the details, please consult us or nearest distributor.



Auxiliary short jib (Option)



EC501001

Boom Combination Diagram

Standard and Optional Equipment

Boom length (m)	Boom combination
15.25	
18.30	
21.35	
24.40	
27.45	
30.50	
33.50	
36.55	
39.60	
42.65	
45.70	
48.75	
51.80	
54.85	
57.90	
60.95	
64.00	
67.05	
70.10	
73.15	
76.20	
79.25	
82.30	
85.35	
88.40	

Note:
The meanings of figures and symbols shown above are as follows:

- | | |
|--|---|
| : 7.60m heavy-duty bottom section | : 4.55m tapered boom extension |
| : 7.60m heavy-duty tapered top section | : 9.15m light-duty boom extension |
| : 9.15m light-duty tapered top section | : 6.10m light-duty boom extension |
| : 9.15m heavy-duty boom extension | : 3.05m light-duty boom extension |
| : 6.10m heavy-duty boom extension | * : Midpoint link installing position; it is required to install midpoint link when boom length is 73.15m and over. |
| : 3.05m heavy-duty boom extension | |

	Standard equipment	Optional equipment
Superstructure	<ul style="list-style-type: none"> • Mitsubishi 6D24-TL diesel engine with an 235kW <320ps> rated output; • Hydraulic system with three variable displacement axial piston pumps and one fixed displacement duplicate tandem gear pump; • Control system with one each of duplicate and triplicate tandem valves and pilot-operated arm chair single axis control levers; • Motorcycle type "SC" controller (easy-precise-minute engine rpm and hyd. pump oil flow control device); • Front and rear main operating drum winches of 25ton line pull with 576mm dia. drum lagging driven by independent variable hyd. motor with independent hyd. circuit; • Boom hoist mechanism driven by hyd. motor with automatic brake; • Swing mechanism with turntable bearing; driven by two hyd. motors w/manually controlled multiple wet-disc brake; • Power hydraulically retractable A-frame gantry; • All new stamped, automotive type, full-vision operator's cab with large curved front window; provided with an arrangement of control system and instrument panel; • 86.3ton counterweight; • 14.0ton (7.0tonx2) lower frame; • Machinery cab with hinged doors; • 24-volt electrical system with two 12-volt batteries; • Lighting system: <ul style="list-style-type: none"> • Two 70W working lights; • One 10W interior cab light; • Accessories: <ul style="list-style-type: none"> • AM/FM radio w/clock; • Engine hourmeter; • Engine tachometer; • Fuel gauge; • Thermometer; • Hyd. oil temp. gauge; • Pilot line pressure gauge; • Foot throttle; • Intermittent dual window shield wipers with washers; • Cigar lighter; • Ash tray; • Book holder; • Sunvisor; • Sunshade; • Cup Holder; • Non-skid surfaces; • Cab front step; • Cab floor mat; • Superstructure under-cover. • Std. spare parts and tools. 	<ul style="list-style-type: none"> • Tagline winder; • Anemometer; recommended for luffing tower crane operation; • Drum rollers; available on front/rear main; • Stone guard; this is for operator's cab; • Fire extinguisher; • Catwalks, along both sides of machinery cab; • Built-in type full air-conditioning; • Re-fuel pump; • Heater; • Brakes; available on front/rear main drum; • Clutches; available on front/rear main drum.

	Standard equipment	Optional equipment
Undercarriage	<ul style="list-style-type: none"> • 6,400mm gauge by 9,045mm long crawler lower with removable crawler side frames; • Crawler drive units with shoe-in type traction motor with wet-disc type automatic brakes; • 1,120mm wide track shoes; • Manual track tension adjusting devices; • Carbody jack-up device w/4-vertical hyd. jack-up cylinder and remote control unit; • Lifetime lubricated track components; • Crawler side steps; • Joint cylinders. 	<ul style="list-style-type: none"> • Automatic track tension adjusting device, i/o manual one as std.
Liftcrane Att.	<ul style="list-style-type: none"> • 15.25m basic crane boom; 7.60m bottom section and 7.60m tapered crane top section w/five head sheaves, three hanger sheaves and two guide sheaves; • Bail and bridle assemblies; • Main crane hoist cable; 28mm dia./410m long; • Boom hoist cable; 22.4mm dia./310m long; • Hydraulic boomfoot pin removal system. 	<ul style="list-style-type: none"> • 3.05m heavy-duty boom extension; • 6.10m heavy-duty boom extension; • 9.15m heavy-duty boom extension; • 4.55m tapered boom extension; • 3.05m light-duty boom extension; • 6.10m light-duty boom extension; • 9.15m light-duty boom extension; • 9.15m light-duty tapered top boom; • Auxiliary short jib; • 200/125t with duplex type hook block; • 80t hook block; • 35/25t hook block; • 13.5t ball hook; • Aux. crane hoist cable, 28mm dia./350m long.

	Standard equipment	Optional equipment
Luffing Towercrane Att.		<ul style="list-style-type: none"> • 1.50m tower head section; provided with rope guide sheave and tower jib hoist pendant cable guide rollers; • 6.10m special tower boom extensions; • Fan-shaped post; • 27.45m basic tower jib; 9.15m bottom section, 9.15m light-duty extension and 9.15m light-duty top section; • 3.05m light-duty extension; • 6.10m light-duty extension; • 9.15m light-duty extension; • Tower jib hoist bail and bridle assemblies; • Towercrane hoist cable, 28mm dia./410m long; • Tower jib hoist cable, 28mm/180m long; • 35t hook block (as same as an optional 35t hook block of liftcrane att.); • 13.5t ball hook (as same as an optional 13.5t ball hook of liftcrane att.). <p>Note: Boom bottom section of 9.15m long and light-duty boom extensions of 3.05m, 6.10m and 9.15m long for both liftcrane and luffing towercrane attachments are common each other.</p>
Safety Devices	<ul style="list-style-type: none"> • SUMITOMO SML-10 Load Moment Limiter; this is a computerized automatic over-load preventing system with an all-machine-control purpose computer; • Sixteen kinds of annunciating alarms; • Main and aux. drum pawl locks; • Boom hoist drum pawl lock; • Swing lock; • Swing alarm; • Hook over-hoist limiting device; • Boom over-hoist and -lowering limiting device; • Dual boom over-hoist limiting device; • Boom backstops; • Speed slowdown device; • Boom angle indicator; • Level gauge; fitted on floor of operator's cab; • Swing brake lamp; • Signal horn; • Travel alarm; • Hook latch; • Control lever locks; • Fool proof shut-off system; • Engine monitoring lamps; • Rear view mirrors; • Emergency machine stop buttons; • Level gauge: fitted on a part of undercarriage. 	<ul style="list-style-type: none"> • Annunciating swing alarm; • Annunciating travel alarm; • Aux. hook over-hoist limiting device; • Lifting height meter; • Three color percentage indicator; • Radiophone; • Microphone & loud-speaker; • Drum light. <p>Followings are standard in case of luffing tower-crane attachment:</p> <ul style="list-style-type: none"> • Tower jib angle detector; • Towercrane load detector; • Tower jib hook over-hoist limiting device; • Tower jib over-hoist and -lowering limiting device; • Towercrane att. self-erection mode; • Tower jib backstops; • Dual tower jib over-hoist limiting device.

