

# The new Porsche Panamera

Press kit

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## Fuel consumption and emissions

**Porsche Panamera:** Fuel consumption combined 10.5 – 9.6 l/100 km (WLTP); CO<sub>2</sub> emissions combined 239 – 219 g/km (WLTP)

**Porsche Panamera 4:** Fuel consumption combined 11.2 – 10.1 l/100 km (WLTP); CO<sub>2</sub> emissions combined 253 – 230 g/km (WLTP)

**Porsche Panamera Turbo E-Hybrid:** Fuel consumption combined (weighted) 1.7 - 1.2 I/100 km (WLTP); CO<sub>2</sub> emissions weighted combined 38 - 26 g/km (WLTP); power consumption combined (weighted) 29.9 - 27.5 kWh/100 km (WLTP); electric range (EAER) 76 - 91 km; electric range city (EAER city) 83 - 93 km

All data refers to the EU model.

All new vehicles offered by Porsche are type-approved according to WLTP. Official NEDC values derived from WLTP values are no longer available for new vehicles as of 1 January 2023 and can therefore not be provided. Further information on the official fuel consumption and official, specific CO<sub>2</sub> emissions of new passenger cars is available in the publication entitled 'Guidelines on fuel consumption, CO<sub>2</sub> emissions and power consumption of new passenger cars', which is available free of charge from all sales outlets and from DAT.

## **Highlights**

#### The new Panamera

#### • Innovative active suspension.

In Panamera E-Hybrid models, Porsche Active Ride offers outstanding body control and an impressive spectrum of comfort and performance.

#### E-Performance.

A new, more powerful electric motor, 11 kW charging power and a high-voltage battery with a capacity of 25.9 kWh mean more power, more range and faster charging in the Panamera Turbo E-Hybrid.

## Focus on the driver's line of sight.

The Porsche Driver Experience systematically aligns the cockpit with the driver and offers an intuitive display and control concept.

#### Completely connected.

Native apps and advanced Apple CarPlay® integration seamlessly merge the new Panamera into the driver's digital ecosystem.

### High-resolution and bright.

With more than 32,000 pixels, the HD Matrix LED headlights illuminate the road and its surroundings precisely and without glare.

#### Expressive design possibilities.

New colour schemes, a leather-free interior option and fresh design accents create room for individuality. The Sonderwunsch programme is also available for the Panamera.

## **Summary**

#### Digital, connected, more efficient: the new Panamera

The Porsche Panamera is entering its third model generation. The sports car manufacturer's luxury sedan emphasises its sporty character with even more powerful drive units. The profile is enhanced by a fundamentally updated operating concept and numerous innovative technologies. These include the new Porsche Active Ride suspension, which combines a significantly higher level of comfort with the sporty driving characteristics that are typical of Porsche. The integration of the user's own digital ecosystem into the Porsche Communication Management (PCM) system offers new ways of interacting with the Panamera. The design of the new Panamera is technical yet elegant, and dynamic – giving the model line's attractive proportions a fresh look. A wide range of driver assistance systems and a fundamentally redesigned, driver-centric interior enhance the driving experience.

## Superior feel with state-of-the-art suspension

The new Panamera comes as standard with adaptive two-valve air suspension including Porsche Active Suspension Management (PASM) and featuring two-valve dampers. The two-valve technology separates the damper control in the rebound and compression stages and as such offers an even greater spread between comfort and sportiness: The system noticeably dampens impacts from transverse joints and damaged road surfaces while at the same time ensuring more body stability in dynamic driving situations. Handling can be further improved with the optional all-wheel steering.

In addition, the innovative Porsche Active Ride active suspension is available as an option for the E-Hybrid models of the new Panamera. This system outperforms other suspension system designs in every key respect and offers an unprecedented breadth of capabilities between driving comfort and driving dynamics. The basis for this comes from newly developed active shock absorbers – also with two-valve technology – each connected to an electrically operated hydraulic pump. This generates a volume flow in the damper according to demand and can therefore build up forces between the body and wheels in a lightning-fast, highly precise and targeted manner. This counteracts and almost completely

compensates for the forces acting on the suspension as a result of uneven road surfaces. A

weight-saving single-chamber air-suspension system complements this technology.

The suspension keeps the body of the Panamera level at all times, even during dynamic

braking, steering and acceleration manoeuvres. With a smooth ride, the system absorbs

bumps almost completely. In dynamic driving situations, the Porsche Active Ride suspension

ensures a perfect connection to the road thanks to a balanced distribution of wheel loads.

