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	H) 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
Muilti-stage filtration	S	S	S	S
Frame				
Reinforced revoling 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				
	0	0	0	0
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				
E	655F	E660FL	E680F	E690F
Electrical/Electronic control sy	stem			
Electrical/Electronic control sy Fuel filler pump	ostem	0	0	0
		0	0	0
Fuel filler pump Extra halogen work lights	0			-
Fuel filler pump Extra halogen work lights (Cab-mounted 1/ Boom-mounted 1RH)	0 0	0	0	0
Fuel filler pump Extra halogen work lights (Cab-mounted 1/ Boom-mounted 1RH) Rotating warning beacon	0 0 0	0 0	0	0
Fuel filler pump Extra halogen work lights (Cab-mounted 1/ Boom-mounted 1RH) Rotating warning beacon Rear-view camera	0 0 0	0 0	0	0
Fuel filler pump Extra halogen work lights (Cab-mounted 1/ Boom-mounted 1RH) Rotating warning beacon Rear-view camera Hydraulic system High-temperature/Low-temperature	0 0 0	0 0 0	0 0 0	0 0 0
Fuel filler pump Extra halogen work lights (Cab-mounted 1/ Boom-mounted 1RH) Rotating warning beacon Rear-view camera Hydraulic system High-temperature/Low-temperature hydraulic oil module	0 0 0	0 0 0	0 0 0	0 0 0
Fuel filler pump Extra halogen work lights (Cab-mounted 1/ Boom-mounted 1RH) Rotating warning beacon Rear-view camera Hydraulic system High-temperature/Low-temperature hydraulic oil module Undercarriage	0 0 0 0	0 0 0 0	0 0 0	0 0 0 0
Fuel filler pump Extra halogen work lights (Cab-mounted 1/ Boom-mounted 1RH) Rotating warning beacon Rear-view camera Hydraulic system High-temperature/Low-temperature hydraulic oil module Undercarriage 600mm steel track	0 0 0 0 0	0 0 0	0 0 0	0 0 0 0
Fuel filler pump Extra halogen work lights (Cab-mounted 1/ Boom-mounted 1RH) Rotating warning beacon Rear-view camera Hydraulic system High-temperature/Low-temperature hydraulic oil module Undercarriage 600mm steel track Rubber Pads	0 0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	
Fuel filler pump Extra halogen work lights (Cab-mounted 1/ Boom-mounted 1RH) Rotating warning beacon Rear-view camera Hydraulic system High-temperature/Low-temperature hydraulic oil module Undercarriage 600mm steel track Rubber Pads Without dozer blade	0 0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	
Fuel filler pump Extra halogen work lights (Cab-mounted 1/ Boom-mounted 1RH) Rotating warning beacon Rear-view camera Hydraulic system High-temperature/Low-temperature hydraulic oil module Undercarriage 600mm steel track Rubber Pads Without dozer blade Attachment	0 0 0 0 0 0 0		0 0 0 0 0 0 0	0 0 0 0 0 0 0 0
Fuel filler pump Extra halogen work lights (Cab-mounted 1/ Boom-mounted 1RH) Rotating warning beacon Rear-view camera Hydraulic system High-temperature/Low-temperature hydraulic oil module Undercarriage 600mm steel track Rubber Pads Without dozer blade Attachment Ditching buckets	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	
Fuel filler pumpExtra halogen work lights (Cab-mounted 1/ Boom-mounted 1RH)Rotating warning beaconRear-view cameraHydraulic systemHigh-temperature/Low-temperature hydraulic oil moduleUndercarriage600mm steel trackRubber PadsWithout dozer bladeAttachmentDitching bucketsX1 pipes	0 0 0 0 0 0 0 0 0		0 0 0 0 0 0 0 0 0	
Fuel filler pump Extra halogen work lights (Cab-mounted 1/ Boom-mounted 1RH) Rotating warning beacon Rear-view camera Hydraulic system High-temperature/Low-temperature hydraulic oil module Undercarriage 600mm steel track Rubber Pads Without dozer blade Attachment Ditching buckets X1 pipes X3 pipes	0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0	
Fuel filler pumpExtra halogen work lights (Cab-mounted 1/ Boom-mounted 1RH)Rotating warning beaconRear-view cameraHydraulic systemHigh-temperature/Low-temperature hydraulic oil moduleUndercarriage600mm steel trackRubber PadsWithout dozer bladeAttachmentDitching bucketsX1 pipesX3 pipesSide or top mounted breakers	0 0 0 0 0 0 0 0 0 0 0 0 0		0 0 0 0 0 0 0 0 0 0 0 0 0	

