

Product: Kubota WSM KX61-3,KX71-3 Excavator Service Repair Workshop Manual(Mechanism Chapter)  
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# WSM

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## WORKSHOP MANUAL KUBOTA EXCAVATOR

### KX61-3, KX71-3 Mechanism Chapter

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The Kubota logo is displayed in a bold, black, stylized font. The letters are thick and blocky, with a distinctive shape for the 'u' and 'o'.

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Record of Revisions

Symbol	Date	Main Revised Points & Corrective Measures	Person-in-charge
①			
②			
③			
④			

KX61-3 EU and KX71-3 EU are for EU(European) - version.  
KX71-3 PP is for KTC, KCL and KTA - version.

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# I. General

## a. Sales feature

Product concept : Comfort in compact

(1) Grade up the basic performance; Digging, filling back and lifting capacity

(2) Grade up product feature to differentiate competitor; Digital meter, hose protection

Workability	Bucket digging force improvement Variable pump adoption Boom and SP simultaneous operation The maximum digging depth priority High level stability
Maintenance	Blade hose division New digital meter adoption
Amenity	Much easier access into cabin Cabin width expansion
Operativity	Straight travel adoption Smoother operation
Safety	Engine safety start Travel lock system ROPS, FOPS standard equipment

## b. Difference between KX61-3 and KX71-3

	Differentiation	KX61-3	KX71-3	Remark
No1.	Engine	V1505 (24.8 PS)	V1505 (27.5PS)	
No2.	Bucket digging forth	2190 kgf	2570 kgf	Bucket cylinder is different
No3.	Working area (Arm length)	1300 mm	1350 mm	Boom is different
No4.	New digital meter	Equipped	Equipped	
No5.	Variable track specification	Not adopted	Not adopted	
No6.	Travel speed	Two speed	Two speed	
No7.	Straight travel	Equipped	Equipped	
No8.	Seat grade	High back seat	High back seat	
No9.	Roof window of the cabin	Not equipped	Not equipped	

c. Quick chart for selling points : KX61-3, KX71-3



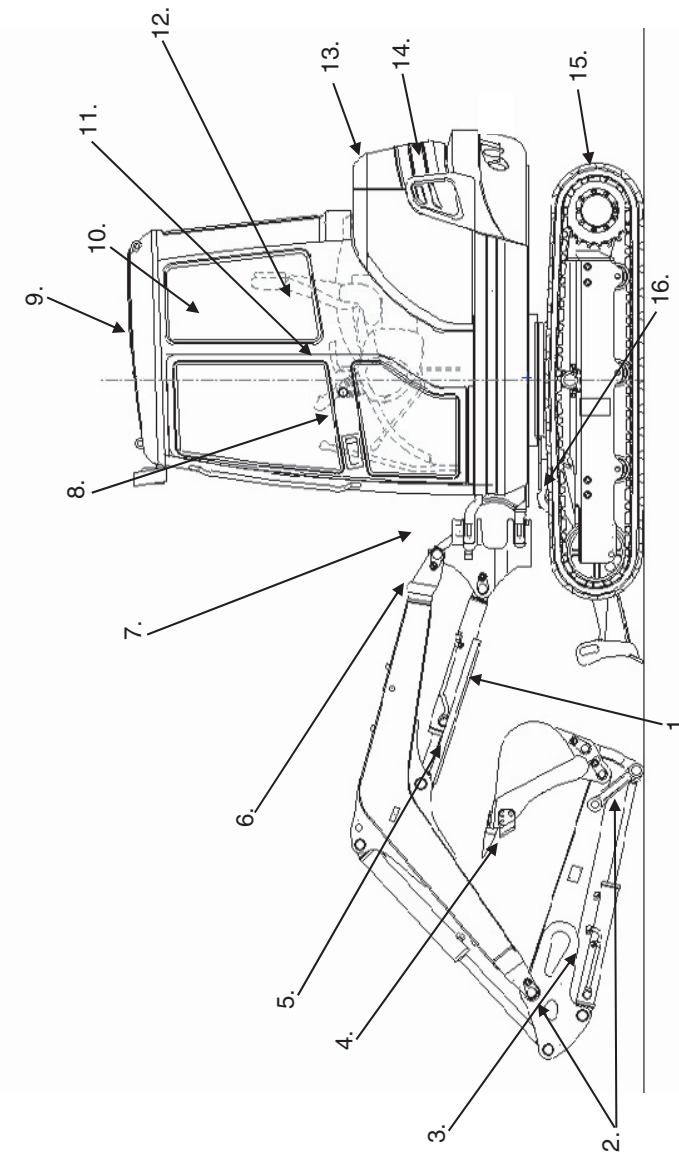
**Short stroke operating lever and wrist rest**



**Digital panel with new navigation system**



**High speed travel switch on the dozer lever**



**Best matching of variable displacement hydraulic pump and Kubota new diesel engine**

**V1505, 24.8HP 2100rpm (KX61-3)  
V1505, 27.5HP 2300rpm (KX71-3)**

1. Reinforced boom cylinder protector
2. Iron bush
3. Bucket cylinder hoses are inside.
4. Bucket breakout force is No.1 in the class.
5. Upgraded lifting capacity
6. Front hose cover for clear view
7. Front hoses go inside the swing bracket.
8. Travel safety lock system
9. Rops / Fops
10. Low noise level
11. Wrist rest control lever
12. New digital panel (Kubota I.C.S)
13. Double full open bonnet
14. 4-cylinder engine
15. Reinforced rubber track
16. Separate-type dozer cylinder hose

d. Comparison to competitors;EU - version

A: Advantage, B: Equal

■, □ : Salers points

	Advantage	VS Current model		Items	Standard type (2.5 ~ 2.8t class)				Standard type (2.8 ~ 3.0t class)				
		New	Continued		KX61-3	KX61-2α	B25V	Neuson 2503	Bobcat 325	KX71-3	KX71-2α	Takeuchi TB125	Bobcat 328
Workability	■	★		Big displacement, 4 cylinder engine	4	3	3	3	3	4	3	3	3
	■	★		Variable displacement pump, large discharge	V2	V2	V2	V2	V2	V2	V2	V2	V1
	■	★		Lifting capacity (KN)	4.9	4.3	4.2	3.5	*	5.5	4.2	3.9	3.0
		★		Bucket digging force (KN) upgraded, reinforced arm	21.5	21.5	20.0	19.3	21.2	25.2	24.6	20.6	21.2
B		★		Large working space (Long arm)	○	○	○	○	○	○	○	○	○
		★		Swivel motor negative brake	○	○	○	○	○	○	○	○	○
Durability	□	★		Standard third line	○	○	○	○	○	○	○	○	○
		★		Front hoses in the swing bracket	○	○	○	○	△	○	○	○	△
		★		Rugged boom cylinder protector	○	○	○	○	○	○	○	○	○
	□		★	Swing bracket bush	○	○	○	○	○	○	○	○	○
B		★		Bucket cylinder hose inside	○	○	○	○	○	○	○	○	○
		★		Rugged rubber track (300 mm)	○	○	○	○	○	○	○	○	○
		★		Line filler in the pilot system	○	○	○	○	○	○	○	○	○
		★		Double full open bonnet	○	○	△	○	△	○	△	△	○
Maintenance	■	★		Separate-type dozer cylinder hose	○	○	○	○	○	○	○	○	○
		★		upper roller	○	○	○	○	○	○	○	○	○
		★		Tool box	○	○	○	○	○	○	○	○	○
		★		Track frame shape	○	○	○	○	○	○	○	○	○
Comfortability	■	★		New digital panel	One angle	Angle	Flat	Angle	Flat	One angle	Angle	Flat	Angle
		★		Noise level at ear (dBA)	○	○	○	○	○	○	○	○	○
Operability	A	★		Auto glow, easy start	78	79	78	74	80	78	79	77	80
	B	★		Wrist rest control	○	○	○	○	○	○	○	○	○
		★		Smooth control furling	○	○	○	○	○	○	○	○	○
		★		Large fuel tank	○	○	○	○	○	○	○	○	○
Safety	□	★		Rops/Fops cab, 4P canopy	○	○	○	○	○	○	○	○	○
		★		Front hose cover	○	○	○	○	○	○	○	○	○
		★		Stability (Front, KN)	4.1	3.2	4.8	4.1	3.5	4.4	4.1	3.9	4.0
	□	★		Travel safety lock	○	○	○	○	○	○	○	○	○

### e. Components compatibility

		Parent	100% compatible	high compatible	low compatible	Original design	
No.	Components	U20-3	U25-3	KX71-3(PP)	KX61-3(EU)	KX71-3(EU)	Remark
1	Track frame						
2	Front idler						
3	Track tension						
4	Track roller						
5	Upper roller						KX91-3
6	Track shoe						W=300mm, 80 links
7	Swivel bearing						Different maker
8	Seat						Full suspension seat
9	Swivel frame						
10	Engine mount						V1505
11	Pump mount						Different coupling maker
12	Bonnet						Different maker
13	Control box cover						
14	Canopy						≠ KX71-3
15	Cab						≠ KX71-3
16	Weight						
17	Fuel tank						Different maker
18	Electrical components	Starter					
		Alternater					
		Meter					
19	Label						
20	Hydro pump						Fujikoshi
21	Control valve						NA: Nabuco, EU: Hidra control
22	Swivel motor						
23	Travel motor						EU: Transmittel & Kayaba NA: Kubota Seiki
24	Oil tank						
25	Swivel joint						
26	Pilot valve						EU: Joystick type NA = KX121-3
27	Swing bracket						
28	Boom						
29	Arm						
30	Bucket link						
31	Bucket						NA = KX91-3
32	Dozer blade						Different maker
33	Swing cyl.						Different maker
34	Boom cyl.						Different maker
35	Arm cyl.						Different maker
36	Bucket cyl.						Different maker
37	Dozer cyl.						Different maker

