

2020 Volvo V90 Cross Country Specifications				
	V90CC T5 AWD (250 hp) aut	V90CC T6 AWD (310 hp) aut	V90CC D4 AWD (190 hp) man/aut	V90CC D5 AWD (235 hp) aut
Engine				
Engines	B4204T26	B4204T29	D4204T14	D4204T23
Type	In-line, 4 cyl. turbocharged	In-line, 4 cyl. supercharged and turbocharged	In-line, 4 cyl. twin turbo diesel	In-line, 4 cyl. twin turbo diesel
Configuration	AWD	AWD	AWD	AWD
Displacement	1969 cm³	1969 cm³	1969 cm³	1969 cm³
Bore	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
Compression ratio	10,8:1	10,3:1	15,8:1	15,8:1
Valves, no/cylinder	4 ea.	4 ea.	4 ea.	4 ea.
DOHC / SOHC	DOHC	DOHC	DOHC	DOHC
Engine management system	Gasoline direct injection	Gasoline direct injection	i-Art common rail direct injection	i-Art common rail direct injection
Ignition sequence	1 - 3 - 4 - 2	1 - 3 - 4 - 2	1 - 3 - 4 - 2	1 - 3 - 4 - 2
Engine idling speed	875 rpm ± 50	875 rpm ± 50	825 rpm ± 150	825 rpm ± 150
Fuel, rec. Octane	95–98 RON	95–98 RON	Diesel ¹	Diesel ¹
Max engine speed	6000 rpm	6000 rpm	5000 rpm	5000 rpm
Max output	184 kW (250 hp) / 5500 rpm	228 kW (310 hp) / 5700 rpm	140 kW (190 hp) / 4250 rpm	173 kW (235 hp) / 4000 rpm
Max torque	350 / 30 - 80 Nm / rps	400 / 37 - 85 Nm / rps	400 / 29 - 42 Nm / rps	480 / 29 - 38 Nm / rps
¹ According to EN590 Maximum biodiesel (FAME) content 7%				
Transmissions				
Transmissions (AWD)	AW TG-81SC	AW TG-81SC	M66F / AW TG-81SC	AW TG-81SC
First Gear (AWD)	5,250	5,250	3,583/5,250	5,250
Second Gear (AWD)	3,029	3,029	2,050/3,029	3,029
Third Gear (AWD)	1,950	1,950	1,267/1,950	1,950
Fourth Gear (AWD)	1,457	1,457	0,838/1,457	1,457
Fifth Gear (AWD)	1,221	1,221	0,617/1,221	1,221
Sixth Gear (AWD)	1,000	1,000	0,510/1,000	1,000
Seventh Gear (AWD)	0,809	0,809	-/0,809	0,809
Eighth Gear (AWD)	0,673	0,673	-/0,673	0,673
Reverse Gear (AWD)	4,015	4,015	2,833/4,015	4,015
Manual Gearbox/final drive (AWD)	-	-	4,533 (gear 1-6) - 5,667 (gear R)	-
Automatic Gearbox / final drive (AWD)	3,329	3,329	3,200	3,200
Performance				
Performance	Automatic	Automatic	Manual / Automatic	Automatic
Gearbox	AW TG-81SC	AW TG-81SC	M66F / AW TG-81SC	AW TG-81SC
Acceleration, 0-100 km/h	7,4 sec	6,3 sec	8,8 sec / 8,8 sec	7,5 sec
Top speed	230 km/h	230 km/h	210 km/h / 210 km/h	225 km/h
Tyre class B Combined, NEDC*, l/100 km / CO² g/km ¹	7,4 l/100 km / 172 g/km	7,6 l/100 km / 176 g/km	5,4 l/100 km / 141 g/km // 5,3 l/100 km / 139 g/km	5,6 l/100 km / 148 g/km
Tyre class C Combined, NEDC*, l/100 km / CO² g/km ¹	7,6 l/100 km / 176 g/km	7,9 l/100 km / 183 g/km	5,5 l/100 km / 145 g/km // 5,6 l/100 km / 147 g/km	5,7 l/100 km / 151 g/km
WLTP Low l/100 km / CO² g/km	12,1 - 12,5 / 274 - 282	12,0 - 12,4 / 272 - 281	7,2 - 7,8 / 189 - 205 // 8,3 - 8,6 / 218 - 226	8,3 - 9,1 / 218 - 238
WLTP Medium l/100 km / CO² g/km	8,8 - 9,3 / 199 - 211	8,8 - 9,3 / 199 - 212	6,3 - 6,9 / 164 - 181 // 6,8 - 7,3 / 177 - 191	7,1 - 7,7 / 186 - 203
WLTP High l/100 km / CO² g/km	7,3 - 7,9 / 166 - 179	7,4 - 8,0 / 167 - 182	5,5 - 5,9 / 143 - 154 // 5,6 - 6,1 / 148 - 160	6,1 - 6,6 / 160 - 173
WLTP Extra High l/100 km / CO² g/km	8,4 - 9,2 / 191 - 209	8,5 - 9,1 / 192 - 207	6,5 - 7,0 / 173 - 182 // 6,5 - 7,1 / 170 - 185	7,0 - 7,4 / 183 - 194
