

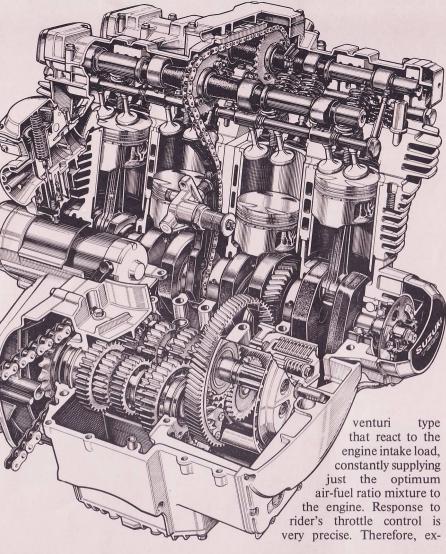


What fundamentally supports the masterly performance of the GSX1100E is the 16-valve DOHC 4-cylinder engine utilizing SUZUKI's original TSCC mechanism that created a great sensation upon making debut. It more than meets the requirements of a high performance bike, such as, acceleration, SS1/4 mile, maximum speed, and everything else.

In the SUZUKI 4-valve per cylinder DOHC engine, inertial weight of each valve is kept very light to accomplish high speed revolutions. which, in turn, ensure efficient intake. SUZUKI's unique combustion chamber TSCC (Twin Swirl Combustion Chamber), consisting of adjoining semihemispherical depressors, then explodes the intook air-fuel mixture at a fantastically improved combustion rate. Together, they have realized a wide power range from low-tohigh speeds, very stable output, and improved fuel economy. Maximum output is 73.3 kW (98 HP)/8,700 rpm, and maximum torque 85.2 N.m (8.69 Kgm)/6,500 rpm – a capacity that of a true superbike.

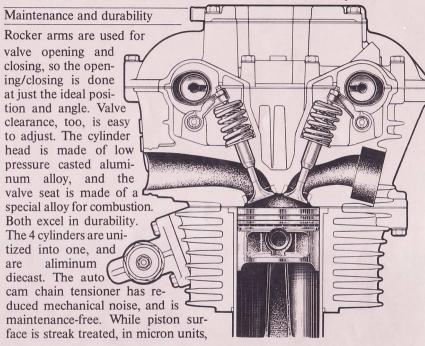
Intake, exhaust, and ignition system that greatly contributes to engine performance

Four SU carburetors supply air-fuel mixture to the ideal combustion chamber. The carburetors are variable

