

SHOP MANUAL

EXCAVATOR

SK100 SK120LC

S5YPU0003E-03 NA

APPLICABLE:

SK100 YW-02801~ SK120LC YPU-00501~

SHOP MANUAL

EXCAVATOR

SK100 SK120LC

APPLICABLE

YW-00501~ YPU-00501~

S5YPU0003E-03 NA

- 1. Trim along dashed line.
- 2. Slide into pocket on Binder Spine.

TYPE 1-4

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TYPE 1-4

TYPE 1-4

HYDRAULIC EXCAVATOR

SHOP MANUAL

model

SK 100 SK 120 LC

This is the shop manual for KOBELCO hydraulic excavator. Contained is the necessary technical data concerning the maintenance and repair of this model. The manual is divided into the following four major sections; GENERAL, SYSTEMS, COMPONENTS and PROCEDURE.

*GENERAL

YPU01. SPECIFICATION

-- OPERATION AND CONTROLS

YPU03. LOCATION AND WEIGHT OF COMPONENTS

YPU04. MAINTENANCE STANDARD AND

TEST PROCEDURE

*SYSTEMS

YPU11. DRIVE SYSTEM

YPU12. HYDRAULIC SYSTEM

YPU15. SWING SYSTEM

YPU18. TRAVEL SYSTEM

YPU21. ATTACHMENTS

*COMPONENTS

12. HYDRAULIC PUMP

13. CONTROL VALVE

14. OTHER VALVES

15. HYDRAULIC MOTOR

YPU05. TROUBLE SHOOTING

PREVENTIVE MAINTENANCE

(Refer to Operators Manual)

YPU07. WORKING STANDARD

YPU22. CONTROL SYSTEM

YPU23. UPPER FRAME

YPU25. ELECTRICAL SYSTEM

- AIR-CONDITIONER SYSTEM

YPU50. ENGINE

16. SWIVEL JOINT

17. HYDRAULIC CYLINDER

21. REDUCTION UNIT

*PROCEDURE

When checking or repairing the machine we suggest that you refer to this manual carefully. We hope that reference to this manual will help to maintain a high level of working efficiency and reliability. For further details on maintenance and checks refer to the "OPERATORS MANUAL" which has been supplied with the machine.

Although all data was correct at the time of printing, due to continual design changes and improvements, some contents may not conform to the actual machine. Take special care to order parts only after confirming the validity of the parts number in the "PARTS MANUAL".

If you notice any explanatory discrepancies, after consulting one of our representatives, please update your manual according to the latest data. However, in the event of any specification changes, we will issue revised edition.

KOBELCO

A WARNING

- 13. Always use tools that are in good condition and be sure you understand how to use them before performing any service work.
- Reinstall all fasteners with same part number.
 Do not use a lesser quality fastener if replacements are necessary.
- 15. Repairs which require welding should be performed only with the benefit of the appropriate reference information and by personnel adequately trained and knowledgeable in welding procedures. Make reference to "Techniques of Structural Repair Course". Determine type of metal being welded and select correct welding procedure and electrodes, rods or wire to provide a weld metal strength equivalent at least to that of parent metal.
- 16. Do not damage wiring during removal operations. Reinstall the wiring so it is not damaged nor will it be damaged in operation by contacting sharp corners, or by rubbing against some object or hot surface. Do not connect wiring to a line containing fluid.
- 17. Be sure all protective devices including guards and shields are properly installed and functioning correctly before starting a repair. If a guard or shield must be removed to perform the repair work, use extra caution.
- 18. Always use lift arm supports to keep bucket arms raised and bucket tilted down when maintenance or repair work is performed which requires the bucket in the raised position.
- 19. Loose or damaged fuel, lubricant and hydraulic lines, tubes and hoses can cause fires. Do not bend or strike high pressure lines or install ones which have been bent or damaged. Inspect lines, tubes and hoses carefully. Do not check for leaks with your hands. Pin hole (very small) leaks can result in a high velocity oil stream that will be invisible close to the hose. This oil can penetrate the skin and cause personal injury. Use cardboard or paper to locate pin hole leaks.
- 20. Tighten connections to the correct torque. Make sure that all heat shields, clamps and guards are installed correctly to avoid excessive heat, vibration or rubbing against other parts during operation. Shields that protect against oil spray onto hot exhaust components in event of a line, tube or seal failure must be installed correctly.

