



Mercedes-Benz



The new Mercedes-AMG GT R Roadster

Press Information

Hats off to the Beast of the Green Hell

March 4, 2019

Affalterbach. This combination is simply irresistible and is limited to 750 units worldwide: Mercedes-AMG is combining its top model brimming with motorsport technology with the freedom of the open-air driving experience – crowning the portfolio of open-top sports cars. The new AMG GT R Roadster feels equally at home on winding racetracks, prestigious boulevards and beautiful coastal roads. With its powerful drive and expressive design it addresses a new, lifestyle-oriented group which pursues peak experiences. The 577 hp V8 Biturbo, adjustable coil-over suspension with active rear axle steering, active aerodynamics and intelligent lightweight construction form the foundations for highly dynamic handling characteristics. Similar to the other AMG GT roadster models, the GT R Roadster features a triple-layer fabric soft top with a lightweight structure consisting of aluminum, magnesium and steel.

With this latest addition, the AMG GT family is larger and more appealing than ever. "The new AMG GT R Roadster is far more than the combination of the thrilling vehicle dynamics of the GT R with the special flair of our GT Roadsters. It is the essence of two worlds, blending to deliver our brand pledge, Driving Performance, in a very special way. With our GT R Roadster we have without doubt once again developed a brand-defining sports car. It too embodies Mercedes-AMG in form, function and vehicle dynamics and enriches our GT family with a highly exclusive variant limited to 750 units," says Tobias Moers, Chairman of the Management Board of Mercedes-AMG GmbH.

The AMG 4.0-liter V8 Biturbo in the AMG GT R Roadster delivers an output of 577 hp and maximum torque of 516 lb-ft. This is available over a wide range from 2100 to 5500 rpm. The eight-cylinder power unit delivers muscular performance in all engine speed ranges, combined with high efficiency. A sprint from standstill to 60 mph is reached in 3.5 seconds. The exhilarating power delivery continues right up to the top speed of 197 mph.

Leads the way even at a standstill: the exterior design

The low-slung front section and the AMG-specific radiator grille create a distinctive "shark nose" impression and make the car appear to sit lower on the road. At the same time, this shape lowers the vehicle's back-pressure point, enhancing the flow of cooling air and the car's aerodynamic performance.

The standard LED High Performance headlamps strengthen the AMG GT family look with their light signature. A tri-functional, arched light functions as the daytime running light, navigation light and turn signal. The multi-chamber reflector system with three single reflectors each for low beam and high beam not only ensures optimal illumination of the roadway, but also gives the Roadster a sporty, dynamic look, which adds even more optical depth.

The V-shaped arrow-like appearance of the front end also enhances the dynamic look, embodying the look of forward motion even while standing still. The front bumper in jet wing design along with the front splitter emphasize the car's width. The large outer air inlets in the front bumper guarantee a large supply of cooling air to the engine. For this reason, they sport two aerodynamically shaped horizontal fins in place of meshes and as a result route the airflow to the radiators with minimal loss.

Additional Air Curtains on the outside of the front bumper calm the airflow, improving the cd value of the open-top two-seater. Thanks to their narrow, vertical openings, the Air Curtains also guide the air specifically towards the wheel arches, optimizing the flow properties. To ensure ideal airflow through the wheel arches, the roadster additionally features unique wheel arch liners with special cooling-air slits.

Enhanced aerodynamics for precision handling and better grip

An active aerodynamics profile is concealed almost invisibly under the front of the engine. Weighing around four pounds, this light carbon-fiber element is speed-sensitive and automatically extends around 1.6 inches downwards depending on the drive program. This process involves considerable change in the airflow and results in what is known as the Venturi effect, which "sucks" the car onto the road and reduces front-axle lift by around 88 pounds at 155 mph. The aerodynamic profile automatically retracts again depending on the drive program and speed.

The driver can feel the advantages in the steering: the roadster can be steered even more precisely when cornering at high speed and exhibits even better directional stability. Especially during fast cornering and under high lateral acceleration, the vehicle delivers agile response with clear steering feedback, while remaining easily controllable. In addition, the drag coefficient is improved. The downforce on the rear axle remains at an unchanged high level.

