

# Volvo XC90

CONT'D VOLVO XC90 →

## ENGINES

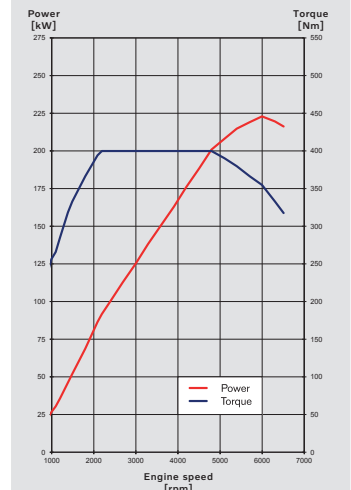
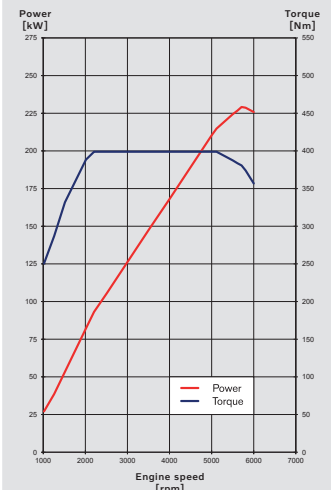
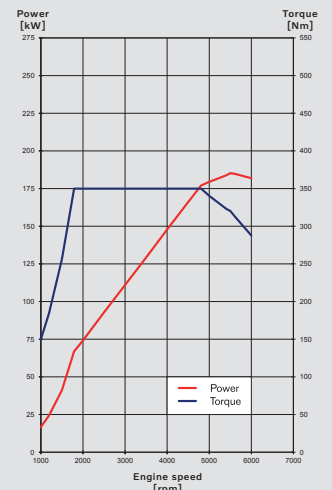
Type
Configuration
Displacement, cm <sup>3</sup>
Bore (mm)
Stroke (mm)
Engine cylinder block material
Cylinder head material
Compression ratio
Valves, no/cylinder
Camshafts
Engine management system
Ignition sequence
Engine idling speed, rpm
Fuel, rec. octane
Max output, kW (hp)/rpm
Max torque, Nm/rpm

T5 AWD (B4204T26)
In-line 4-cyl. turbocharged
Transverse, all wheel drive
1969
82.0
93.2
Aluminium
Aluminium
10.8:1
4
2
Gasoline direct injection
1 - 3 - 4 - 2
875±50
95-98 RON
184 (250)/5500
350/1800-4800

T6 AWD (B4204T29)
In-line 4-cyl. supercharged and turbocharged
Transverse, all wheel drive
1969
82.0
93.2
Aluminium
Aluminium
10.3:1
4
2
Gasoline direct injection
1 - 3 - 4 - 2
875±50
95-98 RON
228 (310)/5700
400/2200-5100

T8 Twin Engine (B4204T34)
In-line 4-cyl. supercharged and turbocharged
Transverse, front wheel drive, rear electric motor
1969
82.0
93.2
Aluminium
Aluminium
10.3:1
4
2
Gasoline direct injection
1 - 3 - 4 - 2
875±50
95-98 RON
223 (303)/6000
400/2200-4800

## POWER AND TORQUE →



Manual gearbox/final drive
Automatic gearbox/final drive

AW TG-81SC	3.329
------------	-------

AW TG-81SC	3.329
------------	-------

AW TG-81SD	3.329
------------	-------

## PERFORMANCE

Gearbox
Acceleration, 0-100 km/h (sec)
Top speed, km/h

Automatic
7.9
215

Automatic
6.5
230

Automatic
5.8
230

## FUEL CONSUMPTION (EU)

l/100 km / CO <sub>2</sub> g/km
NEDC Tyre class A Combined *1
NEDC Tyre class B Combined *1
NEDC Tyre class C Combined *1
WLTP Low l/100 km / CO <sub>2</sub> g/km
WLTP Medium l/100 km / CO <sub>2</sub> g/km
WLTP High l/100 km / CO <sub>2</sub> g/km
WLTP Extra High l/100 km / CO <sub>2</sub> g/km
WLTP Combined l/100 km / CO <sub>2</sub> g/km

7.9/184
7.9/184
8.1/189
12.9-13.6/291-309
9.3-10.4/210-235
7.8-8.9/177-202
9.3-10.8/211-245
9.3-10.5/211-238

8.1/187
8.1/187
8.3/192
13.3-13.7/301-310
9.7-10.6/221-239
8.2-9.2/185-209
9.8-11.2/222-255
9.8-10.8/221-245

2.2/50
2.2/50
2.4/55
-
-
-
-
2.9-3.4/67-77

\*1 NEDC figures correlated from WLTP based testing

## Battery type

Battery content, total amount of energy (kWh)
Battery charging time*, at 16A/10A/6A fuse (hours)
Range (Km) (NEDC for hybrids)
Electric Range (WLTP) (Km) (EAER, Combined)
Electrical motor max power (kW/rps)
Electrical motor max torque (Nm/rps)
Driveline max power (hp)
Driveline max power (kW)
Driveline max torque (Nm)
Battery placement

