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From fantasy to reality – McLaren Solus GT revealed as extreme expression of track driving engagement

- World-first, track-only realisation of McLaren concept that debuted in the virtual gaming world
- Limited to just 25 customer cars all sold before public reveal
- Engineered to reality using technologies from McLaren's presence across the highest levels of motorsport and supercar and hypercar development
- Striking central, single-seat, closed-cockpit design with jet aircraft-style sliding canopy
- Unique monocoque chassis with motorsport-derived powertrain a structural element
- Naturally-aspirated 5.2-litre V10 engine and bespoke seven-speed, sequential shift gearbox
- Weighs less than 1,000kg and has more than 1,200kg of downforce
- V10 engine revs to more than 10,000rpm and produces in excess of 840PS and 650Nm
- Acceleration from 0-100km/h in a target time of 2.5 seconds and a top speed of more than 200mph
- A full 'racing driver experience' available, including a driving seat moulded to individual body shape, an FIA-homologated race suit, helmet and HANS (Head And Neck Support) device bespoke to each owner, and driver-development coaching programme
- First cars will be delivered to customers in 2023

McLaren Automotive today reveals the McLaren Solus GT, the stunning realisation of a concept car from the screens of virtual racing into an extreme expression of track driving engagement that will exhilarate in the real world.

A special commission for just 25 customers – with all cars already sold – the single-seat, closedcockpit track car was unveiled during Monterey Car Week in California by Michael Leiters, McLaren Automotive Chief Executive Officer.

Engineered to reality by drawing on the full range of McLaren's experience and expertise across the highest levels of motorsport and supercar and hypercar development, the Solus GT brings to life the futuristic McLaren concept that featured in the Gran Turismo SPORT video game.

At less than 1,000kg in weight and with aerodynamic performance including downforce in excess of 1,200kg, the Solus GT – which is powered by a naturally aspirated 5.2-litre V10 engine – is











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capable of the fastest lap times of any McLaren outside of single-seater racing and delivers a driving experience close to the engagement and sensation of driving a Formula 1 car.

"The McLaren Solus GT is the realisation of a radical McLaren concept vehicle originally created for the world of virtual racing. Engineered free of any restrictions from road or race regulations, but with the full spectrum of McLaren's expertise to bring it to reality, it epitomises our pioneering spirit." Michael Leiters, Chief Executive Officer, McLaren Automotive

The striking exterior design, which is remarkably faithful to its virtual inspiration, is based on proven aerodynamic principles and McLaren's 'everything for a reason' design ethos, honed by additional CFD (Computational Fluid Dynamics) and wind-tunnel aerodynamic research.

The list of distinctive external features is lengthy, with the sliding canopy above the single, central seat being one of the most striking. The wheels are shrouded in aerodynamic pods and located by suspension arms. A large front splitter feeds air into ground-effect tunnels before it exits the car via a full diffuser. A motorsport-inspired intake above the cockpit integrated into the design of the roll hoop cover feeds cold air into the engine, while also providing an engaging induction sound. Race car design also inspired the sidepods which house the Solus GT's radiators.

A twin-element, fixed rear wing is key to a downforce figure that exceeds the overall weight of the car. The downforce to drag ratio is also optimised, aiding straight-line performance as well as enhancing cornering abilities.

The Solus GT experience begins even before the engine is started, with the driver opening the distinctive cockpit canopy that slides forward through a shallow arc to allow access. This is nothing like a conventional car door, or even the signature dihedral doors of other McLaren cars, rather more like stepping into a jet fighter plane.

The means of getting into the car adds to the sense of occasion provided by the single seat that dominates an interior focused solely on the driver and performance. The seat position is fixed – the 25 Solus GT owners experience their own motorsport-style 'seat fitting' – with the pedal box adjustable as in a race car, although with the convenience of a remote system operated from the seating position.