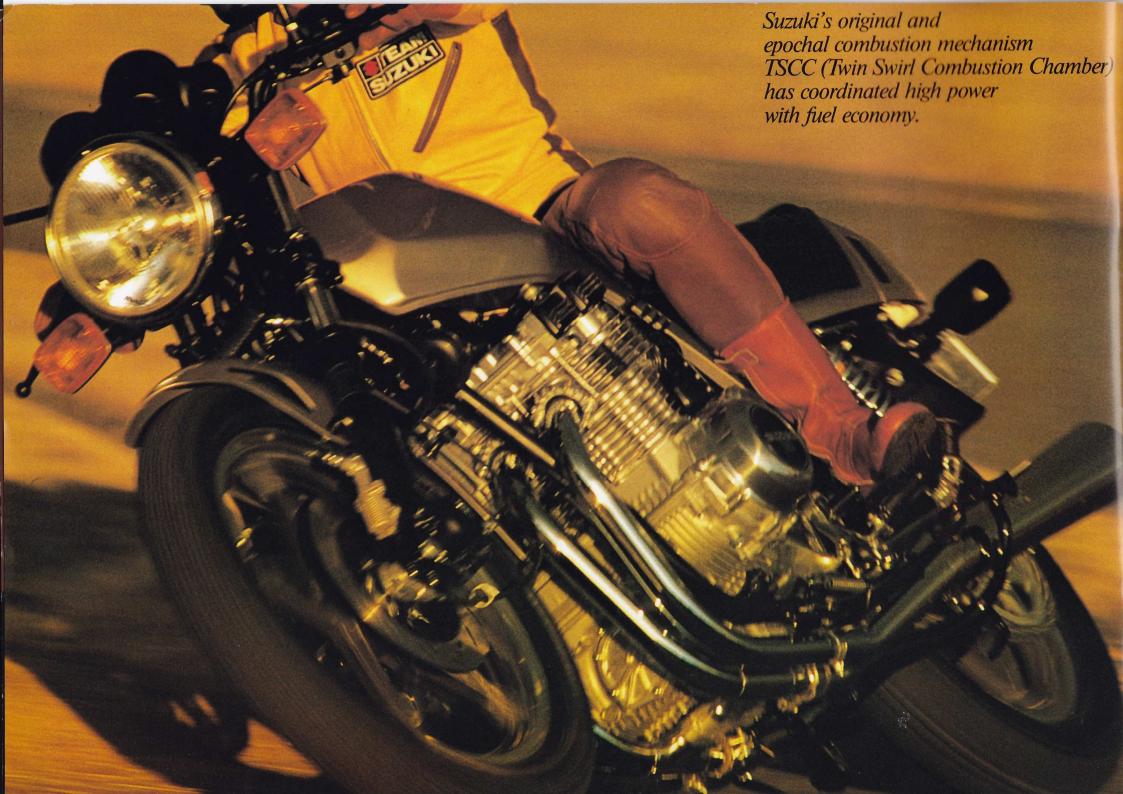


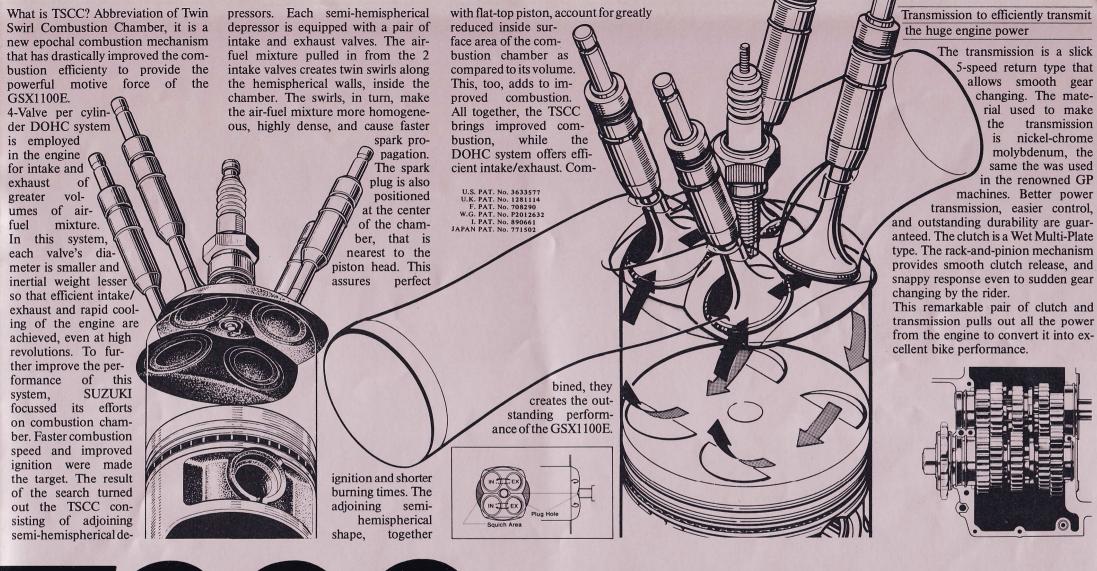
cellent response even to sudden acceleration is guaranteed. Additionally, a full transistorized ignition system, having no mechanical contacts and possessing precise and powerful ignition characteristics, is used. The muffler is a 4-into-2 type having left-right linked chamber. Improved torque is obtained at low-to-medium speeds. All these outstanding medium speeds. All these outstanding features culminate in a very functional bike having a 4-stroke high output engine of topmost performance.

