

# Volvo XC90

## ENGINES

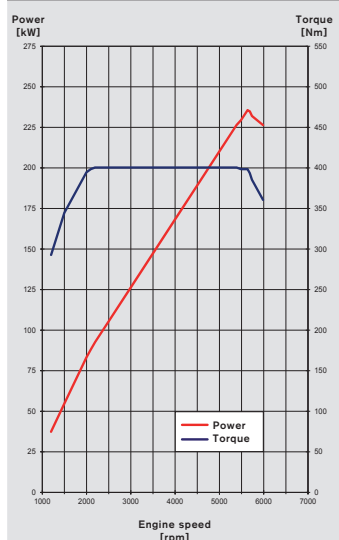
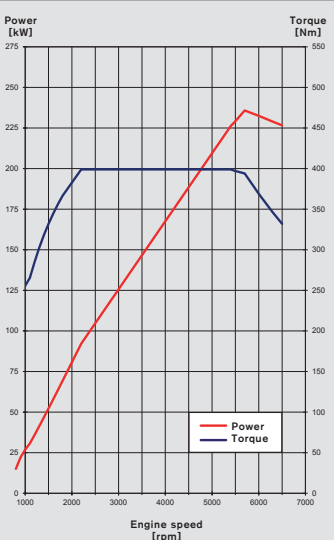
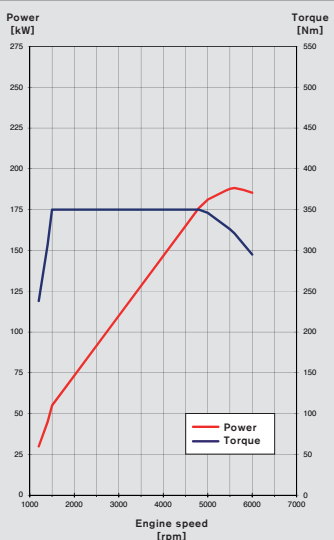
Type
Configuration
Displacement, cm <sup>3</sup>
Bore (mm)
Stroke (mm)
Engine cylinder block material
Cylinderhead material
Compression ratio
Valves, no/cylinder
Camshafts
Engine management system
Ignition sequence
Engine idling speed, rpm
Fuel, rec. octane
Max output, kW (hp)/rpm
Max torque, Nm/rpm

<b>T5 AWD (B4204T23)</b>
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
850±100
95-98 RON
187 (254)/5500
350/1500-4800

<b>T6 AWD (B4204T27)</b>
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
850±100
95-98 RON
235 (320)/5700
400/2200-5400

<b>T8 AWD (B4204T35)</b>
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
850±100
95-98 RON
235 (320)/5700
400/2200-5400

## POWER AND TORQUE →



Manual gearbox/final drive
Automatic gearbox/final drive

-
AW TG-81SC 3.329

-
AW TG-81SC 3.329

-
AW TG-81SD 3.200

## PERFORMANCE

Gearbox
Acceleration, 0-100 km/h (sec)
Top speed, km/h
Fuel consumption l/100 km (Combined)
CO <sub>2</sub> g/km

Automatic
8.2
215
7.5
174

Automatic
6.5
230
7.7
179

Automatic
5.6
230
2.1
49

Battery type
Battery content, total amount of energy (kwh)
Battery charging time*, at 16A/10A/6A fuse (hours)
Range (Km) (NEDC for hybrids)
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
9.2
2.5/3.5/6.0
>43 km**
65/117
240/0-50
~407 (320+87)
~300 (235***+65)
~640 (400***+240)
Centrally in the tunnel of the car

\*) Time pending on e.g. ambient temp.  
 \*\*) Pure electrical range according to NEDC cycle range  
 \*\*\*) In \*Hybrid\*-, \*Power\* - and \*EL-AWD\*-mode

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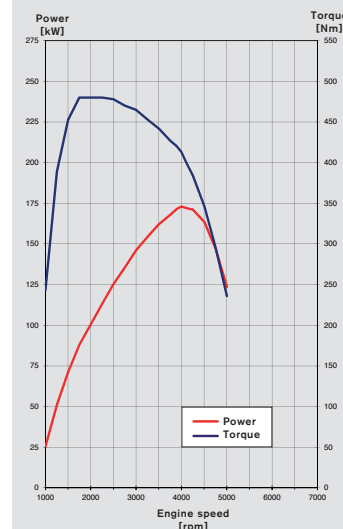
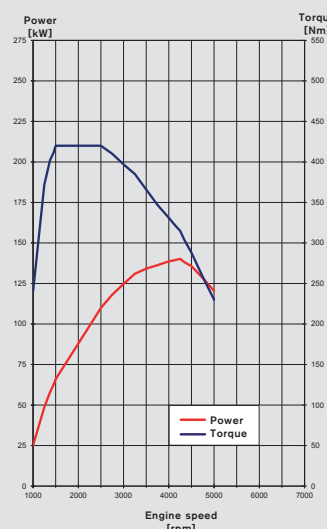
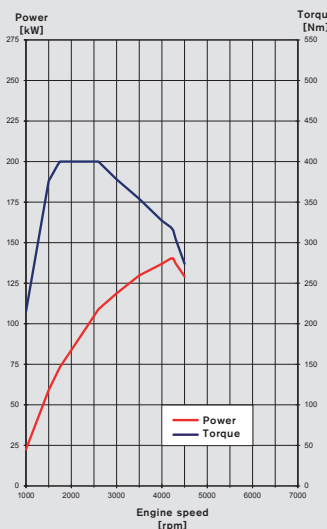
Type
Configuration
Displacement, cm <sup>3</sup>
Bore (mm)
Stroke (mm)
Engine cylinder block material
Cylinderhead material
Compression ratio
Valves, no/cylinder
Camshafts
Engine management system
Ignition sequence
Engine idling speed, rpm
Fuel
Max output, kW (hp)/rpm
Max torque, Nm/rpm

