

#YourGrowthMachine



# E680Fi Hydraulic Excavator

Makes great business sense.



Gross Power: 58 hp

Operating Weight: 7700 kg

Member of the Volvo Group

# Technical Specifications

## Standard Equipment

Engine		
Make & Model	Yanmar 4TNV98 - ZCVLGC	
Type	In-line, water cooled, four stroke	
Power	hp @ r/min	58@2100
Max. Torque	Nm / r/min	247/1575
Number of cylinders	4	
Displacement	ml	3319
Bore x Stroke	mm	98 x 110
Electric System		
System voltage	V	12
Battery voltage	V	12
Battery capacity	Ah	100
Alternator voltage	V	13.5
Starter voltage	V	12
Under carriage		
No. of track shoes	2 x 39	
No. of top rollers	2 x 1	
No. of bottom rollers	2 x 5	
Parameter		
Total mass	kg	7700
Bucket capacity	m <sup>3</sup>	0.3
Average ground pressure	mm	34.5
Slewing speed	(r/min)	10±0.3
Travelling speed (low / high)	km/h	2.86 / 5.0
Maximum digging force	kN	50
Hydraulic system		
Hydraulic system type	-	Load sensing control system
Working pressure	kgf/cm <sup>2</sup>	245
Main valve model	-	HVSE18
Hydraulic control type	Pilot-actuated proportional control valve	
Maximum flow rate	l/min	160
Main pump model	HP3V80	
Motor (rotary / travel) model	MSG-44P - 21/TM10VD-A-26/49.1	

Hydraulic cylinder		
Stick cylinder - bore x stroke	mm	1 - 95 x 8650
Dozer blade cylinder - bore x stroke	mm	1 - 120 x 180
Boom cylinder - bore x stroke	mm	1 - 110 x 850
Bucket cylinder - bore x stroke	mm	1 - 85 x 710
Fuel charge		
Fuel filling capacity	l	135
Hydraulic oil filling capacity	l	115
Engine oil filling capacity	l	12
Oil filling capacity of walking reducer	l	2 x 1.1
Filling capacity of water radiator anti-freeze coolant	13.5	
Rotary system		
Slewing type	Hydraulic internal-tooth single-row ball bearing	
Type of slewing brake	Wet disc (hydraulic oil release°C spring compression)	
Model of slewing bearing	QNA800*25AZ1	
Walking system		
No. of supporting wheel (one side)	5	
Track shoe width (three-teeth)	mm	450
Number of carrier roller (one side)	1	
Type of travel brake	Wet disc (hydraulic oil release, spring compression)	
Swing system		
Swing motor	- Axial piston motor	
Swing brake	- Wet disc	
Swing speed	r/min	0-10
Drive and Brakes		
Drive motor	2 axial piston motors	
Max drawbar pull	kN	65
Max travel speed {low/high}	2.86/5.0	
Service/parking brakes	Wet disc, spring applied, hydraulic release	
Gradeability	35	

# Equipment and Features

## Standard Equipment

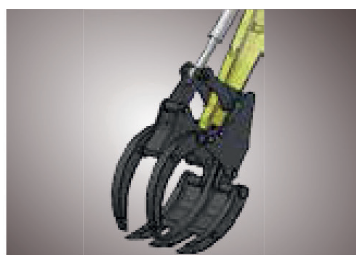
Engine	
Yanmar engine	S
Turbocharger	-
Two-stage air filters	S
Three-stage fuel filters	S
Oil-water separator	S
Pre-heater	S
Electrical/Electronic control system	
Engine safe start with restart prevention	S
Idling switch	S
Auto-idle function	S
9work modes	S
Central fuse box	S
Halogen (Frame-mounted work lights 2 & Boom-mounted 1 LH) Battery, 12V	S
Master electrical disconnect switch Start motor, 12V	S
Colour monitor	S
Lock lever	S
Hydraulic system	
Load-sensing hydraulic system	S
Boom/arm/swing priority	S
Boom/arm regeneration	S
Boom/arm holding	S
Two speed travel motors	S
Cylinder/motor cushioning	S
Dust sealing	S
Hydraulic oil (ISO VG46)	S
Multi-stage filtration	S
Frames	
Reinforced revelling frame	S
Dozer blade	S
Rear-view mirror	S
Undercarriage	
Durable "X" under-carriage	S
Greased and sealed track links	S
Reinforced carrier/top rollers	S
Steel track with triple grousers	S