WLTP Combined l/100 km / CO² g/km	8,7 - 9,3 / 196 - 210	8,7 - 9,3 / 196 - 210	6,2 - 6,7 / 163 - 176 // 6,5 - 7,0 / 171 - 184	6,9 - 7,4 / 181 - 195
¹ * NEDC figures correlated from WLTP based testing				
Measurements and Volumes				
Track, front (Rim size 18"+19" / 20"+21")	1652 mm / 1655 mm	1652 mm / 1655 mm	1652 mm / 1655 mm	1652 mm / 1655 mm
Track, rear (Rim size 18"+19" / 20"+21")	1643 mm / 1645 mm	1643 mm / 1645 mm	1643 mm / 1645 mm	1643 mm / 1645 mm
Ground clearance (at curb weight + 1 person)	210 mm	210 mm	210 mm	210 mm
Wading capability depth at curb weight (at walking speed)	300 mm	300 mm	300 mm	300 mm
Approach angle (at curb weight)	18,9 degr	18,9 degr	18,9 degr	18,9 degr
Breakover angle (at curb weight)	17,7 degr	17,7 degr	17,7 degr	17,7 degr
Departure angle (at curb weight)	20,7 degr	20,7 degr	20,7 degr	20,7 degr
Weight/Miscellaneous				
Weight (Depending on type of engine, gearbox etc.)	1834 kg - 1882 kg	1834 kg - 1882 kg	1834 kg - 1882 kg	1834 kg - 1882 kg
Total Weight (Depending on type of engine, gearbox etc.)	2390 kg - 2440 kg	2390 kg - 2440 kg	2390 kg - 2440 kg	2225 kg - 2620 kg
Max trailer weight, Unbraked (Max)	750 kg	750 kg	750 kg	750 kg
Max trailer weight, Braked (Max)	2400 kg* ¹	2400 kg* ¹	2200 kg* / 2400 kg* ¹	2400 kg* ¹
Fuel tank, Petrol	60 l	60 l	-	-
Fuel tank, Diesel	-	-	60 l	60 l
Aerodynamics, (Cd)	0,35 - 0,37	0,35 - 0,37	0,35 - 0,37	0,35 - 0,37
Aerodynamics, (Frontal area)	2,37 m²	2,37 m²	2,37 m²	2,37 m²
Max roof load	100 kg	100 kg	100 kg	100 kg
SCR tank ²	-	-	11,5	11,5
¹ * TOWKIT required, otherwise 1800 kg				
² = Market codes, D4204T14: 10, 14, 15, 19, 26, 48, 49, 50 / D4204T23: 10, 14, 15, 19, 26, 41, 48, 49				
Interior Measurements				
Headroom with panoramic sunroof (front/rear)	959 mm / 957 mm	959 mm / 957 mm	959 mm / 957 mm	959 mm / 957 mm
Headroom without panoramic sunroof (front/rear)	983 mm / 966 mm	983 mm / 966 mm	983 mm / 966 mm	983 mm / 966 mm
Headroom maximum, with panoramic sunroof (front)	1006 mm	1006 mm	1006 mm	1006 mm
Headroom maximum, without panoramic sunroof (front)	1026 mm	1026 mm	1026 mm	1026 mm
Passenger compartment width at shoulder height (front/rear)	1460 mm / 1420 mm	1460 mm / 1420 mm	1460 mm / 1420 mm	1460 mm / 1420 mm
Leg room (front/rear)	1071 mm / 911 mm	1071 mm / 911 mm	1071 mm / 911 mm	1071 mm / 911 mm
Hip room (front/rear)	1432 mm / 1416 mm	1432 mm / 1416 mm	1432 mm / 1416 mm	1432 mm / 1416 mm
Cargo length from the first seatback to the tailgate measured at the top of the first seatback	1812 mm	1812 mm	1812 mm	1812 mm
Cargo length from the first seatback to the tailgate measured at the height of the floor covering	1988 mm	1988 mm	1988 mm	1988 mm
Cargo length from the second seatback to the tailgate measured at the top of the second seatback	890 mm	890 mm	890 mm	890 mm
Cargo length from the second seatback to the tailgate measured at the height of the floor covering	1153 mm	1153 mm	1153 mm	1153 mm
Rear opening height (H202)	704 mm	704 mm	704 mm	704 mm
Luggage floor, height to ground (H253)	680 mm	680 mm	680 mm	680 mm
Cargo floor width, min. (W202) (between wheel housings)	1100 mm	1100 mm	1100 mm	1100 mm
Rear opening width at floor, min. (W207)	1130 mm	1130 mm	1130 mm	1130 mm