SUMITOMO SC 2000-3

SUPPLEMENTARY TECHNICAL DATA

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

SUMITOMO

PAX Series

SC 2000-3

200-M ton Hydraulic Crawler Crane & Cable Excavator



SUPPLEMENTARY TECHNICAL DATA

FLY JIB CAPACITIES

These fly jib capacities are under the conditions of boom length from 45.70m through 73.15m.

LIFTCRANE CAPACITIES with fly jib on top of main boom

These capacity charts show the figures when handling load off main boom head sheaves in a case of mounting fly jib on top of main boom.

SUMITOMO HEAVY INDUSTRIES CONSTRUCTION CRANE CO., LTD.

Head office
5-9-11, Kita-shinagawa, Shinagawa-ku, Tokyo 141-8686, Japan
Telephone: 81-3-5421-8586 Facsimile: 81-3-5798-4264
<http://www.sumitomocrane.com>
Nagoya Factory
6-1, Asahi-cho, Obu, Aichi 474-8550, Japan
Telephone: 81-562-48-5151 Facsimile: 81-562-45-0241



Certificate No. 82800



Certificate No. 82800



Certificate No. EMSC-1242 Rev.1

Address Inquires to:

Fly Jib Capacities

■ w/45.70m Boom

Fly jib length (m)	12.20				18.30				24.40				30.50				36.55					
	10		30		10		30		10		30		10		30		10		30			
	2-part	1-part	2-part	1-part	2-part	1-part	2-part	1-part	2-part	1-part	2-part	1-part	2-part	1-part	2-part	1-part	2-part	1-part	2-part	1-part		
14.0	25.0/14.1	13.5/14.5																				
16.0	25.0	13.5	14.9/17.0	13.5/17.7	19.5/16.7	13.5/17.1																
18.0	25.0	13.5	14.7	13.5	19.1	13.5		12.9/19.2														
20.0	25.0	13.5	14.4	13.5	18.6	13.5	10.6/21.6	12.8				7.0/20.8			4.9/21.9							
22.0	24.1	13.5	14.1	13.5	18.0	13.5	10.5	12.5				6.9			4.8							
24.0	23.1	13.5	13.9	13.5	17.5	13.5	10.3	12.3	8.6/25.1			6.8			4.8							
26.0	22.1	13.5	13.5	13.5	16.9	13.5	10.1	12.1	8.5			6.6			4.7							
28.0	21.2	13.5	13.2	13.2	16.4	13.5	9.8	11.9	8.3			6.5	5.4/28.2		4.6							
30.0	20.2	13.5	12.9	12.9	15.9	13.5	9.6	11.7	8.2			6.4	5.3	4.5	3.1/30.8							
32.0	19.3	13.5	12.6	12.6	15.3	13.5	9.4	11.4	8.0			6.3	5.2	4.5	3.0							
34.0	18.3	13.5	12.3	12.3	14.8	13.5	9.2	11.2	7.8			6.2	5.2	4.4	3.0							
36.0	17.3	13.5	12.0	12.0	14.2	13.5	9.0	11.0	7.7			6.0	5.1	4.3	3.0							
38.0	16.4	13.5	11.7	11.7	13.7	13.5	8.7	10.8	7.5			5.9	5.0	4.2	3.0							
40.0	15.4	13.5	11.4	11.4	13.1	13.1	8.5	10.6	7.3			5.8	5.0	4.1	3.0							
42.0	14.4	13.5	11.1	11.1	12.6	12.6	8.3	10.4	7.2			5.7	4.9	4.1	2.9							
44.0	13.5	13.5	10.8	10.8	12.1	12.1	8.1	10.1	7.0			5.5	4.8	4.0	2.9							
46.0	12.5	12.5	10.5	10.5	11.5	11.5	7.9	9.9	6.9			5.4	4.8	3.9	2.9							
48.0	11.6	11.6	10.2	10.2	11.0	11.0	7.6	9.7	6.7			5.3	4.7	3.8	2.9							
50.0	10.6	10.6	9.9	9.9	10.4	10.4	7.4	9.5	6.5			5.2	4.7	3.8	2.8							
52.0	9.6	9.6	9.6	9.6	9.9	9.9	7.2	9.3	6.4			5.1	4.6	3.7	2.8							
54.0	9.6/52.2	9.6/53.2	9.5/52.7	9.5/53.7	9.4	9.4	7.0	9.0	6.2			4.9	4.5	3.6	2.8							
56.0					8.8	8.8	6.8	8.8	6.1			4.8	4.5	3.5	2.8							
58.0					8.3	8.3	6.5	8.6	5.9			4.7	4.4	3.4	2.8							
60.0					8.3/58.1	8.3/59.1	6.4/59.8	8.4	5.7			4.6	4.3	3.4	2.7							
62.0								8.1	5.6			4.5	4.3	3.3	2.7							
64.0								7.6	5.4			4.3	4.2	3.2	2.7							
66.0								7.4/64.8	5.3/65.9			4.2	4.1	3.1	2.7							
68.0												4.1	4.1	3.1	2.7							
70.0												4.0	4.0	3.0	2.6							
72.0												4.0/70.4	4.0	2.9	2.6							
74.0														2.8	2.6							
76.0															2.8/75.8	2.6						
78.0																2.6						

(EC401057)