## f. Machine specifications

		Unit	KX61-3 EU	KX71-3 EU	KX71-3 PP
Engine					
Type			Vertical, water-cooled 4 cycle, 4 cylinders diesel		
Model			V1505-E2-BH-9-EU	V1505-E2-BH-10-EU	V1505-E2-BH-10
Output power (ISO 3406m Gross)		kW PS	18.3 kW/2100rpm 24.9 PS/2100rpm	20.6 kW/2300rpm 28.0 PS/2300rpm	← (SAE-J1349)
Displacement		cc	1498	1498	←
Dimensions					
Overall length	STD/Long	mm (in)	4270 / 4310	4520 / 4550	4550 (179.1)
Overall width		mm (in)	1400	1500	← (59.1)
Overall crawler width		mm (in)	1400	1500	← (59.1)
Overall height	Canopy	mm (in)	2430	2430	← (95.7)
	Cabin	mm (in)	2410	2410	← (94.9)
Min. ground clearance		mm (in)	305	←	← (12.0)
Max. digging depth	STD. Arm	mm (in)	2490	2680	—
	Long Arm	mm (in)	2740	2870	2970 (116.9)
Max. digging height	STD. Arm	mm (in)	4360	4470	—
	Long Arm	mm (in)	4540	4600	4700 (185.0)
Max. digging radius	STD. Arm	mm (in)	4480	4700	—
	Long Arm	mm (in)	4720	4890	4990 (196.5)
Max. dumping height	STD. Arm	mm (in)	3060	3170	—
	Long Arm	mm (in)	3240	3300	3180 (125.2)
Swing angle (left/right)		deg	78 / 57	←	←
Travel speed	Low speed R/l	km/h (m/h)	2.8 / 2.7	2.7 / 2.6	2.6 (1.6) / 2.6 (1.6)
	High speed R/l	km/h (m/h)	4.4 / 4.3	4.6 / 4.5	4.5 (2.8) / 4.4 (2.7)
Swing speed		rpm	9.5	9.4	←
Max. traction force	Low speed	kN (kgf) lbw	20.2 (2060)	22.3 (2275)	22.1 (2250) 4960
	High speed	kN (kgf) lbw	11.7 (1193)	14.6 (1490)	11.1 (1130) 2491
Performance					
Tumbler distance		mm (in)	1560	←	← (61.4)
Tread		mm (in)	1100	1200	← (47.2)
Crawler width × No. of shoe × pitch	Rubber	mm (in)	300 × 53 × 80	←	←
Bucket					
Capacity CECE heaped		m <sup>3</sup> (yd <sup>3</sup> )	0.06	0.07	0.08 (0.06)
Width		mm (in)	450	480	450 (17.7)
Dozer					
Width × height		mm (in)	1400 × 300	1500 × 300	← (59.1 × 11.8)
Lift above GL / below GL		mm (in)	350 × 310	370 × 350	340 × 300 (13.4 × 12.2)

Note:Kubota Japan Bucket

## g. Machine weight

kgf  
(lbs)

	Track	Arm	KX61-3 EU	KX71-3 EU	KX71-3 PP
Canopy	Rubber	STD	2530 (5566)	2720 (5984)	—
		Long	2540 (5588)	2730 (6006)	2780 (6116)
	Iron	STD	2625 (5775)	2815 (6193)	—
		Long	2630 (5786)	2825 (6215)	2875 (6325)
Cab	Rubber	STD	2640 (5808)	2830 (6226)	—
		Long	2650 (5830)	2840 (6248)	2890 (6358)
	Iron	STD	2735 (6017)	2925 (6435)	—
		Long	2745 (6039)	2935 (6457)	2985 (6567)
Cab (Light weight)	Rubber	STD	2580 (5676)	—	—
		Long	2590 (5698)	—	—
	Iron	STD	2675 (5885)	—	—
		Long	2685 (5907)	—	—

(Note : Cab - canopy = 105 kgf, Iron track - rubbertrack = 95 kgf, Long arm - STD arm = 10 kgf)

### h. Quality specifications

Machine specifications : Service port, Wrist rest, STD and Long arm, FM-cab or canopy, KBM & KBT bucket

No	Specifications Items	Unit	KX61-3 EU		KX71-3 EU		KX71-3 PP		Remarks
			Std value	Allowable range	Std value	Allowable range	Std value	Allowable range	
<b>Q1</b>	<b>Main Specs. JIS A8404</b>								
1	Total length (Transport)	mm	4270.0	4185.0 to 4355.0	4520.0	4430.0 to 4610.0	4550.0	4459.0 to 4641.0	
		inch	168.1	164.8 to 171.5	178.0	174.4 to 181.5	179.1	175.6 to 182.7	
	Total width	mm	4310.0	4224.0 to 4396.0	4550.0	4459.0 to 4641.0	-	-	
		inch	169.7	166.3 to 173.1	179.1	175.6 to 182.7	-	-	
		mm	1400.0	1386.0 to 1414.0	1500.0	1485.0 to 1515.0	←	←	
2	Total height (Canopy)	inch	55.1	54.6 to 55.7	59.1	58.5 to 59.6	←	←	
		mm	2430.0	2406.0 to 2545.0	←	←	←	←	
	Total height (Cabin)	inch	95.7	94.7 to 100.2	←	←	←	←	
		mm	2410.0	2386.0 to 2434.0	←	←	←	←	
		inch	94.9	93.9 to 95.8	←	←	←	←	
3	Machine weight (Canopy)	kg	2540.0	2515.0 to 2565.0	2730.0	2703.0 to 2757.0	2780.0	2724.0 to 2836.0	Fuel tank, full, lub. oil and water are specified amount.
		lbs	5599.7	5544.6 to 5654.8	6018.6	5959.0 to 6078.1	6128.8	6005.3 to 6252.2	
	Machine weight (Cabin)	kg	2650.0	2624.0 to 2677.0	2840.0	2812.0 to 2868.0	2890.0	2832.0 to 2948.0	
		lbs	5842.2	5784.9 to 5901.7	6261.1	6199.3 to 6322.8	6371.3	6243.4 to 6499.2	
		kg	2580.0	2554.0 to 2606.0	-	-	-	-	
4	Swivel speed	rpm	9.5	8.6 to 10.5	9.4	8.5 to 10.3	←	←	
		rpm	9.5	8.6 to 10.5	9.4	8.5 to 10.3	←	←	
	Travel speed	km/h	2.8	2.5 to 3.1	2.7	2.4 to 3.0	2.6	2.3 to 2.9	
		mph	1.7	1.6 to 1.9	1.7	1.5 to 1.9	1.6	1.4 to 1.8	
		km/h	4.4	4.0 to 4.8	4.6	4.1 to 5.1	4.5	4.1 to 5.0	
	Gradeability	km/h	2.7	2.5 to 3.0	2.9	2.5 to 3.2	2.8	2.5 to 3.1	
		km/h	2.7	2.4 to 3.0	2.6	2.3 to 2.9	←	←	
5	Iron F1	mph	1.7	1.5 to 1.9	1.6	1.4 to 1.8	←	←	
		km/h	4.3	3.9 to 4.7	4.5	4.1 to 5.0	4.4	4.0 to 4.8	
	Iron F2	mph	2.7	2.4 to 2.9	2.8	2.5 to 3.1	2.7	2.5 to 3.0	
		deg	30.0	30.0 <	←	←	←	←	
		deg	30.0	30.0 <	←	←	←	←	

