2017 Volvo V90 Specifications

	V90 T5 (254 hp) aut	V90 T6 AWD (320 hp) aut	V90 T8 AWD (320 hp) aut	V90 D3 (150 hp) aut	V90 D3 AWD (150 hp) aut	V90 D4 (190 hp) aut	V90 D4 AWD (190 hp) aut	V90 D5 AWD (235 hp) aut
Engine								
Engines	B4204T23	B4204T27	B4204T35	D4204T8	D4204T14	D4204T14	D4204T14	D4204T23
Type	In-line, 4 cyl. turbocharged	In-line, 4 cyl. supercharged and turbocharged	In-line, 4 cyl. supercharged and turbocharged	In-line 4 cyl. turbo diesel	In-line 4 cyl. turbo diesel	In-line 4 cyl. twin turbo diesel	In-line 4 cyl. twin turbo diesel	In-line 4 cyl. twin turbo diesel
Configuration	FWD	AWD	AWD	FWD	AWD	FWD	AWD	AWD
Displacement	1969 cm³	1969 cm³	1969 cm³	1969 cm³	1969 cm³	1969 cm³	1969 cm³	1969 cm³
Bore	82.0 mm	82.0 mm	82.0 mm	82.0 mm	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	93.2 mm	93.2 mm	93.2 mm	93.2 mm
Compression ratio	10.8:1	10.3:1	10.3:1	16.0:1	15.8:1	15.8:1	15.8:1	15.8:1
Valves, nos/cylinder	4 ea.	4 ea.	4 ea.	4 ea.	4 ea.	4 ea.	4 ea.	4 ea.
DOHC / SOHC	DOHC	DOHC	DOHC	DOHC	DOHC	DOHC	DOHC	DOHC
Engine management	Gasoline direct injection	Gasoline direct injection	Gasoline direct injection	i-Art common rail direct injection	i-Art common rail direct injection	i-Art common rail 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	1 - 3 - 4 - 2	1 - 3 - 4 - 2	1 - 3 - 4 - 2	1 - 3 - 4 - 2
Engine idling speed	850 ± 100 rpm	850 ± 100 rpm	850 ± 100 rpm	825 ± 150 rpm	825 ± 150 rpm	825 ± 150 rpm	825 ± 150 rpm	825 ± 150 rpm
Fuel, rec. Octane	95–98 RON	95–98 RON	95–98 RON	Diesel [1]	Diesel [1]	Diesel [1]	Diesel [1]	Diesel [1]
Max engine speed	6000 rpm	6000 rpm	6000 rpm	4500 rpm	5000 rpm	5000 rpm	5000 rpm	5000 rpm
Max power	187 kW (254 hp) [1]	235 kW (320 hp) [1]	235 kW (320 hp) [1]	110 kW (150 hp) [1]	110 kW (150 hp) [1]	140 kW (190 hp) [1]	140 kW (190 hp) [1]	173 kW (235 hp) [1]
	5700 rpm	5700 rpm	5700 rpm	4250 rpm	4250 rpm	4250 rpm	4250 rpm	4000 rpm
Max torque	350 / 25 - 50 Nm / rpm	400 / 37 - 90 Nm / rpm	400 / 37 - 90 Nm / rpm	320 / 29 - 50 Nm / rpm	350 / 25 - 42 Nm / rpm	400 / 29 - 42 Nm / rpm	400 / 29 - 42 Nm / rpm	480 / 29 - 37 Nm / rpm
Battery type	-	-	Lithium-ion battery	-	-	-	-	-
Battery content, total amount of energy (kWh)	-	-	9.2	-	-	-	-	-
Battery charging time[**] at 10A / 10A / 16A fuse sockets [1]	-	-	2.5 / 3.5 / 6.0	-	-	-	-	-
Battery placement	-	-	Centrally in the tunnel of the car	-	-	-	-	-
Electrical motor max power (kW)	-	-	65 kW	-	-	-	-	-
Electrical motor max torque (Nm)	-	-	240 Nm	-	-	-	-	-
Driveline max power (kW)	-	-	65 kW + 235 kW[***]	-	-	-	-	-
Driveline max torque (Nm)	-	-	240 Nm + 400 Nm[***]	-	-	-	-	-