When the electrically operated profile is extended, the radiator air outlet opens at the front and precisely guides air flow towards the double rear diffuser, which also benefits from an optimal flow of air. This improves the handling stability of the rear axle while reducing the temperature of the hotspots at the rear. At the same time, these aerodynamic measures ensure optimized stopping power by routing more cold air specifically to the wheel disks.

The active air management system: AIRPANEL

The active air regulation system AIRPANEL is a notable technical highlight. Vertical louvers at the bottom of the front bumper open and close electronically in around one second to ensure the required amount of cooling. Constantly achieving the ideal position calls for highly intelligent and responsive control.

During normal driving with no increased cooling demand, the louvers close for reduced drag and air is directed at the underbody. This improves the aerodynamic efficiency. Only when certain components reach predefined

temperatures and the air demand is particularly high the louvers open to allow maximum cooling air flow to the heat exchangers.

Powerful proportions and sleek design

The super-light carbon front fenders add a total 1.8 inches of width to the roadster at the front compared with the AMG GT, and make room for the wider track and large wheel/tire combinations. The powerfully sculpted fenders emphasize the longitudinal dynamics. A further distinguishing feature is the special wing signet featuring a fin and a large air outlet through which waste heat flows from the engine bay. This fin is perforated and incorporates the AMG diamond logo with five slats.

The side view benefits from the standard AMG Performance forged wheels in matte black. The especially lightweight 10-spoke wheel is exclusive to AMG GT R models and its highly elaborate design includes a drop-center rim, a milled groove and two high-sheen rim rings of different width. There are size 10.0 J x 19 ET56 wheels at the front and 12.0 J x 20 ET52 at the rear. The lightweight design of the wheels has three advantages: it reduces overall weight, rotating mass and unsprung mass.

The brake calipers, which are painted yellow, can be seen through the wheels. The side sill panels make the vehicle look even lower on the road, while inserts in high-gloss black set an aggressive tone. The same applies to the high-gloss black caps on the door mirror housings

Wider Stance: special rear design for more cornering speed

The rear design also features numerous, conspicuous differentiations. The aluminum sidewalls make this roadster 2.2 inches wider at the rear than the AMG GT. This creates room for the larger 20-inch wheels and tires as well as the wider track. These measures enable improved traction while allowing higher cornering speeds.

The wider design of the rear bumper with large outer vent openings and vertical grooves improves the airflow at the rear end, as does the double diffuser. The overall heat dissipation is optimized as the double diffuser exhausts warm air during driving.

A small air outlet is incorporated between the tail lamps for additional dissipation of the heat generated by the rear silencer. A further distinguishing feature of the AMG GT Roadster is the large exhaust tip with centerpiece, centrally positioned in the rear bumper. It is flanked by two more black tail pipes on the left and right of the diffuser.

The large rear wing with an integral third brake lamp is fixed to the trunk lid and increases downforce on the rear axle. The airfoil mounts are painted in vehicle color while the blade is finished in high-gloss black. Depending on the application or racetrack conditions the inclination of the airfoil blade can be precision-adjusted in order to increase downforce on the rear axle.

Lightweight, layered soft top

The three-layered fabric soft top is supported by a lightweight magnesium, steel, and aluminum structure, which helps to keep the vehicle's center of gravity low. The inserted acoustic mat reduces noise.

There is an exclusive new color available for the AMG GT R Roadster - the fine *designo* graphite grey magno matte finish.

Anyone wishing to emphasize the close connection to motorsport can choose the optional AMG Carbon-Fiber Packages. With the AMG Carbon- Fiber Package I, the front splitter, the fins in the fenders, the inserts in the side skirts as well as the rear diffuser are in a high-quality carbon-fiber look. The AMG Carbon-Fiber Package II with the rear airfoil blade, the rear airfoil end plates and the outside mirror housings in carbon fiber completes the sporty appearance.

Tailor-made for performance: the cockpit

The interior design echoes the exterior. The dashboard places a firm emphasis on width, creating an impression of a powerful wing. The driver is integrated into the cockpit thanks to the high beltlines, the door trims with their concave design, the dynamically rising center console and the low seat position. The cockpit has the feel of a custom-fit suit and made-to-measure shoes. In the center console a badge with the inscription, "1 of 750" points to the roadster's limited number of units.