If the appropriate mode is activated, the suspension can also compensate for pitching and

rolling motions to reduce the accelerative forces acting on the car's occupants. In this

setting, the new Panamera actually leans inwards into corners like a motorcycle. It also pulls

the front down when accelerating and the rear when decelerating. When stationary, the

Porsche Active Ride suspension system lifts the body to a comfortable height for ease of

entry and exit.

More E-Performance and comprehensively revamped engines

Porsche offers a total of four efficient E-Hybrid powertrains for the new Panamera, in

response to the high demand for this type of drive system. All E-Hybrid variants benefit from

greater performance, range and efficiency. The Panamera Turbo E-Hybrid is available right

from the market launch of the car. The heart of its powertrain is a fundamentally revised four-

litre V8 biturbo engine. The power output of the newly developed electric motor is 140 kW

(190 PS). Together, they create a system power output of 500 kW (680 PS). Overall torque

reaches an impressive 930 Nm. Porsche integrates the electric motor into the housing of

the comprehensively redesigned eight-speed PDK dual-clutch transmission. Dispensing

with a separate E-motor housing saves around five kilograms. The integration of the unit

into the transmission's oil circuit also optimises the heat balance of the electric drive unit and

therefore allows higher continuous output from the electric motor.

The Panamera Turbo E-Hybrid sprints to 100 km/h in 3.2 seconds and achieves a top speed

of 315 km/h. Its battery capacity is now 25.9 kWh. This enables an electric range of up to 91

km in the combined WLTP cycle or 83-93 km in the city cycle. A new 11 kW on-board AC

charger shortens charging time at suitable charging points to two hours and 39 minutes.

Dr. Ing. h.c. F. Porsche AG Communications, Sustainability and Politics Porscheplatz 1

The Panamera and Panamera 4 variants will also be available from launch. Modifications to

boost pressure, fuel injection flow rate and ignition timing optimise the performance of the

2.9-litre V6 turbo engine. It now generates 260 kW (353 PS) and offers 500 Nm of torque -

an increase of 17 kW (23 PS) and 50 Nm compared to its predecessor. This shortens the

Panamera's sprint from rest to 100 km/h to 5.3 seconds (5.1 sec. with the Sport Chrono

package) and boosts the top speed to 272 km/h. The all-wheel drive Panamera 4 now takes

5.0 seconds for the same measurement (4.8 sec. with the Sport Chrono package) and

reaches 270 km/h.

Exterior and interior: luxurious and sporty

The new Panamera retains the characteristic lines and proportions of the model line. It

measures 5,052 mm in length and is 1,937 mm wide and 1,423 mm high. Its fundamentally

revamped appearance, meanwhile, lends the sports sedan an even more expressive and

sporting appearance. At the front, an extra air intake above the number plate secures the

additional air required by the drive systems. The redesigned window line in the car's profile

reinforces the sedan-like character of the four-door sports car. The outer edges of the rear

window are flush with the contour of the body, creating harmonious lines at the rear of the

car.

The Porsche Driver Experience cockpit concept strikes an ideal balance between digital and

analogue control elements and positions the input and output elements essential for the act

of driving along the driver's axis. The selector lever is directly to the right of the steering

wheel. The mode switch for the Normal, Sport and Sport Plus driving programmes and the

assistance control stalks are also directly accessible to the driver. This means that the driver

does not have to take their eyes off the road to adjust the drive programmes and assistance

systems.

An optional passenger display closely integrates the passenger into the driving experience.

The 10.9-inch screen displays vehicle performance data on request. It also allows operation

of the infotainment system and supports video streaming while the car is driving. In order to

avoid distracting the driver, the passenger display cannot be seen from the driver's seat.

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A more distinctive Panamera Turbo E-Hybrid

Model variants bearing the name Turbo enjoy a special position at Porsche as the

performance flagships. The sports car manufacturer has strengthened this position in the

model line with the Panamera Turbo E-Hybrid. Its exterior design is characterised by a

distinctive rear bumper with painted diffuser panels, plus a unique front bumper painted in

the same colour as the car's exterior. There are also chrome-plated tailpipes in dark bronze

and optional centre-lock wheels, which can also be specified on the other Panamera models.

The Turbo-exclusive colour, Turbonite, is used as a contrast on the side window strips and

the Turbo logo on the tailgate, as well as in the Porsche crest on the front bonnet, wheels

and steering wheel. Inside, Turbonite is combined with carbon elements to create a sporting

ambience. The colour can be found, for example, in the central rev-counter in the instrument

cluster and as the colour of the controls in the centre console.

