

# 2019

## GSX-S1000Z



METALLIC MATTE BLACK NO.2

## GSX-S1000Z

- // The 999cc engine has a new throttle system to smoothly deliver torque-rich power
- // Suzuki Clutch Assist System (SCAS) drive line smooths shifting and engine braking
- // Suzuki Advanced Traction Control\* lets the rider select sensitivity to match road conditions
- // Twin-spar aluminum frame and adjustable KYB suspension delivers controlled handling
- // Brembo Monobloc front brake calipers plus an Anti-lock Brake System (ABS)\*\* deliver controlled stopping power
- // Aggressive styling is bundled with an ergonomically comfortable yet sporty riding position

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# GSX-S1000Z



AS MUCH AS A GSX-R1000 OWNS THE RACETRACK, THE 2019 GSX-S1000Z OWNS THE STREET. DEVELOPED USING THE ATTRIBUTES OF THE CHAMPIONSHIP-WINNING 2005-2008 GENERATION GSX-R1000 ENGINE, THIS NAKED SPORTBIKE CARRIES SUZUKI'S PERFORMANCE SPIRIT TO EVERY RIDE. THE GSX-R CONNECTION DOES NOT STOP THERE, AS THE GSX-S1000 SHARES OTHER CHASSIS TECHNOLOGY AND COMPONENTS SO THIS BIKE CAN CARVE UP THE CORNERS WHILE PROVIDING ALL-DAY RIDING COMFORT.

IT'S MORE THAN JUST AN ATTITUDE, A SPIRIT, OR A LINEAGE THOUGH; IT'S ABOUT PERFORMANCE-PACKED HARD PARTS EVOLVING FROM ONE GENERATION TO THE NEXT. THE GSX-S1000Z'S 999CC INLINE FOUR-CYLINDER POWERPLANT IS BASED ON THE LEGENDARY LONG-STROKE GSX-R1000 ENGINE. THAT GENERATION ENGINE IS THE IDEAL CHOICE TO BUILD A LITER-CLASS, NAKED SPORTBIKE AROUND, AS IT MAKES STRONG PEAK POWER WITH A ROBUST TORQUE CURVE THAT DELIVERS STREET-DOMINATING POWER.

FOR 2019, FURTHER REFINEMENT TO THE ENGINE'S THROTTLE CONTROL MECHANISM HELPS THE RIDER SMOOTHLY APPLY THE POWER ON ANY TYPE OF ROAD. THERE ARE ELECTRONIC RIDER AIDS LIFTED FROM SUZUKI'S SUPERSPORT BIKES, SUCH AS THE SUZUKI ADVANCED TRACTION CONTROL SYSTEM\*, PLUS THE SUZUKI EASY START AND LOW RPM ASSIST SYSTEMS.

THE CHASSIS ALSO BENEFITS FROM GSX-R INFLUENCE THROUGH THE FULLY ADJUSTABLE, INVERTED KYB FORK AND EASY-TO-ADJUST REAR SHOCK. STOPPING PERFORMANCE IS STELLAR VIA THE DUAL, ABS-EQUIPPED\*\* RADIAL-MOUNTED, FOUR-PISTON FRONT CALIPERS AND 310MM FLOATING ROTORS.

THE WIDE RENTHAL FATBAR HANDLEBAR PROVIDES A COMFORTABLE REACH AND THE PROPER LEVERAGE TO HUSTLE THE GSX-S1000Z THROUGH THE CORNERS. TOP THAT CHASSIS PERFORMANCE OFF WITH AGGRESSIVE STYLING COATED WITH METALLIC MATTE BLACK PAINT AND A FULLY BLACKED OUT ENGINE AND CHASSIS TREATMENT, YOU HAVE A NAKED SPORTBIKE READY TO ATTACK THE ROAD AS IT TURNS HEADS ON THE STREET.

## GSX-S1000Z / FEATURES

### KEY FEATURES

- // Fuel injected 999cc, GSX-R-based engine has a new throttle control mechanism to smooth out the power delivery for 2019 to deliver a stimulating sportbike experience.
- // Using a design similar to the GSX-R1000R, the GSX-S1000Z's Suzuki Clutch Assist System (SCAS) drive line smooths shifting and engine braking.
- // Suzuki Advanced Traction Control\* lets the rider select sensitivity on the fly so engine power to the rear wheel matches road conditions.
- // Twin-spar aluminum frame and fully adjustable KYB-supplied suspension delivers controlled handling.
- // Dual floating front brake rotors and Brembo Monobloc brake calipers, plus an Anti-lock Brake System (ABS)\*\*, deliver controlled stopping power. Recent refinements, such as new front brake hoses, yield improved stopping performance with better feel at the lever.

