2019 Volvo All-New XC90 Specifications

	XC90 T5 AWD (250 hp) auf	XC90 T6 AWD (316 hp) auf	XC90 T8 AWD (541 Spec) (390 hp) auf	XC90 T8 AWD (541 Spec) (390 hp) auf	XC90 D5 AWD (235 hp) auf
Engine					
Engines	INGENIUM	INGENIUM	INGENIUM	INGENIUM	INGENIUM
Type	In-line, 4 cyl turbocharged and supercharged	In-line, 4 cyl turbocharged and supercharged	In-line, 4 cyl turbocharged and supercharged	In-line, 4 cyl turbocharged and supercharged	In-line 4 cyl. turbo diesel
Configuration	AWD	AWD	AWD	AWD	AWD
Displacement	1969 cm³	1969 cm³	1969 cm³	1969 cm³	1969 cm³
Bore	82.0 mm	82.0 mm	82.0 mm	82.0 mm	82.0 mm
Stroke	93.2 mm	93.2 mm	93.2 mm	93.2 mm	93.2 mm
Compression ratio	10.5:1	10.3:1	10.3:1	10.3:1	15.8:1
Valves	4 per cylinder	4 per cylinder	4 per cylinder	4 per cylinder	4 per cylinder
DOHC / SOHC	DOHC	DOHC	DOHC	DOHC	DOHC
Engine management system	Gasoline direct injection	Gasoline direct injection	Gasoline direct injection	Gasoline direct injection	Ultra common rail injection
Cylinders	1 - 2 - 4 - 3	1 - 2 - 4 - 3	1 - 2 - 4 - 3	1 - 2 - 4 - 3	1 - 3 - 4 - 2
Engine idling speed	675 rpm ± 50	675 rpm ± 50	675 rpm ± 50	675 rpm ± 50	625 rpm ± 100
Fuel, min. Octane	95; 98 RON	95; 98 RON	95; 98 RON	95; 98 RON	Diesel [1]
Max engine speed	6500 rpm	6500 rpm	6500 rpm	6500 rpm	5000 rpm
Max output	184 kW (250 hp) / 5700 rpm	232 kW (316 hp) / 5700 rpm	223 kW (303 hp) / 5700 rpm	223 kW (303 hp) / 5700 rpm	173 kW (235 hp) / 4250 rpm
Max torque	350 / 30 - 80 Nm / rpm	400 / 27 - 85 Nm / rpm	400 / 27 - 85 Nm / rpm	400 / 27 - 85 Nm / rpm	480 / 25 - 87 Nm / rpm
Battery type			Lithium-ion battery	Lithium-ion battery	
Battery control, total amount of energy (kWh)			10.4	10.4	
Battery charging capacity, 10 - 80 % (SOC 10% - 80% [Volvo]) [2]			3.0 / 4.0 / 7.2	3.0 / 4.0 / 7.2	
Electrical motor max power (kW)			65 kW	65 kW	
Electrical motor max torque (Nm)			Centrally in the turret of the car	Centrally in the turret of the car	
Electrical motor power (kW)			240 Nm	240 Nm	
Combustion engine power (kW)			65 kW + 223 kW [3]	65 kW + 223 kW [3]	
Combustion engine torque (Nm)			240 Nm + 400 Nm [3]	240 Nm + 400 Nm [3]	

[1] Volvo recommends premium fuel (Swedish Class 1)

