



SPECIFICATIONS FOR

MODEL SK330LC-6

FULL HYDRAULIC EXCAVATOR

WITH 70FT LONG RANGE ATTACHMENT
(BACK HOE)

NOVEMBER 2002

KOBELCO CONSTRUCTION MACHINERY CO. LTD

Model SK330LC-6

Disclaimer: Select Civil Pty Ltd has created this document from the manufactures specifications and therefore should be used as a guideline only.



1. Model Kobelco SK330LC
(with 70ft long range attachments)

2. Type Crawler mounted full hydraulic excavator of full revolving type

3. Front Attachment

3.1 Type Back hoe attachment

3.2 Bucket Capacity JIS Heaped 0.31m³ (0.41cuyd)

3.3 Working Range

3.3.1 Max Digging Reach 21390mm

3.3.2 Max Digging Depth 16190mm

4. Machine Dimensions (see fig.1)

4.1 Overall Length 16890mm

4.2 Overall Width 3400mm
(with 800mm shoe)

4.3 Overall Height 3140mm

5. Weight & ground pressure with standard attachment JIS A 8401

Working Weight	Width of Shoe	Ground Pressure
38.400kg	800mm	72 kpa (0.73 kgf/cm ²)

6. Performance

6.1 Swing Speed 9.1 min (9.1 rom)

6.2 Travel Speed 5.8 / 3.4 km/h

6.3 Gradeability 70% (35deg)

(Gradeability is limited by engine lubrication requirements)



7. Machine Dimensions (see fig.1)

7.1 Overall Length	16,890mm
7.2 Overall Width	3,400mm
7.3 Overall Height	3,120mm
7.4 Basic Machine Length	5,990mm
7.5 Width of revolving upper structure	3,000mm
7.6 Height of Cab Top	3,120mm
7.7 Radius of Rear End	3,500mm
7.8 Ground Clearance of Rear End*	1,200mm
7.9 Centre Distance of Tumblers	4,050mm
7.10 Overall Length of Crawler	4,980mm
7.11 Overall Width of Crawler	3,200mm
7.12 Crawler Height at Tumbler Centre	1,050mm
7.13 Track Gauge	2,600mm
7.14 Width of Crawler Shoe	800mm
7.15 Ground Clearance of Undercarriage*	500mm

*Marked dimensions are not included height of shoe lug

8. Engine

8.1 Maker	Mitsubishi Motors Corporation
8.2 Model	6D16-TLE1 6D16-TLUA (for EU)
8.3 Type	Water-cooled 4cycle 6 cylinder direct injection type diesel engine with intercooler turbo-charger
8.4 No. of Cylinders bore and stroke	6-118mm x 115mm
8.5 Displacement	7545 l
8.6 Rated Output Power	177 KW/2.200 rpm
8.7 Maximum Torque	824N m/1,800 rpm
8.8 Cooling System	Circulating type with centrifugal pump
8.9 Lubricating System	Pressure feed with gear pump

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8.10 Electrical System

D.C. 24V

9 Hydraulic System

9.1 Hydraulic Pump

9.1.1 Type

Tandem variable displacement piston pumps

9.1.2 Max Flow at Rated Engine Speed

Piston 2 x 253 1/min

9.2 Directional Control Valves

9.2.1 Type

6 spool valve

9.2.2 Type of Control

Excavating, travel and swing hydraulic pilot control type

9.3 Relief Valve Setting

9.3.1 Excavating Circuit (main)

34.3 MPa

9.3.2 Travel Circuit

34.3MPa

9.3.3 Swing Circuit

27.5MPa

9.3.4 Pilot Control Circuit

5.0 MPa

9.4 Hydraulic Oil Filters

1-30m return line filters in hydraulic oil reservoir (B to ≥ 1.4) (JIS B 8358)

1-177m Suction strainer in hydraulic oil reservoir (80 mesh)

10. Controls

10.1 Operator's Cab

Structure

Fully enclosed steel structure

Position

Left side front of upper structure

10.2 Operator's Seat

Adjustable and reclining device

10.3 Operation

10.3.1 Engine Control

Rotary – type electric throttle

10.3.2 Travel

Tow hand levers or two foot pedals for forward and backward operations of each track independently.