### ENGINE FEATURES

- // The strong, four-stroke, liquid-cooled, DOHC, 999cc inline-four engine is designed to provide smooth throttle response and controlled acceleration.
- // Ventilation holes between the cylinders reduce pumping loss within the crankcase so the engine can deliver more power and torque.
- // Long-stroke GSX-R engine design has broad low- to mid-range power and torque that is ideal for street riding.
- // The profiles of the dual overhead camshafts were designed to enhance street performance while preserving peak, racetrack-capable power.
- // Aluminum pistons, engineered with use of Finite Element Method (FEM) analysis, are cast with optimal rigidity and weight.
- // Suzuki Composite Electrochemical Material (SCEM)-plated cylinders integrated into the upper crankcase reduce friction and improve heat transfer and durability.
- // The EFI system uses Suzuki's proprietary SDTV (Suzuki Dual Throttle Valve) throttle bodies where the secondary throttle valves are controlled by a servo motor for smooth power delivery.
- // Long-tip, 10-hole fuel injectors on each 44mm throttle body improve fuel atomization while the automatic Idle Speed Control (ISC) improves cold starting and stabilizes the engine idle.
- // The digital ignition fires iridium-type spark plugs that increase spark strength and combustion efficiency, contributing to higher power, more linear throttle response, easier engine start-up, and a more stable idle. These quality components also last longer than conventional spark plugs.

- // The stainless steel, 4-2-1 exhaust system helps the engine deliver a strong low- to mid-range punch with an exciting rush to redline.
- // The Suzuki Exhaust Tuning (SET) system—equipped mid-muffler design enhances style and aids in mass centralization for great chassis balance.
- // The sculpted muffler has a pleasing appearance that's not common to under-chassis exhausts while creating an exciting, distinctive sound.
- // Suzuki's Advanced Traction Control System\* lets the rider control the throttle with more confidence in various riding conditions. As a result, the rider can enjoy sport riding with less anxiety. There are four traction control modes (1, 2, 3, and OFF) that the rider can easily adjust at rest or on the fly via a handlebar-mounted control. The difference between the modes is their sensitivity to road conditions.
  - Mode 1 is the lowest sensitivity level; most suitable for skilled riders or in conditions that have good road surface grip (sport riding on good, smooth roads).
  - Mode 2 is a moderate sensitivity level; suitable for most riders or in conditions that have varied road surface grip (city riding, regular road conditions).
  - Mode 3 is the highest sensitivity level; suitable for road conditions where the grip may be limited (wet or cold surfaces).
  - OFF disengages all traction control features.
- // Angular radiator shrouds efficiently guide cooling air to the high-capacity curved radiator. Additional heat is removed from the engine via the use of a lightweight and compact liquid-cooled oil cooler (like those used on the GSX-R models).

### TRANSMISSION FEATURES

- // The race-proven six-speed close-ratio transmission features vertically staggered shafts to reduce overall engine length.
- // The SCAS clutch increases plate pressure under acceleration yet acts as a slipper clutch to smooth the engine response during engine braking and corner entry.
- // This large-diameter, wet multi-plate clutch uses a precise cable-activated release, providing the rider with superb friction-point feel.
- // The precise shift linkage helps the rider easily and quickly select the best gear for the riding conditions.
- // The strong, RK-supplied drive chain uses O-rings to preserve internal lubrication so power is transmitted smoothly and quietly.

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# GSX-S1000Z



## GSX-S1000Z / FEATURES

### CHASSIS FEATURES

- // Lightweight and compact chassis is engineered to be agile and fun to ride for a wide range of riders. This ability starts with the low-mass rigid aluminum main frame coupled with the strong aluminum alloy swingarm.
- // The 43mm inverted KYB forks have adjustable compression and rebound damping, and spring preload with a generous 120mm (4.7 inches) of front wheel travel.
- // Link-type rear suspension, with arched aluminum swingarm and a single shock absorber that features spring preload that is seven-way adjustable with rebound damping force adjustment.
- // Dual front brakes with fully floating 310mm discs and Brembo Monobloc calipers with four 32mm opposed pistons provide strong and consistent stopping power.
- // The front brakes are complemented by a 240mm rear disc brake with a Nissin single-piston caliper to help make sure you can have controlled stops.
- // Both the front and rear brakes can be modulated by a compact Anti-lock Brake System (ABS)\*\* controller to match stopping force to the available traction.
- // Unique to the GSX-S1000 models, the TRP six-spoke lightweight cast aluminum wheels are shod with Dunlop radial tires (120/70ZR17 front and 180/50ZR17 rear).
- // Matte black aluminum Renthal Fatbar handlebar is standard equipment offering excellent riding ergonomics with great vibration damping.
- // The reasonable sport riding position is created by a carefully crafted relationship between the Renthal Fatbar, footrests, and seat.
- // New black finish on the shifter, rear brake, and both hand levers matches the performance nature of the motorcycle.
- // The low seat height of 815mm (32 inches) contributes to the sporty yet upright riding position and aids rider confidence at stops.
- // The GSX-S1000Z's naked roadster bodywork is designed to look wild, rugged, and aggressive – and to keep the rider comfortable at all times.