[2] ***, ****, *****

[3] ***, ****, *****

Transmissions					
Transmissions (AWD)	AW TG-81SC	AW TG-81SC	AW TG-81SC	AW TG-81SC	AW TG-81SC
First Gear (AWD)	5.250	5.250	5.250	5.250	5.250
Second Gear (AWD)	3.029	3.029	3.029	3.029	3.029
Third Gear (AWD)	1.850	1.850	1.850	1.850	1.850
Fourth Gear (AWD)	1.407	1.407	1.407	1.407	1.407
Fifth Gear (AWD)	1.221	1.221	1.221	1.221	1.221
Sixth Gear (AWD)	1.000	1.000	1.000	1.000	1.000
Seventh Gear (AWD)	0.809	0.809	0.809	0.809	0.809
Eighth Gear (AWD)	0.673	0.673	0.673	0.673	0.673
Reverse Gear (AWD)	4.015	4.015	4.015	4.015	4.015
Automatic transmission drive (AWD)	3.329	3.329	3.329	3.329	3.329
Performance					
Performance	Automatic	Automatic	Automatic	Automatic	Automatic
Gearbox	AW TG-81SC	AW TG-81SC	AW TG-81SC	AW TG-81SC	AW TG-81SC
Acceleration, 0 - 100 km/h (sec)	6.9 sec	5.6 sec	5.6 sec	5.6 sec	7.9 sec
Acceleration, 0 - 160 km/h (sec)	215 km/h	230 km/h	230 km/h	230 km/h	205 km/h
Tyre class & Combined WLTP (100 km/)	7.3 l/100 km / 184 g/km	8.1 l/100 km / 187 g/km	2.6 l/100 km / 59 g/km	2.6 l/100 km / 59 g/km	6.0 l/100 km / 158 g/km
Hatch (including sensus, outer edge)	2140 mm	2140 mm	2140 mm	2140 mm	2140 mm
Height (including roof rails)	1776 mm	1776 mm	1776 mm	1776 mm	1776 mm
Height with open panoramic roof	2146 mm	2146 mm	2146 mm	2146 mm	2146 mm
Wheelbase	2984 mm	2984 mm	2984 mm	2984 mm	2984 mm
Track, front (Tyre size 245/45 R18)	1660 mm / 1673 mm	1660 mm / 1673 mm	1660 mm / 1673 mm	1660 mm / 1673 mm	1660 mm / 1673 mm
Track, front with optional rims (Tyre size 245/40 R19)	1664 mm / 1676 mm	1664 mm / 1676 mm	1664 mm / 1676 mm	1664 mm / 1676 mm	1664 mm / 1676 mm
Track, rear (with 245/ 235)	1687 mm / 1675 mm	1687 mm / 1675 mm	1687 mm / 1675 mm	1687 mm / 1675 mm	1687 mm / 1675 mm
Track, rear, with air suspension (Tyre size 245/ 235)	1671 mm / 1679 mm	1671 mm / 1679 mm	1671 mm / 1679 mm	1671 mm / 1679 mm	1671 mm / 1679 mm
Ground clearance (Unladed chassis)	238 mm	238 mm	238 mm	238 mm	238 mm
Ground clearance (with air suspension)	207 mm - 267 mm	207 mm - 267 mm	207 mm - 267 mm	207 mm - 267 mm	207 mm - 267 mm
Approach angle (all-wheel drive)	23.8 deg	23.8 deg	23.8 deg	23.8 deg	23.8 deg
Breakover angle (all-wheel drive)	21.3 deg	21.3 deg	21.3 deg	21.3 deg	21.3 deg
Departure angle (all-wheel drive)	23.3 deg	23.3 deg	23.3 deg	23.3 deg	23.3 deg
Waiting capacity (Tow bar, weight of vehicle)	450 mm	450 mm	450 mm	450 mm	450 mm
Weights/Miscellaneous					
Weight	1975 kg - 2034 kg	1975 kg - 2034 kg	1975 kg - 2034 kg	1975 kg - 2034 kg	1975 kg - 2034 kg
Total weight (Gross vehicle weight)	2630 kg - 2100 kg	2630 kg - 2100 kg	2630 kg - 2100 kg	2630 kg - 2100 kg	2630 kg - 2100 kg
Max trailer weight, braked (9%)	750 kg	750 kg	750 kg	750 kg	750 kg
Max trailer weight, braked (12%)	2400 kg	2700 kg	2400 kg	2400 kg	2700 kg
Fuel tank, Petrol	71 l [4]	71 l [4]	70 l	70 l	
Fuel tank, Diesel					71 l [4]
SCR tank [5]					11.7 l
Aerodynamics, Cd	0.33	0.33	0.33	0.33	0.33
Aerodynamics, Cd (with roof rails)	2.78 m²	2.78 m²	2.78 m²	2.78 m²	2.78 m²
Max roof load	100 kg	100 kg	100 kg	100 kg	100 kg

[4] Volvo recommends 70 liters

[5] Bilstein tank: 5, 7, 9, 11, 13, 15, 17, 19, 21, 23, 25, 27, 29, 31, 33, 35, 37, 39, 41, 43, 45, 47, 49, 51, 53, 55, 57, 59, 61, 63, 65, 67, 69, 71, 73, 75, 77, 79, 81, 83, 85, 87, 89, 91, 93, 95, 97, 99, 101, 103, 105, 107, 109, 111, 113, 115, 117, 119, 121, 123, 125, 127, 129, 131, 133, 135, 137, 139, 141, 143, 145, 147, 149, 151, 153, 155, 157, 159, 161, 163, 165, 167, 169, 171, 173, 175, 177, 179, 181, 183, 185, 187, 189, 191, 193, 195, 197, 199