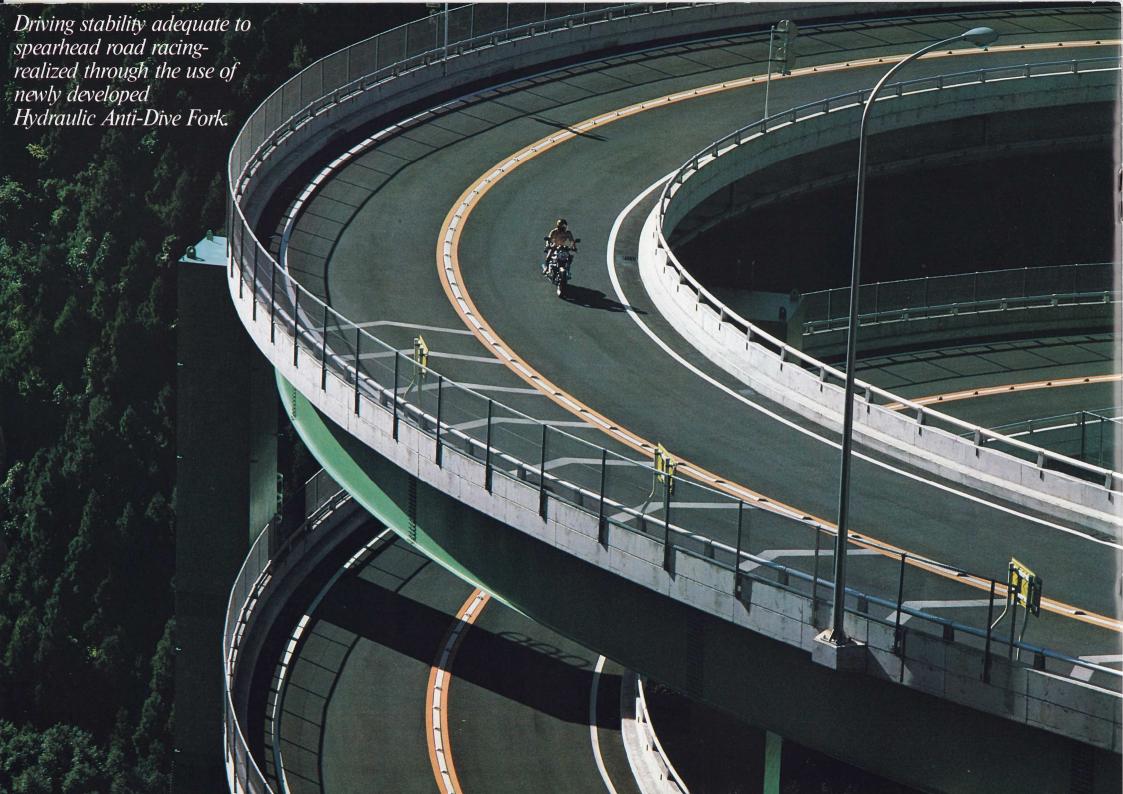
to improve its sliding quality against the cylinder lining. The top piston ring is made of highly wear-resistant stainless steel. Needle roller bearings, originally used in the road racer, are used in the crank shaft. Resistance is very much reduced, and make the crank shaft very suited to high speed revolutions. Each of these features indicates that SUZUKI does not merely stop at seeking higher and higher performance, but constantly endeavours to make the performance more and more reliable and perfect.











When braking on corners or at times of sudden braking, the amount of load distribution on the front wheel increases. As a result, the front fork is subject to stroke, that is its spring compressed by an amount equal to the increased load distribution. Also, the rear wheel tends to float due to the moment, causing distortion of the rider's posture and eveview thereby adversely affecting the stability and balance of the motorcycle. To prevent this type of diving motion, SUZUKI has developed the Hydraulic Anti-Dive Fork. Its usefulness is proven in the champion machine RG500. In GSX1100E, this remarkable feature has been incorporated to enable the machine to exhibit its performance fully. To diminish the diving motion. conventionally there was no alternative but to keep the suspension setting hard. That is, riding comfort had to be compromised. These 2 mutually adverse elements are coordinated by the Hydraulic Anti-Dive Fork.

In this Hydraulic Anti-Dive Fork, as the inner tube slides down at times of braking the oil in the lower part of the fork enters into it.

By regulating the flow route of fork oil, the load imposed due to the dive can be sustained by the oil pressure. When the front brake is applied, the brakeoil is forced into a modulator, which in turn pushes out the plunger with a pressure matching that created by the braking. As the plunger is

pushed out, the fork oil flowing between valve and the relief valve is regulated whereby the load imposed by the drive gets absorbed, making the suspension momentarily hard.

If the front wheel receives a hard shock from the ground surface while braking, the relief valve spring gets compressed by an amount corresponding to the shock load, which then opens the relief valve to dampen out the shock.

What's more, the fork employs air/coil springs. By regulating the air pressure, preload can be adjusted steplessly. Damping force, too, is adjustable to 4 different levels. To sum up, the fork is easily adjusted to a setting best suited to the encountered ground terrain and running conditions.

The development of this Hydraulic Anti-Dive Fork has now made it possible to overcome the dive problem

while keeping the suspension setting soft. Riding comfort is not in the least compromised, while improved running stability is accomplished. The rider's posture and eveview remain undisturbed, and while braking on night rides the head lamp beam no more faces

down. Inefficiency of rear brake performance and the loss of vehicle stability both caused by the floating of the rear wheel is

greatly reduced.