With a scarf and cooled cushions on request: AMG Performance seats

The standard-specification AMG Performance seats in Exclusive Nappa Leather with Diamond Stitching offer strong lateral support with their more deeply contoured side bolsters. The neck-level heating AIRSCARF is standard, making open-air driving a pleasure even in low outside temperatures. The air outlet is seamlessly integrated in the head restraint, where the temperature of the outflowing air can be adjusted in three stages.

Customers wishing to enjoy comfortable temperatures even on very hot summer days can turn on the seat climate control, which is standard. The intensity can be set in three stages.

Other materials and colors are also optionally available:

- Saddle Brown/Black Exclusive Nappa Leather with Diamond Stitching
- Macchiato Beige/Black Exclusive Nappa Leather with Diamond Stitching
- Silver Pearl/Black Exclusive Nappa Leather with Diamond Stitching

As standard, the AMG GT R Roadster comes with AMG black carbon fiber/piano lacquer trim elements, including the Exclusive Trim Package. This features the center console insert and the center air vent rings in black piano lacquer. The insert in the center console, the trim around the four air vents in the instrument panel and the trim strips in the armrests in the doors are in high-quality high-gloss carbon fiber. The trim elements are also available in black matte carbon fiber.

Modern times: displays with AMG-specific displays

The AMG GT R Roadster receives fully-digital instrument displays with an instrument cluster measuring 12.3 inches in front of the driver and a 10.25-inch multimedia monitor on the center console. The instrument cluster offers a screen design with the three AMG-specific display styles "Classic", "Sporty" or "Supersport". In the "Supersport" mode, there is also extensive additional information, such as a prompt to shift up in manual transmission mode. The newly designed visualizations in the multimedia display enable further vehicle functions to be experienced more directly, for example, through an animated presentation of the driving assistance, vehicle and communication systems.

Just the touch of a finger: display buttons in the center console

The innovative, colored display buttons in the V-shaped center console integrate the display and control of transmission logic, suspension, ESP, exhaust system, aerodynamics profile and start/stop function. Using TFT technology the display buttons use intuitively comprehensible symbols to show the function, and are easy to operate with simply a small finger tap. The display buttons are supplemented by two rocker switches for the drive programs and volume control of the audio system.

Control in an instant: the AMG Performance steering wheel

The AMG GT R Roadster has also been given the new AMG Performance steering wheel as standard. It is characterized by its sporty design, a flattened bottom section with a heavily contoured rim and intuitive operation. The steering-wheel rim is completely covered in DINAMICA microfiber. The galvanized steering wheel gearshift paddles allow an even sportier driving style with manual gear shifting. The integrated Touch Control buttons can be used to control the functions of the digital dash and the multimedia display by horizontal and vertical swipes of the finger.

TRACTION CONTROL can be actuated via the right-hand controller. The selected setting is shown on the color LCD display directly integrated in the controller.

The two freely configurable display buttons and the additional switches on the left-hand side enable further AMG functions to be controlled directly on the steering wheel. This means that the driver can concentrate fully on driving without having to take their hands off the wheel. Each required function can be depicted on the display icon and its switch tapped by the driver to set the respective function. So, the two individually preferred AMG functions can be defined exactly and the settings changed with just a tap of the finger.

The AMG Interior Night Package also comes standard. In this package, the shift paddles, steering wheel spokes, and seat insert are finished in high-gloss black, which combines with the standard-specification AMG carbon fiber/piano lacquer trim elements to further emphasize the sportiness.

Intelligent lightweight construction for high agility

A key factor in a sports car's performance is a low gross vehicle weight. Mercedes-AMG uses an intelligent material mix in order to achieve this aim in the structure of the AMG GT R Roadster. Various aluminum alloys are utilized for the chassis and body, and magnesium for the front deck. This extremely light element at the front reduces the inertia ahead of the front axle, thus improving the vehicle's agility. The load-bearing structure of the trunk lid is SMC (Sheet Moulding Compound) bonded with carbon fibers. These high-tech compounds excel with their lightweight design, high strength and outstanding surface quality.