Digital experience and new assistance systems

The new Panamera will become an integral part of the driver's digital ecosystem. To log in

with their personal Porsche ID, all customers need to do is scan a QR code displayed in the

PCM with their smartphone. Apple CarPlay® and Android Auto enable the linking of

smartphone and vehicle data for improved usability. The integration of vehicle functions from

the MyPorsche app into Apple CarPlay® enables optimised operation of digital functions

and creates a clearer overview. Functions such as air conditioning, seat massage and

ambient lighting can be controlled directly via Apple CarPlay® or with the Siri® voice

assistant.

Porsche is also equipping the Panamera with standard Matrix LED headlights. The high-

resolution HD Matrix LED lighting system, which has more than 32,000 pixels per headlight,

is available as an option. It offers completely new lighting features, such as dedicated lane

brightening. The illumination range is up to 600 metres. Porsche has significantly upgraded

the range of assistance systems in the new Panamera. The standard active speed assistant

now interacts with traffic sign recognition. If the system is active, the Panamera will not

automatically drive faster than the appropriate speed limit. The Porsche InnoDrive including

adaptive cruise control features active lane guidance and junction assist. A swerve assistant

Dr. Ing. h.c. F. Porsche AG Communications, Sustainability and Politics Porscheplatz 1 is now also part of the range of functions. Also new is that, during automatic parking, the driver no longer has to be in the car, although they are still responsible for the manoeuvre. The parking process can be monitored from a smartphone with the new Remote ParkAssist function.

Porsche produces the new Panamera at the Porsche Plant Leipzig. The production site in Saxony is closely associated with the Panamera. From 2009 to 2016, the first generation of the four-door sports sedan was assembled there. For the second generation, Leipzig took over complete production of the sports car in 2016. Porsche invested some 500 million euros in the plant at the time. In just under two years of construction, a second body shop with a production area of roughly 60,000 square metres was built. Preparations for production of the third generation were carried out intelligently during ongoing operations.

## Chassis and brakes

## Porsche Active Ride High-end suspension for E-Hybrid models

Porsche is offering a new premium suspension system as an option exclusively for the Panamera E-Hybrid models. Porsche Active Ride, which features active two-valve shock absorbers and single-chamber air springs, regulates the forces of each individual damper actively, individually and at lightning speed. In this way, it always achieves maximum driving comfort and performance for any given situation. The design is fundamentally different from regular adaptive systems and other active suspension concepts. Porsche Active Ride offers a unique driving experience that spans the entire spectrum of dynamic behaviour, from the gliding comfort of a luxury sedan to the directness of response that's typical of a sports car. It delivers top marks in the disciplines of pitch and roll support, body stability, slow-speed driving comfort and handling performance. It also provides extensive additional functions.

The Porsche Active Ride shock absorbers are each connected to an electrically driven hydraulic pump. They generate a volume flow in the damper as required, which is then regulated separately in both the rebound and compression directions. The volume flow enables the piston in the damper to be moved up or down at lightning speed, allowing each wheel to actively extend or compress individually. The wheels therefore actively follow the contour of the road surface – they are pushed into potholes, for example, and lifted going over bumps. This is always done with the aim of correcting the unevenness of the road and keeping the surface as far away from the body as possible. The dampers operate at up to 13 Hz, which means they can adjust the setting up to 13 times per second and therefore react at lightning-fast speed to the driving situation and the road surface at any given moment.

Porsche Active Ride also does not require traditional anti-roll bars, as their effect is provided entirely by the active dampers. The dampers also perform the function of electronic anti-roll stabilisation (PDCC Sport). Moreover, the new shock absorbers make it possible to replace the complex three-chamber air suspension of the previous model with a system that features lightweight and efficient single-chamber air springs. The air suspension is used for speed-dependent control of the vehicle's ride height to improve driving stability and aerodynamics, as well as for automatic self-levelling depending on the occupancy or cargo load condition.

A lower or higher ride height can be selected manually in the Porsche Communication

Management system (PCM).

In summary, Porsche Active Ride offers the following functions:

Body control: Porsche Active Ride constantly monitors longitudinal and lateral

acceleration. It actively reacts to acceleration and braking inputs as well as to the driver's

steering movements. It also builds up forces that counter the natural pitching and rolling

movements of the body and in this way keeps the body level in all driving situations.