Lithium-ion battery
11.6
3.0/4.0/8.0
47-45**
45-41**
65/117
240/0-50
~390 (303 + 87)
~288 (223*** + 65)
~640 (400*** + 240)
Centrally in the tunnel of the car

\* Time pending on e.g. ambient temp  
 \*\* Only electric driving according to governmental regulations for PHEV  
 \*\*\* In "Hybrid", "Power"- and "EL-AWD"-mode

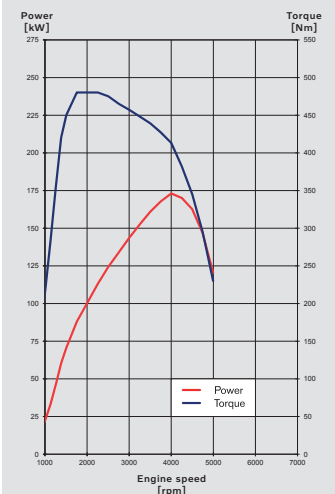
All figures are preliminary. Volvo Cars reserves the right to make changes in the specifications without any notice.

**ENGINES**

Type
Configuration
Displacement, cm <sup>3</sup>
Bore (mm)
Stroke (mm)
Engine cylinder block material
Cylinder head material
Compression ratio
Valves, no/cylinder
Camshafts
Engine management system
Ignition sequence
Engine idling speed, rpm
Fuel
Max output, kW (hp)/rpm
Max torque, Nm/rpm

B5 AWD (D420T2)
In-line 4-cyl. twin turbo diesel
Transverse, all wheel drive
1969
82.0
93.2
Aluminium
Aluminium
15.8:1
4
2
i-Art common rail direct injection
1 - 3 - 4 - 2
825±150
Diesel*
173 (235)/4000
480/1750–2250

**POWER AND TORQUE →**



Manual gearbox/final drive
Automatic gearbox/final drive

—	
AWF8G55	3,329

**PERFORMANCE**

Gearbox
Acceleration, 0–100 km/h (sec)
Top speed, km/h

Automatic
7,6
220

**FUEL CONSUMPTION (EU)**

l/100 km / CO <sub>2</sub> g/km
NEDC Tyre class A Combined *1
NEDC Tyre class B Combined *1
NEDC Tyre class C Combined *1
WLTP Low l/100 km / CO <sub>2</sub> g/km
WLTP Medium l/100 km / CO <sub>2</sub> g/km
WLTP High l/100 km / CO <sub>2</sub> g/km
WLTP Extra High l/100 km / CO <sub>2</sub> g/km
WLTP Combined l/100 km / CO <sub>2</sub> g/km

	5-seat	6-seat	7-seat
	5.9/154	n/a	n/a
	6.0/158	6.0/159	6.2/162
	6.2/162	6.2/162	6.3/166
			n/a
			n/a
			n/a
			n/a
			6.6–7.7 / 173–203

\*1 NEDC figures correlated from WLTP based testing

\* According to EN590  
Maximum biodiesel (FAME) content 7%

Electrical motor max power (kW/rps)
Electrical motor max torque (Nm/rps)
Driveline max power (hp)
Driveline max power (kW)
Driveline max torque (Nm)

10/50
40/0–38
235 + 14
173 + 10
480 + 40

**MEASUREMENTS AND VOLUMES**

**EXTERIOR MEASUREMENTS (CM)**

Length	495.3
Width (body width)	192.3
Width (with small wheelarch)	193.1
Width (with large wheelarch)	195.8
Width (incl mirrors folded)	200.8
Width (incl mirrors outer edge)	214.0
Height	177.6
Wheelbase	298.4
Overhang (front/rear)	89.0/107.9
Track, front, (tire (width): 235/275)	166.5/167.3
Track, front, with air suspension (tire (width): 235/275)	166.8/167.6
Track, rear, (tire (width): 235/275)	166.7/167.5
Track, rear, with air suspension (tire (width): 235/275)	167.1/167.9
Ground clearance (standard chassis/with air suspension)	22.3/21.2–25.2

**WEIGHTS/MISCELLANEOUS**

Weight, kg (min–max, depending on setup)	2012-2329
Fuel tank, l (all/B4204T34/L5&L7*)	71/70/60
SCR tank, l (Diesel)	11.7
Max. trailer weight, kg	2400–2700*
Max roof load, kg	100
Approach angle (degr.) (all / 4 seat)	21.4/22.5
Breakover angle (degr.) (all / 4 seat)	21.3/20.3
Departure angle (degr.) (all / 5 seat / 4 seat)	23.3/23.4/22.5
Drag coefficient, Cd	0.33