The weight-optimized spaceframe is made of die-cast and extruded aluminum sections. The high bending and torsional strength of the entire design enables extreme linear and transverse forces from the drivetrain and suspension to be absorbed and transferred. Unwanted flexibility is reduced, with the vehicle responding precisely and directly. The result is that the driver experiences a sports car with maximum dynamics with outstanding precision. The body-in-white now also has an integral aluminum cross member as rollover protection for the occupants.

Light and strong: Materials from motor racing

A host of further measures contributes to weight reduction as part of the AMG lightweight-performance strategy. Light and strong carbon fiber is the material of choice for, among other things, the front fenders and the torque tube between the engine and transmission.

Now weighing in at approximately 30 pounds, the carbon-fiber torque tube is about 40 percent lighter than its already weight-optimized aluminum counterpart in the AMG GT. As a structural component of the transaxle drivetrain, it creates a connection between the engine and the transmission with extreme flexural and torsional stiffness. It permits a direct connection of the drivetrain that is favorable to driving dynamics and plays a role in the vehicle's balanced weight distribution.

Further weight advantages come from the standard forged wheels, the titanium rear silencer and fewer soundproofing materials.

Carbon tunnel bracing

The tunnel brace in carbon further stiffens the body considerably for withstanding the high torsional loads that occur during powerful acceleration. To this end, it braces the two vehicle sides against each other even more effectively in the tunnel area for the torque tube. This significantly increases the torsional rigidity by some 7.5 percent. After the first few feet, the driver gets an extremely precise driving impression, which is maintained even in the event of extreme vehicle loads when driving at the dynamic limits. The highly composed body allows for even better control of the AMG GT R Roadster under difficult racetrack conditions such as fast, bumpy corners and means that less steering effort is required.

Over and above this, two diagonal braces in the engine bay stiffen the front end. In the AMG GT R, they are also made of carbon fiber and represent weight savings of about 50 percent over steel components.

The AMG 4.0-liter V8 Biturbo engine

The AMG 4.0-liter V8 Biturbo delivers 577 hp in the AMG GT R, with the maximum torque of 516 lb-ft available from 2100 to 5500 rpm. Different exhaust gas turbochargers with modified compressor processing and a smaller boost pressure control valve cell, as well as sharper engine management application are used compared with those found in the other AMG GT models. The boost pressure has increased by 2 psi. In addition, the exhaust ports have been optimized and the compression ratio modified. The entire combustion process has been retuned.

For optimum power output even when outside temperatures are high, Mercedes-AMG uses indirect air-to-water intercooling. With optimum flow of air and water, the intercoolers have a separate, two-stage low-temperature water circuit. The first cooler stage involves two parallel coolers in the left and right wheel arch.

The downstream charge air coolers, through which water flows, ensure that the intake air compressed by the turbochargers is cooled effectively before it enters the combustion chambers. It therefore remains at a consistently low level even under full load. Extremely short charge-air ducting makes for optimum responsiveness.

The combination of twin turbochargers and direct fuel injection with spray-guided combustion increases thermodynamic efficiency and output. Particularly fast and precise piezo injectors spray the fuel at high pressure into the eight combustion chambers. Multiple injection occurs on-demand, ensuring a homogeneous fuel/air mixture. The delivery of fuel is electronically controlled and fully variable for a fuel pressure between 100 and 200 bar.

The aluminum crankcase is produced using sand casting technology and features a closed-deck design. This ensures extreme strength while keeping the weight as low as possible, and allows high injection pressures of up to 140 bar. The NANOSLIDE® coating on the cylinder liners is far harder than conventional grey cast-iron liners and therefore less susceptible to wear. In addition, its reduced friction in combination with the aluminum-forged pistons helps to increase efficiency.

Four overhead camshafts control a total 32 valves. Camshaft adjustment on the inlet and outlet side enables an excellent response and optimizes the gas cycle for each operating point. The dry sump lubrication also ensures the oil supply even with high lateral forces and allows the engine to be installed lower, thus moving the center of gravity closer to the road and forming the basis for high lateral acceleration.

Goose-bump-inducing sound: the AMG performance sports exhaust system

The specially developed exhaust system not only delivers genuine racing car sound, it also saves around 13 pounds of weight thanks to the use of titanium for the rear silencer, and thin-walled stainless steel for the front section of the exhaust system.

