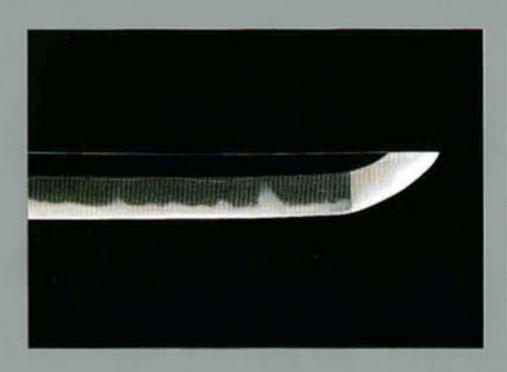






SUZUKI

## Suzziki GS650G 'KATANA' The embodiment of the centuries old traditions of Japan's master swordsmiths in a work of beauty and mechanical precision.





Of all the things created by the Japanese over the ages, many believe the Japanese sword or "KATANA" to be their greatest cultural asset. To the Japanese, it is the embodiment of their ability to find the artistic in everything while at the same time keeping firmly in mind practical limits. This was especially true of the development of the Japanese sword. On the one hand, the steel of which it was forged had to be soft in order that it not break easily. On the other, it had to be hard so that the sword would cut cleanly without bending. To meet these conditions, a whole new steel making technology was evolved which together with the constant pursuit of beauty resulted in the Japanese sword. This is the kind of thinking that lead to the development

of the Suzuki GS650G sports motorcycle, appropriately named 'KATANA'.

The appropriateness of the name is even more apparent when you look at the GS650G 'KATANA. First, in the beauty of its sharp, functional lines into which so much power and performance have been compacted. Next, in the challenging aggressiveness of its newly developed engine that like the hard/soft steel of the sword blade is responsive to the conflicting needs of both high and low speed power demands. And then in the coiled strength of its suspension system that offers both comfort and performance.

The Suzuki GS650G 'KATANA'. Created by Suzuki for a very special breed of sports riders

## Hydraulic Anti-Dive Fork and Twin Dome Combustion Chamber writes a new chapter in motorcycle performance.

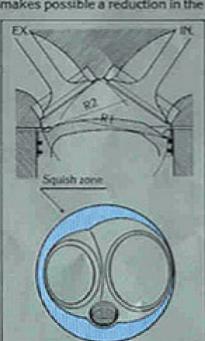


by a large conical squish zone. · Each of the two domes has an arc shaped profile that was developed after exextensive perimental test-

ing. When com-

pared to a hemispherical combustion chamber, intake and exhaust gases flow more smoothly without separation resulting in improved intake and exhaust system efficiency.

 Combustion is also improved due to the dome profile. The air / fuel mixture entering the combustion chamber swirls around the walls of the chamber, ensuring that the air and fuel are uniformly distributed. In addition, the design enables a flatter piston head in order to minimize disturbance of the swirl. The Twin Dome Combustion Chamber design also makes possible a reduction in the



to a

hemi-

spherical

type combustion

chamber, allows the

volume of the combustion chamber. In this way the Suzuki designers were able to provide both a high compression ratio and exceptional swirl characteristics.

 Just before the completion of the compression stroke, the gas mixture is expelled via a large squish zone. As the Twin Dome Combustion, Chamber Design, when com pared

that the spark occurs closer to the center of the combustion chamber the engine offers faster combustion and shorter burn time. Engine performance is thereby greatly enhanced.

· During subsequent strokes, the swirl characteristics in the combustion cham-

ber and the

smooth

dome on the exhaust

valve side result

in better exhaust

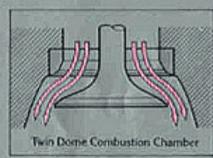
efficiency.

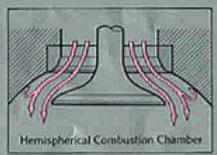
spark plug to be so positioned stroke is reduced, the high com-

Additionally, if the overlap

with the subsequent intake

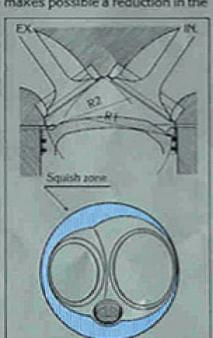
bustion efficiency of the economical operation Twin Dome Combustion Chamber engine provides power to spare.





## Performance and Quick Response

Performance, especially high performance from a motorcycle engine requires more than simple high power output. It also goes beyond the kind of high fuel efficiency people expect today to include such things as quick and positive throttle response. And that's the kind of overall performance you can expect from the GS650G. The new high performer in the incomparable Suzuki GS line up.



Shaft drive, triple disc Frakes and a spirited fuel tank and seat design, the Suzuki GS650G 'KATANA'-dedicated to sports riding.

A new shaft design for sports riding.

Suzuki's expertise in designing shaft driven motorcycles was established when its GS1100G and GS850G machines took to

the road.

a mechanical damper to absorb shocks on the same axle shaft. This has enabled a reduction of the longitudenal dimensions of both the engine and the wheelbase resulting in a more compact design and a machine weight of only 218kg (outfitted), a very favorable figure when compared to a similar engine size chain-driven motorcycle.

With this improvement in design, Suzuki has not only set a standard for the shaft-driven big bikes of the future, but has put an end to the unfavorable image of the shaft driven bike as basically suited to long-distance

touring.

The revolutionary new system introduced at that time was completely free of the idiosyncrasies normally associated with shaft drive systems, an achievement these bikes' riders quickly came to appreciate. For the GS650G 'KATANA', Suzuki has developed an improved version of the shaft drive system that is both lightweight and simple in design making it ideal for sports riding. In place of the conventional double-countershaft, a spiral bevel gear for power transmission is mounted together with

Adjustable rear shock absorbers combine comfort with performance. GS650G KATANA mounts a pair of powerful, adjustable rear shock absorbers that make possible a wide variety of settings to suit various road conditions, travelling speeds, weight factors, and the preference of the rider. With 5 possible spring settings, and 4 stage adjustment of the damping force, 20 settings are possible. When taken together with the front fork this makes for a very comfortable ride while at the same time matches the high performance characteristics of the bike. For the experienced rider, or the rider becoming familiar with the GS650G 'KATANA', it promises to make riding both an enjoyable and personal experi-