The steering wheel – the design of which is unique among McLaren production cars – takes its inspiration from Formula 1, with dash display and essential controls integrated to suit the tight confines of a single-seater track car. Beyond the steering wheel is a view through the glass 'bubble', with integrated halo-style cockpit protection – mounted to which is a rear-view display fed by a wide-angle camera placed within the roll hoop. The perfectly symmetrical 180-degree line of sight provided by the central driving position is further aided by the dramatically styled wheel pods in helping the driver to position the car on a track.













To further enhance the exhilaration for Solus GT customers, McLaren is offering a full 'racing driver experience'. This includes a driving seat moulded to the driver's individual body shape; an FIA-homologated race suit, helmet and HANS device bespoke to each owner, and radio-enabled ear inserts. A full driver-development coaching programme will also be available to help customers fully exploit the potential of their new track hypercar.

The Solus GT is powered by a unique 5.2-litre V10, constructed using low-volume, machined components, that revs to more than 10,000rpm and delivers extreme performance and thrilling driver engagement. The engine's responsiveness is enhanced by the use of barrel-driven throttles for each cylinder – a system only suitable for track application – and is entirely gear-driven, with no chains or belts for camshaft or ancillary systems.

In addition to having power and torque outputs in excess respectively of 840PS and 650Nm, the engine was also chosen for its structural qualities; for the first time in a McLaren production car, the engine is an integral part of the chassis. Conventional practice in race car construction, this design approach optimises weight reduction by negating the need for additional chassis structures or subframes behind the carbon fibre monocoque.

The race-derived seven-speed sequential gearbox, which features a bespoke casting and casing – the latter manufactured from aluminium with magnesium panels – is mounted to the back of the engine with the rear suspension fixed to the gearbox casing. Internally, straight-cut gears engaged via a multi-plate carbon fibre clutch are ideally suited to the aggressive shifts demanded in a track application. The system is fully automated and software controlled, removing the need for the driver to operate the clutch, aiding pit-lane pull-away.

In common with every McLaren since 1981, the Solus GT is based around a carbon-fibre monocoque, in this case one created using specialist low-volume production methods including a carbon 'pre-preg' process for higher structural strength and a high uniformity of finish to the material. The front and rear chassis structures are also made from carbon fibre, with the engine and gearbox forming the rest of the chassis.

Carbon fibre is not the only high-value material in the Solus GT. Further embracing technologies used in the top tiers of motorsport, 3D-printed titanium components have been used for the halo cockpit protection structure and roll hoop. This is the first time the approach has been adopted for structural elements in a McLaren production car, allowing a tailored design as well reducing weight.

The suspension system incorporates double wishbones with inboard torsion bar damping, operated via pushrods at the front and pullrods at the rear. Both axles are linked by anti-roll bars, with tuning options available to the driver. Fabricated from steel for enhanced durability, the











front suspension links are encased in aerodynamic carbon fibre shrouds similar to the approach in Formula 1.

Housed within the distinctive wheel pods are 18-inch forged aluminium wheels with centre locking nuts, shod with Le Mans Prototype-specification tyres available in both slick and wet compounds. Braking is provided by 6-piston monobloc machined aluminium calipers and carbon brake discs and pads. Bias between the front and rear brakes can be adjusted in the cockpit by the driver.

Traditional performance metrics are not as relevant for a track car, but with a target time of 2.5 seconds for 0-100km/h acceleration and a maximum speed of more than 200mph – in combination with the car's light weight and strong aerodynamic abilities – the McLaren Solus GT has the performance credentials needed for an extreme track machine.

In incorporating every element that has made McLaren a world-beating automotive force, the Solus GT is also a showcase for the craftmanship available to McLaren customers from McLaren Special Operations (MSO). With a project such as this, the MSO service goes beyond the car itself to a level of luxury customer engagement and accessibility unique to McLaren. A bespoking process ensures every Solus GT is unique and regular updates on the development programme, including access to prototype drive sessions that can influence the driving characteristics of the car ahead of production, are offered.

Solus GT track events are planned, and all cars will be delivered with a flight case to allow owners to support their own track activities. This includes a comprehensive set of tools, vehicle jacks, stands, radio sets and a coolant pre-heater.

The McLaren Solus GT is currently at the track-testing stage of its development process. The first of 25 customer cars – all of which are sold – will be delivered in 2023.