With its special, hexagonal form, the large tailpipe tip centered in the rear bumper emphasizes the car's motor-racing character. Two more tailpipes are located on the left and right in the diffuser. Their tips are sheathed in carbon fiber, like in motorsport, to protect the diffuser against high exhaust temperatures. The exhaust system features two infinitely variable exhaust flaps as standard, which have a direct influence on the sound of the AMG GT R Roadster.

The exhaust flaps open and close depending on the selected AMG DRIVE SELECT mode, although they can also be controlled individually using a separate button in the AMG DRIVE UNIT. In the "Comfort" and "Sport" modes, the low-frequency sound typical of a V-8 emphasizes comfort. In "Sport Plus" and "RACE" modes, meanwhile, the sound composition is far more dynamic.

The agile dual-clutch transmission

The seven-speed dual-clutch transmission configured in transaxle layout at the rear axle has been made even more suitable for the racetrack by the AMG developers. First gear in the AMG SPEEDSHIFT DCT 7G has a longer ratio, while seventh gear and the final drive have shorter ratios to allow a more agile acceleration experience overall and very spontaneous response to fast accelerator pedal movements.

The previous limits governing shift performance and response time have been extended substantially. The Race Start function is now even more impressive thanks to the increased starting revs, the more sensitive wheel slip control and the sports tires fit for the racetrack. Furthermore, the transmission cooling has been adapted to the tougher requirements of high performance driving.

The dynamic drive programs

Using the AMG DYNAMIC SELECT gearshift paddle in the center console or the AMG steering-wheel buttons, the driver can adjust the AMG GT R Roadster to suit their individual requirements. They can choose from "Slippery", "Comfort", "Sport", "Sport plus", "RACE" and "Individual". The "RACE" mode optimally adjusts the shift strategy of the dual clutch transmission to the needs of racetrack usage – very short shift speeds and highly dynamic engine sound are included. By pressing the separate "M" button in the center console, the driver can activate the manual transmission mode in any drive mode.

As a feature in the AMG DYNAMIC SELECT drive programs, the AMG GT R Roadster also comes with AMG DYNAMICS. This integrated driving dynamics regulation expands the functions of ESP® (electronic stability program) to exact dosing of power distribution at the rear axles and the characteristics of steering. In this way, the car becomes even more agile at its highest stability. AMG DYNAMICS optimizes the transverse dynamics by higher lateral acceleration, better traction and load change reactions.

Particularly remarkable: AMG DYNAMICS calculates how the vehicle will react. To do this, the system uses the available sensors that detect the speed, the steering angle or the yaw rate, for example. Based on the pilot-control principle it is possible to anticipate the vehicle behavior based on the driver's actions and the data from the sensors. The control system reacts in this way even before the driver – and with no noticeable intervention of the system. The driver gets a very authentic driving feel with high cornering dynamics and optimum traction as well as high stability and predictable handling. This provides optimum support even for experienced drivers.

The different AMG DYNAMICS modes are: "Basic", "Advanced", "Pro" and "Master". The drive program selection indicated on the multimedia display now shows the new AMG DYNAMICS symbol with the relevant additional term instead of the previous ESP® symbol.

- "Basic" is assigned to the "Slippery" and "Comfort" drive programs. Here the AMG GT demonstrates exceptionally stable handling characteristics with high yaw damping.
- "Advanced" is activated in the "Sport" program. The AMG GT is then neutrally balanced. The lower yaw damping, lower steering angle requirement and enhanced agility support dynamic maneuvers such as driving on winding country roads.
- "Pro" (abbreviation for "professional") is part of the "Sport+" program. In "Pro" the driver receives even more assistance for dynamic driving maneuvers while agility and precision are further enhanced when taking corners.

- "Master" is coupled with the RACE drive program. "Master" mode is aimed at drivers who want to experience dynamism and driving enjoyment on closed-off circuits. "Master" offers an extremely neutral vehicle balance, low steer angle requirement and more agile steering. In this way, "Master" ensures maximum agility and fully exploits the dynamic potential.

Even the mounts adapt: the dynamic engine and transmission mounts

Dynamic engine and transmission mounts are installed as standard in the AMG GT R Roadster. The engine and transmission mounts assume an important function in the case of a transaxle design: soft mounts improve comfort since they provide more effective decoupling of noise and vibration. However, handling and agility benefit from a generally stiffer mount set-up. Mercedes-AMG resolves these conflicting objectives using dynamic mounts, which adjust their stiffness continuously, and almost instantaneously to the respective driving conditions and handling.