- 21. Do not operate a machine if any rotating part is damaged or contacts any other part during operation. Any high speed rotating component that has been damaged or altered should be checked for balance before reusing.
- 22. On track-type machines, be careful when servicing or separating tracks. Chips can fly when removing or installing a track pin. Wear safety glasses. Track can unroll very quickly when separated. Keep away from front and rear of machine. The machine can move unexpectedly when both tracks are disengaged from the sprockets. Block the machine to prevent it from moving.
- 23. Caution should be used to avoid breathing dust that may be generated when handling components containing asbestos fibers. If this dust is inhaled, it can be hazardous to your health. Components in KOBELCO products that may contain asbestos fibers are brake pads, brake band and lining assemblies, clutch plates and some gaskets. The asbestos used in these components is usually bound in a resin or sealed in some way. Normal handling is not hazardous as long as airborne dust which contains asbestos is not generated.

If dust which may contain asbestos is present, there are several common sense guidelines that should be followed.

- a. Never use compressed air for cleaning.
- Avoid brushing or grinding of asbestos containing materials.
- c. For clean up, use wet methods or a vacuum equipped with a high efficiency particulate air (HEPA) filter.
- d. Use exhaust ventilation on permanent machining jobs.
- e. Wear an approved respirator if there is no other way to control the dust.
- Comply with applicable rules and regulations for the work place.
- g. Follow environmental rules and regulations for disposal of asbestos.
- h. Avoid areas where asbestos particles may be in the air.

SHOP MANUAL

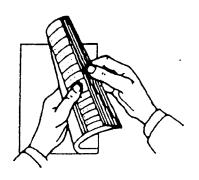
model

SK 100 SK 120LC

TABLE OF CONTENTS

1.	SPECIFICATION	YPU01
2.	OPERATION AND CONTROLS (Refer to Operators Manual)	
3.	LOCATION AND WEIGHT OF COMPONENTS	YPU03
4.	MAINTENANCE STANDARDS AND TEST PROCEDURES	YPU04
5.	TROUBLESHOOTING	YPU05
6.	PREVENTIVE MAINTENANCE (Refer to Operators Manual)	
7.	WORKING STANDARDS	YPU07

Of How to Index each Shop Manual Section
The GENERAL of this shop manual consists of 7
headings as shown above. Each section can be
easily referred to by indexes appended to the
margin of the page as indicated on the right.
Please use the indexes for speedy reference.



KOBELCO

GENERAL

SK100 SK120_{LC} List of Shop Manual GENERAL Section

Index No.	Title	Book Code No. Distribution Year - Month			
YPU01	SPECIFICATION	S5YPU0103E① 1992-03			
<u>-</u>	OPERATION	KCMYPUK90S001OM Refer to Operators manual	YPUK925002OM Refer to Operators manual		
YPU03	LOCATION AND WEIGHT OF COMPONENTS	S5YPU 03 03E 1990-10	-		
YPU04	MAINTENANCE STANDARDS AND TEST PROCEDURES	S5YPU0403E① 1993-12	———		
YPU05	TROUBLESHOOTING	S5YPU0503E① 1993-03			
_	PREVENTIVE MAINTENANCE	KCMYPUK90S001OM Refer to Operators manual	YPUK92S002OM Refer to Operators manual		
YPU07	WORKING STANDARDS	S5YPU0703E 1990-10	←		
į					
- 1					
	Applicable Machines	YPU-00301~	YPU-00501~ YW-02801~		

KOBELCO SHOP MANUAL

 $\begin{array}{c} {}_{\text{S5}}\text{YPU01}_{\text{03E}} \\ \end{array}$

SK 100 (LC)

YPU01

SPECIFICATION

TABLE OF CONTENTS

1.	LOCATION OF COMPONENTS	1
2.	GENERAL DIMENSIONS	2
3.	SPECIFICATIONS AND PERFORMANCE	4
4.	TYPE OF SHOES	5
5.	TYPE AND COMBINATION OF ATTACHMENTS	6
6.	WORKING RANGES OF ATTACHMENTS	9
7.	LIFTING-UP ABILITY DIAGRAM	14
8.	ENGINE SPECIFICATIONS	16

KOBELCO CONSTRUCTION MACHINERY (U.S.A.) INC.