Rear suspension to dampen out shocks

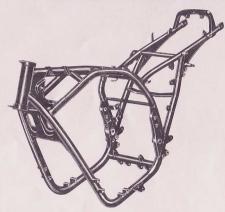
The rear shock absorber is an all-round type permitting 5-stage spring preload adjustments and 4-stage damping force adjustments. The result is a suspension that provides just the precise adjustments needed for ground conditions encountered. Full attention has also gone in to preventing any obstruction of its smooth stroke. In touring, sports riding, and in everything alike, the suspension system infallibly responds to requirements, precisely according to the riders choice.

Sturdy double cradle frame

The frame is the proven double cradle type. Made of high tensile strength steel pipes, it is both lightweight and very rigid. The lightweight feature, which allows stable handling of the bike, is further enhanced by the use of rectangular (cross-section) aluminium pipes for the swinging arm, needle bearings for its pivot, and tapered needle bearings in the steering head.

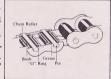
Drive chain excelling in durability

SUZUKI is one of the first makers to

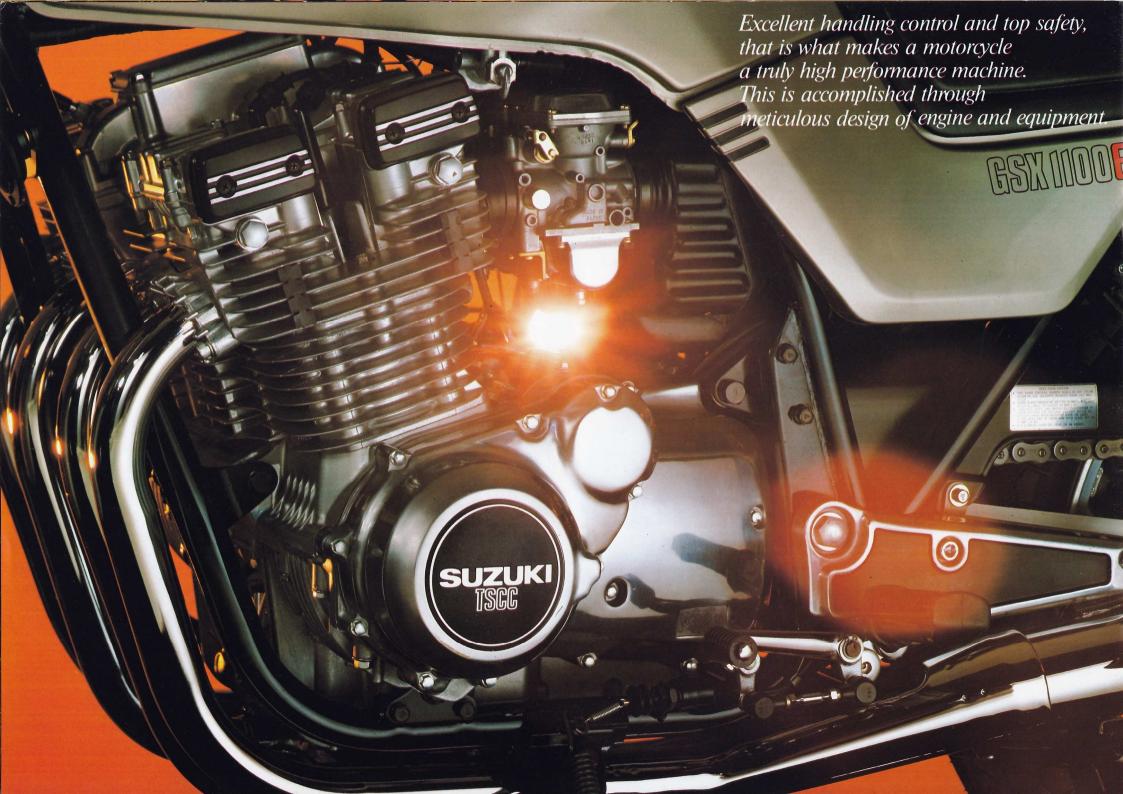


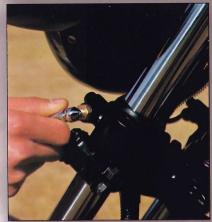
offer grease-sealed drive chain. With molybdenum grease sealed between

its pin and bush, the drive chain offers minimum operating resistance and long durability.









A hydraulic anti-dive fork using air/coil springs is stepless adjustable. And damping force is 4 levels adjustable.



An all-round type rear suspension permits 5-stage spring preload and 4-stage damping force adjustments.