[1] According to EN590 Maximum blended (FAME) content 7%

[*] * Up to

[**] * Up to

Transmissions

Transmissions	AW TG-81SC	AW TG-81SC	AW TG-81SD	M66F / AW TF-71SC	AW TG-81SC	M66F / AW TF-81SC	AW TG-81SC	AW TG-81SC
First Gear	5.250	5.250	5.250	3.583 / 4.044	5.250	3.583 / 5.250	5.250	5.250
Second Gear	3.029	3.029	3.029	2.050 / 2.371	3.029	2.050 / 3.029	3.029	3.029
Third Gear	1.950	1.950	1.950	1.267 / 1.556	1.950	1.267 / 1.950	1.950	1.950
Fourth Gear	1.407	1.407	1.407	0.858 / 1.152	1.407	0.858 / 1.407	1.407	1.407
Fifth Gear	1.221	1.221	1.221	0.611 / 0.852	1.221	0.617 / 1.221	1.221	1.221
Sixth Gear	1.000	1.000	1.000	0.510 / 0.672	1.000	0.510 / 1.000	1.000	1.000
Seventh Gear	0.809	0.809	0.809	-/-	0.809	- / 0.809	0.809	0.809
Eighth Gear	0.673	0.673	0.673	-/-	0.673	- / 0.673	0.673	0.673
Reverse Gear	4.015	4.015	4.015	2.833 / 3.183	4.015	2.833 / 4.015	4.015	4.015
Manual Gearbox/final drive	-	-	-	4.000	-	4.000	-	-
Automatic Gearbox/final drive	3.075	3.200	3.200	3.502	3.075	2.955	3.075	3.075

Performance

Performance	Automatic	Automatic	Automatic	Manual / Automatic	Automatic	Manual / Automatic	Automatic	Automatic
Gearbox	AW TG-81SC	AW TG-81SC	AW TG-81SD	M66F / AW TF-71SC	AW TG-81SC	M66F / AW TF-81SC	AW TG-81SC	AW TG-81SC
Acceleration, 0-100 km/h	7.0 sec	6.1 sec	4.8 sec	10.2 sec / 10.2 sec	10.5 sec	8.5 sec / 8.5 sec	8.7 sec	7.2 sec
Top speed	230 km/h	250 km/h	250 km/h	205 km/h / 205 km/h	205 km/h	225 km/h / 225 km/h	225 km/h	240 km/h
Fuel consumption (EC 199/100, combined)	6.8 l/100km	7.4 l/100km	2.1 l/100km	4.5 l/100km (4.4 l/100km *) / 4.5 l/100km (4.4 l/100km *)	4.9 l/100km	4.5 l/100km / 4.5 l/100km	4.9 l/100km	4.9 l/100km
CO²	154 g/km	169 g/km	47 g/km	119 g/km (116 g/km *) / 119 g/km (116 g/km *)	128 g/km	119 g/km / 119 g/km	128 g/km	129 g/km