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## The McLaren Solus GT in detail

## A concept for the virtual world becomes reality

- Originally a virtual concept driven by millions in the Gran Turismo SPORT video game; now a reality as the astonishing McLaren Solus GT
- Striking single, centre-seat cockpit and strong focus on aerodynamic principles throughout
- Showcases McLaren signature design features, including 'hammerhead' front, teardrop-shaped cabin and 'shrink-wrapped' bodywork

The roots of the McLaren Solus GT are in a stunning concept that featured in the Gran Turismo SPORT video game.

From the original design sketches through to the virtual gaming triumph and now the astonishing machine that an exclusive few customers will enjoy on track, this is a car that epitomises the 'everything for a reason' design philosophy and relentless pursuit of engineering excellence within every McLaren. From the outset, the concept was based on proven aerodynamic principles, with a sports-prototype racecar package as its foundation.

The bodywork is very much a technical sculpture, shrink-wrapped over the high-performance engineering package and the two full-length ground effect tunnels. These contain distinctive air intakes at the front and a NACA duct – a low-drag air inlet - which also acts as a step, accelerating the airflow into the radiators.

From the front, the distinctive McLaren 'hammerhead' nose helps to separate airflow from the underbody ground effects and the full-length diffuser. The visibility from the wraparound canopy screen of the teardrop cockpit is outstanding, with an uncluttered, 180-degree view of a track. The wheel pods in each corner are not only a dominating design feature, they also allow overall weight-reduction and individually 'work' the airflow with a distinctive tear-drop shape that ends in a dramatic blade-like rear edge to calm the turbulent air in the wake of each tyre and mitigate pressure build-up within the wheel well.

The rear of the car features a full clam that provides easy access to the engine bay, with superlow trailing bodywork edges that employ the same principles as the Speedtail in order to minimise base pressure across the back of the car, reducing drag.











## Engineering a virtual design into extreme reality

- Naturally-aspirated V10 engine chosen to optimise performance, driver engagement and packaging
- Aerodynamic performance integrated into bodywork surfaces to preserve overall shape using CFD (Computational Fluid Dynamics) and wind-tunnel research
- Heavily optimised structural work includes monocoque geometry

The original engineering brief for the McLaren Solus GT was to turn a prestigious virtual gaming concept into an extremely powerful and highly exclusive McLaren hypercar. This was to be a track-only car, with motorsport engineering expertise and a V10 powertrain coming together to deliver the supreme driver engagement demanded for a no-compromises experience.

The racing-derived engine was chosen for reasons of packaging as well as performance; a pareddown track car with minimal weight and shrink-wrapped bodywork meant having the engine as part of the chassis was a natural choice. This construction technique is rarely seen in production cars for NVH (Noise, Vibration, Harshness) reasons, but in a focused track car it gives many benefits, not least added feedback and exhilarating engagement for the driver.

Once the programme parameters were set, the engineering team faced the challenge of integrating real-world aerodynamic performance into the original design surfaces. This was resolved with extensive Computational Fluid Dynamics (CFD) and wind-tunnel work to prove the aerodynamic, cooling and efficiency properties of the concept.

# Racing-inspired chassis design and construction

- Bespoke monocoque structure employs Formula 1 chassis technologies, with front and rear carbon structures
- Low-volume, carbon 'pre-preg' process provides strength, rigidity and quality of finish
- Engine and gearbox are stressed chassis members; carbon crash structure is incorporated into gearbox
- 3D printing techniques used for structural components titanium halo protection and rollover bar

Like every McLaren built in the last 40 years, the Solus GT features a carbon-fibre monocoque at its heart. However, the single-seat cockpit and production-based engineering processes demanded a bespoke approach embracing the differing disciplines of competition and road car construction and the resulting design takes greater inspiration from motorsport than other McLaren Automotive products, with the monocoque using Formula 1 and sportscar racing chassis technologies. The front and rear impact structures are made from carbon fibre – traditionally McLaren Automotive chassis structures feature aluminium structures fixed to the passenger cell –















and with the engine and gearbox both stressed chassis members, there is no requirement for a rear subframe.

