Engine	E130				
Manufacturer and Model	John Deere PowerTech	F 4045			
Non-Road Emission Standard		China Stage III and EU Stage II dual certified			
Gross Rated Power (SAE J1995 and ISO 304					
Net Rated Power (ISO 9249)	79 kW at 1,800 rpm (	•			
Maximum Gross Torque (SAE J1995 and IS		•			
Maximum Net Torque (ISO 9249)	437 Nm at 1,400 rpm				
Cylinders	4				
Piston Displacement	4.5 L				
Туре	**	per cylinder, HPCR fuel system, waste	gated turbocharger, air-to-air charge-air cooled		
Cooling	E130 LC	,	ganaa na araana ga , aa aa aa aa ga aa aa aa a		
Cool-on-demand, electronically controlle	ed, variable-speed, suction-type	e cooling fan			
Hydraulics		<u> </u>			
Main Pumps	Tandem variable-displ	acement, electrohydraulic (EH)-co	ontrolled, axial-piston pumps		
Maximum Discharge Flow	2 x 126 L/m (2 x 70 cc/re		· · · ·		
Pilot Pump	Gear type	•			
Maximum Discharge Flow	1 x 18 L/m (1 x 10 cc/rev.	at 100% efficiency)			
System Operating Pressure		•			
Circuits					
Implement	32.4 MPa	Swing	27 MPa		
Travel	35.3 MPa	Pilot	3.9 MPa		
Pressure Boost	35.3 MPa				
Auxiliary Circuit	Preset to 21.0 MPa 1-w	vay mode / 32.4 MPa 2-way mode			
Travel System					
Fully hydrostatic, 2-speed axial-piston mo	otor with spring-applied hydra	ulic-release brake			
Maximum Travel Speed					
Low	3.1 km/h				
High	5.8 km/h				
Maximum Drawbar Pull	139 kN				
Cylinders					
	Bore Diameter	Rod Diameter	Stroke		
Boom (2)	105 mm	70 mm	979 mm		
Arm (1)	115 mm	80 mm	1195 mm		
Bucket (1)	100 mm	70 mm	875 mm		
Swing System					
Motor	Axial piston with sprin	g-applied hydraulic-release brake			
Speed	12.5 rpm	•			
Torque	35.8 kNm				
Undercarriage	E130				
Includes lubricated rollers, idlers, track ac	djusters (with shock-absorbing	spring), and greased and sealed t	rack chain with triple-grouser shoes		
Center Frame	X-leg type				
Track Frame	Pentagonal box type				
Shoes, Triple Grouser (each side)	43	Operating Weights	E130		
Rollers (each side)		Standard Configuration	0.53-m³ General-Purpose Bucket		
Carrier	1	Triple-Grouser Shoes			
Track	6	500-mm Standard	13 500 kg		
Track Guides	0 (1 per side optional)		_		
Triple Grouser Shoe Width	· · · · · · · · · · · · · · · · · · ·	Counterweight	2100 kg		
Standard	500 mm				
Optional	<u> </u>	Refill Capacities (standard	fill)		
Ground Pressure		Fuel Tank	240 L		
Triple-Grouser Shoes		Engine Coolant	18.2 L		
500-mm Standard	43.6 kPa	Engine Oil	14.7 L		
600-mm Optional	_	Swing Mechanism	1.8 L		
Electrical	E130 / E140 LC	Travel Final Device (eac			
Number of Batteries	2 – 12 volt (24 volt)	Hydraulic System	185 L		
Battery Capacity	950 CCA	Hydraulic Tank	125 L		
Reserve Capacity	165 min.	, 22			
Alternator Rating	80 amp				
Operating Dimensions			ام		
Arm Length	2.52 m with 4.6-m Boom		CENTERLINE OF SWING		
Tool Force			F-E-IN		
Bucket	101 kN		// <u> </u>		
Arm	70 kN		=		
7.0111	Tooth	Cutting Edge			
A Maximum Reach	8351 mm	8199 mm			
A Maximum Reach at Ground Level	8214 mm	8059 mm	D		
B Maximum Digging Depth	5764 mm	5613 mm			
B <sup>I</sup> Maximum Depth Cut for 2.44-m	5483 mm	5255 mm			
Level Bottom	05.0	0465	GROUND LINE		
C. Marriage upo Costilia a I I al I I I					
C Maximum Cutting Height D Maximum Loading Height	8568 mm 6030 mm	8465 mm 6181 mm	<b>1</b>		