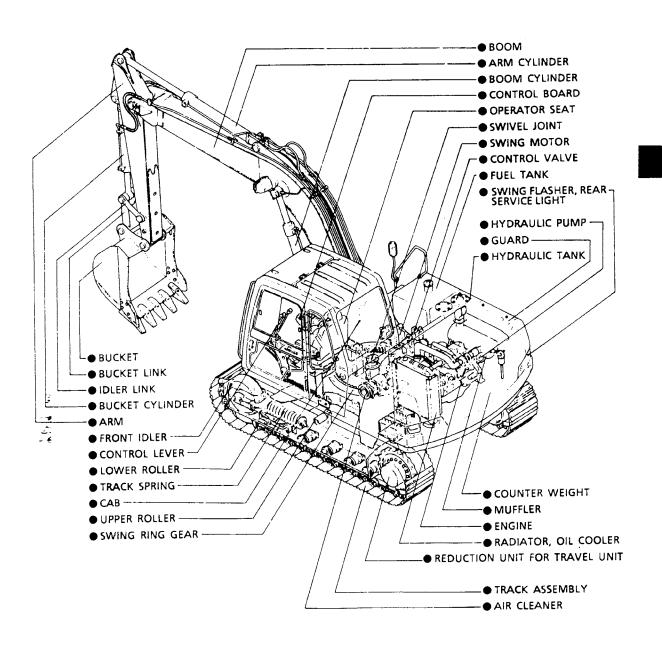
Applicable Machines
YPU-00501~
YW-02801~

Revision Date of Issue Remarks

First edition October, 1990 S5YPU0103E K

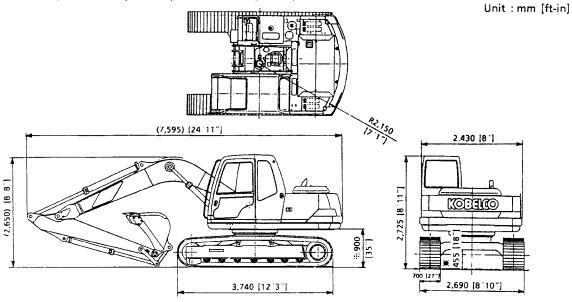
First revision March, 1992 S5YPU0103E① K

1. LOCATION OF COMPONENTS



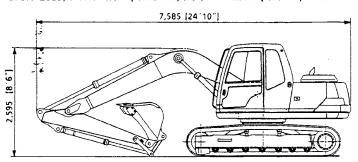
2. GENERAL DIMENSIONS

■ SK120Lc; WITH 4.6m (15ft 1in) BOOM + 2.5m (8ft 2in) ARM-ATTACHMENT STANDARD MACHINE

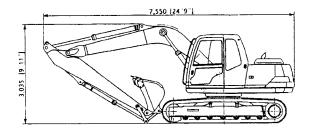


FF The figures marked % in the illustration do not include the shoe embossment (20mm) (0.78")

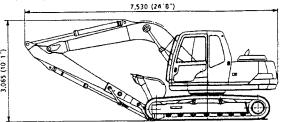
■ SK120LC; WITH 4.6m (15ft 1in) BOOM + 2.1m (6ft 1in) ARM



■ 5K120LC; WITH 4.6m (15ft 1in) BOOM + 3.0m (9ft 10in) ARM

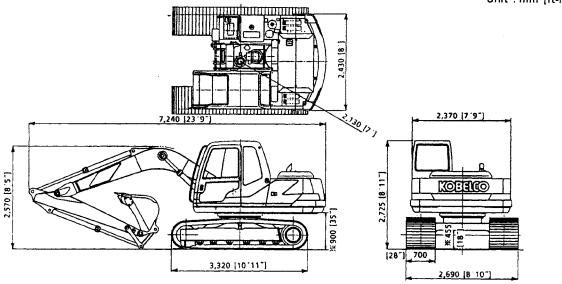


■ 5K120cc; WITH 4.6m(15ft 1in) BOOM + 2.5m (8ft 2in) ARM + 1.0m (3ft 3in) EXTENSION ARM

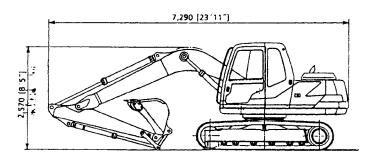


SK100; WITH 4.26m (14ft) BOOM + 2.27m (7ft Sin) ARM-ATTACHED STANDARD MACHINE

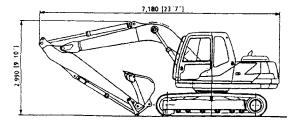
Unit: mm [ft-in]