\* Depending on setup

**INTERIOR MEASUREMENTS (CM)**

Headroom without panoramic sunroof (front/rear) (5 seat)	99.8/99.9
Headroom without panoramic sunroof (front/rear/third row) (6 & 7 seat)	99.8/99.7/92.3
Headroom with panoramic sunroof (front/rear) (4 & 5 seat)	98.7/97.9
Headroom with panoramic sunroof (front/rear/third row) (6 & 7 seat)	98.7/97.9/92.3
Headroom maximum, without panoramic sunroof (front) (5 & 6 & 7 seat)	105.1
Headroom maximum, with panoramic sunroof (front) (all)	103.3
Passenger comp width at shoulder height (front/rear) (4 & 5 seat)	146.5/143.5
Passenger comp width at shoulder height (front/rear/third row) (6 & 7 seat)	146.5/143.5/119.2
Leg room (front/rear) (4 seat)	103.8/98.9
Leg room (front/rear) (5 seat)	103.8/94.0
Leg room (front/rear/third row) (6 & 7 seat)	103.8/94.0/81.1
Cargo volume, including under floor storage (V214-1)(litres)(5 seat/6 & 7 seat/6 & 7 seat T8)	1886/1868/1816
Cargo length from the first seatback to the tailgate measured at: – the height of the floor covering	204.0
Cargo length from the second seatback to the tailgate measured at: – the height of the floor covering (5 seat/6 & 7 seat)	122.0/126.0
Cargo height (rear wheel center and car center line)	88.9
Rear opening height (car center line)	81.6
Width of luggage compartment between wheelhouses	113.0

**TRANSMISSIONS**

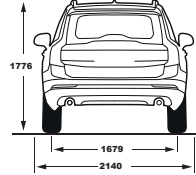
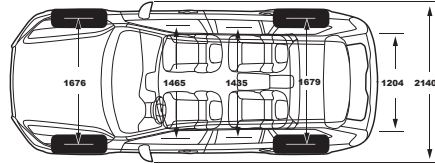
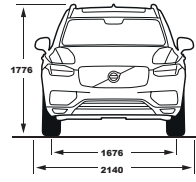
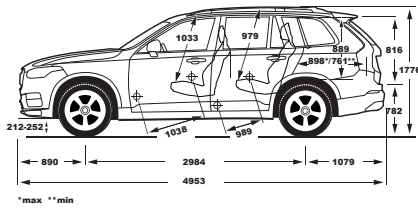
8-speed automatic gearbox

Ratio	AW TG-81SC	AW TG-81SD	AWF8G55
First	5.250	5.250	5.057
Second	3.029	3.029	3.070
Third	1.950	1.950	2.050
Fourth	1.457	1.457	1.520
Fifth	1.221	1.221	1.262
Sixth	1.000	1.000	1.000
Seventh	0.809	0.809	0.792
Eighth	0.673	0.673	0.661
Reverse	4.015	4.015	3.992

**CHASSIS**

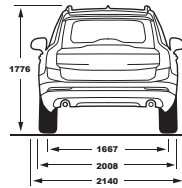
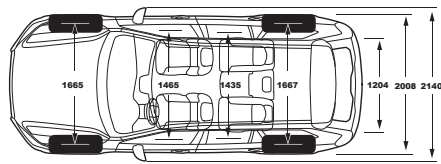
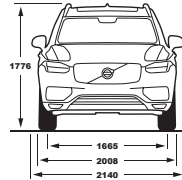
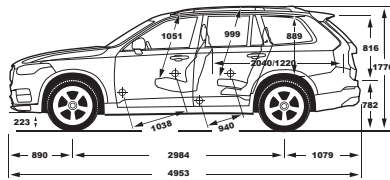
Suspension	front	Double Wishbone Suspension, Coil Springs, Hydraulic Shock Absorbers, Stabilizer Bar. Optional Air Suspension
	rear	Integral Axle with Transverse Composite Leaf Spring, Hydraulic Shock Absorbers, Stabilizer Bar. Optional Air Suspension
Steering		Electric Power Assisted Rack and Pinion Steering
Turning circle, (curb to curb)		11.8 m/12.1 m (tire 235/275)
Braking system		Antilock Braking System (ABS) with Electronic Brake Distribution (EBD) and Electronic Brake Assistance (EBA)
Braking distance, 100–0 km/h		36 m
Brake disc diameter	front	345 mm/366 mm (all/B4204T35)
	rear	320 mm/340 mm (all/B4204T35)

**4-SEAT**

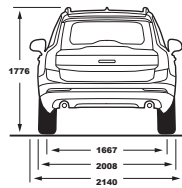
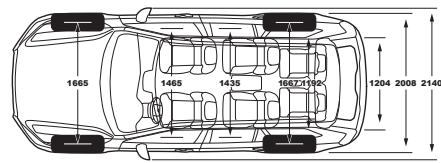
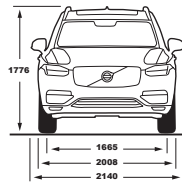
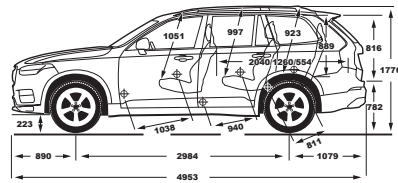


\*max \*\*min

**5-SEAT**



**6-SEAT**



**7-SEAT**

