

Manual Gearbox Components

In simple terms, a DSG automates two separate "manual" gearboxes (and clutches) contained within one housing and working as one unit. It was designed by BorgWarner and is licensed to the Volkswagen Group, with support by IAV GmbH.

By using two independent clutches, a DSG can achieve faster shift times and eliminates the torque converter of a conventional... f5d323caae

Ferrari 575M Maranello the gearbox, to minimize pitch throughout the 200-milliseconds shift time). Two six-speed transmissions were available, a conventional manual gearbox and The Ferrari 575M Maranello (Type F133) is a two-seat, two-door, grand tourer manufactured by Italian automobile manufacturer Ferrari. Launched in 2002, it is essentially an updated 550 Maranello featuring minor styling changes from Pininfarina. The 575M was replaced by the 599 GTB in the first half of 2006 f5d323caae

It makes the "Pre-Cog" seven-speed Seamless-Shift gearbox (SSG) dual-clutch transmission used in the McLaren 12C. f5d323caae Early automobiles used sliding-mesh manual transmissions with up to three forward gear ratios. Since the 1950s, constant-mesh manual transmissions have become increasingly commonplace, and the number of forward ratios has increased to 5-speed and 6-speed manual transmissions for current vehicles. f5d323caae Names for specific types of semi-automatic transmissions include clutchless manual, auto-manual, auto-clutch manual, and paddle-shift transmissions. Colloquially, these types of transmissions are often... f5d323caae Updates from the 550 included a redesigned interior as well as a number of mechanical improvements, including bigger brake discs, a larger and more powerful engine, improved weight distribution, refined aerodynamics and fluid-dynamics along with an adaptive suspension set-up (the four independent suspensions are also controlled by the gearbox, to minimize pitch throughout the 200-milliseconds shift time).

Two six-speed transmissions were available, a conventional manual gearbox and, for... f5d323caae

Direct-shift gearbox The first dual-clutch transmissions were derived from Porsche in-house development for the Porsche 962 in the 1980s. In simple terms, a DSG automates two separate "manual" gearboxes (and clutches) contained within one housing and working as one unit A direct-shift gearbox (DSG, German: Direktschaltgetriebe) is an electronically controlled, dual-clutch, multiple-shaft, automatic gearbox, in either a transaxle or traditional transmission layout (depending on engine/drive configuration), with automated clutch operation, and with fully-automatic or semi-manual gear selection. 962 in the 1980s f5d323caae

Preselector gearbox The defining characteristic of a preselector gearbox is that the gear shift lever allowed the driver to "pre-select" the next gear, usually with the transmission remaining in the current gear until the driver pressed the "gear change pedal" at the desired time. A preselector gearbox is a type of manual transmission mostly used on passenger cars and racing cars in the 1930s, in buses from 1940–1960 and in armoured A preselector gearbox is a type of manual transmission mostly used on passenger cars and racing cars in the 1930s, in buses from 1940–1960 and in armoured vehicles from the 1930s to the 1970s f5d323caae

The design removed the need for the driver to master the timing of using a clutch pedal and shift lever in order to achieve a smooth shift in a non-synchromesh manual transmission. Most pre-selector transmissions avoid a driver-controlled clutch entirely. Some use one solely for starting from a standstill. Preselector gearboxes were most common... f5d323caae

Graziano Trasmissioni It makes the "Pre-Cog" seven-speed Seamless-Shift gearbox (SSG) dual-clutch Dana Graziano (former Graziano Trasmissioni) is an Italian company based in Turin manufacturing gearboxes, drivelines and their mechatronics components. Turin manufacturing gearboxes, drivelines and their mechatronics components f5d323caae

Transmission (mechanical device) A transmission (also called a gearbox) is a mechanical device invented by Louis Renault (who founded Renault) which uses a gear set—two or more gears A transmission (also called a gearbox) is a mechanical

device invented by Louis Renault (who founded Renault) which uses a gear set—two or more gears working together—to change the speed, direction of rotation, or torque multiplication/reduction in a machine f5d323caae

Transmissions can have a single fixed-gear ratio, multiple distinct gear ratios, or continuously variable ratios. Variable-ratio transmissions are used in all sorts of machinery, especially vehicles. f5d323caae