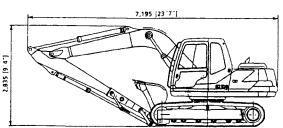
■SK100; WITH 4.26m (14ft) BOOM + 1.9m (6ft 3in) ARM



■ 5K100; WITH 4.26m (14ft) BOOM + 2.77m (9ft 1in) ARM



■ SK100; WITH 4.26m(14ft) BOOM + 2.27m (7ft 5in) ARM + 0.6m (2ft) EXTENSION ARM



 \square The figures marked % in the illustration do not include the shoe embossment (20mm) (0.78 $^{\circ}$)

3. SPECIFICATIONS AND PERFORMANCE

■ SPEED AND CLIMBING ABILITY

Item	Model SK100	SK120LC
Swing speed	12.7rpm	←
Travel speed	7/4km/h (4.3/2.5 MPH)	←
Gradeability	35° (70%)	←

ENGINE

Item	Mode	SK100	SK120LC
Model		ISUZU 48D1	ISUZU 48D1T
Туре		4-cycle, water-cooled direct injection type diesel	4-cycle, water-cooled direct injection type with turbo charger
Number of cylinde	r – Bore 🗴 Stroke	4-102mm(4in) x 118mm(4.64in)	←
Total displacement		3,856c.c. (235cuin)	←
	JISD1005 Net	76ps/2,300rpm	85ps/2,150rpm
Rated output power/revolution	SAEJ1349 Net	54.3kw/2,300rpm	63.6kw/2,150rpm
	DIN 6270 Net	53.0kw/2,300rpm	60.5kw/2,150rpm
	JISD1005 Net	24kgf·m / 1,600rpm	30kgf·m / 1,600rpm
Maximum torque/revolution	SAEJ1349 Net	228.8N-m / 1,600rpm	287-1N-m / 1,600rpm
torque/revolution	DIN 6270 Net	223.4N-m / 1,600rpm	279.2k·m / 1,600rpm

■ HYDRAULIC COMPONENTS

Item Model	SK100	SK120LC
Hydraulic pump	Double-pump variable displacement, axial piston + gear pump	←
Hydraulic motor (swing)	Axial piston motor	←
Hydraulic motor (travel)	Axial piston motor	←
Control valve	5-section multiple control valve + - section control valve (swing)	←
Cylinders (boom, arm, and bucket)	Double acting cyline	-
Return filter	Safety valve containing fire type	←
Oil cooler	Air-cooled type	-

■ WEIGHT

Unit : kg (lbs)

ltem Model	SK100	\$K120cc
Fully-equipped weight	10,900 (24,000)	12,200 (26,900)
Upper machinery	4,680 (10,300)	←
Lower machinery (with 700mm (27") grocer shoe)	4,500 (9,920)	4,840 (10,670)
Attachment [4.26m (14ft) boom + 2.27m (7ft5in) arm + 0.4m ³ (0.52cuyd) bucket [1,720 (3,8000)	
Attachment [4.6m (15ft1in) boom + 2.5m (8ft2in) arm + 0.45m ³ (0.59cuyd) bucket [1,930 (4,250)