■ w/51.80m Boom

Fly jib length (m)	12.20				18.30				24.40				30.50				36.55					
	10		30		10		30		10		30		10		30		10		30			
	2-part	1-part	2-part	1-part	2-part	1-part	2-part	1-part	2-part	1-part	2-part	1-part	2-part	1-part	2-part	1-part	2-part	1-part	2-part	1-part		
14.0	25.0/15.1	13.5/15.6																				
16.0	25.0	13.5																				
18.0	25.0	13.5	14.9	13.5/18.7	19.4	13.5/18.2																
20.0	25.0	13.5	14.6	13.5	18.9	13.5																
22.0	24.9	13.5	14.3	13.5	18.4	13.5	10.6/22.7	12.7				6.9			4.9/23.0							
24.0	24.0	13.5	14.0	13.5	17.9	13.5	10.4	12.5				6.8			4.8							
26.0	23.1	13.5	13.8	13.5	17.4	13.5	10.2	12.3	8.6/26.2			6.7			4.7							
28.0	22.3	13.5	13.5	13.5	16.9	13.5	10.0	12.1	8.4			6.6	5.4/29.3		4.7							
30.0	21.4	13.5	13.2	13.2	16.4	13.5	9.8	11.9	8.3			6.5	5.3	4.6	3.1/31.9							
32.0	20.6	13.5	13.0	13.0	15.9	13.5	9.6	11.7	8.1			6.4	5.3	4.5	3.0							
34.0	19.6	13.5	12.7	12.7	15.5	13.5	9.4	11.5	8.0			6.3	5.2	4.5	3.0							
36.0	18.0	13.5	12.4	12.4	15.0	13.5	9.2	11.3	7.8			6.2	5.2	4.4	3.0							
38.0	16.5	13.5	12.2	12.2	14.5	13.5	9.0	11.1	7.7			6.1	5.1	4.3	3.0							
40.0	15.2	13.5	11.9	11.9	14.0	13.5	8.8	10.9	7.5			6.0	5.0	4.2	3.0							
42.0	14.0	13.5	11.6	11.6	13.5	13.5	8.6	10.7	7.4			5.8	5.0	4.2	3.0							
44.0	13.0	13.0	11.3	11.3	13.0	13.0	8.4	10.5	7.2			5.7	4.9	4.1	2.9							
46.0	12.0	12.0	11.1	11.1	12.5	12.5	8.2	10.3	7.1			5.6	4.9	4.0	2.9							
48.0	11.2	11.2	10.8	10.8	11.6	11.6	8.0	10.1	7.0			5.5	4.8	3.9	2.9							
50.0	10.4	10.4	10.5	10.5	10.8	10.8	7.8	9.9	6.8			5.4	4.7	3.9	2.9							
52.0	9.6	9.6	9.8	9.8	10.0	10.0	7.6	9.7	6.7			5.3	4.7	3.8	2.9							
54.0	9.0	9.0	9.1	9.1	9.4	9.4	7.4	9.5	6.5			5.2	4.6	3.7	2.8							
56.0	8.3	8.3	8.4	8.4	8.7	8.7	7.3	9.3	6.4			5.1	4.6	3.7	2.8							
58.0	7.9/57.5	7.9	7.8	7.8	8.1	8.1	7.1	8.7	6.2			5.0	4.5	3.6	2.8							
60.0		7.8/58.5		7.7/59.0	7.6	7.6	6.9	8.1	6.1			4.8	4.5	3.5	2.8							
62.0					7.1	7.1	6.7	7.6	5.9			4.7	4.4	3.4	2.8							
64.0					6.7/63.4		6.7	6.5	7.1			5.8	4.6	4.3	3.4							
66.0							6.7/64.4	6.4/65.1	6.6			5.6	4.5	4.3	3.3							
68.0									6.2			5.5	4.4	4.2	3.2							
70.0									5.7			5.3	4.3	4.2	3.1							
72.0									5.7/70.1	5.3/71.2		4.2	4.1	3.1	2.7							
74.0												4.0	4.0	3.0	2.6							
76.0													4.0/75.7	4.0	2.9	2.6						
78.0														4.0/77.3	2.9	2.6						
80.0				</																		

■ w/70.10m Boom

Fly jib length (m)	12.20				18.30			24.40		30.50		36.55	
	10		30		10		30	10	30	10	30	10	30
	Fly jib offset angle (°)		No. of part line		Fly jib offset angle (°)		No. of part line	Fly jib offset angle (°)	No. of part line	Fly jib offset angle (°)	No. of part line	Fly jib offset angle (°)	No. of part line
Working radius (m)	2-part	1-part	2-part	1-part	2-part	1-part	1-part	2-part	1-part	2-part	1-part	2-part	1-part
18.0	22.6/18.3	13.5/18.7											
20.0	21.9	13.5	14.9/21.2	13.5/21.9	18.0/20.9	13.5/21.4							
22.0	21.2	13.5	14.7	13.5	17.6	13.5		12.9/23.5					
24.0	20.4	13.5	14.2	13.5	17.1	13.5	10.6/25.9	12.8		7.0/25.1			
26.0	19.7	13.5	13.7	13.5	16.5	13.5	10.5	12.8		6.9		4.9/26.1	
28.0	18.9	13.5	13.2	13.2	15.9	13.5	10.4	12.5	8.6/29.4	6.8		4.8	
30.0	18.2	13.5	12.7	12.7	15.4	13.5	10.2	12.3	8.5	6.7		4.7	
32.0	17.4	13.5	12.2	12.2	14.8	13.5	10.1	12.2	8.4	6.6	5.4/32.4	4.7	
34.0	16.7	13.5	11.7	11.7	14.2	13.5	9.9	12.0	8.3	6.5	5.3	4.6	3.1/35.1
36.0	15.9	13.5	11.2	11.2	13.7	13.5	9.8	11.8	8.2	6.5	5.3	4.6	3.0
38.0	15.1	13.5	10.7	10.7	13.1	13.1	9.6	11.7	8.1	6.4	5.2	4.5	3.0
40.0	13.8	13.5	10.2	10.2	12.5	12.5	9.5	11.5	7.9	6.3	5.2	4.4	3.0
42.0	12.6	12.6	9.7	9.7	11.9	11.9	9.3	11.4	7.8	6.2	5.1	4.4	3.0
44.0	11.5	11.5	9.3	9.3	11.4	11.4	9.2	11.2	7.7	6.1	5.1	4.3	3.0
46.0	10.5	10.5	8.8	8.8	10.8	10.8	9.0	11.0	7.6	6.0	5.0	4.3	3.0
48.0	9.7	9.7	8.3	8.3	10.1	10.1	8.9	10.8	7.5	5.9	5.0	4.2	2.9
50.0	8.9	8.9	7.8	7.8	9.3	9.3	8.7	10.0	7.4	5.8	4.9	4.1	2.9
52.0	8.1	8.1	7.3	7.3	8.6	8.6	8.6	9.2	7.3	5.7	4.9	4.1	2.9
54.0	7.3	7.3	6.8	6.8	7.8	7.8	8.4	8.5	7.1	5.6	4.9	4.0	2.9
56.0	6.5	6.5	6.3	6.3	7.1	7.1	8.0	7.9	7.0	5.6	4.8	4.0	2.9
58.0	5.9	5.9	5.8	5.8	6.4	6.4	7.3	7.2	6.9	5.5	4.8	3.9	2.9
60.0	5.2	5.2	5.3	5.3	5.8	5.8	6.6	6.5	6.8	5.4	4.7	3.8	2.9
62.0	4.7	4.7	4.8	4.8	5.2	5.2	6.0	5.9	6.6	5.3	4.7	3.8	2.8
64.0	4.1	4.1	4.3	4.3	4.6	4.6	5.3	5.4	6.0	5.2	4.6	3.7	2.8
66.0	3.6	3.6	3.8	3.8	4.1	4.1	4.8	4.8	5.4	5.1	4.6	3.7	2.8
68.0	3.1	3.1	3.3	3.3	3.6	3.6	4.2	4.3	4.8	4.6	4.5	3.6	2.8
70.0		2.9/68.8		3.1/68.7	3.2	3.2	3.7	3.8	4.3	4.1	4.5	3.5	2.8
72.0						3.0/70.7	3.3	3.4	3.8	3.7	4.3	3.5	2.8
74.0							2.8	3.0	3.4	3.3	3.8	3.4	2.7
76.0									2.9	2.9	3.4	3.0	2.7
78.0											3.0	2.7	2.7
80.0											2.6		2.7
82.0													2.6

