



SPECIFICATIONS FOR

MODEL SK250LC-6

FULL HYDRAULIC EXCAVATOR

WITH 60FT LONG RANGE ATTACHMENT
(BACK HOE)

DECEMBER 1999

KOBELCO CONSTRUCTION MACHINERY CO. LTD

Model SK250LC-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 SK250LC
(with 60ft long range attachments)

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

3. Front Attachment

3.1 Type Long range backhoe attachment (60ft)

3.2 Bucket Capacity 0.40m³ (0.53cuyd)

3.3 Working Range

3.3.1 Max Digging Reach 18.540mm

3.3.2 Max Digging Depth 14.780mm

4. Machine Dimensions (see fig.1)

4.1 Overall Length 14.380mm

4.2 Overall Width (with 700mm shoe) 3.300mm

4.3 Overall Height 2.840mm

5. Weight & ground pressure with long range attachment (JIS & B401) (8.25m Arm)

Working Weight	Width of Shoe	Ground Pressure
27.200kg	800mm	40kpa
27.500kg	900mm	36kpa

6. Performance

6.1 Swing Speed 11min-1

6.2 Travel Speed 6.0 / 4.0 km/h

6.3 Gradeability 70% (35deg)

(Gradeability is limited by engine lubrication requirements)



7. Machine Dimensions (see fig.1)

7.1 Overall Length	14.380mm
7.2 Overall Width	3,300mm
7.3 Overall Height	2,940mm
7.4 Basic Machine Length	5,270mm
7.5 Width of revolving upper structure	2,710mm
7.6 Height of Cab Top	2,920mm
7.7 Radius of Rear End	2,980mm
7.8 Ground Clearance of Rear End*	1,040mm
7.9 Centre Distance of Tumblers	3,850mm
7.10 Overall Length of Crawler	4,660mm
7.11 Overall Width of Crawler (with 700mm shoe)	3,300mm
7.12 Crawler Height at Tumbler Centre	980mm
7.13 Track Gauge	2,590mm
7.14 Width of Crawler Shoe	700mm
7.15 Ground Clearance of Undercarriage*	450mm

*Marked dimensions are not included height of shoe lug

8. Engine

8.1 Maker	Mitsubishi Motors Corporation
8.2 Model	6034-TLEB (for U.S.A) 6034-TLUC (for EU) 6034-TLEI (others)
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	8-104mm x 115mm
8.5 Displacement	5.861
8.6 Rated Output Power	125kw/2. 100min ⁻¹ (170PS/2100min ⁻¹) 131kw/2. 100min ⁻¹ (175PH/2100min ⁻¹) (USA)

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8.7 Maximum Torque	500 N-m/1, 600min ⁻¹ (60.0kgf.m/1600rpm) 618 N-m/1, 600min ⁻¹ (456 ;bf/ft/1600 rpm)(USA)
8.8 Cooling System	Circulating type with centrifugal pump
8.9 Lubricating System	Pressure feed with ear pump
8.10 Electrical System	D.C. 24V
Starter	Electric 24V . 5.0 kw
Alternator	35 ANL
Batteries	2 x 12 V – (136AH)

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 240 1/min (2 x 63.4 U.S. gpm)
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 alrouits (main)	34.3/37.8MPs
9.3.2 Travel Circuit	34.3MPs
9.3.3 Swing Circuit	29.4MPs
9.3.4 Pilot Control Circuit	4.9 MPs
9.4 Hydraulic Oil Filters	1-30m return line filters in hydraulic oil reservoir 1-177m Suction strainer in hydraulic oil reservoir



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

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independently for pivot and spin turn

12.4 Track

12.4.1 Crawler Shoe

Type	Tractor type triple grouser shoe
No. for each side	51
Height of grouser shoe	25mm

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. Long range Backhoe Attachment (10.35m Boom and 9.25 Arm)

13.1 Capacity, dimensions and working ranges (see fig.5)

(1) Bucket capacity	JIS heaped 0.40m ³ (0.53cuyd) (SAE heaped 0.40m ³ (0.53cuyd) (struck 0.30m ³ (0.40cuyd)
(2) Bucket width with side cutters	855mm
Bucket width without side cutters	755mm
(3) Bucket weight	350kg
(4) Max digging reach	(A) 18,540mm
(5) Max digging reach at ground level	(A) 18,450mm
(6) Max digging depth	(B) 14,780mm
(7) Max digging height	(C) 14,580mm
(8) Max dumping clearance	(D) 12,280mm
(9) Min dumping clearance	(E) 1,520mm
(10) Max vertical digging depth	(F) 13,160mm
(11) Min swing radius	(G) 5,600mm
(12) Height at min swing radius	(H) 12,000mm

