

2018 Volvo V90 Specifications									
	V90 T4 (190 hp) aut	V90 T5 (250 hp) aut	V90 T6 AWD (310 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	B4204T31	B4204T26	B4204T29	B4204T35	D4204T9	D4204T4	D4204T14	D4204T14	D4204T23
Type	In-line, 4 cyl. turbocharged	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	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	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	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	93.2 mm
Compression ratio	10.8:1	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, no/cylinder	4 ea.	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	DOHC
Engine management system	Gasoline direct injection	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	1 - 3 - 4 - 2
Engine idling speed	875 ± 50 rpm	875 ± 50 rpm	875 ± 50 rpm	850 ± 50 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	95–98 RON	Diesel ¹	Diesel ¹	Diesel ¹	Diesel ¹	Diesel ¹
Max engine speed	6000 rpm	6000 rpm	6000 rpm	6000 rpm	4500 rpm	5000 rpm	5000 rpm	5000 rpm	5000 rpm
Max output	140 kW (190 hp) / 5000 rpm	184 kW (250 hp) / 5500 rpm	228 kW (310 hp) / 5700 rpm	235 kW (320 hp) / 5700 rpm	110 kW (150 hp) / 4700 rpm	110 kW (150 hp) / 4250 rpm	140 kW (190 hp) / 4250 rpm	140 kW (190 hp) / 4250 rpm	173 kW (235 hp) / 4000 rpm
Max torque	300 / 27 - 67 Nm / rps	350 / 30 - 80 Nm / rps	400 / 37 - 85 Nm / rps	400 / 37 - 90 Nm / rps	320 / 29 - 50 Nm / rps	350 / 25 - 42 Nm / rps	400 / 29 - 42 Nm / rps	400 / 29 - 42 Nm / rps	480 / 29 - 37 Nm / rps
Battery type	-	-	-	Lithium-ion battery	-	-	-	-	-
Battery content, total amount of energy (kWh)	-	-	-	10.4	-	-	-	-	-
Battery charging time***, at 16A / 10A / 6A type (hours) ²	-	-	-	3.0 / 4.0 / 7.0	-	-	-	-	-
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*** ³	-	-	-	-	-
Driveline max torque (Nm)	-	-	-	240 Nm + 400 Nm*** ³	-	-	-	-	-
¹ According to EN590 Maximum diesel/ae (FAEE) content 7%									
² *** Up to									
³ *** Up to									
Transmissions									
Transmissions	AW TG-81SC	AW TG-81SC	-	-	M66F / AW TF-71SC	-	M66F / AW TG-81SC	-	-
First Gear	5,250	5,250	-	-	3,583 / 4,044	-	3,583 / 5,250	-	-
Second Gear	3,029	3,029	-	-	2,050 / 2,371	-	2,050 / 3,029	-	-
Third Gear	1,950	1,950	-	-	1,267 / 1,556	-	1,267 / 1,950	-	-
Fourth Gear	1,457	1,457	-	-	0,838 / 1,159	-	0,838 / 1,457	-	-
Fifth Gear	1,221	1,221	-	-	0,617 / 0,852	-	0,617 / 1,221	-	-
Sixth Gear	1,000	1,000	-	-	0,510 / 0,672	-	0,510 / 1,000	-	-
Seventh Gear	0,809	0,809	-	-	- / -	-	- / 0,809	-	-
Eighth Gear	0,673	0,673	-	-	- / -	-	- / 0,673	-	-
Reverse Gear	4,015	4,015	-	-	2,833 / 3,193	-	2,833 / 4,015	-	-
Manual Gearbox/final drive	-	-	-	-	4,000 (gear 1-6) - 4,941 (gear R)	-	4,000 (gear 1-6) - 4,941 (gear R)	-	-
Automatic Gearbox/final drive	3,075	3,075	-	-	3,502	-	2,955	-	-
Transmissions (AWD)	-	-	AW TG-81SC	AW TG-81SD	-	AW TG-81SC	-	AW TG-81SC	AW TG-81SC
First Gear (AWD)	-	-	5,250	5,250	-	5,250	-	5,250	5,250
Second Gear (AWD)	-	-	3,029	3,029	-	3,029	-	3,029	3,029
Third Gear (AWD)	-	-	1,950	1,950	-	1,950	-	1,950	1,950
Fourth Gear (AWD)	-	-	1,457	1,457	-	1,457	-	1,457	1,457
Fifth Gear (AWD)	-	-	1,221	1,221	-	1,221	-	1,221	1,221
Sixth Gear (AWD)	-	-	1,000	1,000	-	1,000	-	1,000	1,000
Seventh Gear (AWD)	-	-	0,809	0,809	-	0,809	-	0,809	0,809
Eighth Gear (AWD)	-	-	0,673	0,673	-	0,673	-	0,673	0,673
Reverse Gear (AWD)	-	-	4,015	4,015	-	4,015	-	4,015	4,015
Automatic Gearbox / final drive (AWD)	-	-	3,200	3,200	-	3,075	-	3,075	3,075
Performance									
Performance	Automatic	Automatic	Automatic	Automatic	Manual / Automatic	Automatic	Manual / Automatic	Automatic	Automatic
Gearbox	AW TG-81SC	AW TG-81SC	AW TG-81SC	AW TG-81SD	M66F / AW TF-71SC	AW TG-81SC	M66F / AW TG-81SC	AW TG-81SC	AW TG-81SC
Acceleration, 0-100 km/h	8.9 sec	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	210 km/h	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)	6.9 l/100km	6.8 l/100km	7.4 l/100km	2.0 l/100km	4.5 l/100km (4.4 l/100km *) / 4.5 l/100km (4.4 l/100km *) ¹	4.9 l/100km	4.5 l/100km / 4.5 l/100km *) ¹	4.9 l/100km	4.9 l/100km
CO ₂	156 g/km	156 g/km	169 g/km	46 g/km	119 g/km (116 g/km *) / 119 g/km (116 g/km *) ¹	128 g/km	119 g/km / 119 g/km (117 g/km *) ¹	128 g/km	129 g/km
¹ * = Restricted offer									
Measurements and Volumes									
Lengths	4936 mm	4936 mm	4936 mm	4936 mm	4936 mm	4936 mm	4936 mm	4936 mm	4936 mm