The construction of the chassis employs specialist low-volume production methods including a carbon 'pre-preg' process whereby the carbon fibre is pre-impregnated with a resin system that simplifies the curing process. The material is ready to lay into the mould before heat and pressure treatment is applied, allowing the higher structural strength demanded by a track-only car. The process also allows a high uniformity of finish to the material that enhances visual appeal.

The chassis of the Solus GT also features 3D-printed titanium components, including the halo cockpit protection structure and roll hoop. While previously used by McLaren Automotivenotably for the exhaust system of the Elva – this is the first use of the technology for structural components in a McLaren production car and demonstrates the absolute focus applied to finding the best solutions for the Solus GT.

# Refined and optimised bodywork and aerodynamics

- Carbon fibre bodywork incorporates aerodynamic surfaces including front splitter, individual wheel pods, structural floor with ground-effect tunnels and fixed, twinelement, high-downforce rear wing
- Huge downforce generated at 1,200kg, greater than the weight of the car with drag penalty minimised for straight-line speed
- Formula 1-inspired, carbon fibre suspension aero shrouds, air intakes and sidepodmounted radiators

Despite the freedom the development team enjoyed in exploring the boundaries of possibilities for the Solus GT as a track car, the exterior design of the virtual reality concept did impose restrictions on what could be done if the real car was to retain the 'wow factor' of the car that featured in Gran Turismo SPORT.

As befits an ultra-lightweight track-only car, the bodywork of Solus GT is made from carbon fibre; the complex shapes and swooping lines achieved without the weight penalties that would come from the use of conventional metal panels. The form of these has been finely honed – ironically in virtual reality – to ensure stability and maximise aerodynamic efficiency for both straight line-speed and downforce.

A large front splitter feeds air into ground-effect tunnels in the full structural floor, which has been designed to accept high aerodynamic loads. The air exits the car via a full diffuser. The front wheels are outboard of the main bodywork, with the suspension wishbones exposed to the airflow and shrouded in aerodynamically-shaped carbon fibre that directs air towards the









sidepod-mounted radiators. The sidepod-siting of the high-temperature radiators is directly inspired by motorsport, providing a direct cooling solution for engine fluids and reducing frontal surface area.

A motorsport-inspired air intake above the cockpit, which is integrated into the design of the roll hoop cover, takes in cold and flow-conditioned air above the car while also creating a pleasingly engaging engine induction sound.

The twin-element, fixed rear wing is one of the more distinctive visual features of Solus GT. Designed to maximise downforce over the rear of the car, it works alongside the combination of high-downforce ground effect and low pitch sensitivity from the motorsport-derived suspension system, to negate the need for active front or rear wings and so help to keep weight down.

Overall, the aerodynamic package downforce exceeds the total weight of the car, but the downforce to drag ratio is also optimised, aiding straight-line performance and enhancing cornering speeds.

# Unique, single central seat interior

- Driver enters car via sliding canopy incorporating Formula 1-style halo cockpit protection device
- Single-seat cockpit with fixed seat and adjustable pedals
- Main driver controls and TFT instrument display mounted on carbon-fibre-structured steering wheel
- Rear wide-angle camera located above roll-hoop, linked to driver view screen

The Solus GT McLaren driving experience begins even before the V10 engine is started – simply stepping into the cockpit is an event in itself. Instead of signature McLaren dihedral doors, a sliding canopy – more akin to that of a fighter jet – is opened using a mechanical lever. The spring-loaded canopy moves through a shallow arc, lifting clear of the cockpit and sliding forwards to allow easy access to the driving seat.

Recent technological safety innovations from the top tiers of motorsport are integrated in the design, with the canopy reinforced by a halo-style structure to protect the driver. An escape hatch is also built into the canopy to allow safe departure from the cockpit should the sliding mechanism be obstructed.

The interior is purpose-built for extreme track performance; an owner can specify their car with an entirely bespoke environment, but it will remain focused on the driving experience. The moulded seat is fitted with a 6-point harness and is fixed in position; instead, the pedal box is













adjustable as in a race car, but with the convenience of being able to be operated from a sitting position.