(EC401057)

Notes — Fly jib capacities

1. Capacities included in this chart are the maximum allowable, and are based on machine standing level on firm supporting surface under ideal job conditions.
2. Capacities are in metric tons, and are based on 78% of minimum tipping loads except the figures surrounded by bold lines which are based on other factor of machine structural limitation.
3. Capacities are based on freely suspended loads and make no allowance for such factors as the effect of wind, sudden stopping of loads, supporting surface conditions, and operating speeds. Operator must reduce load ratings to take such conditions into account. Deduction from rated jib capacities must be made for weight of hook block, weighted ball/hook, sling, load weighing devices, or other suspended gear. SUMITOMO's hook block weight is as follows;
35t0.9t 13.5t0.6t
4. All capacities are rated for 360° swing.
5. Least stable rated position is over the side.
6. Counterweight must be 86.3ton for all capacities on this chart.
7. Maximum fly jib length permitted is 36.55m, and maximum boom and fly jib combination length permitted is 73.15m boom plus 36.55m fly jib.
8. Capacities apply only to the machine as originally manufactured and normally equipped by Sumitomo Heavy Industries Construction Crane Co., Ltd.

■ w/73.15m Boom

Fly jib length (m)	12.20				18.30			24.40		30.50		36.55	
	10		30		10		30	10	30	10	30	10	30
	Fly jib offset angle (°)		No. of part line		Fly jib offset angle (°)		No. of part line	Fly jib offset angle (°)	No. of part line	Fly jib offset angle (°)	No. of part line	Fly jib offset angle (°)	No. of part line
Working radius (m)	2-part	1-part	2-part	1-part	2-part	1-part	1-part	2-part	1-part	2-part	1-part	2-part	1-part
18.0	19.6/18.8	13.5/19.3											
20.0	19.2	13.5	14.9/21.8		17.7/21.4	13.5/21.9							
22.0	18.5	13.5	14.8	13.5/22.4	17.5	13.5							
24.0	17.9	13.5	14.3	13.5	16.9	13.5		12.9		7.0/25.6			
26.0	17.2	13.5	13.8	13.5	16.4	13.5	10.6/26.4	12.5		6.9		4.9/26.7	
28.0	16.6	13.5	13.3	13.3	15.8	13.5	10.4	12.1	8.6/29.9	6.8		4.8	
30.0	15.9	13.5	12.8	12.8	15.2	13.5	10.3	11.7	8.5	6.8		4.8	
32.0	15.3	13.5	12.3	12.3	14.7	13.5	10.1	11.3	8.4	6.7	5.4/33.0	4.7	
34.0	14.7	13.5	11.8	11.8	14.1	13.5	10.0	10.9	8.3	6.6	5.3	4.6	3.1/35.6
36.0	14.0	13.5	11.3	11.3	13.5	13.5	9.8	10.5	8.2	6.5	5.3	4.6	3.0
38.0	13.4	13.4	10.8	10.8	13.0	13.0	9.7	10.1	8.1	6.4	5.2	4.5	3.0
40.0	12.7	12.7	10.3	10.3	12.4	12.4	9.6	9.7	8.0	6.3	5.2	4.5	3.0
42.0	12.1	12.1	9.8	9.8	11.9	11.9	9.4	9.3	7.9	6.2	5.1	4.4	3.0
44.0	11.3	11.3	9.3	9.3	11.3	11.3	9.3	8.9	7.8	6.1	5.1	4.4	3.0
46.0	10.3	10.3	8.8	8.8	10.7	10.7	9.1	8.6	7.7	6.1	5.1	4.3	3.0
48.0	9.5	9.5	8.3	8.3	9.9	9.9	9.0	8.2	7.6	6.0	5.0	4.2	3.0
50.0	8.6	8.6	7.8	7.8	9.1	9.1	8.8	7.8	7.4	5.9	5.0	4.2	2.9
52.0	7.8	7.8	7.3	7.3	8.4	8.4	8.7	7.4	7.3	5.8	4.9	4.1	2.9
54.0	7.0	7.0	6.8	6.8	7.6	7.6	8.5	7.0	7.2	5.7	4.9	4.1	2.9
56.0	6.3	6.3	6.3	6.3	6.8	6.8	7.8	6.6	7.1	5.6	4.8	4.0	2.9
58.0	5.6	5.6	5.8	5.8	6.1	6.1	7.0	6.2	7.0	5.5	4.8	3.9	2.9
60.0	5.0	5.0	5.2	5.2	5.5	5.5	6.4	5.8	6.9	5.4	4.7	3.9	2.9
62.0	4.4	4.4	4.6	4.6	4.9	4.9	5.7	5.4	6.3	5.4	4.7	3.8	2.9
64.0	3.8	3.8	4.1	4.1	4.3	4.3	5.1	5.0	5.7	5.3	4.7	3.8	2.8
66.0	3.3	3.3	3.5	3.5	3.8	3.8	4.5	4.6	5.1	4.8	4.6	3.7	2.8
68.0		3.1/66.7	3.0/67.3	3.0	3.3	3.3	4.0	4.0	4.6	4.3	4.6	3.7	2.8
70.0					2.9/69.3	2.9	3.5	3.6	4.1	3.9	4.5	3.6	2.8
72.0							3.0	3.1	3.6	3.4	4.1	3.5	2.8
74.0									3.1	3.0	3.6	3.2	2.8
76.0									2.7		3.2	2.8	2.7
78.0											2.8		2.7
80.0													2.7