[*] * = Restricted offer

Measurements and Volumes

Length	4936 mm	4936 mm	4936 mm	4936 mm	4936 mm	4936 mm	4936 mm	4936 mm
Width	1879 mm	1879 mm	1879 mm	1879 mm	1879 mm	1879 mm	1879 mm	1879 mm
Width (incl mirrors, folded)	1895 mm	1895 mm	1895 mm	1895 mm	1895 mm	1895 mm	1895 mm	1895 mm
Width (including mirrors, outer mirror caps)	2019 mm	2019 mm	2019 mm	2019 mm	2019 mm	2019 mm	2019 mm	2019 mm
Height (including shark fin antenna)	1475 mm	1475 mm	1475 mm	1475 mm	1475 mm	1475 mm	1475 mm	1475 mm
Wheelbase	2941 mm	2941 mm	2941 mm	2941 mm	2941 mm	2941 mm	2941 mm	2941 mm
Track, front (Rim size 17"-18" / 19"/20"/21")	1628 mm / 1618 mm / 1617 mm /1623 mm	1628 mm / 1618 mm / 1617 mm /1623 mm	1628 mm / 1618 mm / 1617 mm /1623 mm	1628 mm / 1618 mm / 1617 mm /1623 mm	1628 mm / 1618 mm / 1617 mm /1623 mm	1628 mm / 1618 mm / 1617 mm /1623 mm	1628 mm / 1618 mm / 1617 mm /1623 mm	1628 mm / 1618 mm / 1617 mm /1623 mm
Track, rear (Rim size 17"-18" / 19"/20"/21")	1629 mm / 1619 mm / 1618 mm /1624 mm	1629 mm / 1619 mm / 1618 mm /1624 mm	1629 mm / 1619 mm / 1618 mm /1624 mm	1629 mm / 1619 mm / 1618 mm /1624 mm	1629 mm / 1619 mm / 1618 mm /1624 mm	1629 mm / 1619 mm / 1618 mm /1624 mm	1629 mm / 1619 mm / 1618 mm /1624 mm	1629 mm / 1619 mm / 1618 mm /1624 mm
Ground clearance	153 mm	153 mm	153 mm	153 mm	153 mm	153 mm	153 mm	153 mm
Wading capability depth at curb weight (at walking speed)	250 mm	250 mm	Up to a depth approximately level with the floor at walking speed	250 mm	250 mm	250 mm	250 mm	250 mm

Weight/Mass/Loads

Weight (Depending on type of engine, gearbox etc.)	1832 kg - 2101 kg	1832 kg - 2101 kg	1832 kg - 2101 kg	1832 kg - 2101 kg	1832 kg - 2101 kg	1832 kg - 2101 kg	1832 kg - 2101 kg	1832 kg - 2101 kg
Total Weight (Depending on type of engine, gearbox etc.)	2290 kg - 2620 kg	2290 kg - 2620 kg	2290 kg - 2620 kg	2290 kg - 2620 kg	2290 kg - 2620 kg	2290 kg - 2620 kg	2290 kg - 2620 kg	2290 kg - 2620 kg
Max trailer weight, Unbraked (Max)	750 kg	750 kg	750 kg	750 kg	750 kg	750 kg	750 kg	750 kg
Max trailer weight, Braked (Max)	1800 kg	2200* kg [1]	2100* kg [1]	1800 kg	2200* kg [1]	1800 kg	2200* kg [1]	2200* kg [1]
Fuel tank, Petrol	55 l	60 l	50 l	-	-	-	-	-
Fuel tank, Diesel	-	-	-	55 l	60 l	55 l	60 l	60 l
Aerodynamics, (Cw)	0.30 - 0.33	0.30 - 0.33	0.30 - 0.33	0.30 - 0.33	0.30 - 0.33	0.30 - 0.33	0.30 - 0.33	0.30 - 0.33
Aerodynamics, (Frontal area)	2.30 m²	2.30 m²	2.30 m²	2.30 m²	2.30 m²	2.30 m²	2.30 m²	2.30 m²
Max roof load	100 kg	100 kg	100 kg	100 kg	100 kg	100 kg	100 kg	100 kg