Interior Measurements					
Headroom with sunroof (front/second row) (Tow bar)	987 mm / 979 mm / 923 mm	987 mm / 979 mm / 923 mm	987 mm / 979 mm / 923 mm	987 mm / 979 mm / 923 mm	987 mm / 979 mm / 923 mm
Headroom without sunroof (front/second row) (Tow bar)	996 mm / 987 mm / 923 mm	996 mm / 987 mm / 923 mm	996 mm / 987 mm / 923 mm	996 mm / 987 mm / 923 mm	996 mm / 987 mm / 923 mm
Headroom with panoramic sunroof (front/second row) (Tow bar)	987 mm / 979 mm / 923 mm	987 mm / 979 mm / 923 mm			987 mm / 979 mm
Headroom without panoramic sunroof (front/second row)	996 mm / 989 mm	996 mm / 989 mm			996 mm / 989 mm
Headroom maximum, without sunroof (front)	1033 mm	1033 mm	1033 mm	1033 mm	1033 mm
Headroom with panoramic sunroof (front)	1001 mm	1001 mm	1001 mm	987 mm / 979 mm	1001 mm
Passenger compartment length (front/second row) (Tow bar)	1485 mm / 1426 mm / 1192 mm	1485 mm / 1426 mm / 1192 mm	1485 mm / 1426 mm / 1192 mm		1485 mm / 1426 mm / 1192 mm
Passenger compartment with ski shoulder height (front/second row) (Tow bar)	1485 mm / 1426 mm	1485 mm / 1426 mm		1485 mm / 1426 mm	
Leg room (front/second row) (Tow bar)	1038 mm / 940 mm / 1027 mm	1038 mm / 940 mm / 1027 mm	1038 mm / 940 mm / 1027 mm		1038 mm / 940 mm / 1027 mm
Leg room (front/second row) (Tow bar)	1038 mm / 940 mm	1038 mm / 940 mm			1038 mm / 940 mm
Leg room (front/second row)				1038 mm / 989 mm	
Hip room (front/second row) (Tow bar)	1422 mm / 1426 mm / 1427 mm	1422 mm / 1426 mm / 1427 mm	1422 mm / 1426 mm / 1427 mm		1422 mm / 1426 mm / 1427 mm
Hip room (front/second row)	1422 mm / 1426 mm	1422 mm / 1426 mm			1422 mm / 1426 mm
Hip room (front/second row)				1422 mm / 1426 mm	
Luggage volume, Variant with Tyre repair kit (Volume according to ISO 1011-1/2 and)	1057 l / 63 l	1057 l / 63 l	1005 l / 31 l		1057 l / 63 l
Luggage volume, Variant with Tyre repair kit (Volume according to ISO 1011-1/2 and)	892 l / 63 l	892 l / 63 l	840 l / 31 l		892 l / 63 l
Luggage volume, Variant with Tyre repair kit (Volume according to ISO 1011-1/2 and)	721 l / 63 l	721 l / 63 l			721 l / 63 l
Luggage volume, Variant with Tyre repair kit (Volume according to ISO 1011-1/2 and)				431 l / 31 l	
Luggage volume, Variant with Tyre repair kit (Volume according to ISO 1011-1/2 and)	214 l / 63 l	214 l / 63 l	262 l / 31 l		214 l / 63 l
Luggage volume, Variant with Tyre repair kit (Volume according to ISO 1011-1/2 and)	1868 l / 63 l	1868 l / 63 l	1816 l / 31 l		1868 l / 63 l
Luggage volume, Variant with Tyre repair kit (Volume according to ISO 1011-1/2 and)	1868 l / 127 l	1868 l / 127 l			1868 l / 127 l
Luggage volume, Variant with Tyre repair kit (Volume according to ISO 1011-1/2 and)	1071 l / 127 l	1071 l / 127 l			1071 l / 127 l
Luggage volume, Variant with Tyre repair kit (Volume according to ISO 1011-1/2 and)				726 l / 63 l	
Luggage volume, Variant with Tyre repair kit (Volume according to ISO 1011-1/2 and)	368 l / 63 l	368 l / 63 l	316 l / 31 l		368 l / 63 l
Luggage volume, Variant with Tyre repair kit (Volume according to ISO 1011-1/2 and)	192 mm	192 mm	192 mm	192 mm	192 mm
Rear opening - height (to roof)	916 mm	916 mm	916 mm	916 mm	916 mm
Height of luggage compartment	889 mm	889 mm	889 mm	889 mm	889 mm
Width of luggage compartment - between wheelhouses	1130 mm	1130 mm	1130 mm	1130 mm	1130 mm
Rear opening - maximum width	986 mm	986 mm	986 mm	986 mm	986 mm
Rear opening - with a floor mat	1192 mm	1192 mm	1192 mm	1192 mm	1192 mm
Rear opening - with the first seat back folded down (Tow bar)	1963 mm / 2040 mm	1963 mm / 2040 mm	1963 mm / 2040 mm		1963 mm / 2040 mm
