

E135SR ***EVOLUTION*** ***LC*** ***VERSION***



Net flywheel power **63 kW – 85 HP**

Maximum operating weight **14700 kg**

Bucket capacity **from 0.42 to 0.70 m³**



EVOLVING TECHNOLOGY

Courtesy of Machine.Market

Specifications



Tier-2 emissioned engine

Net flywheel power (ISO 14396)85 HP/63 kW
Rated rpm..... 2050
Make and model.....ISUZU - 4BG1TA
Typediesel 4-stroke, direct injection
Aspiration.....turbo
Number of cylinders 4
Displacement4329 cm³
Bore x Stroke105 x 125 mm

Electronic engine rpm control dial type

Auto-idling selector returns engine to minimum rpm when all controls are in neutral position.



Electrical system

Voltage.....24 V
Alternator..... 30 Amp
Starter motor..... 4.5 kW
Standard maintenance-free batteries.....2
Capacity136 Ah



Hydraulic system

S.H.S. (Smart Hydraulic System) and computerised hydraulic pump delivery for perfect controllability and simultaneity of all movements.

Operating mode selector: **H** – heavy duty
S – standard
FC – precision jobs

Main pumps:

Two variable delivery axial piston pumps
Pumps automatically revert to zero delivery with controls in neutral
Maximum delivery2 x 118 l/min
Piloting circuit gear type pump
Maximum delivery21 l/min

Maximum operating pressure:

Equipment330 bar
Superstructure swivel265 bar
Travel350 bar
Pilot circuit50 bar

Hydraulic cylinders	Number	Bore	Stroke
Lift	2	100 mm	1038 mm
Penetration	1	115 mm	1150 mm
Bucket	1	95 mm	885 mm



Transmission

Typehydrostatic, two-speed
Travel motors2, axial piston type, double displacement
Brakesautomatic discs type
Final drivesoil bath, planetary reduction
Gradeability (continuous).....70% (35%)
Travel speeds
Lowfrom 0 to 3.5 km/h
Highfrom 0 to 6.0 km/h

Traction force.....13000 daN

Automatic Down Shift device: to move travel motors to maximum displacement position with selector on speed when greater traction is required.



Swing

Swing motor.....axial piston type
Swing brake.....automatic discs type
Final drive.....oil bath, planetary reduction
Swing Ring.....oil bath type
Swing Speed11.7 rpm



Cab and controls

Transparent upper cab roof.
Automatic conditioning.
Controls.....piloted
Two cross path pattern levers actuate all equipment movements and superstructure swing
One lever for blade lower/lift.....(option)
Two pedals with detachable “hand” levers control all track movements, counter-rotation included.
A safety lever completely neutralizes the piloting circuit.



Undercarriage

HD track chain with sealed bushings
Track rollers (each side)6
Carrier rollers (each side)1
Shoes, for each side.....46
Length of track on ground1990 mm
Gauge3035 mm
Shoes500 - 600 - 700 mm - triple grouser



Blade (option)

Width x Height.....2490 x 570 mm
Lift from ground490 mm
Lower to ground.....540 mm
Weight (including cylinders and frame)600 Kg