No	Specifications Items	Unit	KX61-3 EU		KX71-3 EU		KX71-3 PP		Remarks
			Std value	Allowable range	Std value	Allowable range	Std value	Allowable range	
1	Rear end min. turning radius	mm	1160.0	1137.0 to 1183.0	1200.0	1176.0 to 1224.0	←	←	
		inch	45.7	44.8 to 46.6	47.2	46.3 to 48.2	←	←	
2	Swivel frame rear ground clearance	mm	530.0	519.0 to 541.0	←	←	←	←	
		inch	20.9	20.4 to 21.3	←	←	←	←	
3	Tambler center distance	mm	1560.0	1513.0 to 1607.0	←	←	←	←	
		inch	61.4	59.6 to 63.3	←	←	←	←	
4	Crawler total length	mm	1990.0	1930.0 to 2050.0	←	←	←	←	
		inch	78.3	76.0 to 80.7	←	←	←	←	
5	Crawler total width	mm	1400.0	1920.0 to 2000.0	1500.0	1920.0 to 2000.0	←	←	
		inch	55.1	75.6 to 78.7	59.1	75.6 to 78.7	←	←	
6	Min. ground clearance	mm	305.0	296.0 to 314.0	←	←	←	←	
		inch	12.0	11.7 to 12.4	←	←	←	←	
1	Bucket heaped capacity	m3	0.040	0.038 to 0.042	0.050	0.048 to 0.052	0.060	0.058 to 0.062	
		yd3	0.052	0.050 to 0.055	0.065	0.063 to 0.068	0.078	0.076 to 0.081	
2	Bucket width	m3	0.060	0.058 to 0.062	0.070	0.067 to 0.073	0.080	0.077 to 0.083	
		yd3	0.078	0.076 to 0.081	0.092	0.088 to 0.095	0.105	0.101 to 0.109	
3	Bucket width	mm	450.0	540.0 to 560.0	480.0	540.0 to 560.0	450.0	540.0 to 560.0	Without side cutter
		inch	17.7	21.3 to 22.0	18.9	21.3 to 22.0	17.7	21.3 to 22.0	
4	Swing angle	deg	78.0	76.0 to 80.0	←	←	←	←	
		deg	57.0	55.0 to 59.0	←	←	56.0	54.0 to 58.0	
5	Front attachment	mm	4480.0	4413.0 to 4547.0	4700.0	4630.0 to 4771.0	4990.0	4915.0 to 5065.0	
		inch	176.4	173.7 to 179.0	185.0	182.3 to 187.8	196.5	193.5 to 199.4	
8	Max. digging radius	mm	4720.0	4649.0 to 4791.0	4890.0	4817.0 to 4963.0	-	-	
		inch	185.8	183.0 to 188.6	192.5	189.6 to 195.4	-	-	
9	Ground level Max. digging radius"	mm	4350.0	4285.0 to 4415.0	4580.0	4511.0 to 4649.0	4880.0	4807.0 to 4953.0	
		inch	171.3	168.7 to 173.8	180.3	177.6 to 183.0	192.1	189.3 to 195.0	
10	Ground level Min. finish radius"	mm	4600.0	4531.0 to 4669.0	4770.0	4698.0 to 4842.0	-	-	
		inch	181.1	178.4 to 183.8	187.8	185.0 to 190.6	-	-	
10	Ground level Min. finish radius"	mm	1520.0	1474.0 to 1566.0	1550.0	1504.0 to 1597.0	1430.0	1387.0 to 1473.0	Bucket bottom horizontal
		inch	59.8	58.0 to 61.7	61.0	59.2 to 62.9	56.3	54.6 to 58.0	zontal
10	Ground level Min. finish radius"	mm	1380.0	1339.0 to 1421.0	1430.0	1387.0 to 1473.0	-	-	
		inch	54.3	52.7 to 55.9	56.3	54.6 to 58.0	-	-	

No	Specifications Items	Unit	KX61-3 EU		KX71-3 EU		KX71-3 PP		Remarks
			Std value	Allowable range	Std value	Allowable range	Std value	Allowable range	
11	Max. digging depth	mm	2490.0	2440.0 to 2540.0	2680.0	2626.0 to 2734.0	2970.0	2911.0 to 3029.0	
		inch	98.0	96.1 to 100.0	105.5	103.4 to 107.6	116.9	114.6 to 119.3	
12	Max. vertical digging depth	mm	2740.0	2685.0 to 2795.0	2870.0	2813.0 to 2927.0	-	-	
		inch	107.9	105.7 to 110.0	113.0	110.7 to 115.2	-	-	
13	Max. digging height	mm	2050.0	1989.0 to 2112.0	2260.0	2192.0 to 2328.0	1900.0	1843.0 to 1957.0	
		inch	80.7	78.3 to 83.1	89.0	86.3 to 91.7	74.8	72.6 to 77.0	
14	Max. digging height	mm	2290.0	2221.0 to 2359.0	2460.0	2386.0 to 2534.0	650.0	631.0 to 670.0	
		inch	90.2	87.4 to 92.9	96.9	93.9 to 99.8	25.6	24.8 to 26.4	
15	Max. dump height	mm	4360.0	4273.0 to 4447.0	4470.0	4381.0 to 4559.0	4700.0	4606.0 to 4794.0	
		inch	171.7	168.2 to 175.1	176.0	172.5 to 179.5	185.0	181.3 to 188.7	
16	Max. dump height	mm	4540.0	4449.0 to 4631.0	4600.0	4508.0 to 4692.0	4580.0	4488.0 to 4672.0	
		inch	178.7	175.2 to 182.3	181.1	177.5 to 184.7	180.3	176.7 to 183.9	
17	Max. dump height (Arm vertical)	mm	3060.0	2999.0 to 3121.0	3170.0	3107.0 to 3233.0	3180.0	3116.0 to 3244.0	
		inch	120.5	118.1 to 122.9	124.8	122.3 to 127.3	125.2	122.7 to 127.7	
18	Max. dump height	mm	3240.0	3175.0 to 3305.0	3300.0	3234.0 to 3366.0	-	-	
		inch	127.6	125.0 to 130.1	129.9	127.3 to 132.5	-	-	
19	Front straight	mm	1270.0	1232.0 to 1308.0	1280.0	1242.0 to 1318.0	1040.0	1009.0 to 1071.0	
		inch	50.0	48.5 to 51.5	50.4	48.9 to 51.9	40.9	39.7 to 42.2	
20	Mini. turning radius	mm	1030.0	999.0 to 1061.0	1080.0	1048.0 to 1112.0	-	-	
		inch	40.6	39.3 to 41.8	42.5	41.3 to 43.8	-	-	
21	Full swing position	mm	1830.0	1775.0 to 1885.0	1840.0	1785.0 to 1895.0	1940.0	1882.0 to 1998.0	
		inch	72.0	69.9 to 74.2	72.4	70.3 to 74.6	76.4	74.1 to 78.7	
22	Width	mm	1880.0	1824.0 to 1936.0	1870.0	1814.0 to 1926.0	-	-	
		inch	74.0	71.8 to 76.2	73.6	71.4 to 75.8	-	-	
6	Height	mm	1430.0	1387.0 to 1473.0	1440.0	1397.0 to 1483.0	1580.0	1533.0 to 1627.0	
		inch	56.3	54.6 to 58.0	56.7	55.0 to 58.4	62.2	60.4 to 64.1	
1	Dozer	mm	1480.0	1436.0 to 1524.0	1490.0	1445.0 to 1535.0	-	-	
		inch	58.3	56.5 to 60.0	58.7	56.9 to 60.4	-	-	
2	Height	mm	1400.0	1395.0 to 1405.0	1500.0	1495.0 to 1505.0	←	←	
		inch	55.1	54.9 to 55.3	59.1	58.9 to 59.3	←	←	
2	Height	mm	300.0	290.0 to 310.0	←	←	←	←	
		inch	11.8	11.4 to 12.2	←	←	←	←	

No	Specifications Items	Unit	KX61-3 EU		KX71-3 EU		KX71-3 PP		Remarks	
			Std value	Allowable range	Std value	Allowable range	Std value	Allowable range		
6	Max. lift above GL	mm	350.0	300.0 to 400.0	370.0	320.0 to 420.0	340.0	290.0 to 390.0		
		inch	13.8	11.8 to 15.7	14.6	12.6 to 16.5	13.4	11.4 to 15.4		
4	Max. below GL	mm	310.0	260.0 to 360.0	350.0	300.0 to 400.0	310.0	260.0 to 360.0		
		inch	12.2	10.2 to 14.2	13.8	11.8 to 15.7	12.2	10.2 to 14.2		
<b>Q2</b>	<b>Main Specs JIS A8404</b>									
1	Bucket tooth slaggish	mm	60.0	73.0 >	←	←	←	←	Pushing force;30kgf	
		inch	2.4	2.9 >	←	←	←	←		
		mm	0.0	10.0 >	←	←	←	←		
2	Front boom declination	inch	0.0	0.4 >	←	←	←	←		
		mm	3.0	10.0 >	←	←	←	←		
3	Dozer's declination	inch	0.1	0.4 >	←	←	←	←		
2	Distance to teeth from boom cylinder	mm	45.0	41.0 to 50.0	35.0	32.0 to 39.0	40.0	36.0 to 44.0		
		inch	1.8	1.6 to 2.0	1.4	1.3 to 1.5	1.6	1.4 to 1.7		
3	Approach angle	deg	35.0	32.0 to 39.0	31.5	28.0 to 35.0	30.0	27.0 to 33.0		
4	Crawler height	mm	430.0	421.0 to 439.0	←	←	←	←	Include grouser on the sprocket	
		inch	16.9	16.6 to	←	←	←	←		
2	Max. crawler height	mm	445.0	436.0 to 454.0	←	←	465.0	456.0 to 474.0		
		inch	17.5	17.2 to 17.9	←	←	18.3	18.0 to 18.7		
<b>Q3</b>	<b>Engine performance</b>									
1	Max. engine rpm	rpm	2300.0	2300.0 >	2500.0	2500.0 >	←	←		
		rpm	-	-	-	-	-	-		
		rpm	-	-	-	-	-	-	-	
		rpm	-	-	-	-	-	-	-	Boom, arm, swivel
		rpm	2100.0	2000.0 <	2300.0	2200.0 <	←	←	←	
		rpm	2100.0	2000.0 <	2300.0	2200.0 <	←	←	←	
2	Dozer+2 pump relief	rpm	1100.0	1050.0 to 1150.0			←	←	Cab:1500rpm	
<b>Q4</b>	<b>Travelling performance</b>									
1	Travel motor block performance	mm	270.0	300.0 >	280.0	300.0 >	←	←	On the 20 deg. slope, 10 min, engine stop condition, travel stance; oil temp. 50degree centi.	
		inch	10.6	11.8 >	11.0	11.8 >	←	←		
2	Travel motor block performance	mm	270.0	300.0 >	280.0	300.0 >	←	←		
		inch	10.6	11.8 >	11.0	11.8 >	←	←		