(EC401057)

Liftcrane Capacities with fly jib on top of the main boom

■ w/45.70m Boom

Fly jib length (m)	12.20		18.30		24.40		30.50		36.55	
	10	30	10	30	10	30	10	30	10	30
9.0	75.0/9.9	75.0/9.9	75.0/9.9	75.0/9.9	75.0/9.9	75.0/9.9	75.0/9.9	73.2/9.9	72.4/9.9	71.9/9.9
10.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	72.9	72.1	71.5
12.0	74.7	74.5	73.8	73.7	72.7	72.3	71.7	71.4	70.6	70.0
14.0	65.1	64.7	64.2	64.2	64.0	63.1	63.2	62.0	62.4	60.8
16.0	53.4	53.0	52.5	52.7	52.4	51.7	51.6	50.6	50.8	49.5
18.0	44.9	44.6	44.0	44.2	43.9	43.3	43.1	42.3	42.3	41.3
20.0	38.4	38.1	37.6	37.8	37.4	36.9	36.7	36.0	35.9	35.0
22.0	33.2	33.0	32.5	32.8	32.3	31.9	31.6	31.0	30.8	30.1
24.0	29.1	28.9	28.4	28.7	28.2	27.9	27.5	27.0	26.8	26.1
26.0	25.7	25.6	25.0	25.3	24.9	24.6	24.1	23.7	23.4	22.9
28.0	22.9	22.8	22.2	22.5	22.0	21.8	21.3	21.0	20.6	20.1
30.0	20.5	20.4	19.8	20.1	19.6	19.4	18.9	18.6	18.2	17.8
32.0	18.4	18.3	17.7	18.1	17.6	17.4	16.9	16.6	16.2	15.8
34.0	16.6	16.5	15.9	16.3	15.8	15.6	15.1	14.9	14.4	14.1
36.0	15.0	15.0	14.4	14.8	14.2	14.1	13.6	13.4	12.9	12.6
38.0	13.7	13.6	13.0	13.4	12.9	12.8	12.2	12.1	11.5	11.3
40.0	12.5	12.4	11.8	12.2	11.7	11.6	11.0	10.9	10.3	10.2
42.0	11.8/41.2	11.8/41.2	11.2/41.2	11.6/41.2	11.0/41.2	10.9/41.2	10.3/41.2	10.3/41.2	9.7/41.2	9.6/41.2

(EC401058)

■ w/51.80m Boom

Fly jib length (m)	12.20		18.30		24.40		30.50		36.55	
	10	30	10	30	10	30	10	30	10	30
10.0	60.9/11.0	60.7/11.0	60.0/11.0	59.9/11.0	58.9/11.0	58.5/11.0	57.9/11.0	57.6/11.0	56.8/11.0	56.2/11.0
12.0	60.2	60.0	59.3	59.2	58.2	57.8	57.2	56.9	56.1	55.5
14.0	58.7	58.5	57.8	57.7	56.7	56.3	55.7	55.4	54.6	54.0
16.0	53.0	52.7	52.2	52.3	52.1	51.4	51.3	50.3	50.6	49.3
18.0	44.5	44.2	43.7	43.9	43.6	43.0	42.8	42.0	42.1	41.0
20.0	38.0	37.7	37.2	37.4	37.1	36.6	36.4	35.7	35.6	34.7
22.0	32.8	32.6	32.1	32.4	32.0	31.5	31.3	30.7	30.6	29.8
24.0	28.7	28.5	28.0	28.3	27.9	27.5	27.2	26.6	26.5	25.8
26.0	25.3	25.1	24.6	24.9	24.5	24.1	23.8	23.3	23.1	22.5
28.0	22.4	22.3	21.7	22.1	21.6	21.3	21.0	20.6	20.3	19.7
30.0	20.0	19.9	19.3	19.7	19.2	19.0	18.6	18.2	17.9	17.4
32.0	17.9	17.8	17.3	17.6	17.1	16.9	16.5	16.2	15.8	15.4
34.0	16.1	16.0	15.5	15.8	15.3	15.2	14.7	14.4	14.0	13.7
36.0	14.5	14.4	13.9	14.3	13.8	13.6	13.1	12.9	12.5	12.2
38.0	13.1	13.1	12.5	12.9	12.4	12.2	11.7	11.6	11.1	10.8
40.0	11.9	11.8	11.3	11.7	11.1	11.0	10.5	10.4	9.9	9.7
42.0	10.8	10.7	10.2	10.6	10.1	10.0	9.4	9.3	8.8	8.6
44.0	9.8	9.8	9.2	9.6	9.1	9.0	8.5	8.4	7.7	7.5
46.0	8.9	8.9	8.3	8.7	8.2	8.1	7.5	7.4	6.6	6.5
48.0	8.7/46.5	8.7/46.5	8.1/46.5	8.5/46.5	8.0/46.5	7.9/46.5	7.2/46.5	7.2/46.5	6.4/46.5	6.3/46.5

(EC401058)

■ w/48.75m Boom

Fly jib length (m)	12.20		18.30		24.40		30.50		36.55	
	10	30	10	30	10	30	10	30	10	30
10.0	62.5/10.5	62.5/10.5	62.5/10.5	62.5/10.5	62.5/10.5	62.5/10.5	62.5/10.5	62.5/10.5	62.5/10.5	62.5/10.5
12.0	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.1	61.5
14.0	62.5	62.5	62.5	62.5	62.5	62.3	61.7	61.4	60.6	60.0
16.0	53.3	53.0	52.5	52.6	52.3	51.6	51.5	50.6	50.8	49.5
18.0	44.8	44.5	44.0	44.2	43.8	43.2	43.1	42.3	42.3	41.3
20.0	38.3	38.0	37.5	37.7	37.4	36.9	36.6	35.9	35.9	35.0
22.0	33.2	32.9	32.4	32.7	32.3	31.8	31.5	31.0	30.8	30.1
24.0	29.0	28.8	28.3	28.6	28.2	27.8	27.4	27.0	26.7	26.1
26.0	25.6	25.4	24.9	25.2	24.8	24.5	24.1	23.6	23.4	22.8
28.0	22.8	22.6	22.1	22.4	21.9	21.7	21.3	20.9	20.5	20.1
30.0	20.3	20.2	19.7	20.0	19.5	19.3	18.9	18.5	18.2	17.7
32.0	18.3	18.2	17.6	18.0	17.5	17.3	16.8	16.5	16.1	15.7
34.0	16.5	16.4	15.8	16.2	15.7	15.5	15.0	14.8	14.3	14.0
36.0	14.9	14.8	14.2	14.6	14.1	14.0	13.4	13.3	12.8	12.5
38.0	13.5	13.4	12.9	13.2	12.7	12.6	12.1	11.9	11.4	11.2
40.0	12.3	12.2	11.6	12.0	11.5	11.4	10.9	10.7	10.2	10.0
42.0	11.2	11.1	10.6	11.0	10.4	10.3	9.8	9.7	9.1	9.0
44.0	10.3/43.9	10.2/43.9	9.7/43.9	10.0/43.9	9.5/43.9	9.4/43.9	8.9/43.9	8.8/43.9	8.2/43.9	8.0/43.9