Cab and interior	
Fabric operator seat with suspension	S
Seat belt	S
Joysticks	S
Radio with MP3/AUX	S
Master key	S
Hour meter	S
Sun visor	S
Dual arm rests	S
Air conditioner	S
Sliding wind screen	S
OPTIONAL EQUIPMENT	
Electrical/Electronic control system	
Fuel filler pump	0
Extra (Cab-mounted halogen 1/ work lights Boom-mounted 1 RH)	0
Rotating warning beacon	0
Rear-view camera	0
Hydraulic system	
High-temperature/Low-temperature hydraulic oil module	0
Undercarriage	
600mm steel track	0
Rubber Pads	0
Without dozer blade	0
Attachment	
Ditching buckets	0
X1 pipes	0
X3 pipes	0
Side or top mounted breakers	0
Log grapples t	0
Front (falling object upper/front guard) lower/top	0

### Optional Attachments



Top/side mounted breakers



Log grapple



Ditching buckets

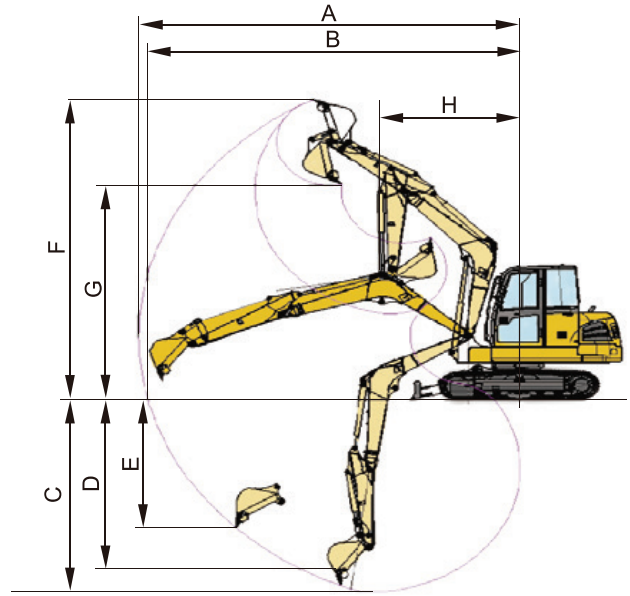


LM buckets

# Dimensions

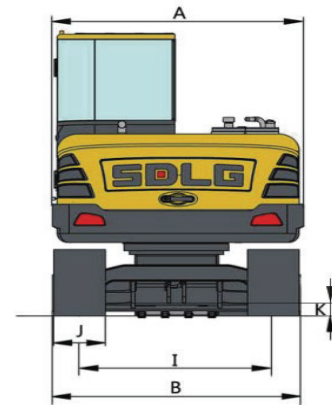
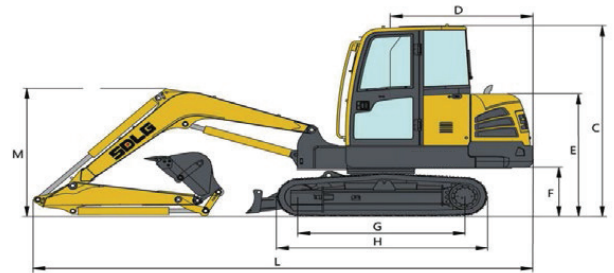
## Excavating range

A. Maximum digging radius	mm	6340
B. Maximum digging radius of -reference ground	mm	6190
C. Maximum digging depth	mm	4160
D. Maximum digging depth under length of bottom surface of 2.5 m	mm	3800
E. Maximum vertical digging depth	mm	3760
F. Maximum digging height	mm	7200
G. Maximum discharge height	mm	5065
H. Minimum front turning radius	mm	1760
Shovel width (with band edge)	mm	910



## Dimensions

A. Overall width of upper assembly	mm	2330
B. Overall width	mm	2240
Overall width of chassis	mm	2240
C. Overall height to cab top	mm	2580
D. Rear swing radius	mm	1895
E. Overall height to hood top	mm	1765
F. Ground clearance of upper assembly	mm	777
G. Wheel base	mm	2200
H. Overall length of crawler	mm	2825
I. Wheel track of crawler	mm	1780
J. Track shoe width	mm	450
K. Minimum ground clearance	mm	375
L. Overall length	mm	6235
Arm length	mm	1650
Contour dimension of complete machine	mm	6235 x 2240 x 2585
Boom length	mm	3710



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