[1] * = TOWNT accessory, dealerships fitted kg

Interior Measurements

Headroom with panoramic sunroof (Rear/rear)	959 mm / 957 mm	959 mm / 957 mm	959 mm / 957 mm	959 mm / 957 mm	959 mm / 957 mm	959 mm / 957 mm	959 mm / 957 mm	959 mm / 957 mm
Headroom without panoramic sunroof (Rear/rear)	983 mm / 966 mm	983 mm / 966 mm	983 mm / 966 mm	983 mm / 966 mm	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	1006 mm	1006 mm	1006 mm	1006 mm
Headroom maximum, without panoramic sunroof (front)	1026 mm	1026 mm	1026 mm	1026 mm	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	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	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	1432 mm / 1416 mm	1432 mm / 1416 mm	1432 mm / 1416 mm	1432 mm / 1416 mm
Cargo length from the first seatback to the rear seat backrest, measured at the top of the first seatback	1812 mm	1812 mm	1812 mm	1812 mm	1812 mm	1812 mm	1812 mm	1812 mm
Cargo length from the first seatback to the rear seat backrest, measured at height of the floor covering	1988 mm	1988 mm	1988 mm	1988 mm	1988 mm	1988 mm	1988 mm	1988 mm
Cargo length from the second seatback to the tailgate, with the rear seat in the upright position	890 mm	890 mm	890 mm	890 mm	890 mm	890 mm	890 mm	890 mm
Cargo length from the second seatback to the tailgate measured at the top of the floor covering	1153 mm	1153 mm	1153 mm	1153 mm	1153 mm	1153 mm	1153 mm	1153 mm
Rear opening height (CICE HDD)	704 mm	704 mm	704 mm	704 mm	704 mm	704 mm	704 mm	704 mm
Luggage floor, height to ground (CICE HDD)	610 mm	610 mm	610 mm	610 mm	610 mm	610 mm	610 mm	610 mm
Cargo floor width, rim (CICE WDD) (between wheel housings)	1100 mm	1100 mm	1100 mm	1100 mm	1100 mm	1100 mm	1100 mm	1100 mm
Rear opening width at floor, rim (CICE WDD)	1030 mm	1030 mm	1030 mm	1030 mm	1030 mm	1030 mm	1030 mm	1030 mm
Rear opening width, maximum (CICE WDD)	1162 mm	1162 mm	1162 mm	1162 mm	1162 mm	1162 mm	1162 mm	1162 mm
Cargo volume (SAE VJ)	1953 l	1953 l	1953 l	1953 l	1953 l	1953 l	1953 l	1953 l
Largest Luggage volume - First (Largest volume. Load height limited by the roof, load length limited by vertical plane tangential to the rear side of the front seatback)	1526 l	1526 l	1526 l	1526 l	1526 l	1526 l	1526 l	1526 l
Total, including under floor volume	1526 l	1526 l	1526 l	1526 l	1526 l	1526 l	1526 l	1526 l
Under floor volume, V209	77 l	77 l	77 l	77 l	77 l	77 l	77 l	77 l
Largest Luggage volume - Second (Second seat up. Load height limited by headlining. Front limited by vertical plane tangential to the rear side of the second seatback)	1953 l	1953 l	1953 l	1953 l	1953 l	1953 l	1953 l	1953 l
Total, including under floor volume	723 l	723 l	723 l	723 l	723 l	723 l	723 l	723 l
Under floor volume, V209	77 l	77 l	77 l	77 l	77 l	77 l	77 l	77 l
Open Luggage Compartment volume - Second seat up. Load height limited to the upper edge of the second seatback and second armrest	560 l	560 l	560 l	560 l	560 l	560 l	560 l	560 l
Total, including under floor volume	913 l	913 l	913 l	913 l	913 l	913 l	913 l	913 l
Under floor volume, V209	77 l	77 l	77 l	77 l	77 l	77 l	77 l	77 l
Open Luggage Compartment volume - Second seat up. Load height limited to the upper edge of the second seatback and second armrest	560 l	560 l	560 l	560 l	560 l	560 l	560 l	560 l