This function is performed by a special control unit, which identifies handling situations based on CAN data, is connected to the electronic limited-slip rear differential and thus ensures optimum balanced driving dynamics. AMG has gone a step further in the implementation of this technology: the engine and transmission mounts are actuated independently of each other. The advantage is this innovative solution provides an additional improvement in driving precision and lateral dynamics.

Stays neatly on track: the chassis with uniball joint bearings

The chassis has also been modified. Wishbones, steering knuckles and hub carriers on the front and rear axle are manufactured entirely out of forged aluminum in order to reduce unsprung mass. The double-wishbone concept locates the wheel firmly, with minimal elastic movements. The high camber and toe-in stability results in high cornering speeds and also provides the driver with an optimum feel for the road when cornering at the extreme limits.

The uniball spherical bearings on the lower wishbones of the rear axle are directly inspired by motorsport. They are significantly more wear-resistant than wishbone bushings and due to their design have no play, which means toe-in and camber do not change even under high loads. As a result, the AMG GT R Roadster can be driven with even more precision. In addition, the rear axle is fitted with a thicker tubular anti-roll bar. It has been adapted to the heightened driving dynamics requirements of the AMG GT R Roadster and saves weight due to its hollow design.

AMG coil-over suspension with adaptive adjustable damping

As in the AMG GT R, the specially developed AMG coil-over suspension is also used in the open-top variant. Its tuning can be precisely adjusted at the workshop. The technology familiar from motorsport is combined with the AMG RIDE CONTROL continuously variable, adaptive damping system. The system is controlled electronically and adjusts the damping at each wheel automatically to suit the current driving situation, the current speed and the road or track surface.

The damping characteristics are modulated rapidly and precisely by two separate valves for the rebound and compression forces in the dampers. A harder damping rate, for example when cornering and braking, effectively reduces rolling movements. The continuously variable adjustment of the damping to suit the current speed also ensures the best possible road contact and thus enhances safety, even at high speeds.

The driver can also adjust the adaptive damping characteristics at the touch of a button in the AMG DRIVE UNIT or by using the AMG DYNAMIC SELECT drive modes. Three modes are available: "Comfort", "Sport" and "Sport Plus". The purpose of each of the three damping characteristics is clear: "Comfort" is the right choice for public roads; "Sport" is perfect for racetracks like the North Circuit of the Nürburgring, in other words for highly dynamic driving on partially undulating racetracks with maximum surface contact. "Sport Plus" is ideal for more flat, modern Grand Prix circuits such as Hockenheim and conveys a high degree of structural rigidity.

Conventional suspension measures include the wider front and rear track as well as the standard-fit Michelin Pilot Sport Cup 2 tires, of size 275/35 ZR 19 at the front and 325/30 ZR 20 at the rear.

Active rear-wheel steering

The new AMG GT R Roadster is even more sensitive to steering inputs thanks to standard active rear-wheel steering. The system offers an ideal combination of agility and stability - handling characteristics that are normally in direct conflict. Two steering actuators replace the conventional control arms on the rear axle. At the heart of the system are two electro-mechanical actuators (electric motors with jackscrew) that are not mechanically connected to the steering wheel. This "by-wire" system adjusts the rear wheels within a predefined operating map by means of electronic control. The maximum track angle change on the rear wheels is 1.5 degrees.

Up to a speed of 62 mph, the rear wheels point in the opposite direction to the front wheels, corresponding to a virtual shortening of the wheelbase. The advantage is that the roadster is far more agile when steering into bends, resulting in even greater driving enjoyment and less steering effort - especially on small and winding roads, narrow racetracks on which there are multiple changes in direction, or slalom courses. Further benefits include increased maneuverability and a smaller turning circle in everyday driving situations, such as when turning or parking.

