

Equipment and Features

STANDARD EQUIPMENT

	E655F	E660FL	E680F	E690F
Engine				
Yanmar engine	S	S	S	S
Turbocharger	-	-	-	S
Two-stage air filters	S	S	S	S
Three-stage fuel filters	S	S	S	S
Oil-water separator	S	S	S	S
Pre-heater	S	S	S	S
Electrical/Electronic control system				
Engine safe start with restart prevention	S	S	S	S
Idling switch	S	S	S	S
Auto-idle function	S	S	S	S
9 work modes	S	S	S	S
Central fuse box	S	S	S	S
Halogen work lights (Frame-mounted 2 & Boom-mounted 1 LH)	S	S	S	S
Battery, 12V	S	S	S	S
Master electrical disconnect switch	S	S	S	S
Start motor, 12V	S	S	S	S
Colour monitor	S	S	S	S
Lock lever	S	S	S	S
Hydraulic system				
Load-sensing hydraulic system	S	S	S	S
Boom/arm/swing priority	S	S	S	S
Boom/arm regeneration	S	S	S	S
Boom/arm holding	S	S	S	S
Two speed travel motors	S	S	S	S
Cylinder/motor cushioning	S	S	S	S
Dust sealing	S	S	S	S
Hydraulic oil (ISO VG46)	S	S	S	S
Multi-stage filtration	S	S	S	S
Frame				
Reinforced revolving frame	S	S	S	S
Dozer blade	S	S	S	S
Rear-view mirror	S	S	S	S
Tool storage area	S	S	S	S

Undercarriage

Durable "X" under-carriage	S	S	S	S
Greased and sealed track links	S	S	S	S
Reinforced carrier/top rollers	S	S	S	S
Steel track with triple grousers	S	S	S	S

Cab and interior

Fabric operator seat with suspension	S	S	S	S
Seat belt	S	S	S	S
Joysticks	S	S	S	S
Radio with MP3/AUX	S	S	S	S
Master key	S	S	S	S
Hour meter	S	S	S	S
Sun visor	S	S	S	S
Dual arm rests	S	S	S	S
Air conditioner	S	S	S	S
Sliding wind screen	S	S	S	S

OPTIONAL EQUIPMENT

	E655F	E660FL	E680F	E690F
Electrical/Electronic control system				
Fuel filler pump	o	o	o	o
Extra halogen work lights (Cab-mounted 1/ Boom-mounted 1RH)	o	o	o	o
Rotating warning beacon	o	o	o	o
Rear-view camera	o	o	o	o
Hydraulic system				
High-temperature/Low-temperature hydraulic oil module	o	o	o	o
Undercarriage				
600mm steel track	o	o	o	o
Rubber Pads	o	o	o	o
Without dozer blade	o	o	o	o
Attachment				
Ditching buckets	o	o	o	o
X1 pipes	o	o	o	o
X3 pipes	o	o	o	o
Side or top mounted breakers	o	o	o	o
Log grapples	o	o	o	o
Front upper/front lower/top FOG (falling object guard)	o	o	o	o



E655F/E660FL/E680F/E690F
Hydraulic Excavator



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SDLG is member of the Volvo Group and one of the largest manufacturers of construction machinery in China, with a wide network of dealerships and service workshops throughout the world.



Reliability in Action

POWERFUL YET ENERGY-SAVING



The highly efficient four-cylinder Yanmar engine, coupled with an energy-saving hydraulic system, delivers both power and fuel economy. Nine gear 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 first-class performance and efficiency. The variable piston pump offers precise control in a wide variety of work conditions

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

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

Standard Accessories



Oil level, hydraulic oil temperature, water temperature, rotational speed display, rotational speed control, automatic idle speed, alarm indicator light, hour gauge, modern LED/LCD display monitor showing safety like engine temperature



*The illustration may include optional equipment.