No	Specifications Items	Unit	KX61-3 EU		KX71-3 EU		KX71-3 PP		Remarks
			Std value	Allowable range	Std value	Allowable range	Std value	Allowable range	
2	Max. Traction force	1	kgf 2060.4	1856.4 <	2274.6	2050.2 <	2254.2	2029.8 <	Oil temp. 50 degree centi., travel stance, F1:slip, 70% of absolute traction force, F2:Relief, 60 % of absolute traction force
		2	kN 4542.4	18.2 <	22.3	20.1 <	22.1	19.9 <	
3	Travel straightness	1	kgf 1193.4	1071.0 <	1489.2	1336.2 <	1132.2	1020.0 <	10m distance, engine max. speed, oil temp. 50 degree centi.
		2	kN 11.7	10.5 <	14.6	13.1 <	11.1	10.0 <	
4	Track shoe sag distance	1	lbw 2631.0	2361.1 <	3283.1	2945.8 <	2496.1	2248.7 <	Dozer up & down 10m distance
		2	mm 600.0	600.0 >	<	<	<	<	
Q5	Work performance	1	inch 23.6	23.6 >	<	<	<	<	Front end, Arm extend bucket crowd. at tooth
		2	mm 600.0	600.0 >	<	<	<	<	
1	Arm digging force	1	kgf 1499.4	1428.0 <	1795.2	1703.4 <	1485.0	1407.6 <	Bucket tooth root
		2	kN 3305.6	3148.2 <	3957.7	3755.3 <	3273.9	3103.2 <	
4	Bucket digging force	1	kgf 1264.8	1203.6 <	1652.4	1570.8 <	-	-	Machine stance to JIS bucket tooth root
		2	kN 2788.4	2653.5 <	3642.9	3463.0 <	-	-	
3	Boom lifting capacity	1	kgf 499.8	448.8 <	489.6	438.6 <	360.0	326.4 <	Machine stance to JIS bucket tooth root
		2	kN 1101.9	4.4 <	4.8	4.3 <	3.5	3.2 <	
4	Bucket digging force	1	lbw 1101.9	989.4 <	1079.4	966.9 <	793.7	719.6 <	Machine stance to JIS bucket tooth root
		2	kgf 1499.4	1428.0 <	1795.2	1703.4 <	1485.0	1407.6 <	
1	Arm digging force	1	kN 14.7	14.0 <	17.6	16.7 <	14.6	13.8 <	Bucket tooth root
		2	lbw 3305.6	3148.2 <	3957.7	3755.3 <	3273.9	3103.2 <	
3	Boom lifting capacity	1	kgf 1264.8	1203.6 <	1652.4	1570.8 <	-	-	Machine stance to JIS bucket tooth root
		2	kN 2788.4	2653.5 <	3642.9	3463.0 <	-	-	
4	Bucket digging force	1	kgf 2193.0	2080.8 <	2570.4	2437.8 <	2160.0	2050.2 <	Machine stance to JIS bucket tooth root
		2	kN 21.5	20.4 <	25.2	23.9 <	21.2	20.1 <	
1	Work performance	1	lbw 4834.7	4587.4 <	5666.8	5374.4 <	4762.0	4519.9 <	Machine stance to JIS bucket tooth root
		2	kgf 10794	9669 <	7937	7196 <	32739	31032 <	

No	Specifications Items	Unit	KX61-3 EU		KX71-3 EU		KX71-3 PP		Remarks
			Std value	Allowable range	Std value	Allowable range	Std value	Allowable range	
1	5	kgf	-	-	-	-	2880.0	2754.0 <	
			-	-	-	-	28.4	27.0 <	
1	6	kgf	1723.8	1642.2 <	2130.0	2019.6 <	<	<	Cutting edge down force at ground level
			16.9	16.1 <	20.9	19.8 <	<	<	
2	Boom speed	sec	3800.3	3620.4 <	4695.8	4452.5 <	<	<	Oil temp. 50±5°C(122±41°F) Ground to max. height (exclue cushioning)
			2.6	2.3 to 2.9	2.4	2.1 to 2.7	<	<	
			4.2	3.9 to 4.5	4.3	4.0 to 4.6	4.0	3.7 to 4.3	
			2.6	2.3 to 2.9	2.3	2.0 to 2.6	2.4	2.1 to 2.7	
3	Arm speed	sec	4.0	3.7 to 4.3	3.9	3.6 to 4.2	3.8	3.5 to 4.1	
			2.6	2.3 to 2.9	3.0	2.7 to 3.3	2.9	2.6 to 3.2	
			2.6	2.3 to 2.9	3.0	2.7 to 3.3	2.9	2.6 to 3.2	
			2.7	2.4 to 3.0	2.8	2.5 to 3.1	<	<	
4	Bucket speed	sec	1.9	1.6 to 2.2	<	<	<	<	Oil temp. 50±5°C(122±41°F) Ground to max. up Max. up to max. down
			0.8	0.5 to 1.1	<	<	<	<	
			2.3	2.0 to 2.6	2.2	1.9 to 2.5	<	<	
			1.0	0.7 to 1.3	<	<	<	<	
5	Dozer speed	sec	3.0	2.7 to 3.3	2.8	2.5 to 3.1	<	<	
			0.0	5.0 >	<	<	<	<	
			0.0	0.2 >	<	<	<	<	
			0.0	0.2 >	<	<	<	<	
6	Arm cylinder cavitation	mm	2210.0	1989.0 to 2431.0	2490.0	2241.0 to 2739.0	-	-	Oil temp. 95±5°C(203±41°F)
			87.0	78.3 to 95.7	98.0	88.2 to 107.8	-	-	
			2390.0	2151.0 to 2629.0	2650.0	2385.0 to 2915.0	2650.0	2385.0 to 2915.0	
			94.1	84.7 to 103.5	104.3	93.9 to 114.8	104.3	93.9 to 114.8	
7	Max. digging height radius	mm	2500.0	2350.0 to 2650.0	2210.0	2077.0 to 2343.0	-	-	at bucket pin
			98.4	92.5 to 104.3	87.0	81.8 to 92.2	-	-	
			2670.0	2510.0 to 2830.0	2430.0	2284.0 to 2576.0	2530.0	2378.0 to 2682.0	
			105.1	98.8 to 111.4	95.7	89.9 to 101.4	99.6	93.6 to 105.6	
7	Max. dump height radius	mm	1550.0	1504.0 to 1597.0	1560.0	1513.0 to 1607.0	-	-	Bucket horizontal
			61.0	59.2 to 62.9	61.4	59.6 to 63.3	-	-	
			1310.0	1271.0 to 1349.0	1370.0	1329.0 to 1411.0	1320.0	1280.0 to 1360.0	
			51.6	50.0 to 53.1	53.9	52.3 to 55.6	52.0	50.4 to 53.5	
7	Bucket wrist angle	degree	180.0	177.0 to 183.0	185.0	182.0 to 188.0	<	<	