Large 200 mm head lamp of new design. Supplying voluminous light, it bring safety to night journeys.



Frequently used switches are clustered on the left handebar. Both functionality and manupulating ease.



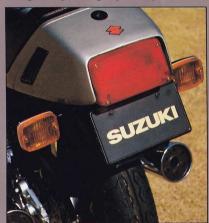
The fuel tank shaped to bring natural knee-grip comes with a reserve cock and fuel meter.



Dual perforated disc brakes on the front and a single one on the rear assure positive braking.



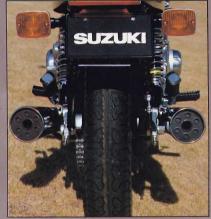
Large size speedometer and tachometer with convenient indicators for turn-signals and other indications.



A 2-bulb tail lamp and 23 watt turnsignals provide adequate indications to other drivers.



Atruly comfortable soft-hard two layer seat for 2 persons, carrying a convenient keylock, too.



The muffler is a left-right chamber linked muffler and the tyres are of rugged V-specification.

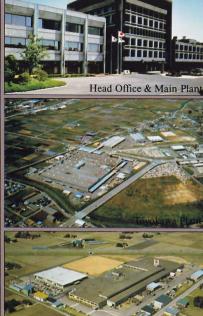


The RG500 claimed 6 consecutive manufacturers championships, in the highest 500cc class, of the 1976 to 1981 GP road race. Another 7 consecutive championships claimed in the 125cc class of Motocross GP. And now, GS1000 based machine won manufacturer's championship in Tourist Trophy world championship races. The high grade technological experience gained in the course of these radiant accomplishments does very much reflect in SUZUKI's marketted motorcycles. Race accomplishments are proof-enough of performance and quality that eventually constitute the basis for producing everbetter motorcycles. Aside from this feedback technology SUZUKI, research and development for all the more better performance and quality never stops. The innovative technology derived through this rigorous search is then employed to produce motorcycles in an up-to-date modern factory, equipped with elaborate assembly lines and stringent quality controls. SUZUKI is firmly dedicated to produce high quality motorcycles that have gained reputation around the world. It is this fastidiout dedication of SUZUKI that has gone in to produce the fabulous superbike GSX1100E.











GSX1100E SPECIFICATIONS DIMENSIONS AND DRY MASS 2,225 mm (87.6 in) Overall length Overall width 770 mm (30.3 in) 1.165 mm (45.9 in) Overall height 1.510 mm (59.4 in) Wheelbase 155 mm (6.1 in) Ground clearance 237 kg (522 lbs) Dry mass PERFORMANCE Maximum horsepower 82.6 kW (111 Hp) at 8,500 r/min (SAE, NET) 96.1 N.m. (9.80 kg·m, 70.9 lb·ft) at 6,500 r/min Maximum torque ENGINE Four-stroke cycle, air-cooled, DOHC, TSCC Type Number of cylinders Bore Stroke

66.0 mm (2.598 in) 1074 cm³ (65.5 cu.in) Piston displacement Compression ratio MIKUNI BS34SS, four Carburetor Paper element Air cleaner

Starter system Wet sump Lubrication system TRANSMISSION

Wet multi-plate type 5-speed constant mesh Transmission Gearshift pattern 1-down, 4-up

Telescopic, pneumatic/coil spring 4-way adjustable, 4-way oil dampened with Anti-Dive Front suspension Rear suspension

Swinging arm, oil dampened, damper 4-way/spring 5-way Front brake Disc brake, twin Disc brake

Rear brake 3.50V19-4PR Front tyre size 4.50V17-4PR Rear tyre size ELECTRICS

Transistorized CAPACITIES Fuel tank including reserve 22 L (5.8/4.8 US/Imp gal) Engine oil 3.2 L (3.4/2.8 US/Imp qt) Engine oil

Fantasic copper gold

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Reliable Suzuki Loved by People

in 150 Countries in the World.



Since its foundation in 1920, Suzuki has been supplying the world with valuepacked products endorsed by numerous achievements and high-level techniques. A wide range of products.

Motorcycles with champion's pride and experience obtained in the world's famous, most gruelling GP races. Low conscious automobiles which will lead the future small-car market. Outboard motors which have won high reputation in durability, lightweight construction, high performance and easy operation. What is more, Suzuki products extend to generators, general-purpose engines, motorized wheelchair for handicapped

persons as well. They are all product lineups which defacturer of transportation machines.

Suzuki will continue to supply products loved and trusted by people in the world, with high-advanced technology.