Rear opening width maximum (W206)	1162 mm	1162 mm	1162 mm	1162 mm
Cargo volume (SAE V2)	1953 l	1953 l	1953 l	1953 l
Largest Luggage volume - First (Largest volume. Load height limited by the head lining. Front limited by vertical plane tangential to the rear side of the front seatback)				
Total, including under floor volume	1526 l	1526 l	1526 l	1526 l
Under floor volume, V209	77 l	77 l	77 l	77 l
Largest Luggage volume - Second (Second seat up. Load height limited by the headlining. Front limited by vertical plane tangential to the rear side of the second seatback)				
Total, including under floor volume	723 l	723 l	723 l	723 l
Under floor volume, V209	77 l	77 l	77 l	77 l
Open Luggage Compartment - First (Second seat folded. Load height limited to upper edge of the front seatback or lower edge of the rear window)				
Total, including under floor volume	913 l	913 l	913 l	913 l
Under floor volume, V209	77 l	77 l	77 l	77 l
Open Luggage Compartment - Second (Second seat up. Load height limited to the upper edge of the second seatback or second window)				
Total, including under floor volume	560 l	560 l	560 l	560 l
Under floor volume, V209	77 l	77 l	77 l	77 l
Chassis				
Suspension front	Double Wishbone Suspension, Coil Springs, Hydraulic Shock Absorbers, Stabilizer Bar	Double Wishbone Suspension, Coil Springs, Hydraulic Shock Absorbers, Stabilizer Bar	Double Wishbone Suspension, Coil Springs, Hydraulic Shock Absorbers, Stabilizer Bar	Double Wishbone Suspension, Coil Springs, Hydraulic Shock Absorbers, Stabilizer Bar
Suspension rear	Integral Axle with Transverse Composite Leaf Spring, Hydraulic Shock Absorbers, Stabilizer Bar. Optional Air Suspension	Integral Axle with Transverse Composite Leaf Spring, Hydraulic Shock Absorbers, Stabilizer Bar. Optional Air Suspension	Integral Axle with Transverse Composite Leaf Spring, Hydraulic Shock Absorbers, Stabilizer Bar. Optional Air Suspension	Integral Axle with Transverse Composite Leaf Spring, Hydraulic Shock Absorbers, Stabilizer Bar. Optional Air Suspension
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 (angle/angle)	16,7	16,7	16,7	16,7
Turning circle (Curb to curb)	11,6 m	11,6 m	11,6 m	11,6 m
Turning circle (Wall to wall)	12,0 m	12,0 m	12,0 m	12,0 m
Turns of steering wheel end to end	2,9 / 3,0	2,9 / 3,0	2,9 / 3,0	2,9 / 3,0
Braking system	Antilock Braking System (ABS) with Electronic Brake Distribution (EBD) and Electronic Brake Assistance (EBA)	Antilock Braking System (ABS) with Electronic Brake Distribution (EBD) and Electronic Brake Assistance (EBA)	Antilock Braking System (ABS) with Electronic Brake Distribution (EBD) and Electronic Brake Assistance (EBA)	Antilock Braking System (ABS) with Electronic Brake Distribution (EBD) and Electronic Brake Assistance (EBA)
Brake disc diameter (front) (17" / 18")	322 mm / 345 mm	322 mm / 345 mm	322 mm / 345 mm	322 mm / 345 mm
Brake disc diameter (rear) (17")	320 mm	320 mm	320 mm	320 mm
Brake disc thickness (front) (17" / 18")	28 mm / 30 mm	28 mm / 30 mm	28 mm / 30 mm	28 mm / 30 mm
Brake disc thickness (rear) (17")	20 mm	20 mm	20 mm	20 mm
Braking distance 100-0 km/h	35 m	35 m	35 m	35 m