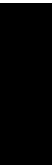
No	Specifications Items	Unit	KX61-3 EU		KX71-3 EU		KX71-3 PP		Remarks		
			Std value	Allowable range	Std value	Allowable range	Std value	Allowable range			
<b>Q6</b>	<b>Swivel, swing performance</b>										
1	1 Swivel torque	L	kgf•m	438.6	377.4 <	489.6	418.2 <	420.0	357.0 <	Arm extend,show/ Quick	
			kN.m	4.3	3.7 <	4.8	4.1 <	4.1	3.5 <		
2	2 Swivel angle	R	ft•lbs	3172.4	2729.7 <	3541.3	3024.8 <	3037.9	2582.2 <		
			kgf•m	438.6	377.4 <	489.6	418.2 <	420.0	357.0 <		
2	2 Swivel angle	L	kN.m	4.3	3.7 <	4.8	4.1 <	4.1	3.5 <		
			ft•lbs	3172.4	2729.7 <	3541.3	3024.8 <	3037.9	2582.2 <		
3	3 Swivel block performance	L	deg	21.3	19.0 <	18.8	17.0 <	16.0	14.0 <	Bucket load=JIS heaped×1.8	
			R	deg	21.3	19.0 <	18.8	17.0 <	16.0		14.0 <
		R	deg	0.0	5.0 >	←	←	←	←		On 20 degrees slope, 1 min. bucket heaped capacity
			deg	0.0	5.0 >	←	←	←	←		
4	4 Swivel start-up speed	L	deg	0.0	30.0 >	←	←	←	←	Lever lock release,	
			R	deg	0.0	30.0 >	←	←	←		←
		R	sec	2.0	1.7 to 2.3	←	←	2.5	2.2 to 2.8		0 to 90 deg swivel, bucket heaped, engine Max.
			sec	2.0	1.7 to 2.3	←	←	2.5	2.2 to 2.8		Empty bucket load. Engine max.
5	5 Swing speed	L	sec	6.5	6.0 to 7.0	6.1	5.6 to 6.6	←	←	90 deg-swivel, 100 times actual digging	
		R	sec	6.2	5.7 to 6.7	5.6	5.1 to 6.1	←	←		
6	6 Swing Lock	Swivel R&L	mm	0.0	10.0 >	←	←	←	←	90 deg-swivel, 100 times actual digging	
			inch	0.0	0.4 >	←	←	←	←		
2	2 Reciprocating motion	Swing	mm	0.0	0.0 >	←	←	←	←	90 deg-swivel, 100 times	
			inch	0.0	0.0 >	←	←	←	←		
<b>Q7</b>	<b>Hydraulic performance</b>										
1	1 Relief pressure setting	P1	kgf/cm <sup>2</sup>	230.0	225.4 to 240.7	240.0	234.6 to 249.9	220.0	215.2 to 220.3	At pump delivery 50±5°C	
			MPa	22.6	22.1 to 23.6	23.5	23.0 to 24.5	21.6	21.1 to 21.6		
2	2 Relief pressure setting	P2	bar	2.2	2.2 to 2.3	2.3	2.3 to 2.4	2.1	2.1 to 2.1		
			psi	3271.4	3206.2 to 3423.8	3413.6	3336.8 to 3554.4	3129.1	3061.1 to 3133.7		
2	2 Relief pressure setting	P2	kgf/cm <sup>2</sup>	230.0	225.4 to 240.7	240.0	234.6 to 249.9	220.0	215.2 to 220.3		
			MPa	22.6	22.1 to 23.6	23.5	23.0 to 24.5	21.6	21.1 to 21.6		
2	2 Relief pressure setting	P2	bar	2.2	2.2 to 2.3	2.3	2.3 to 2.4	2.1	2.1 to 2.1		
			psi	3271.4	3206.2 to 3423.8	3413.6	3336.8 to 3554.4	3129.1	3061.1 to 3133.7		

No	Specifications Items	Unit	KX61-3 EU		KX71-3 EU		KX71-3 PP		Remarks
			Std value	Allowable range	Std value	Allowable range	Std value	Allowable range	
1	3	kgf/cm <sup>2</sup>	175.0	170.3 to 180.5	210.0	205.0 to 215.2	210.0	205.0 to 215.2	
			MPa	17.2	16.7 to 17.7	20.6	20.1 to 21.1	20.6	
4	P3	bar	1.7	1.6 to 1.7	2.0	2.0 to 2.1	2.0	2.0 to 2.1	
			psi	2489.1	2422.8 to 2567.9	2986.9	2916.1 to 3061.1	2986.9	
1	P4	kgf/cm <sup>2</sup>	40.0	34.7 to 44.9	←	←	←	←	
			MPa	3.9	3.4 to 4.4	←	←	←	
2	Boom	mm	1.0	20.0 >	←	←	←	←	Arm extend, bucket
			inch	0.0	0.8 >	←	←	←	
3	Cylinder oil sealing capacity	mm	2.0	20.0 >	←	←	←	←	height 1m, 10 min.
			inch	0.1	0.8 >	←	←	←	
4	Bucket	mm	1.0	10.0 >	←	←	←	←	Bucket load=JIS heaped×1.8
			inch	0.0	0.4 >	←	←	←	
5	Dozer	mm	2.0	20.0 >	←	←	←	←	
			inch	0.1	0.8 >	←	←	←	
3	Boom cushioning performance	sec	3.0	3.0 >	←	←	←	←	
			0.4 to 1.3	0.4 to 1.3	←	←	←	←	
			0.3	0.3 <	←	←	←	←	
Q8	Lever operating force & stroke								
1	Boom lever operating force	kgf	1.0	0.5 to 1.5	←	←	1.4	0.9 to 1.9	
			N	10.0	5.0 to 15.0	←	←	14.0	
2	Arm lever	lbw	7.4	3.7 to 11.1	←	←	10.3	6.6 to 14.0	Extend & crowd
			kgf	1.0	0.5 to 1.5	←	←	1.4	
3	Arm lever	N	10.0	5.0 to 15.0	←	←	14.0	9.0 to 19.0	
			lbw	7.4	3.7 to 11.1	←	←	10.3	
3	Arm lever	kgf	1.0	0.5 to 1.5	←	←	1.43	0.9 to 1.9	
			N	10.0	5.0 to 15.0	←	←	14.0	
3	Arm lever	lbw	7.4	3.7 to 11.1	←	←	10.3	6.6 to 14.0	
			kgf	1.0	0.5 to 1.5	←	←	1.43	

No	Specifications Items	Unit	KX61-3 EU		KX71-3 EU		KX71-3 PP		Remarks
			Std value	Allowable range	Std value	Allowable range	Std value	Allowable range	
4		kgf	1.0	0.5 to 1.5	←	←	1.43	0.9 to 1.9	
		N	10.0	5.0 to 15.0	←	←	14.0	9.0 to 19.0	
		lbw	7.4	3.7 to 11.1	←	←	10.3	6.6 to 14.0	
5		kgf	1.0	0.5 to 1.5	←	←	1.43	0.9 to 1.9	Dump & crowd
		N	10.0	5.0 to 15.0	←	←	14.0	9.0 to 19.0	
		lbw	7.4	3.7 to 11.1	←	←	10.3	6.6 to 14.0	
6	Bucket lever	kgf	1.0	0.5 to 1.5	←	←	1.43	0.9 to 1.9	
		N	10.0	5.0 to 15.0	←	←	14.0	9.0 to 19.0	
		lbw	7.4	3.7 to 11.1	←	←	10.3	6.6 to 14.0	
7		kgf	1.0	0.5 to 1.5	←	←	1.43	0.9 to 1.9	Left & right
		N	10.0	5.0 to 15.0	←	←	14.0	9.0 to 19.0	
		lbw	7.4	3.7 to 11.1	←	←	10.3	6.6 to 14.0	
8	Swivel (Swing) lever	kgf	1.0	0.5 to 1.5	←	←	1.43	0.9 to 1.9	
		N	10.0	5.0 to 15.0	←	←	14.0	9.0 to 19.0	
		lbw	7.4	3.7 to 11.1	←	←	10.3	6.6 to 14.0	
9		kgf	2.6	2.0 to 3.1	←	←	2.4	1.9 to 3.0	Up & down
		N	25.0	20.0 to 30.0	←	←	24.0	19.0 to 29.0	
		lbw	18.4	14.8 to 22.1	←	←	17.4	14.0 to 21.4	
10	Dozer lever	kgf	2.6	2.0 to 3.1	←	←	2.4	1.9 to 3.0	
		N	25.0	20.0 to 30.0	←	←	24.0	19.0 to 29.0	
		lbw	18.4	14.8 to 22.1	←	←	17.4	14.0 to 21.4	
11		kgf	1.6	1.1 to 2.1	←	←	1.6	1.1 to 2.1	
		N	16.0	11.0 to 21.0	←	←	16.0	11.0 to 21.0	
		lbw	11.8	8.1 to 15.5	←	←	11.6	8.1 to 15.5	
12	Travel lever	kgf	1.6	1.1 to 2.1	←	←	1.6	1.1 to 2.1	
		N	16.0	11.0 to 21.0	←	←	16.0	11.0 to 21.0	
		lbw	11.8	8.1 to 15.5	←	←	11.6	8.1 to 15.5	
13		kgf	1.6	1.1 to 2.1	←	←	1.6	1.1 to 2.1	
		N	16.0	11.0 to 21.0	←	←	16.0	11.0 to 21.0	
		lbw	11.8	8.1 to 15.5	←	←	11.6	8.1 to 15.5	
14		kgf	1.6	1.1 to 2.1	←	←	1.6	1.1 to 2.1	
		N	16.0	11.0 to 21.0	←	←	16.0	11.0 to 21.0	
		lbw	11.8	8.1 to 15.5	←	←	11.6	8.1 to 15.5	

