

Volvo XC90

CONT'D VOLVO XC90 →

ENGINES

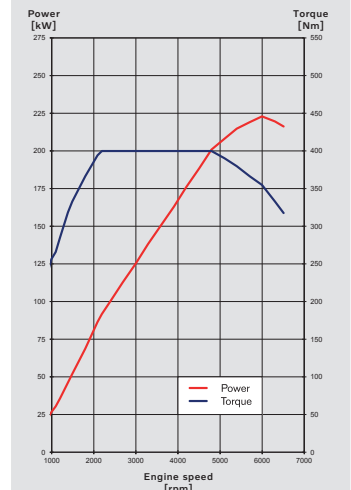
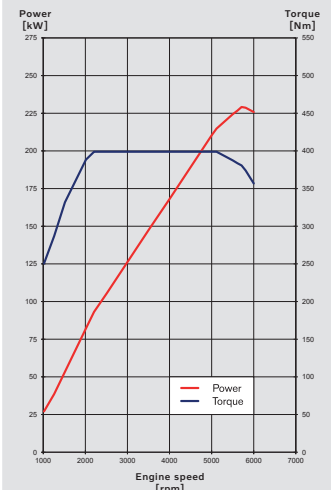
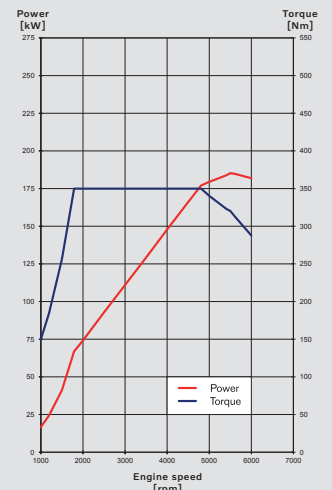
| |
|--------------------------------|
| Type |
| Configuration |
| Displacement, cm ³ |
| Bore (mm) |
| Stroke (mm) |
| Engine cylinder block material |
| Cylinder head material |
| Compression ratio |
| Valves, no/cylinder |
| Camshafts |
| Engine management system |
| Ignition sequence |
| Engine 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 |
| PERFORMANCE |
| Gearbox |
| Acceleration, 0-100 km/h (sec) |
| Top speed, km/h |

| |
|------------|
| - |
| AW TG-81SC |
| 3.329 |
| Automatic |
| 7.9 |
| 215 |

| |
|------------|
| - |
| AW TG-81SC |
| 3.329 |
| Automatic |
| 6.5 |
| 230 |

| |
|------------|
| - |
| AW TG-81SD |
| 3.329 |
| Automatic |
| 5.8 |
| 230 |

| |
|---|
| FUEL CONSUMPTION (EU) |
| l/100 km / CO ₂ 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 ₂ g/km |
| WLTP Medium l/100 km / CO ₂ g/km |
| WLTP High l/100 km / CO ₂ g/km |
| WLTP Extra High l/100 km / CO ₂ g/km |
| WLTP Combined l/100 km / CO ₂ 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

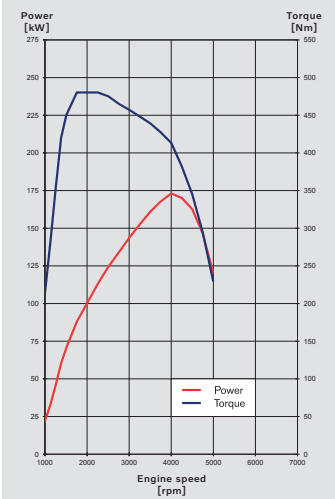
All figures are preliminary. Volvo Cars reserves the right to make changes in the specifications without any notice.

ENGINES

| |
|--------------------------------|
| Type |
| Configuration |
| Displacement, cm ³ |
| 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 |

PERFORMANCE

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

| |
|-----------|
| Automatic |
| 7,6 |
| 220 |

FUEL CONSUMPTION (EU)

| |
|---|
| l/100 km / CO ₂ 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 ₂ g/km |
| WLTP Medium l/100 km / CO ₂ g/km |
| WLTP High l/100 km / CO ₂ g/km |
| WLTP Extra High l/100 km / CO ₂ g/km |
| WLTP Combined l/100 km / CO ₂ 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

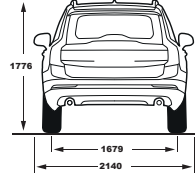
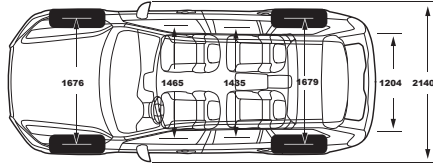
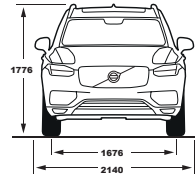
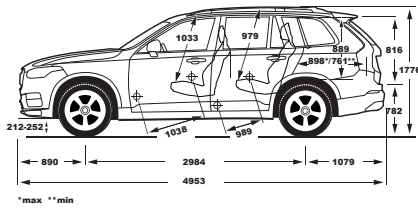
8-speed automatic gearbox

| 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 |

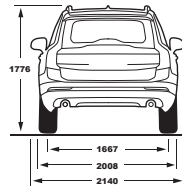
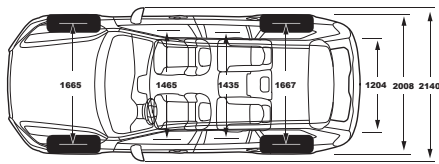
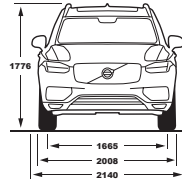
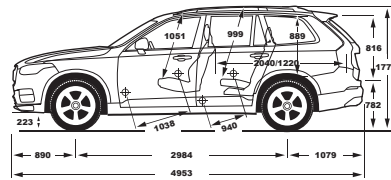
CHASSIS

| | | |
|--------------------------------|-------|---|
| 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) |

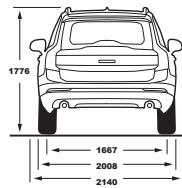
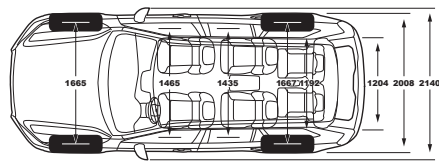
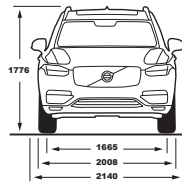
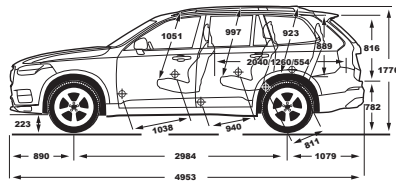
4-SEAT



5-SEAT



6-SEAT



7-SEAT