Width (Body width)	1870 mm	1879 mm	1879 mm	1879 mm	1879 mm	1879 mm	1879 mm	1879 mm	1879 mm
Width (door moldings)	1890 mm	1890 mm	1890 mm	1890 mm	1890 mm	1890 mm	1890 mm	1890 mm	1890 mm
Width (incl mirrors, folded)	1895 mm	1895 mm	1895 mm	1895 mm	1895 mm	1895 mm	1895 mm	1895 mm	1895 mm
Width (including mirrors, outer edge)	2019 mm	2019 mm	2019 mm	2019 mm	2019 mm	2019 mm	2019 mm	2019 mm	2019 mm
Height (including wheel fin antenna)	1475 mm	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	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	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	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	153 mm
Wading capability (depth of submersion, weight (at walking speed))	250 mm	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/Miscellaneous									
Weight (Depending on type of engine, gearbox etc.)	1697 kg - 2038 kg	1693 kg - 2042 kg	1693 kg - 2042 kg	1697 kg - 2038 kg	1697 kg - 2038 kg	1697 kg - 2038 kg	1697 kg - 2038 kg	1697 kg - 2038 kg	1697 kg - 2038 kg
Total Weight (Depending on type of engine, gearbox etc.)	2260 kg - 2620 kg	2260 kg - 2620 kg	2260 kg - 2620 kg	2260 kg - 2620 kg	2260 kg - 2620 kg	2260 kg - 2620 kg	2260 kg - 2620 kg	2260 kg - 2620 kg	2260 kg - 2620 kg
Max trailer weight, Unbraked (Max)	750 kg	750 kg	750 kg	750 kg	750 kg	750 kg	750 kg	750 kg	750 kg
Max trailer weight, Braked (Max)	1800 kg	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	55 l	60 l	50 l	-	-	-	-	-
Fuel tank, Diesel	-	-	-	-	55 l	60 l	55 l	60 l	60 l
Aerodynamics, (Cd)	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	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	2,30 m²
Max roof load	100 kg	100 kg	100 kg	100 kg	100 kg	100 kg	100 kg	100 kg	100 kg
¹ * 1000kg required, otherwise 1800 kg									
Interior Measurements									
Headroom with panoramic sunroof (front/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	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	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	1006 mm
Headroom maximum, without panoramic sunroof (front)	1026 mm	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	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	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	1432 mm / 1416 mm
Cargo length from the first seatback to the first seatback to the tailgate measured at the top of the first seatback	1812 mm	1812 mm	1812 mm	1812 mm	1812 mm	1812 mm	1812 mm	1812 mm	1812 mm
Cargo length from the first seatback to the second seatback to the tailgate measured at the height of the floor covering	1988 mm	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 measured at the top of the second seatback	890 mm	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 height of the floor covering	1153 mm	1153 mm	1153 mm	1153 mm	1153 mm	1153 mm	1153 mm	1153 mm	1153 mm
Rear opening height (GCIE H202)	704 mm	704 mm	704 mm	704 mm	704 mm	704 mm	704 mm	704 mm	704 mm
Luggage floor, height to ground (GCIE H253)	610 mm	610 mm	610 mm	610 mm	610 mm	610 mm	610 mm	610 mm	610 mm
Cargo floor width, min. (GCIE W202) (between wheel housings)	1100 mm	1100 mm	1100 mm	1100 mm	1100 mm	1100 mm	1100 mm	1100 mm	1100 mm
Rear opening width at floor, min. (GCIE W207)	1030 mm	1030 mm	1030 mm	1030 mm	1030 mm	1030 mm	1030 mm	1030 mm	1030 mm
Rear opening width maximum (GCIE W206)	1162 mm	1162 mm	1162 mm	1162 mm	1162 mm	1162 mm	1162 mm	1162 mm	1162 mm
Cargo volume (SAE V2)	1953 l	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 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	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	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	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	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	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	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	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	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	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	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	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	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	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,				