To ensure the single seat is a perfect fit for the customer, MSO has adopted a process taken from motorsport which is yet another example of the full range of McLaren expertise being available for the Solus GT. A phenolic resin-based system with advanced micro-bead technology is used to create a mould from which the seat is created, ensuring in turn that the driver remains comfortable in the car throughout the most intense track driving sessions.

Almost all controls are concentrated on the steering wheel, which is constructed from carbon fibre. Inspired directly by motorsport, all essential functions are easily reached with both hands on the wheel. A full HVAC air system also keeps the driver fully alert throughout the driving experience.

Above the driver's head are switches for vehicle ignition and the fully plumbed-in emergency fire extinguisher. This area also houses the rear-view display, streamed in real-time from a camera located on the roll hoop behind the driver's head. The wide-angle camera provides a comprehensive rear view of the track to allow traffic to pass on a slowing-down lap or aid pit-lane manoeuvring.

## Powertrain with a proven motorsport pedigree

- Motorsport-derived, naturally-aspirated 5.2 litre V10 engine that revs to over 10,000rpm
- McLaren-specific engine, with crank, cylinder capacity, air intake and exhaust system all bespoke to Solus GT
- Gear-driven camshaft and ancillary systems, with no chains or belts in the engine
- Barrel throttles for individual cylinders sharpen throttle response

The 5.2-litre V10 engine specified to power the McLaren Solus GT is incorporated into the vehicle chassis structure. The engine capacity is unique to the Solus GT, as are the air intake and exhaust system. The induction system directs air towards barrel throttles that are individual to each cylinder – a technology that is not suitable for road use but offers clear advantages in engine performance, including improved throttle response.

The engine also incorporates low-volume machined components optimised for performance and is entirely gear-driven; there are no chains or belts for ancillary systems. Output is greater than 840PS, with the full benefit of the ram effect provided by the high air intake and the engine revving past 10,000rpm. Maximum torque is in excess of 650Nm.













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The resulting performance is a target acceleration time of 2.5 seconds from standstill to 100km/h and a maximum speed in excess of 200mph, despite the Solus GT generating downforce that exceeds its weight.

## **Competition gearbox**

- Seven-speed sequential gearbox
- Incorporates bespoke casting and aluminium casing with magnesium panels; rear suspension locates to gearbox
- Uses motorsport-derived straight-cut gears
- Carbon fibre clutch with automated software control for combination of both aggressive shift strategy and user-friendly operation

The Solus GT has a seven-speed sequential gearbox, with race-proven internals located within a bespoke casting and casing, designed as a mounting point for the rear suspension. The casing is made from aluminium, with magnesium panels optimising weight.

Originally designed for LMP sportscar applications, the gearbox internals include straight-cut gears, a technology not usually incorporated in production cars for reasons of NVH refinement but acknowledged as providing greater efficiency than helical-cut gears in a high-performance track car.

The gearbox is engaged by a carbon fibre clutch, designed to complement aggressive gearshift strategy demanded in a track application. It is though also fully automated and controlled by software - removing the need for a pedal or lever-operated clutch control - to aid the driver when pulling away from the pit-lane.

# Track-focused suspension design

- Formula 1-inspired suspension design incorporates double wishbones and front pushrod and rear pullrod activated torsion bars
- Manually adjustable four-way dampers
- Incorporates anti-roll bars, ride-height springs and a heave spring and damper system

The McLaren Solus GT was designed from the outset as a track-only car and its suspension follows the principles of motorsport engineering, starting with the wheels located via double wishbones. With the front wheels mounted outboard of the main body, the front damping is inboard with pushrods operating torsion bars and corner dampers. At the rear, the bars are linked to pullrods, and the rear suspension is mounted to the gearbox casing.