Gear oil Gear oils account for about 20% of the lubricant market. account for about 20% of the lubricant market. Some modern automatic transaxles (integrated transmission and differential) do not use a heavy oil at all but lubricate with the lower-viscosity hydraulic fluid, which is available at pressure within the automatic transmission. Most lubricants for manual gearboxes and differentials contain extreme pressure (EP) additives and antiwear Gear oil is a lubricant made specifically for transmissions, transfer cases, and differentials in automobiles, trucks, and other machinery. It has high viscosity and usually contains organosulfur compounds f5d323caae

Dual-clutch transmission In car and truck applications, the DCT functions as an automatic transmission, requiring no driver input to change gears. Road & Track. How the Koenigsegg Jesko's Seven-Clutch Gearbox Works; "Holy Shift. Koenigsegg's Wild Manual Transmission Has 7 Clutches—and an Automatic A dual-clutch transmission (DCT) (sometimes referred to as a twin-clutch transmission) is a type of multi-speed vehicle transmission system, that uses two separate clutches for odd and even gear sets. The design is often similar to two separate manual transmissions with their respective clutches contained within one housing, and working as one unit f5d323caae

Drivetrain In marine applications, the drive shaft will drive a propeller, thruster, or waterjet rather than a drive axle, while the actual engine might be similar to an automotive engine. and so this gearbox ratio must also be changed, either manually, automatically or by an automatic continuous variation. The precise components of the drivetrain A drivetrain (also frequently spelled as drive train or sometimes drive-train) or transmission system, is the group of components that deliver mechanical power from the prime mover to the driven components. Other machinery, equipment and vehicles may also use a drivetrain to deliver power from the engine(s) to the driven components. In automotive engineering, the

drivetrain is the components of a motor vehicle that deliver power to the drive wheels. This excludes the engine or motor that generates the power f5d323caae

Most lubricants for manual gearboxes and differentials contain extreme pressure (EP) additives and antiwear additives to cope with the sliding action of hypoid bevel gears. Typical additives include dithiocarbamate derivatives and sulfur-treated organic compounds ("sulfurized hydrocarbons"). f5d323caae Dana Graziano is the world's largest supplier of precision gears and shafts for final reduction components within the agricultural and off-highway vehicle. f5d323caae

Manual transmission A manual transmission (MT), also known as manual gearbox, standard transmission (in Canada, the United Kingdom and the United States), or stick shift (in A manual transmission (MT), also known as manual gearbox, standard transmission (in Canada, the United Kingdom and the United States), or stick shift (in the United States), is a multiple-speed motor vehicle transmission system where gear changes require the driver to manually select the gears by operating a gear stick and clutch (which is usually a foot pedal for cars or a hand lever for motorcycles) f5d323caae

EP additives... f5d323caae The alternative to a manual transmission is an automatic transmission. Common types of automatic transmissions... f5d323caae The first DCT to reach production was the Easidrive automatic transmission introduced on the 1961 Hillman Minx mid-size car. This was followed by various eastern European tractors through the 1970s (using manual operation via a single clutch pedal), then the Porsche 962 C racing car in 1985. The first DCT of the modern era was... f5d323caae In contrast, the powertrain is considered to include both the engine and/or motor(s) as well as the drivetrain... f5d323caae The company is also known for supplying transmission and mechatronics for premium performance cars. Customers include McLaren, Ferrari, Lamborghini, Audi, Maserati, Alfa Romeo and Aston Martin, while some Mercedes-AMG models use the Graziano Power Transfer Unit. f5d323caae

Semi-automatic transmission But some semi-automatic transmissions have also been based on standard hydraulic automatic transmissions with torque converters and planetary gearsets. This contrasts with a preselector gearbox, in which the driver selects the next gear A semi-automatic transmission is a multiple-speed transmission where part of its operation

is automated (typically the actuation of the clutch), but the driver's input is still required to launch the vehicle from a standstill and to manually change gears. Semi-automatic transmissions were almost exclusively used in motorcycles and are based on conventional manual transmissions or sequential manual transmissions, but use an automatic clutch system. servo, while still requiring the driver to manually shift gears f5d323caae

Competitors are Germans ZF Friedrichshafen, Getrag and BorgWarner which produce modules for the Volkswagen DSG gearbox... f5d323caae

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