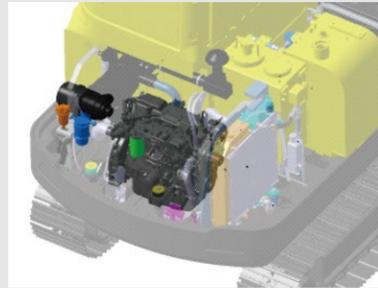
POWERFUL ENGINE

- 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
- Oil-water separator

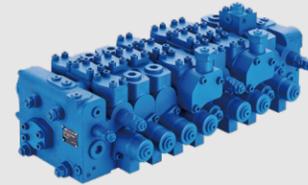
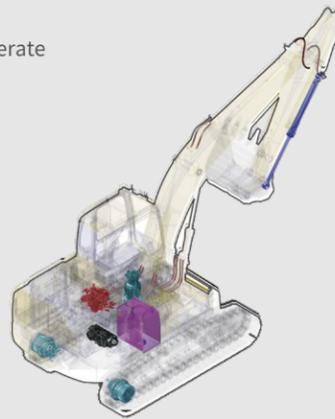
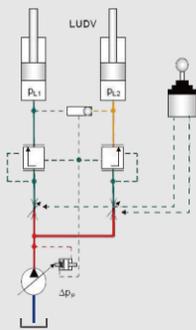


- 9 work modes
- Auto-idle function



EFFICIENT HYDRAULIC SYSTEM

- Load-sensing system
- Responsive and smooth to operate



ROBUST STRUCTURE

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



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

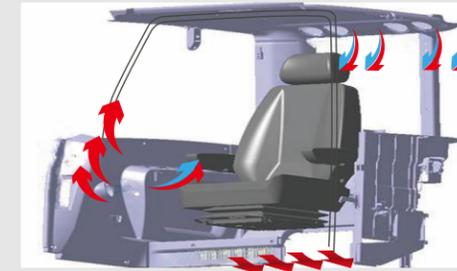


- Wear-resistant GP bucket lasting 20% longer



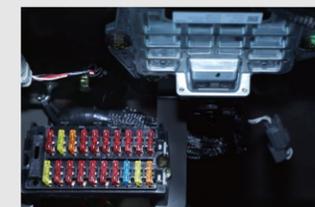
SAFE AND COMFORTABLE CABIN

- 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
- Fully protected cabin
- LED/LCD monitor panel
- Joystick type control lever
- Cab-light etc



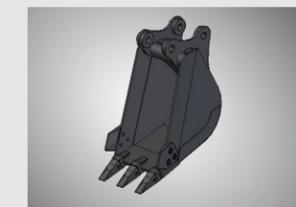
EASY MAINTENANCE

- Grouped filters, electrics and lubrication points
- Easy access at standing height



OPTIONAL ATTACHMENTS

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



ENGINE

	Unit	E655F	E660FL	E680F	E690F
Model	-	4TNV98-EXSLGC	4TNV98-EXSLGC	4TNV98-ZCVLGC	4TNV98T-ZCVLGC
Type	-	In-line water-cooled four-stroke	In-line water-cooled four-stroke	In-line water-cooled four-stroke	In-line water-cooled four-stroke, turbocharged
Rated power	kW@rpm	38.3@2200	38.3@2200	44.4@2200	54.1@2200
Max. torque	Nm@rpm	(191.8-208.6)@1650	208.6@1650	246.7@1575	297.7@1650
Displacement	ml	3319	3319	3319	3319
No. of cylinders	-	4	4	4	4
Cylinder bore x stroke	Φ×mm	98×110	98×110	98×110	98×110
Emission	-	Tier III (GB 20891-2014)			

HYDRAULIC SYSTEM

	Unit	E655F	E660FL	E680F	E690F
Hydraulic system type	-	Load-sensing	Load-sensing	Load-sensing	Load-sensing
Main pump	-	1 variable displacement axial piston pump			
Max flow rate	L/min	138	138	160	160
Relief valve setting					
Implement circuit	bar	215	215	245	265
Travel circuit	bar	215	215	280	280
Swing circuit	bar	225	225	235	235
Pilot circuit	bar	45	45	45	45

SERVICE REFILL CAPACITY

	Unit	E660FL
Fuel tank	L	135
Engine coolant	L	10
Engine oil	L	12
Swing drive	L	1.2
Travel drive	L	2×1.3
Hydraulic tank	L	50
Hydraulic system	L	157

ATTACHMENTS

Bucket	Model	Capacity/m³	Width/mm	Weight/kg	Number of teeth/side cutters
	E655F/E660FL	0.1-0.23	400-795	122-168	(3-5)/2
E680F	0.25-0.32	730-810	216-258	5/2	
E690F	0.16-0.34	450-810	210-270	(3-5)/2	

Log grapple	Model	Diameter/mm	Width/mm	Opening size/mm	Remarks
	E655F/E660FL	140	748	1411	Combined teeth 2 upper + 3 lower (upper movable)
		207	704	1780	Ganged teeth 2 upper + 3 lower (both movable)