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13.2 Hydraulic cylinders

Double voting type

	No.	Bore	x	Stroke
Boom	2	135mm	x	1.235mm
Arm	1	140mm	x	1.835mm
Bucket	1	95mm	x	885mm

13.3 Tooth force

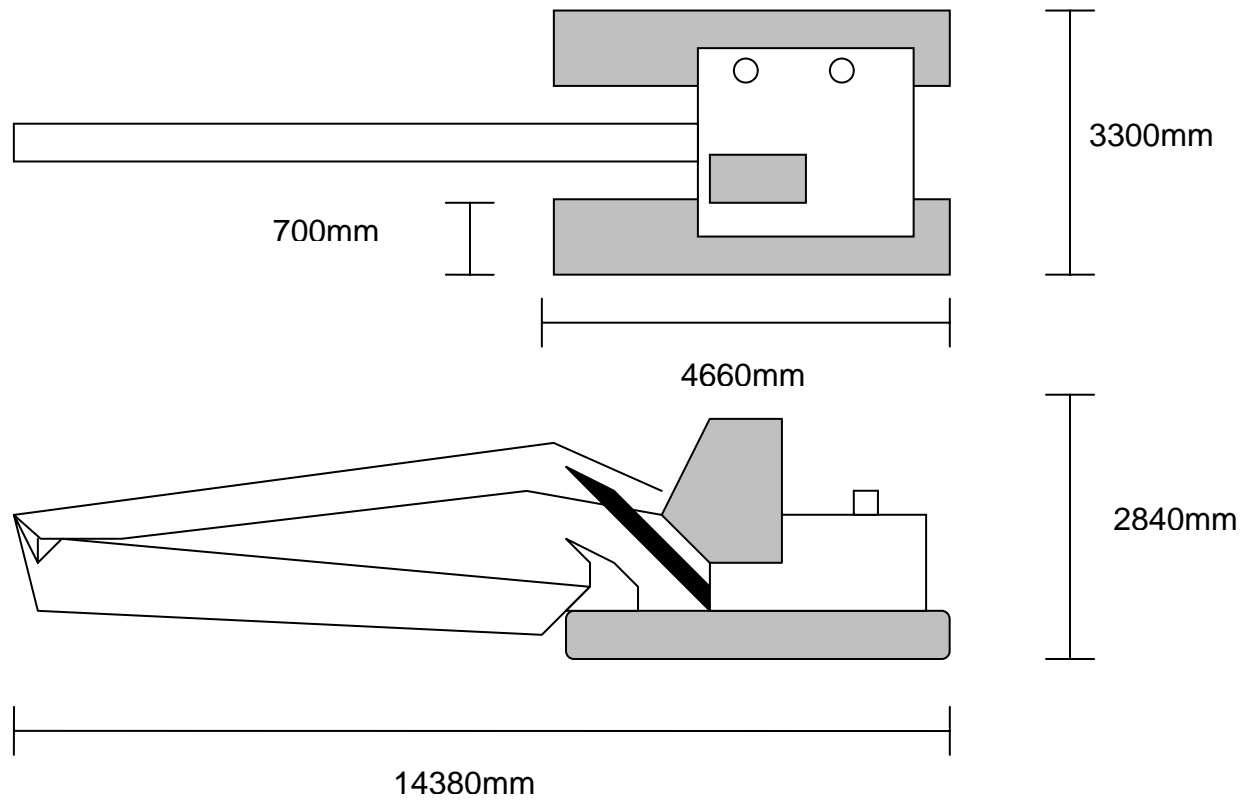
(1) Max radial tooth force (bucket Cyl)	88.3 kN (9.010kgf) (JIS A 804) 79.7 kN (17.900lbs) (SAE)
(2) Max radial tooth force (arm Cyl)	52.1 kN (5.310kgf) (JIS A 8408) 51.6 kN (11.600lbs) (SAE)