4. TYPE OF SHOES

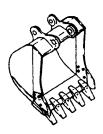
Shape	Model	Width of track shoe	Overallwidth of crawler		Ground contact pressure (kg/cm²(psi))			
Shape	, stoder	(mm(ft-in))	(mm(ft-in))	STD, Arm	Short, Arm	Long, Arm		
Grouser(equal height)	SK100	500(20")	2,490(8'2")	0.36 (5.12)	0.36 (5.12)	0.36 (5.12)		
crouser(equal merging)		600(24~)	2,590(8'6")	0.30 (4.27)	0.30 (4.27)	0.31 (4.41)		
	41 Link	700(27")	2,690(8'10")	0.26 (3.70)	0.26 (3.70)	0.26 (3.70)		
3	SK120	500(20~)	2,490(8'2")	0.38 (5.40)	0.37 (5.26)	0.38 (5.40)		
		600(24~)	2,590(8'6")	0.32 (4.55)	0.32 (4.55)	0.32 (4.55)		
The state of the s	43 Link	700(27")	2,690(8'10")	0.28 (3.98)	0.28 (3.98)	0.28 (3.98)		
The state of the s	SK120LC	500(20~)	2,490(8'2")	0.36 (5.12)	0.36 (5.12)	0.37 (5.26)		
_		600(24~)	2,590(8'6")	0.30 (4.27)	0.30 (4.27)	0.30 (4.27)		
	46 Link	700(27~)	2,690(8′10″)	0.26 (3.70)	0.26 (3.70)	0.26 (3.70)		
Flat	SK100							
		500(20~)	2,490(8′2″)	0.36 (5.12)	0.36 (5.12)	0.36 (5.12)		
	41 Link							
	SK120							
		500(20~)	2,490(8′2″)	0.36 (5.12)	0.35 (5.00)	0.36 (5.12)		
	43 Link							
	SK120LC							
		500(20~)	2,490(8′2″)	0.36 (5.12)	0.35 (5.00)	0.35		
	46 Link							
Triangle	SK100							
# 1		800(32~)	2,790(9´2~)	0.23 (3.27)	0.23 (3.27)	0.23 (3.27)		
	41 Link							
	SK120							
		800(32~)	2,790(9′2″)	0.24 (3.41)	0.24 (3.41)	0.24 (3.41)		
	43 Link							
	SK120LC							
		800(32")	2,790(9'2")	0.23 (3.27)	0.23 (3.27)	0.23 (3.27)		
	46 Link							

^{●600}mm (24") shoes, flat shoes and 700mm (27") triangle shoes 800mm (32") come in three types, wet land, paved road and soft land. Do not use them at sites with many stones and gravels in any circumstances.

[●] Note that if you operate such shoe-mounted machines in general civil construction work and in a dry riverbed, it will cause shoes to bend, bring about slackening of shoe bolts and damage to under frame parts (links, roller, etc.).

5. TYPE AND COMBINATION OF ATTACHMENTS

TYPES OF BUCKETS HOE BUCKET

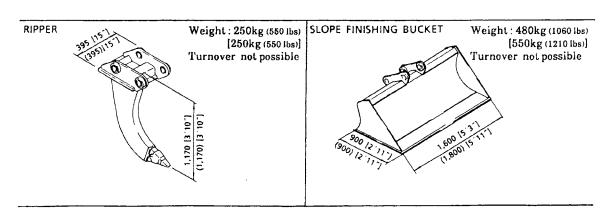


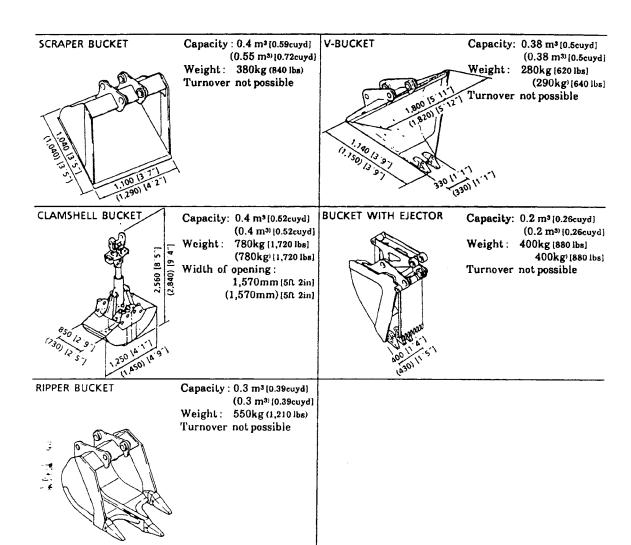
● SK100

Heaped capacity	Outside width of bucket mm (ft-in)		No. of	Presence or not of side	Possibility	Weight
m³ (cuyd)		Without side cutter	teeth	cutter	of turnover	kg (lbs)
0.15 (0.20)		450(116")	3	No	Yes	200(440)
0.25 (0.33)		560(1′10″)	3	No	Yes	260(570)
0.3 (0.39)	750 (2 ′ 5 ″)	650(2 * 2 *)	4	Yes	Yes	300(750)
0.35 (0.46)	840 (2 ' 9")	730(2′5″)	4	Yes	Yes	320(710)
0.4 (0.52)	920 (3 ' 0")	820(2 ' 8")	4	Yes	Yes	340(750)
0.45 (0.59)	1,010 (3 ' 4")	900(2′11″)	5	Yes	Yes	360(790)

