

# **E135SR** *EVOLUTION*

**LC** *VERSION*



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*Net flywheel power*                      **63 kW – 85 HP**

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*Maximum operating weight*            **14700 kg**

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*Bucket capacity*                          **from 0.42 to 0.70 m<sup>3</sup>**

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**EVOLVING TECHNOLOGY**

# Specifications



## Tier-2 emissioned engine

Net flywheel power (ISO 14396) .....	85 HP/63 kW
Rated rpm.....	2050
Make and model .....	ISUZU - 4BG1TA
Type .....	diesel 4-stroke, direct injection
Aspiration.....	turbo
Number of cylinders .....	4
Displacement .....	4329 cm <sup>3</sup>
Bore x Stroke .....	105 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
Capacity .....	136 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 delivery .....	2 x 118 l/min
Piloting circuit gear type pump	
Maximum delivery.....	21 l/min

### Maximum operating pressure:

Equipment .....	330 bar
Superstructure swivel.....	265 bar
Travel .....	350 bar
Pilot circuit .....	50 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

Type .....	hydrostatic, two-speed
Travel motors .....	2, axial piston type, double displacement
Brakes .....	automatic discs type
Final drives .....	oil bath, planetary reduction
Gradeability (continuous).....	70% (35%)
Travel speeds	
Low .....	from 0 to 3.5 km/h
High.....	from 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 Speed .....	11.7 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 ground .....	1990 mm
Gauge .....	3035 mm
Shoes .....	500 - 600 - 700 mm - triple grouser



## Blade (option)

Width x Height.....	2490 x 570 mm
Lift from ground.....	490 mm
Lower to ground.....	540 mm
Weight (including cylinders and frame) .....	600 Kg

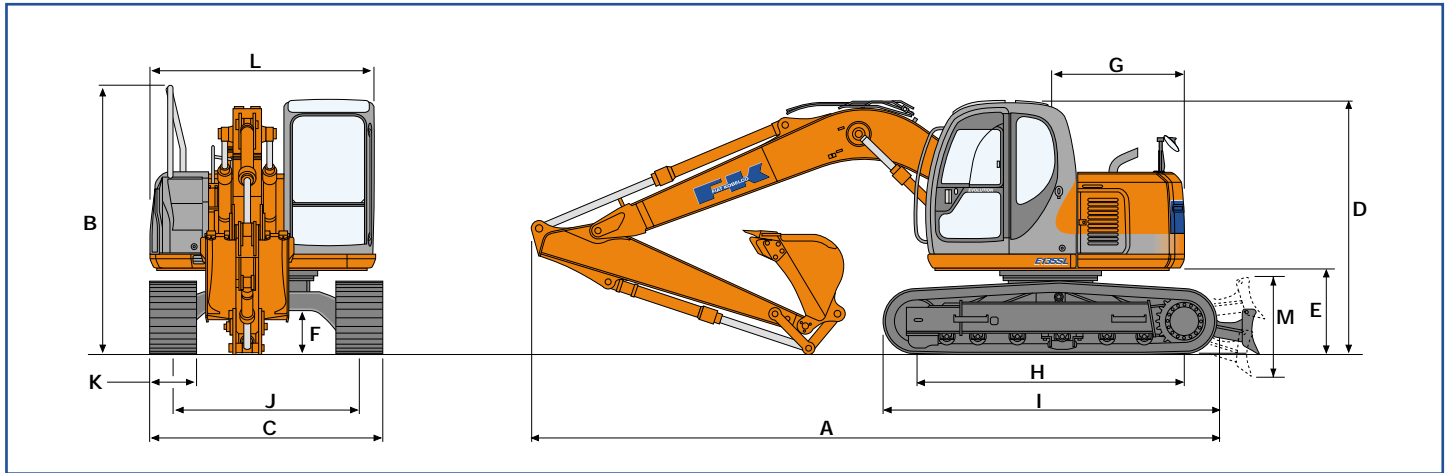


## Capacities

Engine.....	litres
Lube oil .....	13.0
Coolant .....	18.0
Fuel tank .....	168.0
Hydraulic reservoir.....	140.0
Swing reduction .....	1.7
Travel reduction (each).....	2.5

## One-piece boom

## Dimensions (mm) - Operating weight

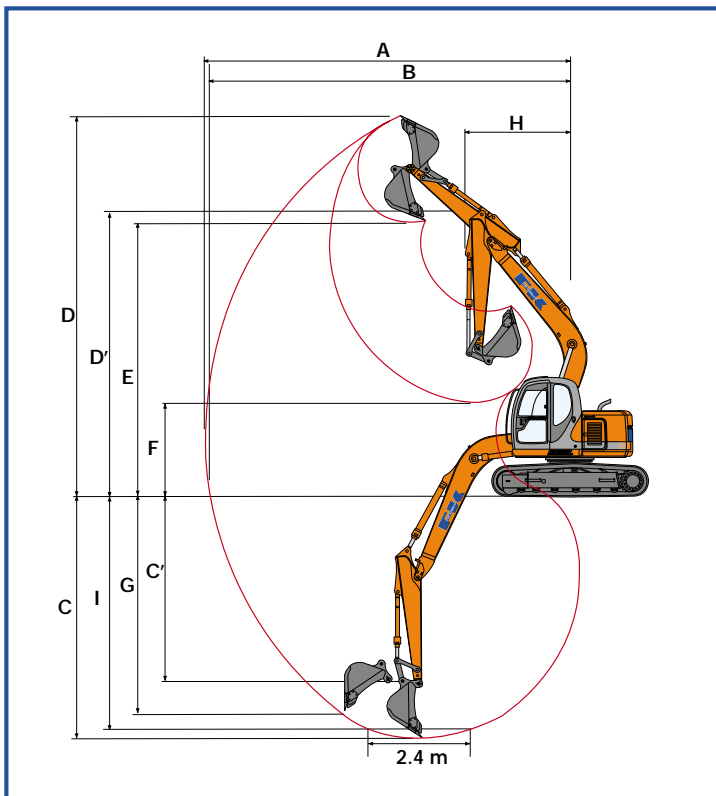


A	B	C	D	E	F	G	H	I	J	K	L	M
7470	2810	2490 (1)	2740	910	455	1425	3035	3470	3740	500	2410	1030

(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
<b>Breakout force:</b>			
- Bucket	daN	9000	9000
- Dipper stick	daN	6500	6000

# Lifting capacity

(One - piece boom - 2450 mm dipper stick)

Height	1.5 m		3.0 m		4.5 m		6.0 m	
	Front	Side	Front	Side	Front	Side	Front	Side
+ 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 0.30m<sup>3</sup> 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 <sup>3</sup> )	Width (mm)	Teeth
0.42	750	4
0.46	850	4
0.54	950	5
0.70	1000	5

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