

SAMSUNG

HEAVY INDUSTRIES



SE130LC-2

Samsung Crawler Excavator

Flywheel Horsepower: 73.6 kw 99 hp

Operating Weight: 13,000 kg 28,660 lb

Bucket Capacity (SAE): 0.24 - 0.76 m³ 0.31 - 0.99 yd³

Samsung Excavators Provide Outstanding Power and Precision



Crawler Excavators from Samsung provide more power performance and durability than ever before. We've made refinements in the hydraulic system to provide more power and speed, making fine control easier.

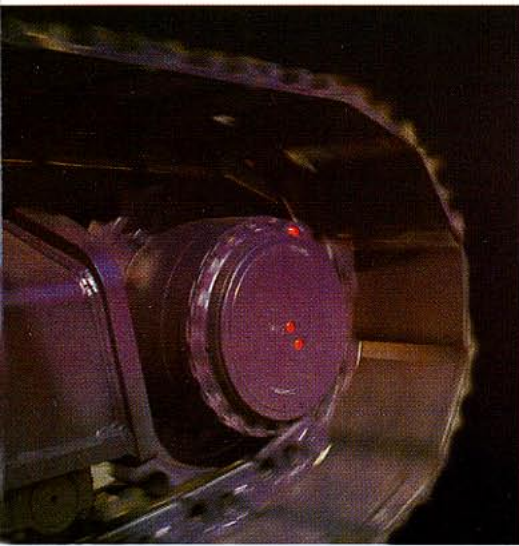
At the same time, we've reinforced the steel in the boom, the track frames and the undercarriage to provide longer life in the toughest of applications.

Your operators will also appreciate the comfort and safety features offered in our unique hi-visibility cab. All in all, this machine offers you the best value on the market today.



HEAVY INDUSTRIES

Advanced Design Concept



Samsung's Crawler Excavators have been computer-designed to provide greater structural integrity, stability and durability which will extend the service life of all major structural components.

- **Strong Undercarriage Components** - By increasing the hardness of the pins and bushings and improving the material composition of the links, rollers, idlers, and sprockets, we've added more usable life to our undercarriage.
- **Heavy Duty Track Guards** - Heavy duty track guards protect the lower rollers and prevent track disengagement on rough terrain.
- **Anti-slip Step** - Provides the operator with sure footing when entering or exiting the cab.
- **Two Speed Travel** - This feature allows the operator to travel in low gear when working in rough terrain or when slow movement is required and high gear for travel between job areas.

- **Hydraulic Safety Lock** - Raising the left side arm when leaving the cab immobilizes all controls levers, and helps to ensure operator safety.

- **Automatic Swing Brake** - The swing brake is automatically applied when the swing movement stops, preventing drift of the upper structure during slope operations.

- **Large Boom Lights** - Apart from the body head lights, separate large boom lights are installed to enhance the working conditions at night.

- **Reinforced Frames** - Both the upper and lower frames have been substantially reinforced for longer life.



HEAVY INDUSTRIES

Easy Maintenance

The spacious engine room and lift-up side covers make access to the engine compartment fast and easy.

- **Engine Hood Locks** - Locks are installed on the engine hood and side doors to protect against vandalism.
- **Auto Fuel Pump (Option)** - Allows easier re-fueling when required.
- **Centralized Grease Injection Points** - Easier lubrication of the swing ring and attachments.
- **Cooling Water Auxiliary Tank** - Enables easy monitoring and replenishment of coolant by opening the side door.
- **Easy Bucket Adjustment** - The flange can be disassembled to adjust the bucket fit for extended life and less noise.
- **Precleaner (Option)** - Extends the air filter replacement period.

- **Simplified Hydraulics** - Samsung's Excavators utilise fewer hydraulic lines and hoses. As a result, maintenance is minimised and fewer parts are required.

- **Large Capacity Radiator** - The large capacity radiator provides excellent engine cooling and protects against overheating.

- **Self-Diagnosing Monitor System** - This system monitors 6 vital machine functions. If trouble occurs in one of these functions, the monitor will identify the problem eliminating the need for further troubleshooting procedures.