● 5K120, 5K120LC

Heaped capacity	Outside width of bucket mm (ft-in)		No. of	Presence or not of side	Possibility of	Weight
ु m³ (cuyd)	With side cutter	Without side cutter	teeth	cutter	turnover	kg (lbs)
0.3(0.39)	730(2′5″)	630(2′1″)	4	Yes	Yes	300(660)
0.35(0.46)	820(2 8 2)	720(2´4˜)	4	Yes	Yes	320(710)
0.4(0.52)	900(2′11″)	800(2 ' 7")	4	Yes	Yes	340(750)
0.45(0.59)	980(3:3")	880(2 ′ 11″)	5	Yes	Yes	370(820)
0.5(0.65)	1,060(3 6 6)	960(3 ′ 2 ″)	5	Yes	Yes	380(840)
0.6(0.78)	1,230(4′1″)	1,130(3181)	5	No	Yes	400(880)





■ DIGGING FORCE

	Arm + Bucket	Digging force	ton (UK ton)
	Arm + Bucket	Λrm	Bucket
	1.9M + 0.45m ³ (6'3" + 0.59 cuyd)	6.4 (6.3)	7.5 (7.4)
SK100	2.27M + 0.40m ³ (7 ⁵ + 0.52 cuyd)	5.6 (5.5)	1
	2.27M+0.35m ³ (9´1´+0.46 cuyd)	4.9 (4.8)	†
	2.1M+0.50m ³ (6´11´+0.65 cuyd)	6.8 (6.7)	7.7 (7.6)
SK120	2.5M + 0.45m ³ (8'2" + 0.59 cuyd)	6.1 (6.0)	1
	3.0M + 0.35m ³ (9 ¹ 0 ⁺ 0.46 cuyd)	5.4 (6.0)	†

ECOMBINATIONS OF ATTACHMENTS

● SK100

	Bucke	t		,	Appl	icable arm	
Type	JIS heaped capacity m ³ (cuyd)	SAE heaped capacity m³(cuyd)	JIS-SAE struck capacity m³(cuyd)	2.1m (6ft3in) arm	2.27m (7ft5in) arm	2.77m (9ft1in) arm	2.27m (7ft5in)arm + 0.6 m(1ft1in) extension arm
	0.15 (0.20)	0.17 (0.22)	0.13 (0.17)	0	0	0	0
	0.25 (0.33)	0.28 (0.37)	0.22 (0.29)	0	0	0	0
Hoe bucket	0.30 (0.39)	0.34 (0.44)	0.26 (0.34)	0	0	0	0
noe bucket	0.35 (0.46)	0.40 (0.52)	0.30 (0.39)	0	0	0	Δ
	0.40 (0.52)	0.46 (0.60)	0.35 (0.46)	0	0	Δ	×
	0.45 (0.59)	0.52 (0.68)	0.38 (0.50)	0	Δ	×	×
Clamshell bucket				0	0	×	×
Slope finishing bucket	Width x depth 0.9m x 1.8m (2ft11in x 5ft11in			Δ	Δ	Δ	Δ
Ripper				0	0	×	×
V-bucket	0.38 (0.50)	0.46 (0.60)	0.30 (0.39)	Δ	Δ	Δ	Δ
Scraper bucket	0.45 (0.59)	0.51 (0.67)	0.38 (0.50)	Δ	Δ	Δ	Δ
Bucket with ejector	0.20 (0.26)	0.22 (0.29)	0.19 (0.25)	0	0	0	0