(EC401058)

■ w/54.85m Boom

Fly jib length (m)	12.20		18.30		24.40		30.50		36.55	
	10	30	10	30	10	30	10	30	10	30
10.0	50.0/11.5	50.0/11.5	50.0/11.5	50.0/11.5	50.0/11.5	50.0/11.5	50.0/11.5	50.0/11.5	50.0/11.5	50.0/11.5
12.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
14.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	49.9	49.1	48.5
16.0	50.0	50.0	50.0	50.0	49.7	49.3	48.7	48.4	47.6	47.0
18.0	44.4	44.1	43.6	43.8	43.5	42.9	42.8	42.0	42.1	41.0
20.0	37.9	37.6	37.1	37.4	37.0	36.5	36.3	35.6	35.6	34.7
22.0	32.8	32.5	32.0	32.3	31.9	31.5	31.2	30.6	30.6	29.7
24.0	28.6	28.4	27.9	28.2	27.8	27.4	27.1	26.6	26.4	25.7
26.0	25.2	25.0	24.5	24.8	24.4	24.1	23.7	23.3	23.1	22.4
28.0	22.3	22.2	21.7	22.0	21.6	21.3	20.9	20.5	20.2	19.7
30.0	19.9	19.8	19.2	19.6	19.1	18.9	18.5	18.1	17.6	17.4
32.0	17.8	17.7	17.2	17.5	17.1	16.8	16.4	16.1	15.8	15.3
34.0	16.0	15.9	15.4	15.7	15.3	15.1	14.6	14.3	14.0	13.6
36.0	14.4	14.3	13.8	14.2	13.7	13.5	13.0	12.8	12.4	12.1
38.0	13.0	12.9	12.4	12.8	12.3	12.1	11.7	11.4	11.0	10.7
40.0	11.8	11.7	11.1	11.5	11.0	10.9	10.4	10.2	9.8	9.5
42.0	10.6	10.6	10.0	10.4	9.9	9.8	9.3	9.2	8.7	8.4
44.0	9.6	9.6	9.1	9.4	8.9	8.8	8.3	8.2	7.5	7.3
46.0	8.8	8.7	8.2	8.6	8.0	8.0	7.3	7.2	6.5	6.3
48.0	7.9	7.9	7.3	7.8	7.1	7.0	6.3	6.3	5.5	5.4
50.0	7.5/49.1	7.5/49.1	6.9/49.1	7.3/49.1	6.6/49.1	6.6/49.1	5.9/49.1	5.8/49.1	5.1/49.1	5.0/49.1

(EC401058)

■ w/57.90m Boom

Fly jib length (m)	12.20		18.30		24.40		30.50		36.55	
	10	30	10	30	10	30	10	30	10	30
12.0	49.7	49.5	48.8	48.7	47.7	47.3	46.7	46.4	45.6	45.0
14.0	48.2	48.0	47.3	47.2	46.2	45.8	45.2	44.9	44.1	43.5
16.0	46.7	46.5	45.8	45.7	44.7	44.3	43.7	43.4	42.6	42.0
18.0	44.2	43.9	43.4	43.6	43.2	42.7	42.2	41.8	41.1	40.5
20.0	37.7	37.4	36.9	37.2	36.9	36.3	36.2	35.4	35.5	34.5
22.0	32.5	32.3	31.8	32.1	31.7	31.3	31.1	30.4	30.4	29.6
24.0	28.4	28.2	27.7	28.0	27.6	27.2	27.0	26.4	26.3	25.6
26.0	25.0	24.8	24.3	24.6	24.2	23.9	23.6	23.1	22.9	22.3
28.0	22.1	21.9	21.4	21.8	21.4	21.1	20.7	20.3	20.1	19.5
30.0	19.7	19.5	19.0	19.4	18.9	18.7	18.3	17.9	17.7	17.2
32.0	17.6	17.5	16.9	17.3	16.9	16.6	16.2	15.9	15.6	15.1
34.0	15.8	15.6	15.1	15.5	15.1	14.8	14.4	14.1	13.8	13.4
36.0	14.2	14.1	13.5	13.9	13.5	13.3	12.8	12.6	12.2	11.9
38.0	12.8	12.7	12.1	12.5	12.1	11.9	11.5	11.2	10.8	10.5
40.0	11.5	11.4	10.9	11.3	10.8	10.7	10.2	10.0	9.6	9.3
42.0	10.4	10.3	9.8	10.2	9.7	9.6	9.1	8.9	8.4	8.1
44.0	9.4	9.3	8.8	9.2	8.7	8.6	8.1	7.9	7.2	7.0
46.0	8.5	8.5	7.9	8.3	7.8	7.7	7.0	6.8	6.2	6.0
48.0	7.7	7.6	7.0	7.5	6.8	6.7	6.1	5.9	5.3	5.1
50.0	6.9	6.8	6.1	6.6	5.9	5.9	5.2	5.1	4.4	4.3
52.0	6.2/51.8	6.1/51.8	5.5/51.8	5.9/51.8	5.2/51.8	5.2/51.8	4.5/51.8	4.4/51.8		

(EC401058)