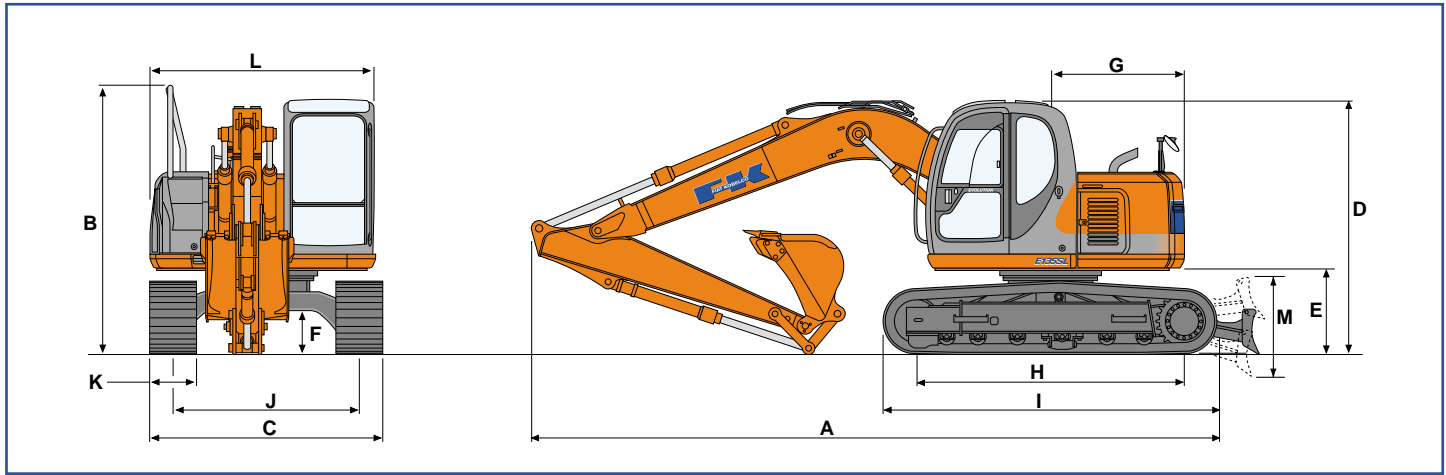


Capacities

Engine..... litres
Lube oil13.0
Coolant18.0
Fuel tank168.0
Hydraulic reservoir..... 140.0
Swing reduction1.7
Travel reduction (each).....2.5

One-piece boom

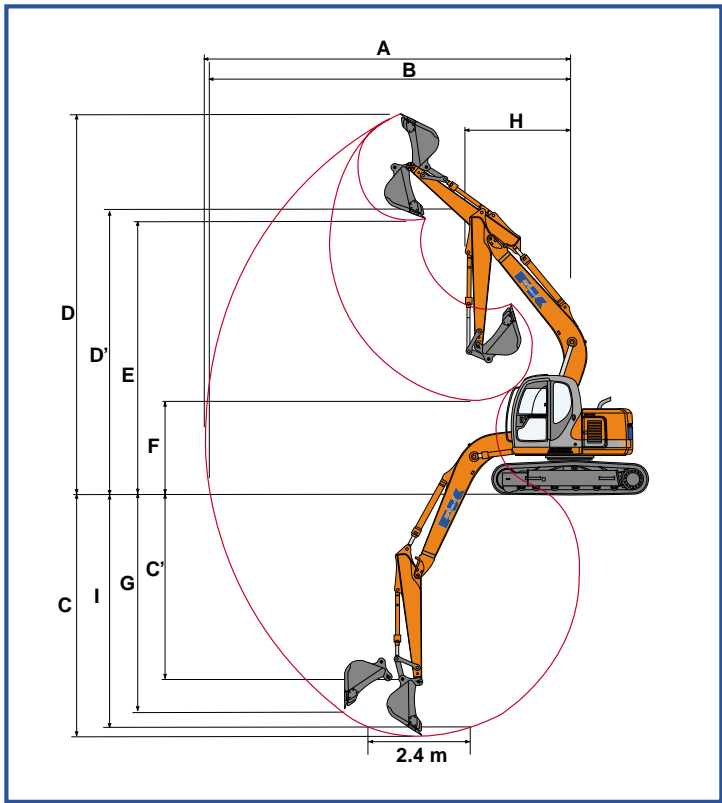
Dimensions (mm) - Operating weight



A	B	C	D	E	F	G	H	I	J	K	L	M
7470	2810	2490 (1)	2740	910	455	1425	3035	3470	3740	500	2410	1030

(1) 450mm shoes – (2) 600 mm shoes
(*) Dimensions with 1650 mm dipper stick

Shoes Types		3-grouser steel		
M - Shoe width	mm	500	600	700
I - maximum width	mm	2490	2590	2690
Operating weight (w/o blade)	Kg	13600	13900	14100
Ground pressure	bar	0.41	0.35	0.31











Digging performance

Dipper stick	mm	2450	2950
A	mm	8340	8770
B	mm	8210	8650
C	mm	5500	6010
C'	mm	4290	4790
D	mm	8830	8860
D'	mm	7430	7660
E	mm	6200	6440
F	mm	2120	1650
G	mm	4960	5250
H	mm	2380	2650
I	mm	5300	5630
Breakout force:			
- Bucket	daN	9000	9000
- Dipper stick	daN	6500	6000

Lifting capacity

(One - piece boom - 2450 mm dipper stick)

	1.5 m		3.0 m		4.5 m		6.0 m	
								
	Front	Side	Front	Side	Front	Side	Front	Side
Height	Reach							
+ 4.5 m					*3100	*3100	*2700	1900
+ 3.0 m			*5300	*5300	*3800	3100	3100	1900
+ 1.5 m			*7800	5200	*4700	2800	2900	1700
0			*7400	4900	4500	2600	2800	1700
- 1.5 m	*5100	*5100	*8300	4800	4400	2500	2800	1600
- 3.0 m	*8200	*8200	*7000	4900	4400	2500		

Data in kilos

Values to **ISO 10567** with 0.30m³ bucket and 600 mm steel shoes and below 75% tiltability and 87% hydraulic power.

Data with an asterisk (*) are limited by hydraulic capacity.

Buckets

SAE Capacity (m ³)	Width (mm)	Teeth
0.42	750	4
0.46	850	4
0.54	950	5
0.70	1000	5

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