● SK120, SK120LC

Bucket				Applicable arm			
Туре	JIS heaped capacity m³(cuyd)	SAE heaped capacity m³(cuyd)	JIS-SAE struck capacity m³(cuyd)	2.1m (6ft11in) arm	2.5m (8ft2in) arm	3.0m (9ft10in) arm	2.5m (8ft2in) arm + 1.0 m (3ft3in) extension arm
	0.30 (0.39)	0.34 (0.44)	0.26 (0.34)	0	0	0	0
Ĵ	0.35 (0.46)	0.40 (0.52)	0.30 (0.39)	0	0	0	Δ
ு H se bucket	0.40 (0.52)	0.46 (0.60)	0.35 (0.46)	0	0	Δ	×
m ge bucket ⊕*:	0.45 (0.59)	0.52 (0.68)	0.38 (0.50)	0	0	×	×
- ≮	0.50 (0.65)	0.58 (0.76)	0.42 (0.55)	0	Δ	×	×
	0.60 (0.78)	0.70 (0.91)	0.52 (0.68)	Δ	×	×	×
Clamshell bucket	1			0	0	×	×
Slope finishing bucket	Width x depth 0.9m x 1.8m (2ft11in x 5ft11in			Δ	Δ	Δ	Δ
Ripper				0	0	×	×
V-bucket	0.38 (0.50)	0.46 (0.60)	0.30 (0.39)	Δ		Δ	Δ
Scraper bucket	0.55 (0.72)	0.65 (0.85)	0.42 (0.55)	Δ	Δ	Δ	Δ
Bucket with ejector	0.20 (0.26)	0.22 (0.29)	0.19 (0.25)	0	0	0	0

O General operation: Digging and loading of sand, gravels and clay-mixed soil

 \triangle Light operation: Operations mainly consisting of loading of loose sand and soil

(for instance, operations in paddy fields and loading of sand and gravels)

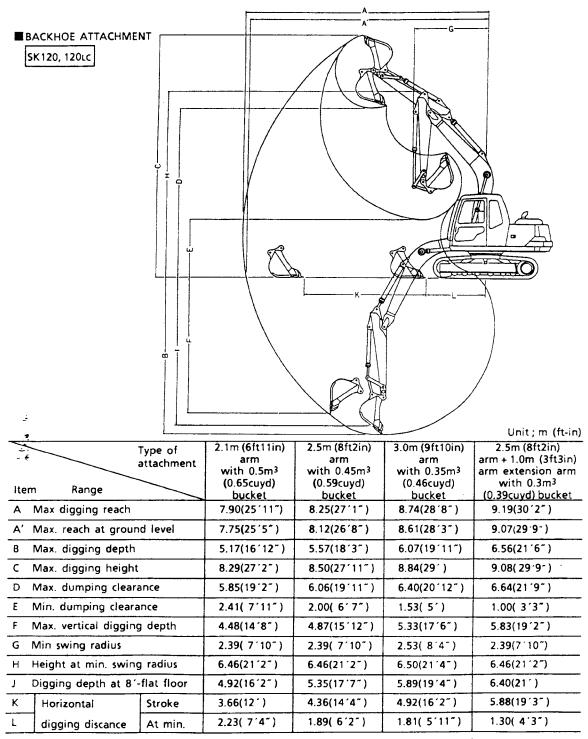
X Not usable: Do not operate in such combinations as guarantee does not cover them.

- •If a bucket other than hoe buckets is used to execute turnover operation, it will cause damage to the arm and the bucket.
 - ◆The combinations other than those mentioned in the above table can not be used in principle. For details, contact us.