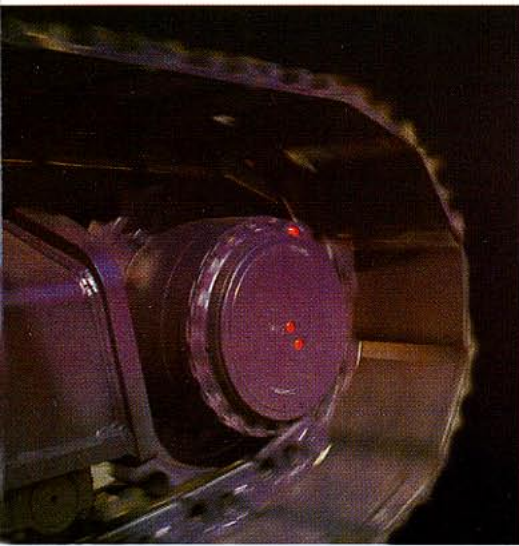
- **Easy Replacement of Bucket Teeth** - Samsung's bucket teeth are connected with a single side pin for quick and easy replacement.

- **Engine Cooling Fan** - The engine cooling fan is made of a tough plastic material to reduce noise while maintaining excellent air flow efficiency.



- **Easy Access Oil Filter** - The engine oil filter is conveniently located for easy access to inspect or change.

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SPECIFICATIONS (General)

- **Operating Weight** 13,000kg
- **Bucket Capacity** 0.24-0.76m³ 0.31-0.99yd³ (SAE)
- **Engine**
 - Model Cummins 4BTA 3.9-C
 - Type Water Cooled 4 Cylinder
 - Flywheel Horsepower 73.6kw at 2100rpm
 - Max. Torque 35.8kg.m at 1700rpm
 - Fuel Tank Capacity 260ℓ (57 UK gallons)
- **Hydraulics**
 - Type 2 Variable Axial Piston Pumps
 - System Pressure 320kg/cm²
 - Max. Flowrate 2 x 130 ℓ/min
(2 x 28 UK gallons/min)
- **Performance**
 - Swing Speed 0 to 12.7rpm
 - Travel Speed 3.1 to 5.0km/h
 - Tractive Effort (1sp/2sp) 10,700/6,600kg
 - Ground Pressure 0.33kg/cm² with 600mm shoe
0.27kg/cm² with 750mm shoe

BACKHOE ATTACHMENTS

Characteristics

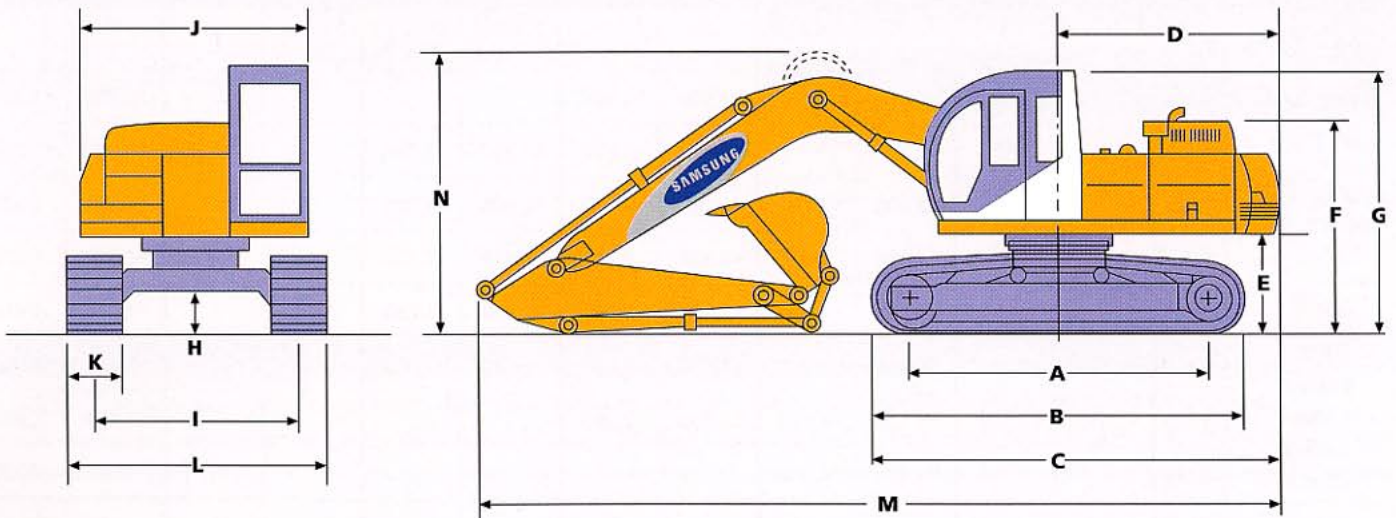
The Boom and Arm are box type structures made of high tensile steel plates. All bushings are sealed against dust and dirt for increased lubrication intervals. High tensile strength, wear-resistance and welded steel buckets are used.