<b>D4 (D4204T14)</b>
In-line 4-cyl. twin turbo diesel
Transverse, front 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*
140 (190)/4250
400/1750–2500

<b>D4 AWD (D4204T6)</b>
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*
140 (190)/4250
420/1500–2500

<b>D5 AWD (D4204T23)</b>
In-line 4-cyl. twin turbo diesel
Transverse, front 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

-
AW TG-81SC      3.200

-
AW TG-81SC      3.075

-
AW TG-81SC      3.075

## PERFORMANCE

Gearbox
Acceleration, 0–100 km/h (sec)
Top speed, km/h
Fuel consumption l/100 km (Combined)
CO <sub>2</sub> g/km

Automatic
9.2
205
5.2
136

Automatic
9.4
200
5.7
149

Automatic
7.8
220
5.7
149

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

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

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

## TRANSMISSIONS

8-speed automatic gearbox

RATIO	AW TG-81SC	AW TG-81SD
First	5.250	5.250
Second	3.029	3.029
Third	1.950	1.950
Fourth	1.457	1.457
Fifth	1.221	1.221
Sixth	1.000	1.000
Seventh	0.809	0.809
Eighth	0.673	0.673
Reverse	4.015	4.015

**MEASUREMENTS AND VOLUMES**

**EXTERIOR MEASUREMENTS (CM)**

Length	495.0
Width (incl mirrors outer edge)	214.0
Width (incl mirrors folded)	200.8
Height	177.6
Wheelbase	298.4
Overhang (front/rear)	88.7/107.9
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)	23.8/22.7-26.7

**WEIGHTS/MISCELLANEOUS**

Weight, kg (running order, min-max, depending on setup)	2050-2319
Fuel tank, l (all/B4204T35)	71/50
Max. trailer weight, kg	1800-2700**
Max roof load, kg	100
Drag coefficient, Cd	0.29

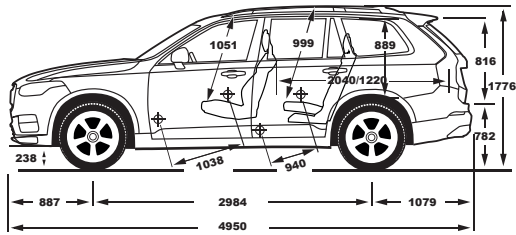
\*\* Depending on setup

**INTERIOR MEASUREMENTS (CM)**

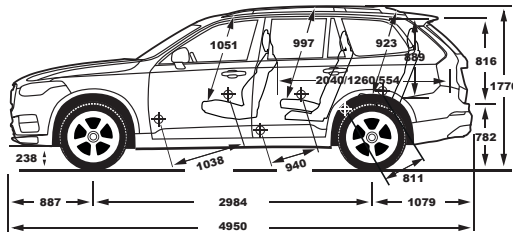
Headroom without panoramic sunroof (front/rear) (5 seat)	99.8/99.9
Headroom without panoramic sunroof (front/rear/third row) (7 seat)	99.8/99.7/92.3
Headroom with panoramic sunroof (front/rear) (5 seat)	98.7/97.9
Headroom with panoramic sunroof (front/rear/third row) (7 seat)	98.7/97.9/92.3
Headroom maximum, without panoramic sunroof (front) (5 & 7 seat)	105.1
Headroom maximum, with panoramic sunroof (front) (5 & 7 seat)	103.3
Passenger comp width at shoulder height (front/rear) (5 seat)	146.5/143.5
Passenger comp width at shoulder height (front/rear/third row) (7 seat)	146.5/143.5/119.2
Leg room (front/rear) (5 seat)	103.8/94.0
Leg room (front/rear/third row) (7 seat)	103.8/94.0/81.1
Cargo volume, including under floor storage (ISO V214-1)(litres)(5 seat/7 seat/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 (5/7 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

\*T8 Twin engine is only available as 7 seat version.

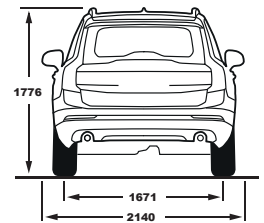
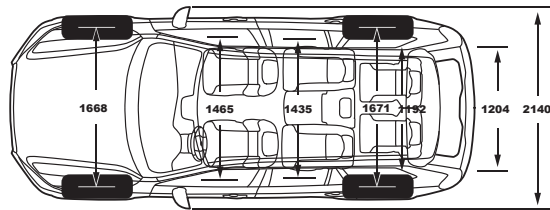
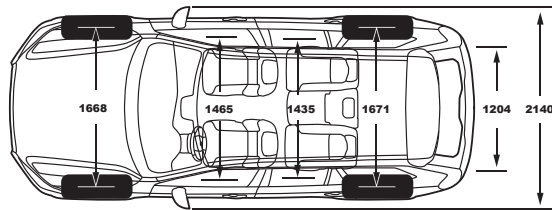
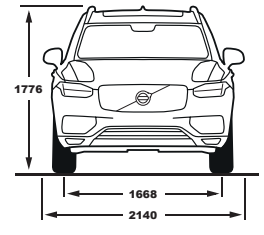
**5 SEAT**



**7 SEAT**



**5 & 7 SEAT**



**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)