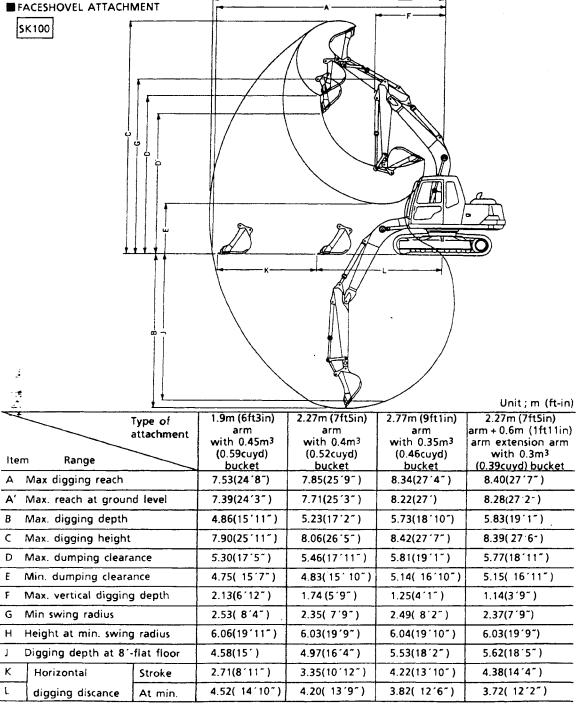
6. WORKING RANGES OF ATTACHMENTS

Type of attachment [ltem Range 1.9m (6ft3in) 2.27m (7ft5in) 2.77m (9ft1in) 3m (1.5 m)	■ BACKHOE ATTACHMENT					
Type of attachment with 0.45m3 (0.59cuyd) bucket 0.59cuyd) bucket 0.59cuyd) bucket 0.59cuyd) bucket 0.50cket 0.	SK100			-G		
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G Min swing radius 2.53(8'4") 2.35(7'9") 2.49(8'2") 2.37(7'9") H Height at min. swing radius 6.06(19'11") 6.03(19'9") 6.04(19'10") 6.03(19'9") J Digging depth at 8'-flat floor 4.42(14'6") 4.81(15'9") 5.37(17'7") 5.46(17'11")	E Min. dumping clearance	2.28(7′6″)	1.88(6′ 2″)	1.40(4′7″)	1.28(4'2")	
G Min swing radius 2.53(8'4") 2.35(7'9") 2.49(8'2") 2.37(7'9") H Height at min. swing radius 6.06(19'11") 6.03(19'9") 6.04(19'10") 6.03(19'9") J Digging depth at 8'-flat floor 4.42(14'6") 4.81(15'9") 5.37(17'7") 5.46(17'11")	F Max. vertical digging depth	4.07(13′4″)	4.41(14'6")	4.90(16′1″)	4.89(16′1″)	
J Digging depth at 8'-flat floor 4.42(14'6") 4.81(15'9") 5.37(17'7") 5.46(17'11")	G Min swing radius	2.53(8'4")	2.35(7′9″)		2.37(7′9″)	
	H Height at min. swing radius	6.06(191111)	6.03(19*9*)	6.04(19´10´´)	6.03(19'9")	
K Horizontal Stroke 3.14(10'4") 2.87(12'8") 4.55(14'11") 4.78(15'8")	J Digging depth at 8'-flat floor	4.42(14'6")	4.81(15′9″)	5.37(17′7″)	5.46(17'11")	
1. Holizontal Strate 5.14(10 4) 5.07(12 0) 4.07(13 0)	K Horizontal Stroke	3.14(10′4″)	3.87(12′8″)	4.55(14*11**)	4.78(15′8″)	
L digging discance At min. 2.27(7'5") 1.86(6'1") 1.68(5'6") 1.51(4'11")						

The figures in this table do not include the projection of shoes (20mm (0.78in)).



The figures in this table do not include the projection of shoes (20mm (0.78in)).

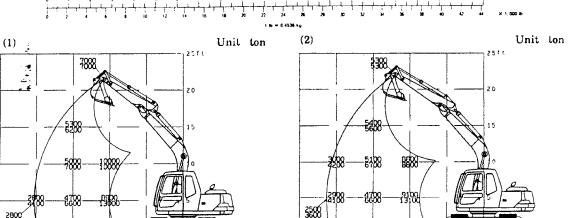


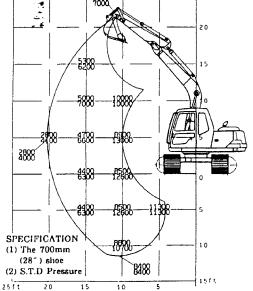
F The figures in this table do not include the projection of shoes (20mm (0.78in)).

7. LIFTING-UP ABILITY DIAGRAM

- (1) Calculation condition
 - The lifting-up ability of this drawing is indicated by metric standard. The indicated figures fall within 87% of a set pressure of the main relief valve used in the arm and the boom cylinder and 75% of static tilting load.
- 1) The load point is the fulcrum of the bucket and the bucket position is an embraced posture.
- 2) The figures on the upper stage indicate the lifting-up ability of a machine facing sideways, while the figures at the bottom stage repressent a machine facing longitudinally.
- (2) Lifting-up ability diagram Item No. table

	Arm length (M) + bucket capacity (M ³)						
Model	$1.9M + 0.45M^{3}$ $(6^{3} + 0.59cu \cdot yd)$	$\begin{array}{c} 2.27M + 0.4M^{3} \\ (7'5" + 0.52cu \cdot yd) \end{array}$	2.77M + 0.35M ³ (9´9~+ 0.46cu·yd)				
SK100	Reference No. 1	2	3				
Model	2.1M +0.5M ³ (6'11"+ 0.65cu·yd)	2.5M + 0.45M ³ (8 ² ")+(0.59cu·yd)	3.0M +0.35M ³ (9'10")+(0.46cu·yd)				
SK120LC	4	5	6				





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