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E655F/E660FL/E680F/E690F Hydraulic Excavator

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SDL **Reliability in Action**

E655F/E660FL/E680F/E690F

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

RELIABLE AND DURABLE

Siz

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

EASY TO MAINTAIN



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



*The illustration may include optional equipment.

E655F/E660FL/E680F/E690F

Hydraulic Excavator

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

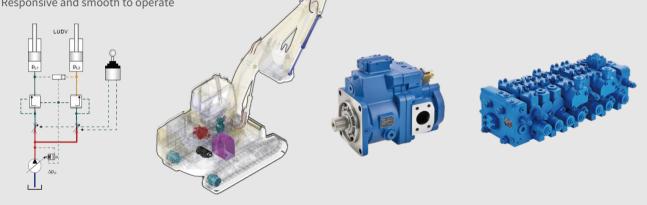


• 9 work modes

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



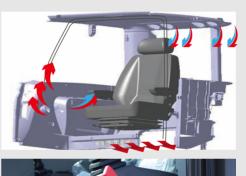


• Wear-resistant GP bucket lasting

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





EASY MAINTENANCE

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

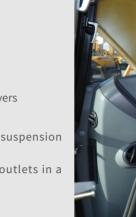








*The abovemention illstrations may not refer to specific models.





OPTIONAL ATTACHMENTS

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



E655F/E660FL/E680F/E690F

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	Unit	E655F	E660FL	E680F	E690F
Model	-	4TNV98- EXSLGC	4TNV98- EXSLGC	4TNV98- ZCVLGC	4TNV98T- ZCSLGC
Туре	-	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 cyliners	-	4	4	4	4
Cylinder bore x stroke	Φ×mm	98×110	98×110	98×110	98×110
Emission	-	Tier III (GB 20891-2014)	Tier III (GB 20891-2014)	Tier III (GB 20891-2014)	Tier III (GB 20891-2014)

The second brakes

Unit	E655F	E660FL	E680F	E690F
-	2 axial piston motors	2 axial piston motors	2 axial piston motors	2 axial piston motors
kN	50	50	65	65
km/h	2.4/4.8	2.4/4.8	2.86/5.0	2.6/5
-	Wet and disc type	Wet disc, spring applied, hydraulic release	Wet disc, spring applied, hydraulic release	Wet disc, spring applied, hydraulic release
0	30	30	35	35
	- kN km/h -	- 2 axial piston motors kN 50 km/h 2.4/4.8 - Wet and disc type	- 2 axial piston motors kN 50 km/h 2.4/4.8 - Wet and disc type	2 axial piston motors 2 axial piston motors 2 axial piston motors kN 50 50 65 km/h 2.4/4.8 2.4/4.8 2.86/5.0 - Wet and disc type Wet disc, spring applied, hydraulic release Wet disc, spring applied, hydraulic release