10.3.3 Escavating and Swing

Two hand levers for four operations



11. Swing Mechanism

11.1 Swing circle	Single row ball bearing with internal gear
11.2 Hydraulic Motor	1 x axial piston type
11.3 Reduction Unit	2 stage planetary gear unit
11.4 Swing brake	Hydraulic Brake
11.5 Parking brake	Oil disk brake, hydraulic operated automatically

12. Undercarriage

12.1 Propel Mechanism

12.1.1 Type of Propel	Full hydraulic
12.1.2 Hydraulic Motor	2 x axial piston type
12.1.3 Reduction Unit	2 stage planetary gear units directly drive sprockets

12.2 Brake

12.2.1 Travel Brake	Hydraulic brake per motor
12.2.2 Parking Brake	Oil disk brake per motor
12.2.3 Parking Brake Operation	Automatically set while travel levers are neutral or engine stops
12.3 Type of Steering	Two travel levers control each hydraulic motor independently for pivot and spin turn

12.4 Track

12.4.1 Crawler Shoe

Type	Tractor type triple grouser shoe
No. for each side	48
Height of grouser shoe	30mm
12.4.2 Upper Roller	2 for each side, Inside flanged with floating seals
12.4.3 Lower Roller	8 for each side, outside flanged with floating seals
12.4.4 Idler	1 for each side, inside flanged with floating seals
12.4.5 Track tension mechanism	Hydraulic track adjusters and cushion springs



13. Backhoe Attachment (Long Range Arm 9.6m)

13.1 Capacity, dimensions and working ranges (see fig.3)

(1) Bucket capacity	JIS heaped 0.31m ³ (0.41cuyd) (SAE heaped 0.31m ³ (0.41cuyd) (struck 0.23m ³ (0.30cuyd)
(2) Bucket width with side cutters	700mm
Bucket width without side cutters	600mm
(3) Bucket weight	265kg
(4) Max digging reach	(A) 21,390mm
(5) Max digging reach at ground level	(A') 21,290mm
(6) Max digging depth	(B) 16,190mm
(7) Max digging height	(C) 17,310mm
(8) Max dumping clearance	(D) 14,320mm
(9) Min dumping clearance	(E) 2,380mm
(10) Max vertical digging depth	(F) 14,000mm
(11) Min swing radius	(G) 6,180mm
(12) Height at min swing radius	(H) 15,090mm
(13) 8 feet level digging depth	(J) 16,120 m

13.2 Hydraulic cylinders Double voting type

	No.	Bore	x	Stroke
Boom	2	140mm	x	1.542mm
Arm	1	170mm	x	1.790mm
Bucket	1	95mm	x	885mm

13.3 Tooth force

(1) Max radial tooth force (bucket Cyl)	88 kN (JIS A 8404) 80 kN (SAE)
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(2) Max radial tooth force (arm Cyl)

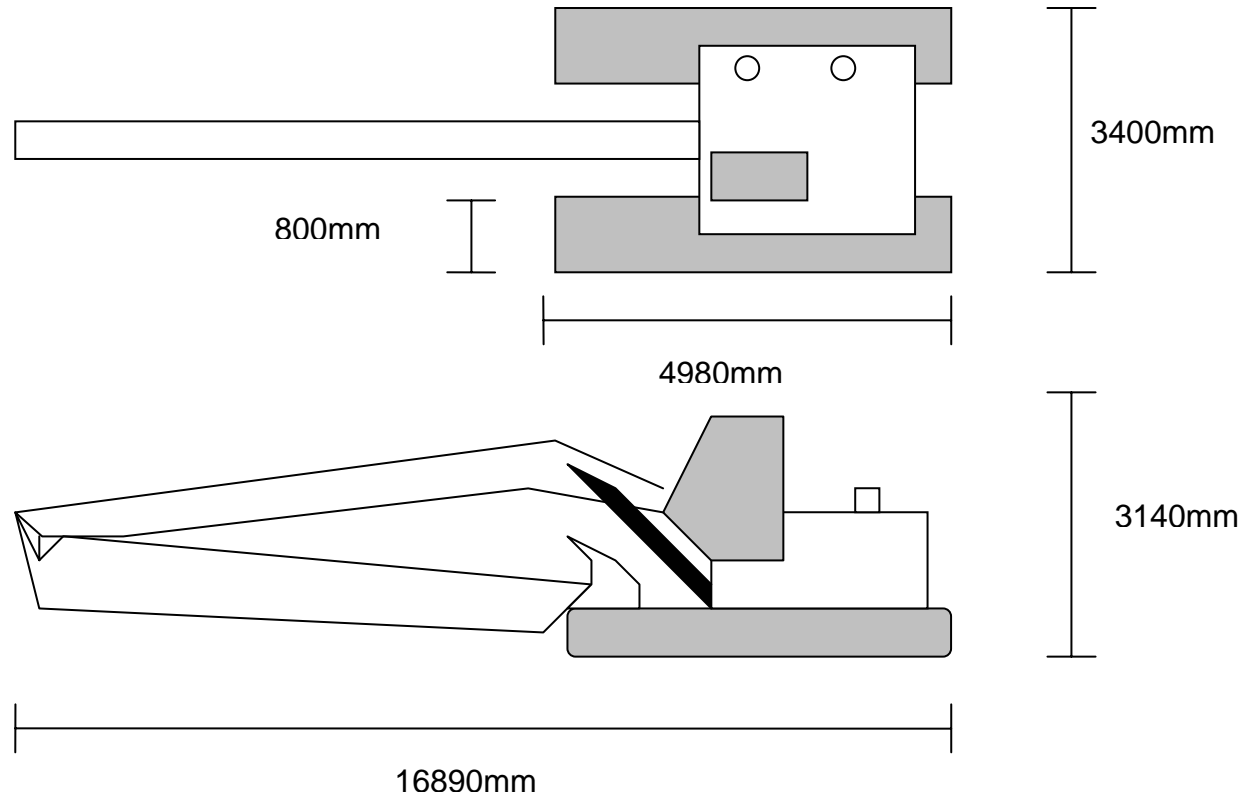
74 kN (JIS A 8404)
74 kN (SAE)

