

# 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             |

## POWER AND TORQUE →

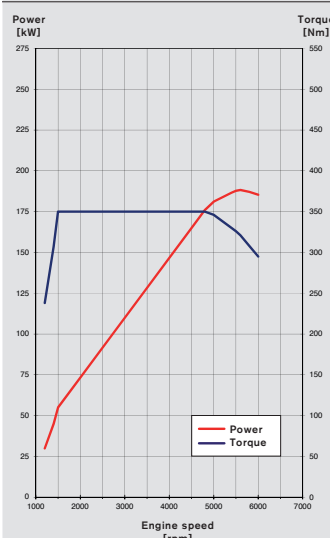
|                               |
|-------------------------------|
| Manual gearbox/final drive    |
| Automatic gearbox/final drive |

## PERFORMANCE

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

### T5 AWD (B4204T23)

|                             |
|-----------------------------|
| 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               |

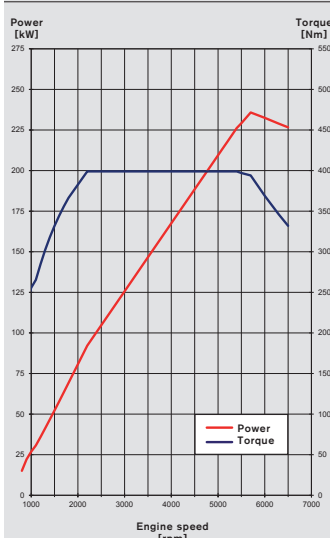


|                  |
|------------------|
| -                |
| AW TG-81SC 3.329 |

|           |
|-----------|
| Automatic |
| 8.2       |
| 215       |
| 7.5       |
| 174       |

### T6 AWD (B4204T27)

|                                              |
|----------------------------------------------|
| 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                                |

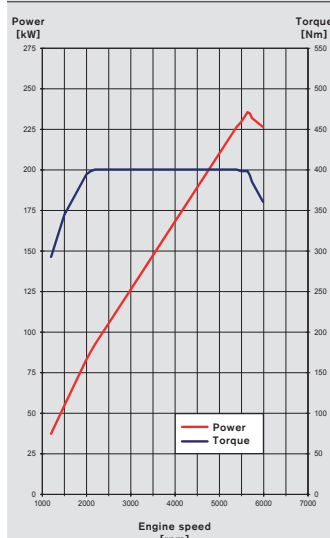


|                  |
|------------------|
| -                |
| AW TG-81SC 3.329 |

|           |
|-----------|
| Automatic |
| 6.5       |
| 230       |
| 7.7       |
| 179       |

### T8 AWD (B4204T35)

|                                                    |
|----------------------------------------------------|
| 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                                      |



|                  |
|------------------|
| -                |
| AW TG-81SD 3.200 |

|           |
|-----------|
| 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

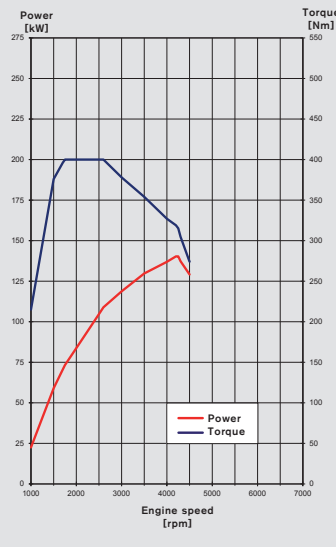
|                                |  |
|--------------------------------|--|
| ENGINES                        |  |
| Type                           |  |
| Configuration                  |  |
| Displacement, cm³              |  |
| Bore (mm)                      |  |
| Stroke (mm)                    |  |
| 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             |  |

POWER AND TORQUE →

|                               |  |
|-------------------------------|--|
| Manual gearbox/final drive    |  |
| Automatic gearbox/final drive |  |

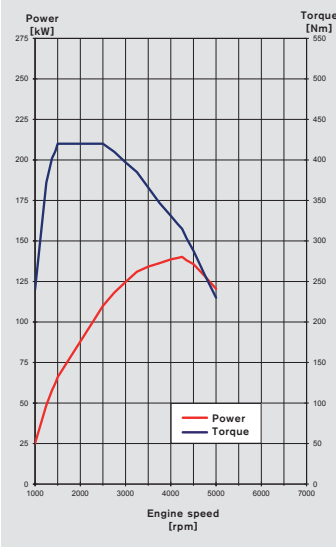
|                                      |  |
|--------------------------------------|--|
| PERFORMANCE                          |  |
| Gearbox                              |  |
| Acceleration, 0–100 km/h (sec)       |  |
| Top speed, km/h                      |  |
| Fuel consumption l/100 km (Combined)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

|                                    |  |
|------------------------------------|--|
| D4 (D4204T14)                      |  |
| 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                      |  |