■ w/64.00m Boom

Fly jib length (m)	12.20		18.30		24.40		30.50		36.55	
	10	30	10	30	10	30	10	30	10	30
12.0	40.7/13.1	40.5/13.1	39.8/13.1	39.7/13.1	38.7/13.1	38.3/13.1	37.7/13.1	37.4/13.1	36.6/13.1	36.0/13.1
14.0	40.1	39.9	39.2	39.1	38.1	37.7	37.1	36.8	36.0	35.4
16.0	38.6	38.4	37.7	37.6	36.6	36.2	35.6	35.3	34.5	33.9
18.0	37.1	36.9	36.2	36.1	35.1	34.7	34.1	33.8	33.0	32.4
20.0	35.6	35.4	34.7	34.6	33.6	33.2	32.6	32.3	31.5	30.9
22.0	32.0	31.8	31.3	31.6	31.3	30.8	30.6	30.0	30.0	29.1
24.0	27.9	27.6	27.2	27.5	27.1	26.7	26.5	25.9	25.8	25.1
26.0	24.4	24.2	23.8	24.1	23.7	23.3	23.1	22.6	22.4	21.8
28.0	21.6	21.4	20.9	21.2	20.9	20.5	20.2	19.8	19.6	19.0
30.0	19.1	19.0	18.5	18.8	18.4	18.1	17.8	17.4	17.2	16.7
32.0	17.0	16.9	16.4	16.7	16.3	16.1	15.7	15.4	15.1	14.6
34.0	15.2	15.1	14.6	14.9	14.5	14.3	13.9	13.6	13.3	12.9
36.0	13.6	13.5	13.0	13.4	12.9	12.7	12.3	12.0	11.7	11.3
38.0	12.2	12.1	11.6	12.0	11.5	11.3	10.9	10.7	10.3	10.0
40.0	10.9	10.8	10.3	10.7	10.3	10.1	9.7	9.5	9.0	8.6
42.0	9.8	9.7	9.2	9.6	9.2	9.0	8.5	8.3	7.7	7.4
44.0	8.8	8.7	8.2	8.6	8.1	7.9	7.3	7.1	6.6	6.3
46.0	7.9	7.8	7.2	7.6	7.0	6.9	6.3	6.1	5.5	5.2
48.0	6.9	6.9	6.2	6.7	6.1	5.9	5.3	5.1	4.5	4.3
50.0	6.0	6.0	5.3	5.8	5.2	5.1	4.4	4.3		
52.0	5.2	5.2	4.5	5.0	4.4	4.3				
54.0	4.5	4.5	3.8	4.3						
56.0	3.8	3.8	3.6							

(EC401058)

■ w/60.95m Boom

Fly jib length (m)	12.20		18.30		24.40		30.50		36.55	
	10	30	10	30	10	30	10	30	10	30
12.0	45.1/12.6	44.9/12.6	44.2/12.6	44.1/12.6	43.1/12.6	42.7/12.6	42.1/12.6	41.8/12.6	41.0/12.6	40.4/12.6
14.0	44.1	43.9	43.2	43.1	42.1	41.7	41.1	40.8	40.0	39.4
16.0	42.6	42.4	41.7	41.6	40.6	40.2	39.6	39.3	38.5	37.9
18.0	41.1	40.9	40.2	40.1	39.1	38.7	38.1	37.8	37.0	36.4
20.0	37.4	37.1	36.6	36.9	36.6	36.0	35.9	35.2	35.2	34.3
22.0	32.2	32.0	31.5	31.8	31.4	31.0	30.8	30.1	30.1	29.3
24.0	28.1	27.8	27.4	27.7	27.3	26.9	26.7	26.1	26.0	25.3
26.0	24.6	24.4	24.0	24.3	23.9	23.5	23.3	22.8	22.6	22.0
28.0	21.8	21.6	21.1	21.4	21.1	20.7	20.4	20.0	19.8	19.2
30.0	19.3	19.2	18.7	19.0	18.6	18.3	18.0	17.6	17.4	16.8
32.0	17.2	17.1	16.6	17.0	16.5	16.3	15.9	15.6	15.3	14.8
34.0	15.4	15.3	14.8	15.2	14.7	14.5	14.1	13.8	13.5	13.1
36.0	13.8	13.7	13.2	13.6	13.1	12.9	12.5	12.3	11.9	11.5
38.0	12.4	12.3	11.8	12.2	11.7	11.6	11.1	10.9	10.5	10.2
40.0	11.2	11.1	10.6	10.9	10.5	10.3	9.9	9.7	9.3	8.9
42.0	10.0	10.0	9.4	9.8	9.4	9.2	8.8	8.5	8.0	7.7
44.0	9.0	9.0	8.4	8.8	8.4	8.2	7.6	7.4	6.8	6.5
46.0	8.1	8.1	7.5	7.9	7.3	7.2	6.5	6.4	5.8	5.5
48.0	7.2	7.2	6.5	7.0	6.3	6.2	5.6	5.4	4.8	4.6
50.0	6.4	6.3	5.6	6.1	5.5	5.4	4.7	4.6	4.0	
52.0	5.6	5.5	4.9	5.3	4.7	4.6	3.9			
54.0	4.8	4.8	4.2	4.6	4.0	3.9				
56.0	4.7/54.4	4.7/54.4	4.0/54.4	4.5/54.4	3.8/54.4	3.8/54.4				

(EC401058)

■ w/67.05m Boom

Fly jib length (m)	12.20		18.30		24.40		30.50		36.55	
	10	30	10	30	10	30	10	30	10	30
12.0	37.4/13.6	37.2/13.6	36.5/13.6	36.4/13.6	35.4/13.6	35.0/13.6	34.4/13.6	34.1/13.6	33.3/13.6	32.7/13.6
14.0	37.1	36.9	36.2	36.1	35.1	34.7	34.1	33.8	33.0	32.4
16.0	35.6	35.4	34.7	34.6	33.6	33.2	32.6	32.3	31.5	30.9
18.0	34.1	33.9	33.2	33.1	32.1	31.7	31.1	30.8	30.0	29.4
20.0	32.6	32.4	31.7	31.6	30.6	30.2	29.6	29.3	28.5	27.9
22.0	31.1	30.9	30.2	30.1	29.1	28.7	28.1	27.8	27.0	26.4
24.0	27.8	27.6	27.1	27.4	27.1	26.7	26.5	25.9	25.5	24.9
26.0	24.4	24.2	23.7	24.0	23.7	23.3	23.1	22.5	22.4	21.7
28.0	21.5	21.3	20.8	21.2	20.8	20.5	20.2	19.7	19.6	19.0
30.0	19.0	18.9	18.4	18.8	18.4	18.1	17.8	17.4	17.2	16.6
32.0	16.9	16.8	16.3	16.7	16.3	16.0	15.7	15.3	15.1	14.6
34.0	15.1	15.0	14.5	14.9	14.5	14.2	13.9	13.5	13.3	12.8
36.0	13.5	13.4	12.9	13.3	12.9	12.6	12.3	12.0	11.7	11.3
38.0	12.1	12.0	11.5	11.9	11.5	11.3	10.9	10.6	10.3	9.9
40.0	10.8	10.7	10.2	10.6	10.2	10.0	9.6	9.4	8.9	8.5
42.0	9.7	9.6	9.1	9.5	9.1	8.9	8.4	8.1	7.6	7.3
44.0	8.7	8.6	8.1	8.5	7.9	7.8	7.2	7.0	6.4	6.1
46.0	7.7	7.6	7.0	7.5	6.9	6.7	6.1	5.9	5.4	5.1
48.0	6.7	6.7	6.0	6.5	5.9	5.8	5.2	5.0	4.4	4.2
50.0	5.9	5.8	5.1	5.6	5.0	4.9	4.3	4.1		
52.0	5.0	5.0	4.3	4.8	4.2	4.1				
54.0	4.3	4.2	4.1							
56.0	3.6	3.6								