No	Specifications Items	Unit	KX61-3 EU		KX71-3 EU		KX71-3 PP		Remarks
			Std value	Allowable range	Std value	Allowable range	Std value	Allowable range	
Q8		kgf	4.9	3.4 to 6.4	←	←	←	←	
15		N	48.0	33.0 to 63.0	←	←	←	←	
	Accelerator lever	lbw	35.4	24.3 to 46.5	←	←	←	←	
16		kgf	4.4	2.9 to 5.9	←	←	←	←	
		N	43.0	28.0 to 58.0	←	←	←	←	
		lbw	31.7	20.7 to 42.8	←	←	←	←	
17		kgf	3.4	2.3 to 4.4	←	←	4.59	3.6 to 5.6	
		N	33.0	23.0 to 43.0	←	←	45.0	35.0 to 55.0	
	Swing pedal	lbw	24.3	17.0 to 31.7	←	←	33.2	25.8 to 40.6	
18		kgf	3.4	2.3 to 4.4	←	←	4.59	3.6 to 5.6	
		N	33.0	23.0 to 43.0	←	←	45.0	35.0 to 55.0	
		lbw	24.3	17.0 to 31.7	←	←	33.2	25.8 to 40.6	
1		kgf	4.4	3.4 to	←	←	4.59	3.6 to 5.6	
19		N	43.0	33.0 to 53.0	←	←	45.0	35.0 to 55.0	
		lbw	31.7	24.3 to 0.0	←	←	33.2	25.8 to 40.6	Up & down
	SP pedal	kgf	4.4	3.4 to	←	←	4.59	3.6 to 5.6	
20		N	43.0	33.0 to 53.0	←	←	45.0	35.0 to 55.0	
		lbw	31.7	24.3 to 0.0	←	←	33.2	25.8 to 40.6	
21		kgf	1.2	0.2 to 2.2	←	←	←	←	
		N	12.0	2.0 to 22.0	←	←	←	←	
		lbw	8.9	1.5 to 16.2	←	←	←	←	
	Safety lock lever	kgf	3.5	2.4 to 4.5	←	←	←	←	Up & down
22		N	34.0	24.0 to 44.0	←	←	←	←	
		lbw	25.1	17.7 to 32.5	←	←	←	←	
1		mm	73.0	63.0 to 83.0	←	←	74.0	64.0 to 84.0	
		inch	2.9	2.5 to 3.3	←	←	2.9	2.5 to 3.3	
2		mm	73.0	63.0 to 83.0	←	←	74.0	64.0 to 84.0	
	Boom lever stroke	inch	2.9	2.5 to 3.3	←	←	2.9	2.5 to 3.3	
3		mm	73.0	63.0 to 83.0	←	←	74.0	64.0 to 84.0	
		inch	2.9	2.5 to 3.3	←	←	2.9	2.5 to 3.3	
4		mm	73.0	63.0 to 83.0	←	←	74.0	64.0 to 84.0	
	Arm lever stroke	inch	2.9	2.5 to 3.3	←	←	2.9	2.5 to 3.3	

No	Specifications Items	Unit	KX61-3 EU		KX71-3 EU		KX71-3 PP		Remarks
			Std value	Allowable range	Std value	Allowable range	Std value	Allowable range	
Q8	5	crowd	mm	72.0	62.0 to 82.0	←	←	←	
6	Bucket lever stroke	extend	mm	72.0	62.0 to 82.0	←	←	←	
7	Swivel lever stroke	R	mm	72.0	62.0 to 82.0	←	←	←	
8	Swivel lever stroke	L	mm	72.0	62.0 to 82.0	←	←	←	
9	Dozer lever stroke	up	mm	51.0	41.0 to 61.0	←	←	58.0	48.0 to 68.0
10	Dozer lever stroke	down	mm	51.0	41.0 to 61.0	←	←	58.0	48.0 to 68.0
11	Travel lever stroke	Forward	mm	74.0	64.0 to 84.0	←	←	←	
12	Travel lever stroke	Back	mm	74.0	64.0 to 84.0	←	←	←	
13	Travel lever stroke	Forward	mm	74.0	64.0 to 84.0	←	←	←	
14	Travel lever stroke	Back	mm	74.0	64.0 to 84.0	←	←	←	
Q10	Comfortability								
1	Noise level	Canopy	db(A)	78.0	80.0 >	←	←	79.0	81.0 >
		Cab	db(A)	78.0	80.0 >	←	←	79.0	81.0 >
		7m	db(A)	65.0	65.4 >	←	←	←	←
			db(A)	92.9	92.9 >	←	←	←	←



**II. Machine Body . . . . . M-II-2**

    a. Main component . . . . . M-II-2

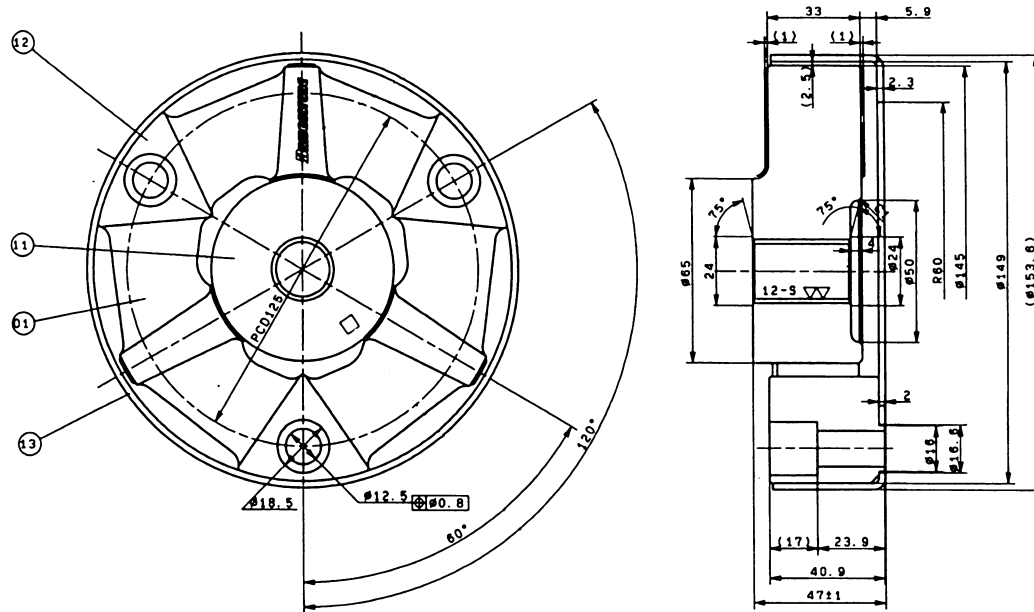
    b. Water and oil quantity . . . . . M-II-14

