

V-Strom 650

Specifications

		V-Strom650
Overall length		2290mm (90.2in)
Overall width		840mm (33.1in)
Overall height		1390mm (54.7in)
Wheelbase		1540mm (60.6in)
Ground clearance		165mm (6.5in)
Seat height		820mm (32.3in)
Dry mass		189kg (417lbs)
Engine type, valve system		4-stroke, 90°V-Twin/DOHC, 4-valve
Displacement		645cc
Bore x stroke		81.0×62.6mm
Compression ratio		11.5:1
Cooling system		Liquid-cooled
Combustion chamber shape		TSCC (Twin Swirl Combustion Chamber)
Engine red zone (meter indicated)		10,500rpm
No. of valves per cylinder		4
Valve actuation system		Direct actuation, chain cam drive
Valve adjustment intervals		24,000km
Intake valve	No. per cylinder	2
	Valve angle	14°
	Diameter	31mm
	Stem diameter	4.5mm
	Maximum lift	8.7mm
	Opening/closing timing	Open at BTDC 28° Close at ABDC 62°
Exhaust valve	No. per cylinder	2
	Valve angle	16°
	Diameter	25.5mm
	Stem diameter	4.5mm
	Maximum lift	7.3mm
	Opening/closing timing	Open at BBDC 62° Close at ATDC 24°
Fuel tank capacity		22.0L
Fuel delivery system type		Electronically controlled fuel-injection system
Throttle valve size		39mm
Air filter shape		Panel type
Exhaust system type		2-into-1
Lubrication system		Wet sump
Lubricant	Oil change	2,300ml
	Filter change	2,700ml
	Overhaul	3,100ml
Coolant capacity		1.9L

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Transmission type		6-speed, constant-mesh
Clutch type		Wet multi-plate, coil spring
Clutch actuation system		Wire type
Clutch spring type		Coil spring
No. of clutch springs		6
No. of clutch plates	Drive	7
	Driven	6
Primary drive gear ratio		2.088 (71/34)
Final drive gear ratio		3.133 (47/15)
Gear ratio	6th	0.851 (23/27)
	5th	0.961 (25/26)
	4th	1.125 (27/24)
	3rd	1.380 (29/21)
	2nd	1.777 (32/18)
	1st	2.461 (32/13)
Total reduction ratio	6th	5.574
	5th	6.291
	4th	7.906
	3rd	9.036
	2nd	11.632
	1st	16.106
Frame type		Twin-spar (aluminium-alloy)
Caster angle		26°
Trail		110mm
Steering angle (left & right)		40°
Minimum turning radius		2.6m
Front fork	Suspension type	Telescopic
	Stanchion tube diameter	43mm
	Spring preload adjustment	Fully adjustable
	Front wheel stroke	150mm
Rear cushion unit	Suspension type	Link type
	Spring preload adjustment	Fully adjustable (Hydraulic remote control)
	Rear cushion unit stroke	71mm
	Rear wheel travel	150mm
Front brake	Type	Tokico hydraulic pin-slide 2-piston, dual discs
	Disc diameter	310mm
	Lever adjustment	6-way adjustable
Rear brake	Type	Nissin hydraulic pin-slide 1-piston
	Disc diameter	260mm
Front wheel		19M/C×MT2.50
Rear wheel		17M/C×MT4.00
Front tire	Size	110/80R19 M/C 59H
	Brand	Bridgestone TW101T
Rear tire	Size	150/70R17 M/C 69H
	Brand	Bridgestone TW152F
Ignition type		Fully transistorized
Headlight bulb		12V 60/55W×2
Position light bulb		12V 5W×2