(EC401058)

■ w/70.10m Boom

Fly jib length (m) Fly jib offset angle (°) Working radius (m)	12.20		18.30		24.40		30.50		36.55	
	10	30	10	30	10	30	10	30	10	30
14.0	34.4/14.2	34.2/14.2	33.5/14.2	33.4/14.2	32.4/14.2	32.0/14.2	31.4/14.2	31.1/14.2	30.3/14.2	29.7/14.2
16.0	33.1	32.9	32.2	32.1	31.1	30.7	30.1	29.8	29.0	28.4
18.0	31.6	31.4	30.7	30.6	29.6	29.2	28.6	28.3	27.5	26.9
20.0	30.1	29.9	29.2	29.1	28.1	27.7	27.1	26.8	26.0	25.4
22.0	28.6	28.4	27.7	27.6	26.6	26.2	25.6	25.3	24.5	23.9
24.0	27.1	26.9	26.2	26.1	25.1	24.7	24.1	23.8	23.0	22.4
26.0	24.0	23.8	23.4	23.7	23.4	23.0	22.6	22.2	21.5	20.9
28.0	21.2	21.0	20.5	20.8	20.5	20.1	19.9	19.4	19.3	18.7
30.0	19.7	18.5	18.1	18.4	18.1	17.7	17.5	17.0	16.9	16.3
32.0	16.6	16.4	16.0	16.3	16.0	15.7	15.4	15.0	14.8	14.3
34.0	14.8	14.6	14.1	14.5	14.1	13.9	13.5	13.2	13.0	12.5
36.0	13.2	13.0	12.5	12.9	12.5	12.3	12.0	11.6	11.4	10.9
38.0	11.7	11.6	11.1	11.5	11.1	10.9	10.5	10.3	10.0	9.5
40.0	10.5	10.4	9.9	10.3	9.9	9.7	9.3	9.0	8.5	8.1
42.0	9.3	9.2	8.8	9.2	8.7	8.5	8.0	7.7	7.2	6.8
44.0	8.3	8.2	7.6	8.1	7.5	7.3	6.8	6.5	6.0	5.7
46.0	7.2	7.1	6.5	7.0	6.4	6.2	5.7	5.5	5.0	4.6
48.0	6.3	6.2	5.5	6.0	5.4	5.3	4.7	4.5		
50.0	5.4	5.3	4.7	5.1	4.6	4.4				
52.0	4.6	4.5		4.3						
54.0	3.8									

(EC401058)

Notes — Liftcrane capacities

1. These capacity charts show the figures when handling load off main boom head sheaves in a case of mounting fly jib on top of main boom.
2. Capacities included in these charts are the maximum allowable, and are based on machine standing level on firm supporting surface under ideal job conditions.
3. Capacities are in metric tons, and are not more than 78% of minimum tipping loads except the figures surrounded by bold lines which are based on other factor of machine structural limitation.
4. Capacities are based on freely suspended loads and make no allowance for such factors as the effect of wind, sudden stopping of loads, supporting surface conditions, and operating speeds. Operator must reduce load ratings to take such conditions into account. Deduction from rated capacities must be made for

- weight of hook block, weighted ball/hook, sling, spreader bar, or other suspended gear.
 SUMITOMO's hook block weight is as follows:
 80t1.4t 35t0.9t 13.5t ...0.6t
5. All capacities are rated for 360° swing.
 6. Least stable rated condition is over the side.
 7. Maximum boom and fly jib combination length permitted—73.15m boom plus 36.55m fly jib.
 8. Boom combination shall be in accordance with manufacture's standard described in "Boom Combination Diagram" of basic technical data.
 9. Capacities apply only to machine as originally manufactured and normally equipped by Sumitomo Heavy Industries Construction Crane Co., Ltd.

■ w/73.15m Boom

Fly jib length (m) Fly jib offset angle (°) Working radius (m)	12.20		18.30		24.40		30.50		36.55	
	10	30	10	30	10	30	10	30	10	30
14.0	32.0/14.7	31.8/14.7	31.1/14.7	31.0/14.7	30.0/14.7	29.6/14.7	29.0/14.7	28.7/14.7	27.9/14.7	27.3 /14.7
16.0	31.1	30.9	30.2	30.1	29.1	28.7	28.1	27.8	27.0	26.4
18.0	29.6	29.4	28.7	28.6	27.6	27.2	26.6	26.3	25.5	24.9
20.0	28.1	27.9	27.2	27.1	26.1	25.7	25.1	24.8	24.0	23.4
22.0	26.6	26.4	25.7	25.6	24.6	24.2	23.6	23.3	22.5	21.9
24.0	25.1	24.9	24.2	24.1	23.1	22.7	22.1	21.8	21.0	20.4
26.0	23.6	23.4	22.7	22.6	21.6	21.2	20.6	20.3	19.5	18.9
28.0	20.9	20.7	20.3	20.6	20.1	19.7	19.1	18.8	18.0	17.4
30.0	18.5	18.3	17.9	18.2	17.9	17.5	17.3	16.8	16.5	15.9
32.0	16.4	16.2	15.8	16.1	15.8	15.5	15.2	14.8	14.6	14.1
34.0	14.5	14.4	13.9	14.3	13.9	13.7	13.4	13.0	12.8	12.3
36.0	12.9	12.8	12.3	12.7	12.3	12.1	11.8	11.4	11.2	10.7
38.0	11.5	11.4	10.9	11.3	10.9	10.7	10.3	10.0	9.7	9.2
40.0	10.2	10.1	9.7	10.1	9.7	9.5	9.0	8.7	8.3	7.8
42.0	9.1	9.0	8.5	8.9	8.4	8.2	7.7	7.4	6.9	6.5
44.0	8.0	7.9	7.3	7.8	7.2	7.0	6.5	6.2	5.8	5.4
46.0	6.9	6.8	6.2	6.7	6.1	6.0	5.4	5.2	4.7	4.4
48.0	6.0	5.9	5.2	5.7	5.1	5.0	4.5	4.2		
50.0	5.1	5.0	4.4	4.8	4.3	4.1				
52.0	4.2	4.2		4.0						

(EC401058)

Liftcrane Working Ranges

MEMO