14. Service refill capacities

(1) Fuel Tank	580 litre
(2) Hydraulic Oil Reservoir	206 litre
(3) Hydraulic system including hydraulic oil reservoir	351 litre
(4) Cooling System	34 litre
(5) Lubrication Engine oil	28 litre



Figure 1 Basic Machine Dimensions SK330LC-6

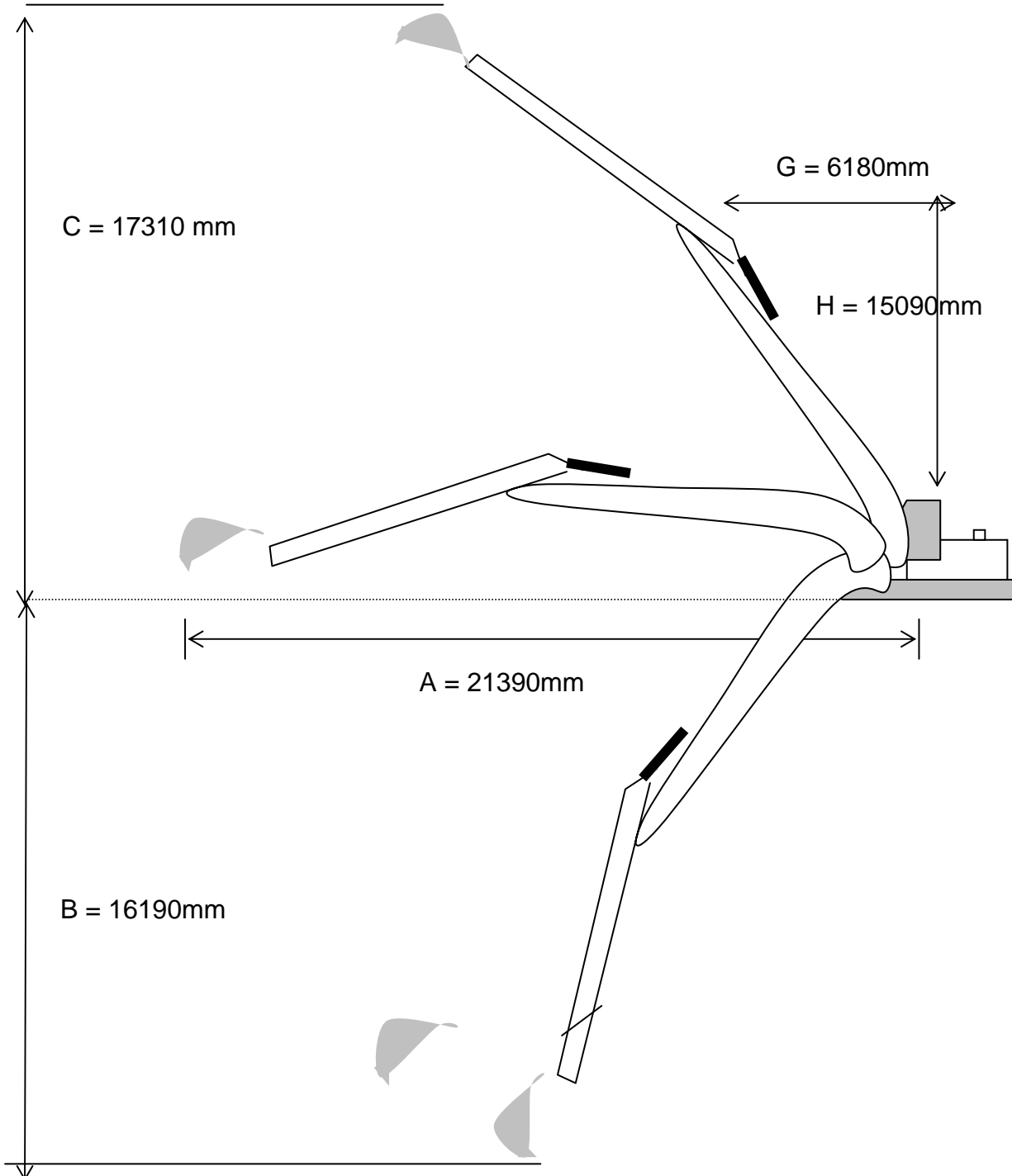


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FIG. 3 WORKING RANGE OF KOBELCO SK330LC-6



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