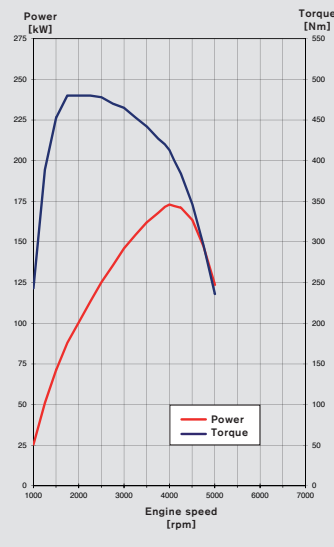
|                                                            |           |
|------------------------------------------------------------|-----------|
| -                                                          |           |
| AW TG-81SC                                                 | 3.200     |
|                                                            |           |
|                                                            | Automatic |
|                                                            | 9.2       |
|                                                            | 205       |
|                                                            | 5.2       |
|                                                            | 136       |
| *According to EN590<br>Maximum biodiesel (FAME) content 7% |           |

|                                    |  |
|------------------------------------|--|
| D4 AWD (D4204T6)                   |  |
| 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                      |  |



|                                                            |           |
|------------------------------------------------------------|-----------|
| -                                                          |           |
| AW TG-81SC                                                 | 3.075     |
|                                                            |           |
|                                                            | Automatic |
|                                                            | 9.4       |
|                                                            | 200       |
|                                                            | 5.7       |
|                                                            | 149       |
| *According to EN590<br>Maximum biodiesel (FAME) content 7% |           |

|                                    |  |
|------------------------------------|--|
| D5 AWD (D4204T23)                  |  |
| 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                      |  |



|                                                            |           |
|------------------------------------------------------------|-----------|
| -                                                          |           |
| AW TG-81SC                                                 | 3.075     |
|                                                            |           |
|                                                            | Automatic |
|                                                            | 7.8       |
|                                                            | 220       |
|                                                            | 5.7       |
|                                                            | 149       |
| *According to EN590<br>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 |

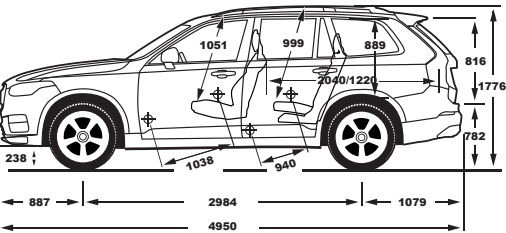
| WEIGHTS/MISCELLANEOUS                                   |             |
|---------------------------------------------------------|-------------|
| Weight, kg (running order, min-max, depending on setup) | 2050-2319   |
| Fuel tank, l (all/B4204T35)                             | 71/50       |
| Max.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

\*\* Depending on setup

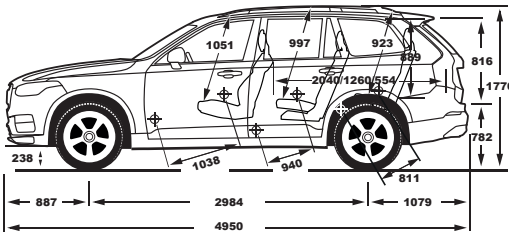
| INTERIOR MEASUREMENTS (CM)                                                                                          |                   |
|---------------------------------------------------------------------------------------------------------------------|-------------------|
| Headroom without panoramic 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:<br>- the height of the floor covering             | 204.0             |
| Cargo length from the second seatback to the tailgate measured at:<br>- 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.

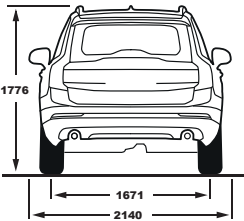
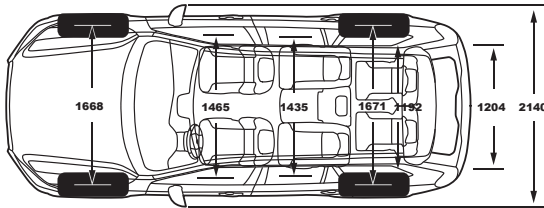
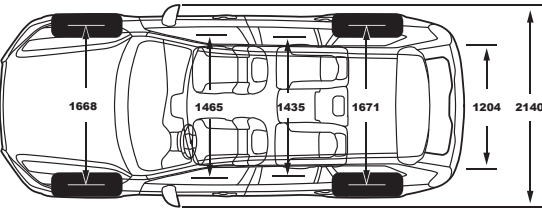
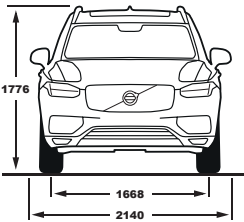
5 SEAT



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)                                                                                            |