Breaker (Side mounted)	Model	Diameter/mm	Weight/kg	Pressure/bar	Frequency/bpm
	E655F/E660FL	68	263	110-140	500-900
E680F	75	335	120-150	500-900	
E690F	80	335	120-150	400-800	

DRIVE AND BRAKES

	Unit	E655F	E660FL	E680F	E690F
Drive motor	-	2 axial piston motors	2 axial piston motors	2 axial piston motors	2 axial piston motors
Max drawbar pull	kN	50	50	65	65
Max travel speed (low/high)	km/h	2.4/4.8	2.4/4.8	2.86/5.0	2.6/5
Drive method	-	Hydrostatic	Hydrostatic	Hydrostatic	Hydrostatic
Service/parking brakes	-	Wet and disc type	Wet disc, spring applied, hydraulic release	Wet disc, spring applied, hydraulic release	Wet disc, spring applied, hydraulic release
Gradeability	°	30	30	35	35

Each track driven by 2-speed axial Piston motor through planetary reduction gear; Sprockets shall be of replaceable type.

SWING SYSTEM

	Unit	E655F	E660FL	E680F	E690F
Swing motor	-	Axial piston motor	Axial piston motor	Axial piston motor	Axial piston motor
Swing brake	-	Wet and disc type	Wet disc	Wet disc	Wet disc
Swing speed	r/min	0~11.5	0~11.5	0~10	0~12
Swing method	-	Hydraulic motor driven	Hydraulic motor driven	Hydraulic motor driven	Hydraulic motor driven

UNDER CARRIAGE

	Unit	E655F	E660FL	E680F	E690F
No. of track shoes	-	2×39	2×40	2×40	2×40
No. of top rollers	-	2×1	2×1	2×1	2×1
No. of bottom rollers	-	2×5	2×5	2×5	2×5
No. of track guards	-	2×1	2×0	2×0	2×0

A robust center frame and reinforced track frame provide excellent stability and durability. A sealed track system equipped with a hydraulic adjuster, along with compatible track rollers and carrier rollers designed for steel tracks fitted with rubber-lined shoes, provides durability.

ELECTRICAL SYSTEM

	Unit	E660FL
System voltage	V	12
Battery voltage	V	12
Battery capacity	Ah	100
Alternator voltage	V	13.5
Starter voltage	V	12

DIMENSIONS

	Unit	E655F	E660FL	E680F	E690F
Boom length	mm	3030	3030	3710	3710
Arm length	mm	1540	1540	1650	1650
A Overall width of upper assembly	mm	1870	1870	2255	2255
B Overall width	mm	1960	1960	2240	2265
C Overall height	mm	2610	2868	2600	2600
D Tail swing radius	mm	1670	1670	1895	1895
E Overall height of engine hood	mm	1685	1700	1790	1790
F Counterweight clearance	mm	664	740	800	800
G Wheel base	mm	1950	1990	2220	2220
H Track length	mm	2490	2540	2870	2870
I Track gauge	mm	1520	1540	1780	1780
J Track shoe width	mm	380	400	450	450
K Min. ground clearance	mm	375	365	400	400
L Overall length	mm	5970	5945	6340	6340
M Overall height of boom	mm	1890	1820	2500	2500
Bucket capacity	m³	0.2	0.22	0.32	0.34
Operating weight	kg	6050	6050	7800	8550

EXCAVATING RANGE

	Unit	E655F	E660FL	E680F	E690F
A Max. digging reach	mm	6130	5990	6340	6340
B Max. digging reach on ground	mm	5990	5850	6192	6192
C Max. digging depth	mm	3846	3846	4150	4150
D Max. digging depth (horizontal 2.44m)	mm	3375	3400	3800	3800
E Max. vertical wall digging depth	mm	2500	2600	3750	3750
F Max. digging height	mm	5870	5743	7200	7200
G Max. dumping height	mm	4143	4163	5057	5057
H Min. front swing radius	mm	2250	2321	1760	1760
Max. digging force--bucket (ISO)	kN	40	45	56	60
Max. digging force--arm (ISO)	kN	30	30	38	42

DOZER BLADE

	Unit	E660FL
A Blade Width	mm	1940.00
B Blade Height	mm	349.26
C Lifting Height	mm	408.58
D Blade Length	mm	408.58