## II. Machine Body

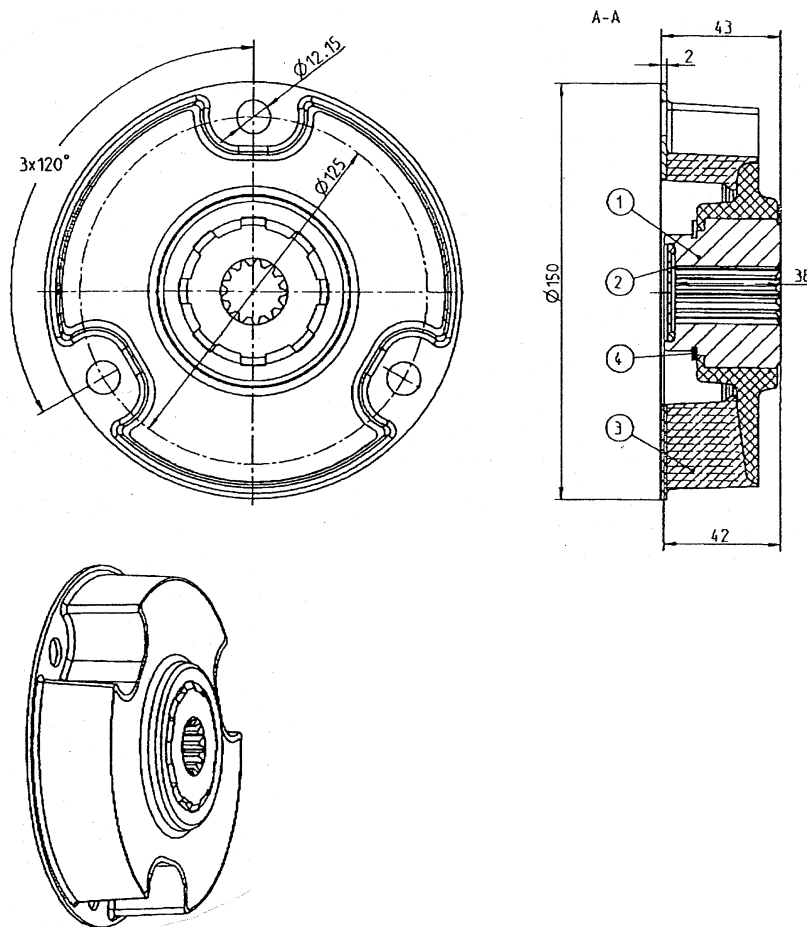
### a. Main component

#### 1. Pump coupling

##### 1-1 KX71-3 PP - version



##### 1-2 KX61-3, KX-71-3 EU- version

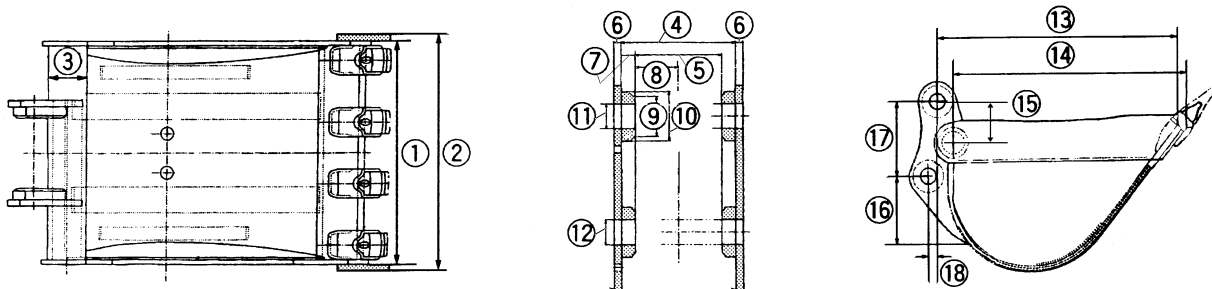




2-3 Bucket dimensions

No.	Unit	KX61-3	KX71-3	Remarks
1	mm in.	448 17.6	480 18.9	
2	mm in.	472 18.6	504 19.8	
3	mm in.	$\phi 76.3 \times t9.5$ $\phi 3.00 \times t0.37$	$\phi 76.1 \times t10$ $\phi 3.00 \times t0.39$	
4	mm in.	184 7.24	←	
5	mm in.	110 4.33	134 5.28	
6	mm in.	12 0.47	←	
7	mm in.	25 0.98	←	
8	mm in.	56 2.20	67 2.64	
9	mm in.	$\phi 54$ $\phi 2.13$	$\phi 64$ $\phi 2.52$	
10	mm in.	$\phi 65$ $\phi 2.56$	$\phi 80$ $\phi 3.15$	
11	mm in.	$\phi 30^{+0.10}_{+0.05}$ $\phi 1.18^{+0.004}_{+0.002}$	$\phi 35^{+0.10}_{+0.05}$ $\phi 1.18^{+0.004}_{+0.002}$	
12	mm in.	$\phi 30^{+0.10}_{+0.05}$ $\phi 1.18^{+0.004}_{+0.002}$	$\phi 35^{+0.10}_{+0.05}$ $\phi 1.18^{+0.004}_{+0.002}$	
13	mm in.	589 23.2	594 23.4	
14	mm in.	503.5 19.8	566 22.3	
15	mm in.	78.5 3.09	←	
16	mm in.	148 5.839	187 7.36	
17	mm in.	137 5.39	135 5.31	
18	mm in.	0 0	14.5 0.57	

NOTE:KUBOTA JAPAN BUCKET



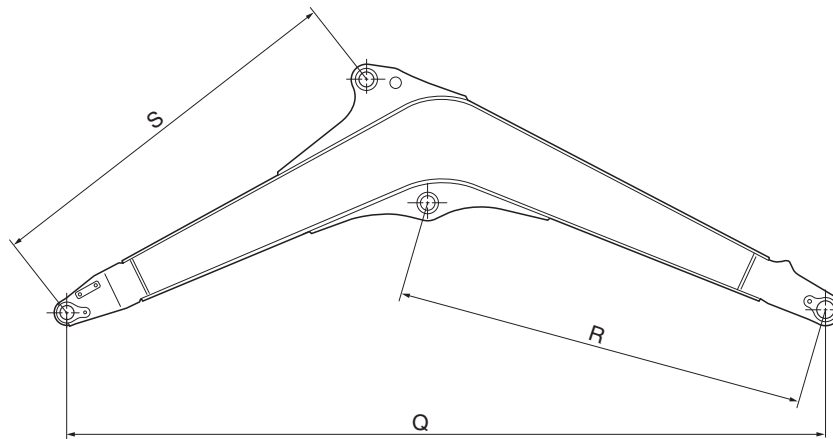
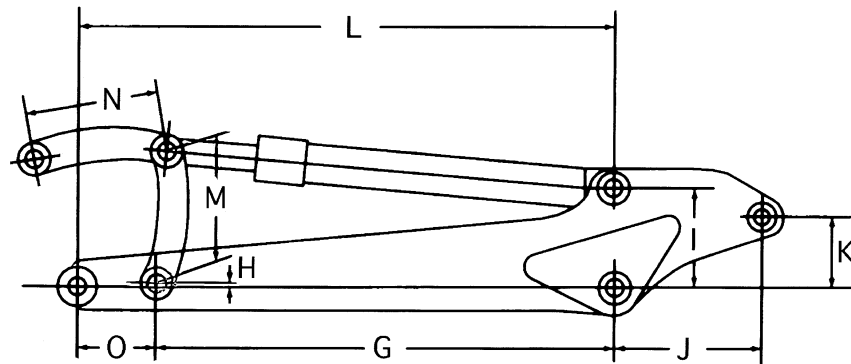
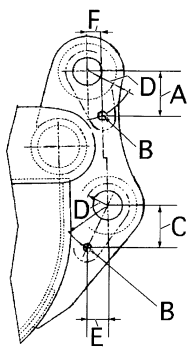
### 3. Bucket installation relevant dimensions

#### 3-1 Boom, arm, bucket link

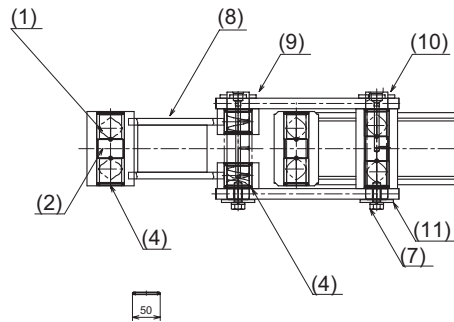
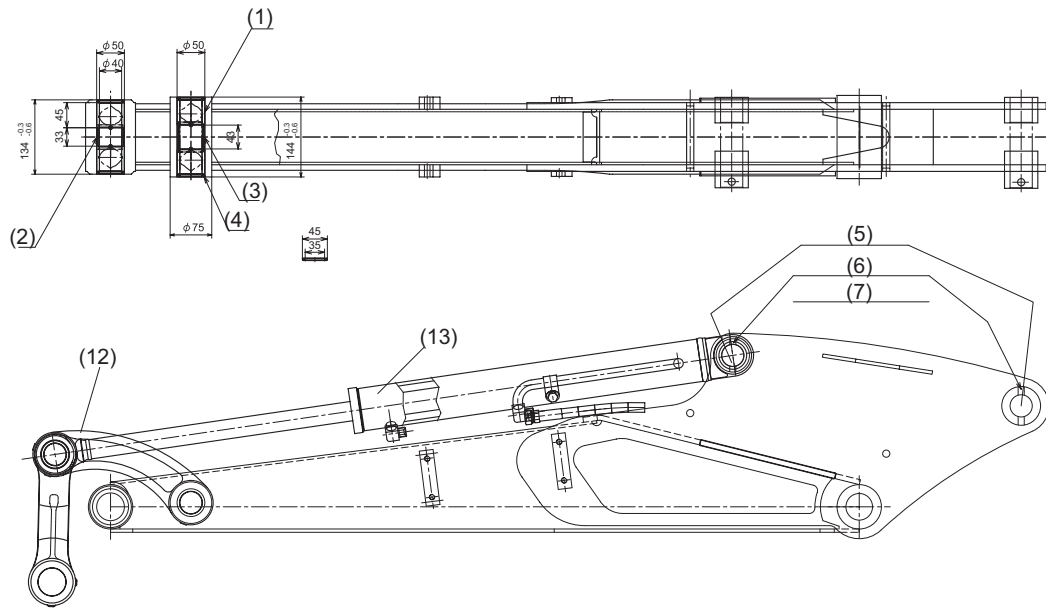
Unit : mm (inch)

No.	KX61-3	KX71-3	Remarks
A	60 (2.36)	59.8 (2.35)	
B	φ20	←	
C	50.5 (1.99)	52.9 (2.08)	
D	60 (2.36)	60 (2.36)	
E	32.3 (1.27)	14.5 (0.57)	
F	5.0 (0.20)	5.0 (0.20)	
G	905 (35.6)   1155 (45.5)	1005 (39.6)   1205 (47.4)	
H	10.0 (0.39)	7.5 (0.30)	
I	259 (10.2)	273 (10.7)	
J	225.5 (8.88)	292 (11.5)	
K	157 (6.18)	182 (7.17)	
L	1076.5 (42.4)	990.5 (39.0)   1122 (44.2)	
M	240 (9.45)	260 (10.2)	
N	240 (9.45)	230 (9.06)	
O	145 (5.70)	←	
P	1050 (41.3)   1300 (51.2)	1150 (45.3)   1350 (53.1)	
Q	2088 (82.2)	2240 (88.2)	
R	1134 (44.6)	1110 (43.7)	
S	1046 (41.2)	1166 (45.9)	