The wishbones and rods are fabricated from steel for enhanced durability, but the front suspension links are encased in carbon fibre shrouds for aerodynamic efficiency. The system also incorporates ride height springs and a heave spring and damper system. This is employed to provide stiffness at speed by limiting vertical movement, the effect of this is to create a more aerodynamically stable profile, making the car's dynamic behaviour at speed more predictable and therefore increasing driver confidence on high-speed tracks.

Housed within the distinctive wheel pods are 18-inch forged aluminium wheels with centre locking nuts, shod with Le Mans Prototype-specification tyres available in both slick and wet compounds. Braking is provided by 6-piston monobloc machined aluminium calipers with carbon brake discs and pads. Bias between the front and rear brakes can be adjusted by the driver in the cockpit.

Each axle is linked by anti-roll bars, which are connected via drop links. Both bars are adjustable.

## The complete - and bespoke - MSO customer journey

- Complete customer journey includes involvement in product development
- Fully bespoke product each car is unique
- Full racing driver experience available, including bespoke driver-wear and tailored seat

Solus GT showcases the level of craftmanship available to McLaren customers through McLaren Special Operations.

From the beginning of the development process, individual presentations were given to customers wishing to secure one of the 25 cars available. This has previously taken place only for purchasers of the McLaren Sabre, a car homologated for the US market only, whereas with Solus GT being a track-only product, the customer base is global.

The 25 Solus GT depositors have also been involved throughout in the finer details of the car's development from the virtual world to the real world, with new, MSO-developed software at the core of realising the vision of each customer. This bespoke, individual approach reflects an intimate accessibility to McLaren that goes beyond even the usual levels of luxury experience and engagement.

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Notes to editors:

A selection of high resolution images accompanying this release is available to download from the McLaren Automotive media site – <u>cars.mclaren.press</u>

Additionally, a dynamic video that features a prototype Solus GT running on track will be available to download 15 minutes after this release is issued.

#### About McLaren Automotive:

McLaren Automotive is a creator of luxury, high-performance supercars. Every vehicle is hand-assembled at the McLaren Production Centre (MPC) in Woking, Surrey, England.

Launched in 2010, the company is now the largest part of the McLaren Group.

The company's product portfolio of GT, supercar, Motorsport and Ultimate models are retailed through over 100 retailers in over 40 markets around the world.

McLaren is a pioneer that continuously pushes the boundaries. In 1981, it introduced lightweight and strong carbon fibre chassis into Formula 1 with the McLaren MP4/1.

Then in 1993 it designed and built the McLaren F1 road car - the company has not built a car without a carbon fibre chassis since. As part of the Ultimate Series, McLaren was the first to deliver a hybrid hypercar, the McLaren P1<sup>™</sup>. In 2016, it announced a new hybrid hyper-GT and confirmed in 2018 that the next Ultimate car would be the Speedtail.

2019 saw McLaren launch the 600LT Spider, the new GT and the track-only McLaren Senna GTR. It also unveiled the 620R and McLaren Elva before launching the 765LT the following year.

Most recently, the company unveiled its all-new high-performance hybrid supercar, the McLaren Artura.

The Artura is the first McLaren to benefit from the McLaren Carbon Lightweight Architecture (MCLA). The MCLA is designed, developed and manufactured at the McLaren Composites Technology Centre in the Sheffield region of England using world-first processes and will spearhead the brand's electrified future.

McLaren Automotive also chooses to partner with like-minded, world-leading companies and organisations who push the boundaries in their respective fields. These include AkzoNobel, Ashurst, Bowers & Wilkins, Dell Technologies, Gulf, InfiniteWorld, Pirelli, Richard Mille, Plan International and Tumi.

About McLaren Group:















The McLaren Group is a global leader in luxury automotive and elite motorsports with a focus on its Automotive supercar and Racing businesses.

Founded in 1963 by racer, engineer and entrepreneur Bruce McLaren, the Group is formed of McLaren Automotive, which hand-builds lightweight supercars; and a majority stake in McLaren Racing which competes in the Formula 1 World Championship and INDYCAR in the US.

The Group is globally headquartered at the iconic McLaren Technology Centre in Woking, Surrey, England.

With a reputation for innovation and technological excellence, McLaren is one of the UK's largest independent companies.

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