### ELECTRICAL FEATURES

- // The GSX-S1000 models premiered Suzuki's Easy Start System that requires just a simple touch of the starter button to fire up the engine (without pulling the clutch lever if the transmission is in neutral).
- // Distinctively shaped headlight nacelle contains a bright 60/55-watt H4 halogen bulb. The tail section houses an integrated LED tail light with clear lens.
- // The lightweight and compact instrument set uses an LCD display that includes speedometer, tachometer, odometer, dual trip meters, gear position, coolant temperatures, driving range, average fuel consumption, instantaneous fuel consumption, traction control, and a clock function.
- // The display has an adjustable-intensity, white-color backlight for great nighttime visibility and is flanked by LED indicators for the turn signals, high beam, malfunction, traction control, and ABS, plus coolant temperature and oil pressure alerts.

### ADDITIONAL FEATURES

- // A variety of Genuine Suzuki Accessories, such as a solo seat cowl and sport screen, are available, plus a large selection of logo apparel.
- // Suzuki 12-month limited warranty. Longer coverage periods with other benefits available through Suzuki Extended Protection (SEP).
- // For more details, please visit [www.suzukicycles.com](http://www.suzukicycles.com).

*\* The traction control system is not a substitute for the rider's throttle control. It cannot prevent loss of traction due to excessive speed when the rider enters a turn and/or applies the brakes. Neither can it prevent the front wheel from losing grip.*

*\*\* Depending on road surface conditions, such as wet, loose, or uneven roads, braking distance for an ABS-equipped vehicle may be longer than for a vehicle not equipped with ABS. ABS cannot prevent wheel skidding caused by braking while cornering. Please drive carefully and do not overly rely on ABS.*

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## GSX-S1000Z



## GSX-S1000Z / SPECS

### ENGINE

|                           |  |
|---------------------------|--|
| <b>Engine:</b>            | 999cc, 4-stroke, liquid-cooled, 4-cylinder, DOHC |
| <b>Bore x Stroke:</b>     | 73.4 mm x 59.0 mm (2.890 in. x 2.323 in.)        |
| <b>Compression Ratio:</b> | 12.2:1   |
| <b>Fuel System:</b>       | Suzuki fuel injection with SDTV                  |
| <b>Starter:</b>           | Electric   |
| <b>Lubrication:</b>       | Wet sump   |

### DRIVE TRAIN

|                      |                            |
|----------------------|----------------------------|
| <b>Transmission:</b> | 6-speed constant mesh      |
| <b>Clutch:</b>       | Wet, multi-plate SCAS type |
| <b>Final Drive:</b>  | Chain, RK525GSH, 116 links |

### CHASSIS

|                            |  |
|----------------------------|--|
| <b>Suspension, Front:</b>  | Inverted telescopic, coil spring, oil damped     |
| <b>Suspension, Rear:</b>   | Link type, single shock, coil spring, oil damped |
| <b>Brake, Front:</b>       | Brembo, 4-piston, twin disc, ABS-equipped        |
| <b>Brake, Rear:</b>        | Nissin, 1-piston, single disc, ABS-equipped      |
| <b>Tire, Front:</b>        | 120/70ZR17M/C (58W), tubeless                    |
| <b>Tire, Rear:</b>         | 190/50ZR17M/C (73W), tubeless                    |
| <b>Fuel Tank Capacity:</b> | 17.0 L (4.5 US gal.)                             |

### ELECTRICAL

|                    |                                      |
|--------------------|--------------------------------------|
| <b>Ignition:</b>   | Electronic ignition (transistorized) |
| <b>Spark Plug:</b> | NGK CR9EIA-9 or DENSO IU27D          |
| <b>Headlight:</b>  | 12V 60/55W (H4)                      |
| <b>Taillight:</b>  | LED                                  |

### DIMENSIONS

|                          |   |
|--------------------------|---|
| <b>Overall Length:</b>   | 2115 mm (83.3 in.)                            |
| <b>Overall Width:</b>    | 795 mm (31.3 in.)                             |
| <b>Overall Height:</b>   | 1180 mm (46.5 in.)                            |
| <b>Wheelbase:</b>        | 1460 mm (57.6 in.)                            |
| <b>Ground Clearance:</b> | 140 mm (5.5 in.)                              |
| <b>Seat Height:</b>      | 810 mm (31.9 in.)                             |
| <b>Curb Weight:</b>      | 209 kg (461 lb.)<br>210 kg (463 lb.) CA model |



2019 SUZUKI SPORT

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