- Special heat treatment connections
- Two-point support-type boom cylinder
- Flanged bushing and O-ring at arm plus bucket connection.

Bucket and Arm Digging Forces

Arm length	2,400mm	3,000mm
Bucket force	8,040kg	8,040kg
Arm force	6,270kg	5,440kg

MACHINE DIMENSIONS (Based on Standard Machine)



A. Distance Between Tumblers	3,000 mm	I. Track Gauge	2,000 mm
B. Undercarriage Length	3,740 mm	J. Upper Frame Width	2,380 mm
C. Length of Base Machine	4,200 mm	K. Track Shoe Width	600 mm
D. Tail Swing Radius	2,225 mm	L. Overall Width	2,600 mm
E. Counterweight Clearance	900 mm	M. Overall Length	7,795 mm
F. Height Without Cab	2,290 mm	N. Overall Height of Boom	2,850 mm
G. Overall Height of Cab	2,805 mm		
H. Min. Ground Clearance	450 mm		

* Specifications may vary according to regional availability

STANDARD AND OPTIONAL EQUIPMENT

STANDARD EQUIPMENT

Cabin

- Sun Visor
- Sliding Side Window
- Seat
- Glove Box
- Coat Hook
- Lockable Door
- Sliding Front Window
- Hydraulic Safety Lock
- Control Box
- Removable Bottom Window

Instrument Panel

- Engine Coolant Temp. Gauge
- Fuel Gauge
- Digital Clock
- Indicator Lights
- Hyd. Oil Temp. Gauge
- Hour Meter
- Warning Lights

Miscellaneous

- Car Stereo
- Ashtray
- Swing Lock
- Water Replenishment Tank
- Starting Aid System
- Cigarette Lighter
- Horn
- Magazine Box
- Engine Auto Deceleration

OPTIONAL EQUIPMENT

Cabin



- FOPS

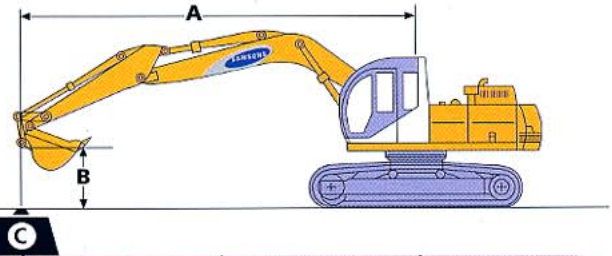
Miscellaneous

















- Anti Drop Valves
- Air Conditioner
- Grease Gun
- Breaker Control System
- Tilting Bucket System
- Heater
- Tool Kit
- Under Plate
- Travel Alarm
- Overload Warning Device

LIFTING

CAPACITIES

- A:** Reach from swing centre
B: Bucket hook height
 Rating over front
 Rating over side