Cargo length from the tailgate to the first seat back (measured at the top of the first row seat, at the height of the first row seat)	1040 mm / 1240 mm	1040 mm / 1240 mm	1040 mm / 1240 mm		1040 mm / 1240 mm
Cargo length from the tailgate to the second seat back (measured at the top of the second row seat, at the height of the second row seat)	1030 mm / 1230 mm	1030 mm / 1230 mm			1030 mm / 1230 mm
Cargo length from the first seat back to the second seat back (measured at the top of the second row seat, at the height of the second row seat)	335 mm / 784 mm	335 mm / 784 mm	335 mm / 784 mm		335 mm / 784 mm
Cargo length from the first seat back to the third seat back (measured at the top of the third row seat, at the height of the third row seat)	335 mm / 784 mm				335 mm / 784 mm
Cargo length at the floor level of the rear seat back (minimum or maximum)				898 mm	
Cargo length at the floor level of the rear seat back (minimum or maximum)				761 mm	
Cargo length at the floor level of the rear seat back (minimum or maximum)	761 mm				
Chassis					
Suspension front	Double Wishbone Transverse Composite Leaf Springs, Hydraulic Twin-Tube Damper, Stabilizer Bar, Subframe	Double Wishbone Transverse Composite Leaf Springs, Hydraulic Twin-Tube Damper, Stabilizer Bar, Subframe	Double Wishbone Transverse Composite Leaf Springs, Hydraulic Twin-Tube Damper, Stabilizer Bar, Subframe	Double Wishbone Transverse Composite Leaf Springs, Hydraulic Twin-Tube Damper, Stabilizer Bar, Subframe	Double Wishbone Transverse Composite Leaf Springs, Hydraulic Twin-Tube Damper, Stabilizer Bar, Subframe
Suspension rear	Integral Axle with Transverse Composite Leaf Springs, Hydraulic Shock Absorbers, Stabilizer Bar, Subframe	Integral Axle with Transverse Composite Leaf Springs, Hydraulic Shock Absorbers, Stabilizer Bar, Subframe	Integral Axle with Transverse Composite Leaf Springs, Hydraulic Shock Absorbers, Stabilizer Bar, Subframe	Integral Axle with Transverse Composite Leaf Springs, Hydraulic Shock Absorbers, Stabilizer Bar, Subframe	Integral Axle with Transverse Composite Leaf Springs, Hydraulic Shock Absorbers, Stabilizer Bar, Subframe
Steering	Electric Power Assisted Rack and Pinion Steering	Electric Power Assisted Rack and Pinion Steering	Electric Power Assisted Rack and Pinion Steering	Electric Power Assisted Rack and Pinion Steering	Electric Power Assisted Rack and Pinion Steering
Steering ratio (aggregate)	14.8	14.8	14.8	14.8	14.8
Turning circle (Curb to curb)	11.8 m / 12.1 m	11.8 m / 12.1 m	11.8 m / 12.1 m	11.8 m / 12.1 m	11.8 m / 12.1 m
Turning circle (Wall to wall)	12.2 m / 12.5 m	12.2 m / 12.5 m	12.2 m / 12.5 m	12.2 m / 12.5 m	12.2 m / 12.5 m
Steering system	3.0 / 2.9	3.0 / 2.9	3.0 / 2.9	3.0 / 2.9	3.0 / 2.9
Braking system	Antilock Braking System (ABS) with Electronic Brake Force Distribution (EBD) and Electronic Stability Control (ESC)	Antilock Braking System (ABS) with Electronic Brake Force Distribution (EBD) and Electronic Stability Control (ESC)	Antilock Braking System (ABS) with Electronic Brake Force Distribution (EBD) and Electronic Stability Control (ESC)	Antilock Braking System (ABS) with Electronic Brake Force Distribution (EBD) and Electronic Stability Control (ESC)	Antilock Braking System (ABS) with Electronic Brake Force Distribution (EBD) and Electronic Stability Control (ESC)
Brake disc diameter (front)	345 mm	345 mm	396 mm	396 mm	345 mm
Brake disc diameter (rear)	325 mm	325 mm	340 mm	340 mm	325 mm
Brake disc thickness (front)	30 mm	30 mm	30 mm	30 mm	30 mm
Brake disc thickness (rear) (Ventilated DTR)	20 mm	20 mm	20 mm	20 mm	20 mm
Parking brake	36 m	36 m	36 m	36 m	36 m