

POWERFUL ENGINE

- Yanmar engine with EGR
- Single rotor distribution pump for higher ignition pressure and better combustion
- ECU controlled



Multiple filters for prolonged engine life

- 3-stage fuel filters
- 2-stage air filters
- Fuel Water Separator



- 9 work modes
- Auto-idle function



EFFICIENT HYDRAULIC SYSTEM



ROBUST STRUCTURE

- Integrated frame offering balanced load distribution
- Reinforced structures
- Large ground clearance



- Robotic-welded high-strength steel plates
- Stringent NDT procedures
- Reinforced joints



Wear-resistant GP bucket lasting 20% longer



SAFE AND COMFORTABLE CABIN

- Excellent fields of vision
- Large rear-view mirror
- Large wiper area
- Lock lever
- Good anti-slip
- Hydraulic cylinder protective covers
- Silicone oil shock absorbers
- 6-way adjustable mechanical suspension seat
- Strong A/C with multiple air outlets in a well-sealed cabin
- Tinted glass
- Multiple storage compartments









EASY MAINTENANCE

- Grouped filters, Electricals and Iubrication points
- Easy access at standing height









OPTIONAL ATTACHMENTS

- Top/side mounted breakers LM buckets
- Ditching buckets
- Log grapples









^{*}The abovemention illstrations may not refer to specific models.

POWERFUL YET ENERGY-SAVING



The highly efficient four-cylinder Yanmar engine, coupled with an energy-saving hydraulic system, delivers both power and fuel economy. work modes and an auto-idle function ensure power on-demand, minimising fuel consumption and noise.

SMOOTH-OPERATIONS



The load-sensing hydraulic system is engineered to deliver class leading performance and efficiency. The variable piston pump offers precise control in a wide variety of work conditions.

RELIABLE AND DURABLE



All core components in the engine and hydraulic systems are sourced from world-renowned manufacturers to meet our highest reliability standards. A robust structure provides excellent stability and machine durability.

MULTI-PURPOSE



Access more applications with breaker piping, rubber pads and other optional accessories. This versatile machine is ideal for a wide variety of urban and rural tasks.



SAFE AND COMFORTABLE



The cabin features excellent fields of vision, and is built on industry-leading vibration and noise reduction technologies. A powerful air-conditioning system provides comfort in cabin, reducing operator fatigue and improving productivity.

EASY TO MAINTAIN



Designed to minimise maintenance efforts, the main components, filter and electrical systems are grouped for easy, ground level access.



ENGINE

	Unit	E680Fi
Model	-	4TNV98-ZCVLGC
Туре	-	In-line, water-cooled, four-stroke
Power	kW@rpm	42.8@2100
Max. torque	Nm@rpm	(226.5~246.7)/1575
Displacement	ml	3319
No. of cylinders	-	4
Cylinder bore x stroke	mm	98×110

MYDRAULIC SYSTEM

	Unit	E680Fi
Hydraulic system type	-	Load-sensing control system
Working pressure	kgf/cm2	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

O ELECTRICAL SYSTEM

	Unit	E680Fi	
System voltage	V	12	
Battery voltage	V	12	
Battery capacity	Ah	100	
Alternator voltege	V	13.5	
Starter voltage	V	12	

MYDRAULIC CYLINDER

	Unit	E680Fi
Stick cylinder - bore × stroke	mm	1 - 95 × 865
Dozer blade cylinder - bore × stroke	mm	1 - 120 × 180
Boom cylinder - bore × stroke	mm	1 - 110 × 850
Bucket cylinder - bore × stroke	mm	1 - 85 × 710

W UNDER CARRIAGE

	Unit	E680Fi
No. of track shoes	-	2×39
No. of top rollers	-	2×1
No. of bottom rollers	-	2×5

N FUEL CHARGE

	Unit	E680Fi
Fuel filling capacity	L	135
Hydraulic oil filling capacity	L	115
Engine oil filling capacity	L	12
Oil filling capacity of walking reducer	L	2×1.1
Water radiator antifreeze coolant	L	13.5

PARAMETER

	Unit	E680Fi
Total mass	kg	7700
Bucket capacity	m3	0.3
Average ground pressure	mm	34.5
Slewing speed (r/min)	-	10±0.3
Traveling speed (low/high) (km/h)	-	2.86/5.0
Maximum digging force	kN	50

ROTARY SYSTEM

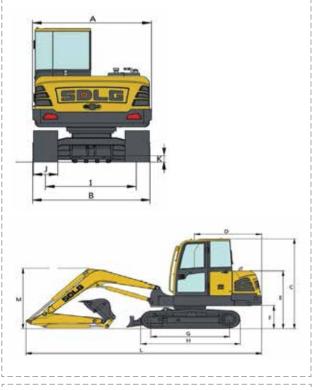
	E680Fi
Slewing type	Hydraulic internal-tooth single-row ball bearing
Type of slewing brake	Wet disc (hydraulic oil release, spring compression)
Model of slewing bearing	QNA800*25AZ1

WALKING SYSTEM

	E680Fi
Number 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)

DIMENSIONS

	Unit	E680Fi
Overall length	mm	6235
Overall width	mm	2240
Overall height	mm	2585
Boom length	mm	3710
Wheel track	-	1780
Arm length	mm	1650
wheelbase	mm	2200
Contour dimension of complete machine	mm	6235×2240×2585
Overall width of upper assembly	mm	2330
Overall width of chassis	mm	2240
Overall height to cab top	mm	2580
Rear slewing radius	mm	1895
Overall height to hood top	mm	1765
Ground clearance of upper assembly	mm	777
Overall length of crawler	mm	2825
Wheel track of crawler	mm	1780
Track shoe width	mm	450
Minimum ground clearance	mm	375
Minimum front turning radius	mm	1760



EXCAVATING RANGE

	Unit	E680Fi
Maximum digging radius	mm	6340
Maximum digging depth	mm	4160
Maximum discharge height	mm	5065
Shovel width (with band edge)	mm	910
Maximum digging depth under length of bottom surface of 2.5m	mm	3800
Maximum digging height	mm	7200
Maximum digging radius of reference ground	mm	6190
Maximum vertical digging depth	mm	3760

SWING SYSTEM

	Unit	E680Fi
Swing motor	-	Axial piston motor
Swing brake	-	Wet disc
Swing speed	r/min	0-10

TOTAL DRIVE AND BRAKES

	Unit	E680Fi
Drive motor	-	2 axial piston motors
Max drawbar pull	kN	65
Max travel speed (low/high)	km/h	2.86/5.0
Service/parking brakes	-	Wet disc, spring applied, hydraulic release
Gradeability	٥	35

Hydraulic Excavator

Equipment and Features

STANDARD EQUIPMENT	
	E680Fi
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
9 work modes	S
Central fuse box	S
Halogen work lights (Frame-mounted 2 & Boom-mounted 1 LH)	S
Battery, 12V	S
Master electrical disconnect switch	S
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
Muilti-stage filtration	S
Frame	
Reinforced revoling frame	S
Dozer blade	S
Rear-view mirror	S
Tool storage area	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 E680Fi Electrical/Electronic control system Fuel filler pump 0 Extra halogen work lights (Cab-mounted 1/ Boom-mounted 1RH) 0 Rotating warning beacon 0 Rear-view camera Hydraulic system High-temperature/Low-temperature hydraulic oil module 0 600mm steel track 0 Rubber Pads 0

Without dozer blade

Attachment	
Ditching buckets	0
X1 pipes	0
X3 pipes	0
Side or top mounted breakers	0
Log grapples	0
Front upper/front lower/top FOG (falling object guard)	0



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