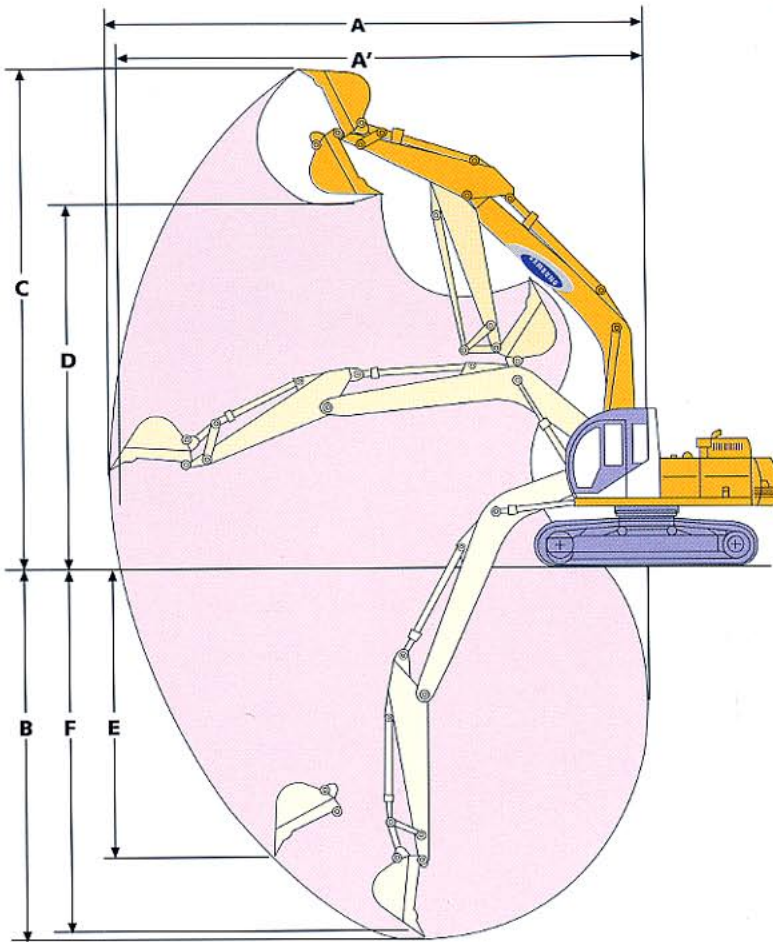
Boom and Arm Length	A B	1.5m		3.0m		4.5m		6.0m		7.5m		Max	
													
Shoe 600mm Boom 4.6m +  Arm 2.4m  Bucket 0.39m ³ 390kg (Std.)	7.5m	-	-	-	-	-	-	-	-	-	-	-	-
	6.0m	-	-	-	-	*1,500	*1,500	-	-	-	-	*1,720	*1,720
	4.5m	-	-	-	-	*1,670	*1,670	*1,760	1,760	-	-	*1,620	*1,620
	3.0m	-	-	*2,800	*2,800	*2,230	*2,230	*1,980	1,830	-	-	*1,640	1,520
	1.5m	-	-	*4,970	4,970	*2,970	2,810	*2,310	1,720	-	-	*1,790	1,400
	0m	-	-	*5,140	*4,820	*3,620	2,590	*2,600	1,630	-	-	*2,030	1,410
	-1.5m	*4,110	*4,110	*6,260	4,750	*3,890	2,490	*2,720	1,580	-	-	3,000	1,560
	-3.0m	*7,010	*7,010	*5,710	4,830	*3,680	2,500	-	-	-	-	*3,430	2,020
-4.5m	-	-	*4,360	*4,360	-	-	-	-	-	-	*4,515	3,701	
Shoe 600mm Boom 4.6m +  Arm 3.0m  Bucket 0.39m ³ 390kg (Opt.1)	7.5m	-	-	-	-	-	-	-	-	-	-	-	-
	6.0m	-	-	-	-	-	-	*1,410	*1,410	-	-	*1,460	*1,460
	4.5m	-	-	-	-	-	-	*1,430	*1,430	-	-	*1,380	1,330
	3.0m	-	-	-	-	*1,800	*1,800	*1,690	*1,690	*1,650	1,190	*1,390	1,120
	1.5m	-	-	*4,010	*4,010	*2,580	*2,580	*2,050	1,740	*1,800	1,130	*1,490	1,020
	0m	-	-	*5,750	4,920	*3,340	2,610	*2,410	1,630	1,950	1,070	*1,690	1,010
	-1.5m	*3,010	*3,010	*6,250	4,690	*3,770	2,460	*2,640	1,550	-	-	*2,050	1,110
	-3.0m	*5,770	*5,770	*5,990	4,700	*3,760	2,420	*2,580	1,530	-	-	*2,300	1,370
-4.5m	*9,500	*9,500	*5,020	4,870	*3,170	2,500	-	-	-	-	*2,710	2,130	

Note: 1. Ratings are based on SAE J1097, ISO 10567.