6181 mm

2626 mm

4857 mm

2236 mm

D Maximum Loading Height

F Maximum Vertical Wall Digging Depth

E Minimum Slew Radius

G Tail-Swing Radius

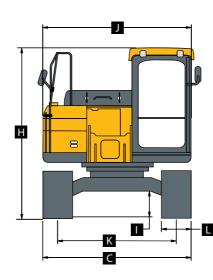
6030 mm

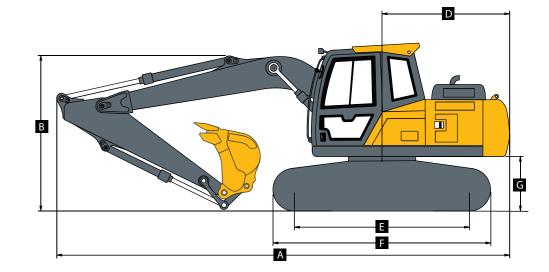
2626 mm

2236 mm

5107 mm

M	achine Dimensions	E130
Αı	rm Length	2.52 m with 4.6-m Boom
Α	Overall Length	7632 mm
В	Overall Height (over boom)	2740 mm
C	Overall Width (over tracks)	2500 mm
D	Tail Length	2151 mm
	Tail-Swing Radius	2236 mm
Ε	Tumbler Distance	2780 mm
F	Overall Length of Crawler	3501 mm
G	Counterweight Clearance	888 mm
Н	Overall Height (to top of cab)	2841 mm
- 1	Ground Clearance	434 mm
J	Overall Width of Upperstructure	2500 mm
K	Track Gauge	2000 mm
L	Shoe Width	500 mm





## E130 Lift Capacities

Boldface typeindicates stability-limited capacity; lightface type indicates hydraulically limited capacities, in kg. Ratings at bucket pivot/arm nose; machine equipped with 2.52-m arm with 4.6-m boom and 500-mm triple-grouser shoes; and situated on firm, uniform supporting surface. Total load includes weight of cables, hook, etc. Figures do not exceed 87 percent of hydraulic capacities or 75 percent of weight needed to tip machine. All lift capacities are based on ISO 10567.

		HORIZONTAL DISTANCE FROM			M CENTERL	A CENTERLINE OF ROTATION			Lift Capacity at		Maximum
	1.5	5 m	3.0 m		4.5	4.5 m 6.0		6.0 m Maxim		ım Reach	Reach (m)
	Over	Over	Over	Over	Over	Over	Over	Over	Over	Over	
LOAD POINT HEIGHT	Front	Side	Front	Side	Front	Side	Front	Side	Front	Side	
6.0 m					3480	3480			3060	2730	5.39
4.5 m					3660	3660	3180	2330	2800	2040	6.37
3.0 m			5980	5980	4390	3450	3040	2210	2430	1760	6.89
1.5 m			8340	5770	4520	3190	2930	2100	2290	1650	7.05
Ground Line			6850	5450	4330	3010	2840	2020	2340	1670	6.89
–1.5 m	4750	4750	8450	5430	4260	2950	2820	2000	2600	1860	6.37
-3.0 m	9270	9270	7330	5560	4330	3010			3350	2380	5.40

E130 Bucket Selection Guide*		
	General Purpose (GP)	Heavy Duty (HD)
Bucket Capacity	0.53 m <sup>3</sup>	0.5 m <sup>3</sup>
Bucket Mass	493 kg	506 kg
Bucket Width (Cutter Plate)	940 mm	900 mm
Earth Loam / Pulverized Gypsum (1200 kg/m³)	Yes	Yes
Packed Earth / Crushed Stone (1500 kg/m³)	Yes	Yes
Wet Earth / Broken Rock (1800 kg/m³)	Yes	Yes
Wet Gravel / Dense Earth (2000 kg/m³)	Yes	Yes

Yes – Indicates suitable for use with material of this material density; No – Indicates not suitable for use with this material density.

\*Contact your John Deere dealer for optimum bucket and attachment selections. These recommendations are for general conditions and average use. Larger buckets may be possible when using light materials, for flat and level operations, less compacted materials, and volume loading applications such as mass-excavation applications in ideal conditions. Smaller buckets are recommended for adverse conditions such as off-level applications, rocks, and uneven surfaces. Bucket capacity indicated is SAE heaped.