Once the car's speed exceeds 62 mph, the system turns the rear wheels in the same direction as the front wheels, corresponding to a virtual lengthening of the wheelbase and improving handling stability. At the same time, the lateral force on the rear wheels builds up considerably faster on changes of direction, thus speeding up the response to the steering. The active rear-wheel steering not only improves cornering; it also assists the driver in the event of sudden evasive maneuvers and thus enhances active safety,

Grip to the power of nine: AMG TRACTION CONTROL

In ESP OFF mode, another innovation allows the driver to exert even more influence on the handling characteristics of the AMG GT R Roadster. The AMG TRACTION CONTROL system comes directly from motorsport. It allows drivers to pre-select the slip on the driven rear axle in nine levels. It isolates the grip on the driven wheels and does not affect the stabilization provided by the ESP®. Corresponding characteristic maps are programmed into the vehicle electronics to this end.

Control is via the round rotary switch with an integral display on the right-hand AMG steering-wheel button. Depending on the setting, the system permits more or less slip on the rear wheels - very helpful in varying road conditions. Level 1 is programmed for driving in the wet with high safety reserves. Level 9 allows maximum slip on the rear axle. The respective setting is shown in the display on the right-hand steering-wheel button and in the central display on the instrument cluster.

The AMG development has a major advantage over conventional systems in that it anticipates situations with the help of a virtual simulator and other data processed by a control unit within fractions of a second. The maximum permissible drive slip on the rear wheels is calculated depending on the selected AMG TRACTION CONTROL level. When the wheels reach this level of slip during acceleration, the traction control modulates the engine output so that this level is not exceeded and the vehicle continues accelerating with this specified slip. The effect of the electronic limited-slip differential is also included in the adjustment scope. This control therefore takes place without lag, further enhancing both driving enjoyment and performance.

The locking differential

As standard, the AMG GT R Roadster is equipped with an electronically controlled limited-slip differential on the rear axle, which is integrated into the compact transmission housing. Its sensitive and fast control raises the critical limit of vehicle dynamics to a new level. It not only further improves the traction of the drive wheels, but also increases the critical cornering speed. The system operates with a variable locking effect in acceleration and overrun mode, and is perfectly tuned to various handling conditions and road friction coefficients.

Responds directly: speed-sensitive sports steering

The speed-sensitive sports steering features a variable steering ratio, which enhances vehicle handling and agility at low speeds while maintaining driving safety at high speeds. The power assistance is a particular highlight: it responds not only depending on the given road speed, but also according to the current lateral acceleration and the selected AMG DYNAMIC SELECT drive mode. The result: The driver has an enhanced feel for the vehicle thanks to the direct feedback from the road.

The high-performance compound braking system

The high-performance composite brake system ensures excellent deceleration and high fade-resistance with internally ventilated and perforated brake discs of 15.3" diameter on the front axle and 14.2" on the rear axle. The brake calipers are painted yellow as standard.

A ceramic high-performance composite brake system is available as an option. The advantages of this system are a weight savings of approximately 33 pounds, a longer service life and even better fade resistance thanks to the ceramic brake discs with a diameter of 15.8" at the front and 14.2" at the rear.

Data at a glance

	Mercedes-AMG GT R Roadster
Engine	4.0-liter V8 with direct injection and twin turbochargers
Displacement	3982 cc
Output	577 hp at 6250 rpm
Acceleration 0-60 mph	3.5 s
Top speed	197 mph
Rear-axle limited-slip differential	Electronically controlled
Suspension	AMG RIDE CONTROL sports suspension with Adaptive Damping System and coil-over element
Wheels - front / rear	10.0 J x 19 / 12.0 J x 20
Tires - front / rear	275/35 R 19 / 325/30 R 20
Brake disks - front / rear	15.3"/14.2" in
Drive modes	six: Slippery, Comfort, Sport, Sport+, Individual, RACE

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About Mercedes-Benz USA

Mercedes-Benz USA (MBUSA), headquartered in Atlanta, is responsible for the distribution, marketing and customer service for all Mercedes-Benz products in the United States. MBUSA offers drivers the most diverse lineup in the luxury segment with 15 model lines ranging from the sporty CLA four-door coupe to the flagship S-Class and the Mercedes-AMG GT R.

MBUSA is also responsible for Mercedes-Benz Vans and smart products in the U.S. More information on MBUSA and its products can be found at www.mbusa.com, www.mbsprinterusa.com and www.smartusa.com.

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