14. Service refill capacities

(1) Fuel Tank	340 litre
(2) Hydraulic Oil Reservoir	156 litre
(3) Hydraulic system including hydraulic oil reservoir	250 litre
(4) Cooling System	22 litre
(5) Lubrication Engine oil	24 litre



FIG 1: GENERAL DIMENSIONS OF KOBELCO SK250LC-6

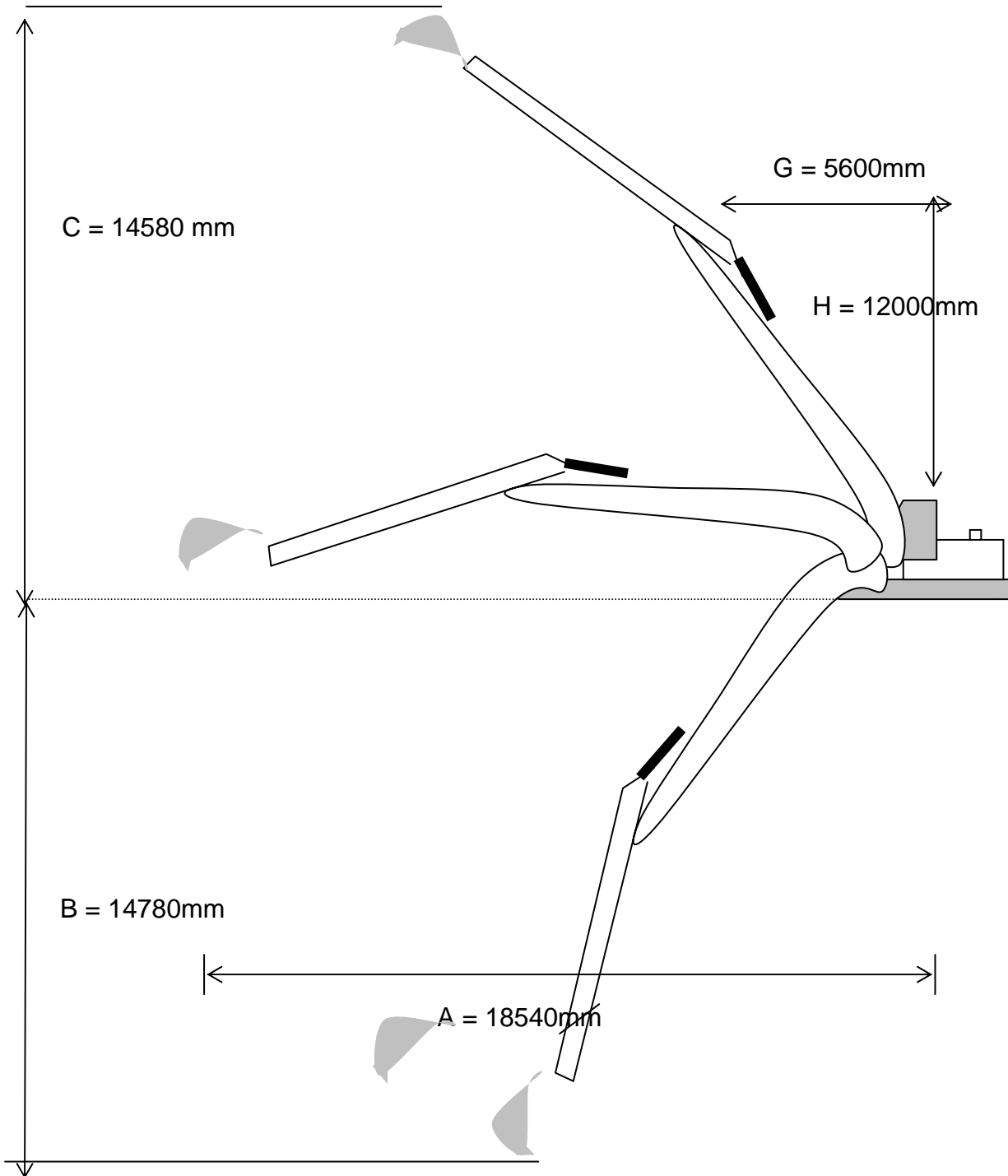


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FIG. 3 WORKING RANGE OF KOBELCO SK250LC-6



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