E655F

Axial piston motor

Wet and disc type

0~11.5

E655F

2×39

2×1

2×5

2×1

-

-

r/min

Unit

-

-

-

E660FL E680F

E660FL E680F

Axial piston

motor

Wet disc

0~10

2×40

2×1

2×5

2x0

Axial piston motor

Wet disc

0~11.5

2×40

2×1

2×5

2x0

E690F

Axial piston motor

Wet disc

0~12

E690F

2×40

2×1

2×5

2x0

🔁 SWING SYSTEM

WINDER CARRIAGE

Swing motor

Swing brake

Swing speed

No. of track shoes

No. of top rollers

No. of bottom rollers

No. of track guards

MYDRAULIC 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

OD ELECTRICAL SYSTEM

	Unit	E655F	E660FL	E680F	E690F
System voltage	V	12	12	12	12
Battery voltage	V	12	12	12	12
Battery capacity	Ah	100	100	100	100
Alternator voltege	V	13.5	13.5	13.5	13.5
Starter voltage	V	12	12	12	12

SERVICE REFILL CAPACITY

	Unit	E655F	E660FL	E680F	E690F
Fuel tank	L	135	135	135	135
Engine coolant	L	10	10	13.5	13.5
Engine oil	L	12	12	12	12
Swing drive	L	1.2	1.2	0	0
Travel drive	L	2×1.3	2×1.3	2×1.1	2×1.1
Hydraulic tank	L	50	108	140	140
Hydraulic system	L	100	157	150	150

DIMENSIONS

	Unit	E655F	E660FL	E680F	E		
Boom length	mm	3030	3030	3710	3		
Arm length	mm	1540	1540	1650	1		
A Overall width of upper assembly	mm	1870	1870	2255	2		
B Overall width	mm	1960	1940	2240	2		
C Overall height	mm	2610	2620	2600	2		
D Tail swing radius	mm	1670	1670	1895	1		
E Overall height of engine hood	mm	1685	1700	1790	1		
F Counterweight clearance	mm	664	740	800			
G Wheel base	mm	1950	1990	2220	2		
H Track length	mm	2490	2540	2870	2		
I Track gauge	mm	1520	1540	1780	1		
J Track shoe width	mm	380	400	450			
K Min. ground clearance	mm	375	367	400			
L Overall length	mm	5970	5930	6340	6		
M Overall height of boom	mm	1890	1820	2500	2		
Bucket capacity	m³	0.2	0.22	0.32	(
Operating weight	kg	6050	6050	7800	8		

EXCAVATING RANGE

	Unit	E655F	E660FL	E680F	E		
A Max. digging reach	mm	6130	5990	6340	6		
B Max.digging reach on ground	mm	5990	5850	6192	6		
C Max. digging depth	mm	3846	3846	4150	4		
D Max. digging depth (horizontal 2.44m)	mm	3375	3400	3800	3		
E Max. vertical wall digging depth	mm	2500	2600	3750	3		
F Max. digging height	mm	5870	5743	7200	7		
G Max. dumping height	mm	4143	4163	5057	5		
H Min. front swing radius	mm	2250	2321	1760	1		
Max. digging forcebucket (ISO)	kN	40	45	56			
Max. digging forcearm (ISO)	kN	30	30	38			

E ATTACHMENTS

	Model	Capacity/m ³	Width/mm	Weight/kg	Number of teeth/side cutters
	E655F/E660FL	0.1-0.23	400-795	122-168	(3-5)/2
Bucket	E680F	0.25-0.32	730-810	216-258	5/2
	E690F	0.16-0.34	450-810	210-270	(3-5)/2
	Model	Diameter/mm	Width/mm	Opening size/mm	Remarks
Log grapple		140	748	1411	Combined teeth 2 upper + 3 lower (upper movable)
2	grapple E655F/E660FL	207	704	1780	Ganged teeth 2 upper + 3 lower (both movable)
	Model	Diameter/mm	Weight/kg	Pressure/bar	Frequency/bpm
Breaker	E655F/E660FL	68	263	110-140	500-900
(Side mounted)	E680F	75	335	120-150	500-900
	E690F	80	335	120-150	400-800

* The right of final interpretation of the abovementioned parameters shall be reserved by SDLG. No further notice will be given in case of any change. Illustrations in the text may not always be the standard illustrations for this model.