NOTE: KUBOTA JAPAN BUCKET  
STANDARD ARM



3-2 Bushing



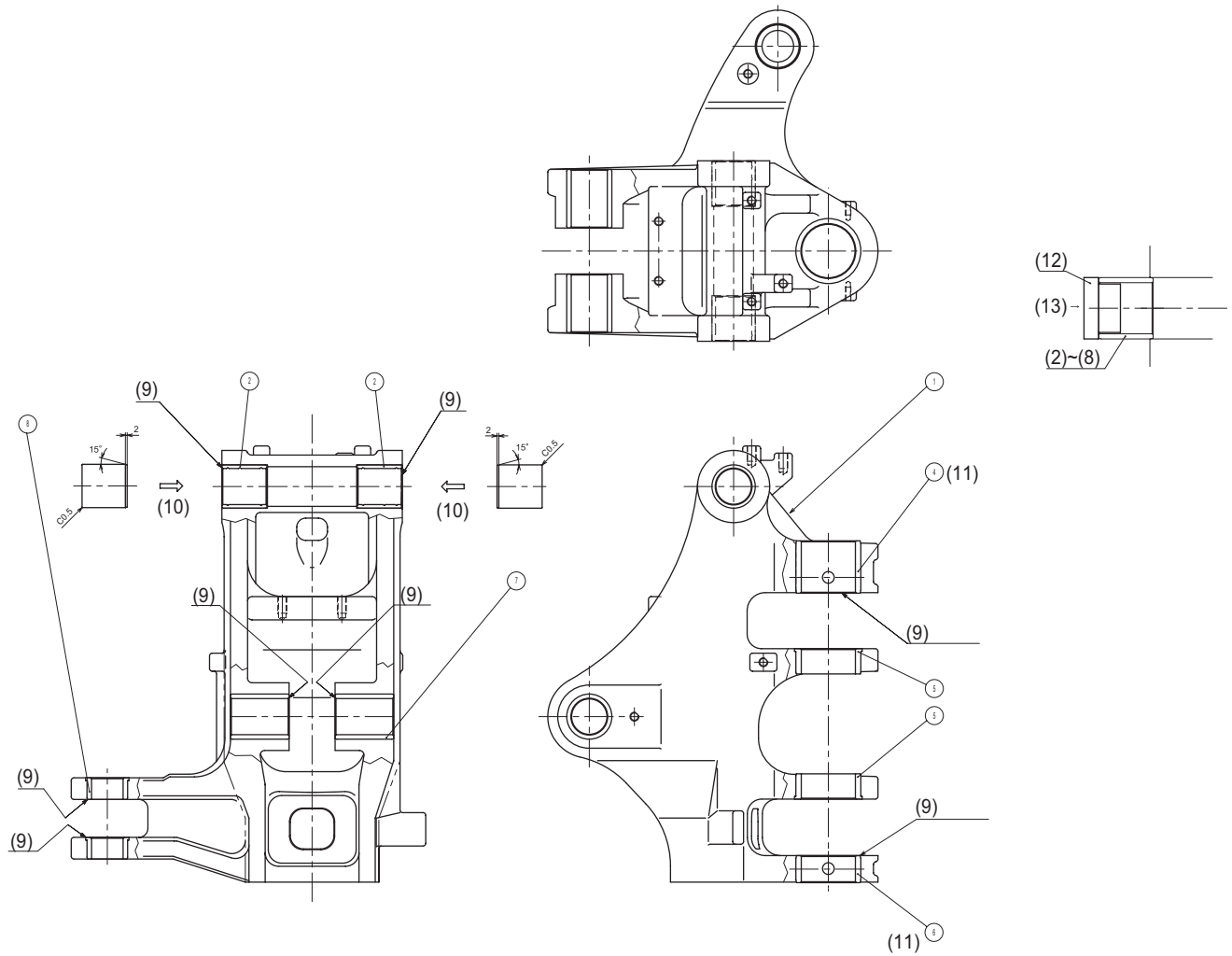
[Unit:mm]

No.	Items	KX61-3 (EU)		KX71-3 (EU)		KX71-3 (PP)	
		Parts No.	Spec.	Parts No.	Spec.	Parts No.	Spec.
(1)	Bush B	RG248-76151	35×45×45	RG248-76151	35×45×45	RC348-76151	40×50×45
(2)	Collar					RC348-66691	33
(3)	Collar					RC348-66651	43
(4)	Dust seal					RC411-66781	
(5)	Pin					RC348-66791	
(8)	Bucket Link1	RG248-66711	120 ••• 34.5	RG448-66711	144 ••• 46.5	RC348-66711	144 ••• 46.5
(9)	Pin					RC348-66771	
(10)	pin B dia	RG248-66781	35	RG448-66781	35	RC348-66781	40
(12)	Bucket Link23	RG248-66721	40-35	RG248-66721	40-35	RC348-66721	40-40
		RG248-66731		RG248-66731		RC348-66731	
(13)	bucket cylinder L/S(stroke)	RG248-67801	Refer to cylinder spec.	RG448-67801	Refer to cylinder spec.	RC348-67801	Refer to cylinder spec.
	BushA	RG248-76141	40×50×34	RG448-76241	35×45×36	RC348-76241	40×50×36
	Pin A dia	RG248-66771	30	RG448-66771	35	RC418-66761	40
	Arm boss	RG248-67111	X145Y10 38×110	RG448-67111	X145Y7.5 45×134	RC348-67111	X145Y7.5 50×134

(7) Bolt (11) Washer

EU: European - version PP: North America & Oceania

### 4. Swing bracket

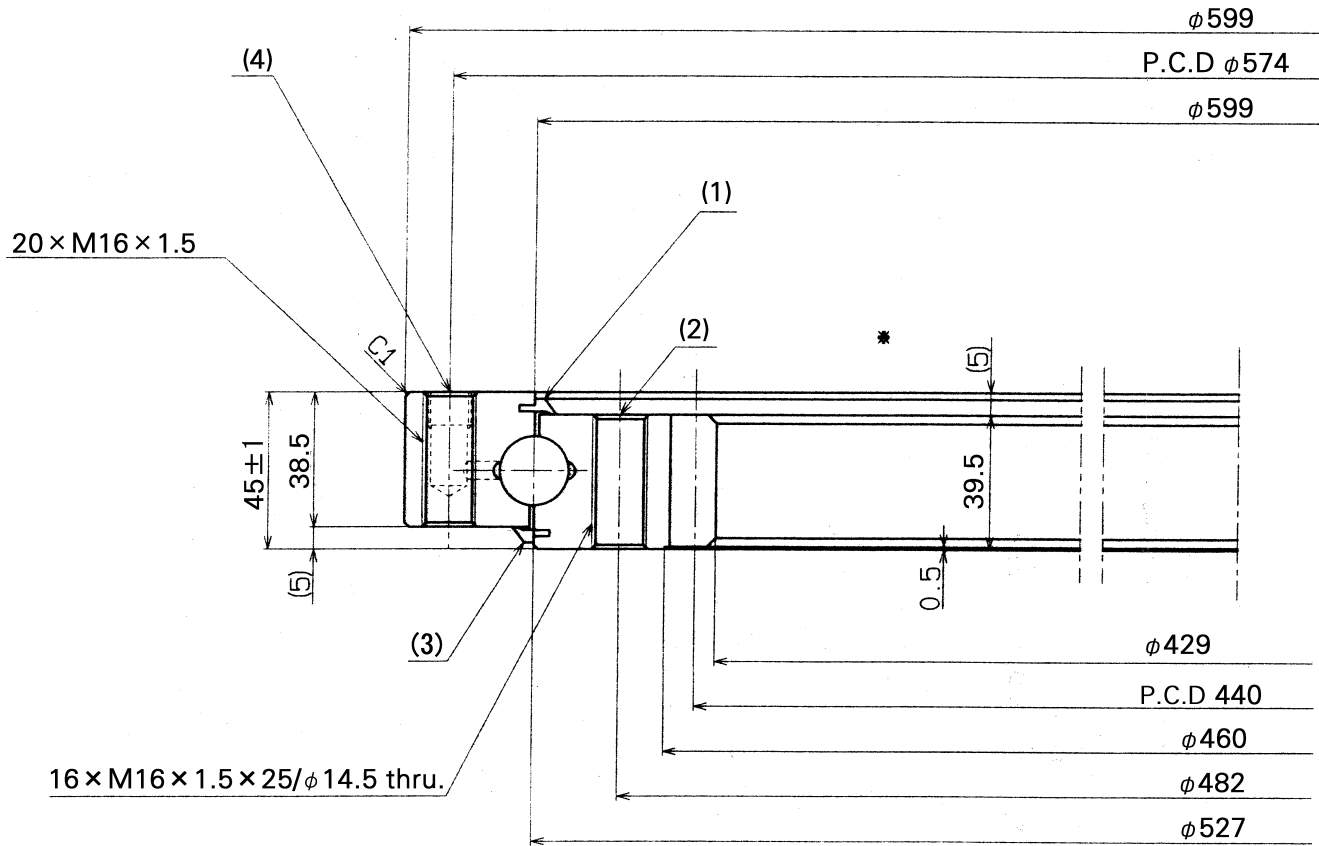


- (1) Swing bracket
- (2) ~ (8) Bushing
- (9) Side of the bush ( ) should flash the face.
- (10) Bush press-fitting direction
- (11) Check the bushing direction.  
(Bolt hole should meet.)
- (12) Jig.
- (13) Pressing

Remarks: Service limit of pin and bush wear.  
 Pin : -1.0mm (-0.01 in.)  
 Bush : +1.0mm (+0.04in.)

5. Swivel bearing

1-3-excavator-service-repair-workshop-manualmechanism-chapter/  
r/



- (1) Seal B
- (2) S-mark
- (3) Seal A
- (4)  $R_p 1/8$ , for grease nipple

Number of teeth = 80  
 CLEARANCE (AXIAL) : 0.05~0.12mm (0.002~0.005 in.)  
 P.C.D. =  $\phi 440$