Under floor volume, V209	77 l	77 l	77 l	77 l	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. Optional Air Suspension	Double Wishbone Suspension, Coil Springs, Hydraulic Shock Absorbers, Stabilizer Bar. Optional Air Suspension	Double Wishbone Suspension, Coil Springs, Hydraulic Shock Absorbers, Stabilizer Bar. Optional Air Suspension	Double Wishbone Suspension, Coil Springs, Hydraulic Shock Absorbers, Stabilizer Bar. Optional Air Suspension	Double Wishbone Suspension, Coil Springs, Hydraulic Shock Absorbers, Stabilizer Bar. Optional Air Suspension	Double Wishbone Suspension, Coil Springs, Hydraulic Shock Absorbers, Stabilizer Bar. Optional Air Suspension	Double Wishbone Suspension, Coil Springs, Hydraulic Shock Absorbers, Stabilizer Bar. Optional Air Suspension
Suspension rear	Integral Axle with Independent Composite Leaf Spring, Hydraulic Shock Absorbers, Stabilizer Bar. Optional Air Suspension	Integral Axle with Independent Composite Leaf Spring, Hydraulic Shock Absorbers, Stabilizer Bar. Optional Air Suspension	Integral Axle with Independent Composite Leaf Spring, Hydraulic Shock Absorbers, Stabilizer Bar. Optional Air Suspension	Integral Axle with Independent Composite Leaf Spring, Hydraulic Shock Absorbers, Stabilizer Bar. Optional Air Suspension	Integral Axle with Independent Composite Leaf Spring, Hydraulic Shock Absorbers, Stabilizer Bar. Optional Air Suspension	Integral Axle with Independent Composite Leaf Spring, Hydraulic Shock Absorbers, Stabilizer Bar. Optional Air Suspension	Integral Axle with Independent Composite Leaf Spring, Hydraulic Shock Absorbers, Stabilizer Bar. Optional Air Suspension	Integral Axle with Independent 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	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)	16.3	16.3	16.3	16.3	16.3	16.3	16.3	16.3
Turning circle (Kerb to kerb)	11.4 m / 11.8 m	11.6 m / 11.8 m	11.4 m / 11.8 m	11.4 m / 11.8 m	11.4 m / 11.8 m	11.6 m / 11.8 m	11.4 m / 11.8 m	11.4 m / 11.8 m
Turning circle (Wall to wall)	11.8 m / 12.2 m	11.8 m / 12.2 m	11.8 m / 12.2 m	11.8 m / 12.2 m	11.8 m / 12.2 m	11.8 m / 12.2 m	11.8 m / 12.2 m	11.8 m / 12.2 m
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)	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)
Turns of steering wheel end to end	2.9 / 3.0	2.9 / 3.0	2.9 / 3.0	2.9 / 3.0	2.9 / 3.0	2.9 / 3.0	2.9 / 3.0	2.9 / 3.0
Brake disc diameter (front) (16" / 17")	296 mm / 322 mm / 345 mm	296 mm / 322 mm / 345 mm	296 mm / 322 mm / 345 mm	296 mm / 322 mm / 345 mm	296 mm / 322 mm / 345 mm	296 mm / 322 mm / 345 mm	296 mm / 322 mm / 345 mm	296 mm / 322 mm / 345 mm
Brake disc diameter (rear) (16" / 17")	302 mm / 320 mm	302 mm / 320 mm	302 mm / 320 mm	302 mm / 320 mm	302 mm / 320 mm	302 mm / 320 mm	302 mm / 320 mm	302 mm / 320 mm
Brake disc thickness (front) (16" / 17")	28 mm / 30 mm	28 mm / 30 mm	28 mm / 30 mm	28 mm / 30 mm	28 mm / 30 mm	28 mm / 30 mm	28 mm / 30 mm	28 mm / 30 mm
Brake disc thickness (rear) (16" / 17")	12 mm / 20 mm	12 mm / 20 mm	12 mm / 20 mm	12 mm / 20 mm	12 mm / 20 mm	12 mm / 20 mm	12 mm / 20 mm	12 mm / 20 mm
Brake disc diameter (PHEV) (mm)	35 m	35 m	35 m	35 m	35 m	35 m	35 m	35 m