2. Indicated loads do not exceed 75% of tipping, machine situated on firm level, uniform supporting surface or 87% of full hydraulic capacity.

3. Ratings marked "*" are limited by hydraulic capacity rather than tipping load.

WORKING RANGES AND BUCKET COMBINATIONS



	Units	Std.	Opt. 1
Boom	m	4.6	4.6
Arm	m	2.4	3.0
A. Max. digging reach	mm	8,340	8,900
A'. Max. reach at ground level	mm	8,210	8,500
B. Max. digging depth	mm	5,510	6,110
C. Max. digging height	mm	8,730	8,760
D. Max. dumping clearance	mm	6,230	6,280
E. Vertical digging depth	mm	4,760	5,360
F. Digging depth at 8° - flat floor	mm	5,300	5,950
Bucket capacity (SAE heaped)	0.24m ³	●	●
	0.28m ³	●	●
	0.39m ³	●	●
	0.51m ³	●	●
	0.63m ³	●	■
	0.76m ³	■	▲

- Suitable for materials with density of 2000kg/m³ or less
- Suitable for materials with density of 1600kg/m³ or less
- ▲ Suitable for materials with density of 1100kg/m³ or less

BUCKET SPECIFICATIONS

Bucket capacity (SAE heaped)	Width with side cutters	Width without side cutters	Weight
0.24m ³	485mm	360mm	312kg
0.28m ³	600mm	475mm	345kg
0.39m ³	750mm	625mm	390kg
0.51m ³	900mm	775mm	435kg
0.63m ³	1,050mm	925mm	484kg
0.76m ³	1,200mm	1,075mm	527kg

UNDERCARRIAGE FEATURES

Tracks - Tractor type undercarriage, heavy duty track frame, all welded structure, high tensile strength steel used for toughness. Side frames are welded securely and rigidly to track frame. Lifetime lubricated track rollers, idlers and sprocket. Track shoes of rolled and heat-treated alloy steel with triple grousers. Specially heat-treated track pins, hydraulic track adjusters with shock-absorbing recoil springs.

	Units	500mm Shoe	600mm Shoe	700mm Shoe	750mm Shoe	No. of Rollers and Shoes
Operating Weight	kg	12,790	13,000	13,210	13,310	-
Ground Pressure	kg/cm ²	0.39	0.33	0.29	0.27	-
	psi	5.55	4.69	4.13	3.84	-
Upper Rollers	Each	-	-	-	-	1 x 2
Lower Rollers	Each	-	-	-	-	7 x 2
Track Shoes std.	Each	-	-	-	-	-
Track Shoes LC	Each	-	-	-	-	46 x 2



HEAVY INDUSTRIES

THE NETHERLANDS

HEAD OFFICE – EUROPE

LUIDSPREKERSTRAAT 1

1322AW ALMERE

THE NETHERLANDS

TEL: (+31) (0) 36 536 77 70

FAX: (+31) (0) 36 536 09 70

FRANCE

PARIS NORD II

305 RUE DE LA BELLE ETOILE

BP50279

95958 ROISSY CDG CEDEX

FRANCE

TEL: (+33) (0) 148 630691

FAX: (+33) (0) 148 630698

GERMANY

AM KRONBERGER HANG 6

65824 SCHWALBACH / TS.

GERMANY

TEL: (+49) (0) 6196 667640

FAX: (+49) (0) 6196 667633

UK OFFICE

TELFORD WAY

KETTERING

NN16 8UX

UNITED KINGDOM