Insulation against uneven surfaces – the new Panamera almost literally floats over the

asphalt: the Porsche Active Ride suspension detects and balances out road bumps with

exceptional responsiveness. Occupants feel very little body movement on uneven surfaces.

Dynamic wheel load distribution: The tuning of the suspension makes a fundamental

contribution to the traction of the vehicle. Porsche Active Ride dynamically adjusts the setting

of the springs and dampers to any given driving situation. With rolling moment distribution

based on vertical, longitudinal and lateral forces, the new Panamera constantly makes

optimum use of its grip potential, taking into account all-wheel distribution and differential

lock torque.

Dynamic ground clearance: In high-performance driving situations, especially when

braking or with significant lateral acceleration, Porsche Active Ride lowers the body of the

Panamera. The lower centre of gravity reduces load transfer on the wheels. The active

suspension geometry, meanwhile, increases the camber and therefore improves traction.

**Active cornering dynamics:** Porsche Active Ride can not only compensate for the pitch

and roll of the vehicle's body, but it can also actually overcompensate for it when the function

is activated. If the correct box is ticked in the PCM, the suspension builds up forces during

cornering against the natural direction of body roll and actually tilts the body towards the

inside of the bend. In this way, the new Panamera reduces the effect of lateral acceleration

acting on the occupants. The result is similar to that of a banked curve on motor racing

circuits.

Acceleration and braking comfort: Based on the principle of active cornering, the

suspension also counteracts pitching movements during acceleration and braking. This

function is similar to the flight position of a helicopter when accelerating or decelerating. This

must also be activated in the PCM.

Comfort entry and Smart Lift: If desired, Porsche Active Ride increases the vehicle's ride

height to ease getting in and out for all passengers. The Smart Lift function also

automatically lifts the ride height based on location data previously stored by the driver, and

in this way prevents the Panamera from scraping its body in potholes or on steep driveways.

Standard two-chamber air suspension with two-valve dampers

A Porsche is always the most dynamic car in its class. Yet with its positioning as a luxury

sedan, the requirements for an outstanding level of comfort are also particularly high in the

Panamera. So Porsche has equipped the new Panamera with newly developed two-valve

air suspension as standard. The two-valve technology enables the adaptive dampers to

adjust the rebound and compression stages independently of each other. This considerably

expands the breadth of chassis capabilities between that of a comfortable, gliding character

and a decidedly high-performance setup. The technology makes it possible to switch from

the tried-and-tested three-chamber air spring to a lighter two-chamber system with improved

suspension performance. In addition, optimisations to the hydraulic mounts on the front axle,

the rear axle beam bearings and the wishbone bearings on the rear suspension ensure

noticeably increased comfort when driving over bumps.

With the new suspension, Porsche simultaneously achieves reduced body movements and

improved body insulation. The four-door sports car pitches and rolls less when braking and

when driving through dips or over undulations and crests. The result is a faster, more

sensitive chassis response and noticeably smoother suspension behaviour. At the same

time, the suspension has the potential to significantly increase the damping force in the

rebound and compression directions depending on the situation, thereby optimising the car's

performance. This is particularly evident in fast cornering. In addition, the new air spring with

optimal valve control reduces the energy consumption of the suspension.

Dr. Ing. h.c. F. Porsche AG Communications, Sustainability and Politics Porscheplatz 1 D-70435 Stuttgart New electric brake booster

Porsche has deployed an electric brake booster in the new Panamera. All variants benefit

from newly adapted brake pedal characteristics, which significantly improve pedal feel and

brake precision. In the E-Hybrid models, engineers have also succeeded in smoothing out

the transition between the energy regeneration braking effect (which is achieved via the

electric motor) and the effect of friction braking (which is achieved via the wheel brakes).

Although two braking systems complement each other in these variants, this gives the driver

optimal control of the braking force. And no energy is wasted in the process: the electric

motor generates current when decelerating to a standstill.

In the Panamera and Panamera 4, Porsche uses a brake system with six-piston fixed

callipers and grey cast iron discs measuring 360 millimetres x 36 millimetres at the front. At

the rear, there are four-piston fixed callipers and 330 mm x 28 mm grey cast iron discs. The

standard-fit brakes on the Panamera Turbo E-Hybrid are 10-piston fixed callipers at the front

and grey cast iron brake discs measuring 420 mm x 40 mm, with four-piston fixed callipers

and 380 mm x 30 mm grey cast iron brake discs at the rear.

For the Panamera Turbo E-Hybrid, Porsche is offering a new 21-inch performance tyre as

an option: the Pirelli P Zero Corsa improves track-driving suitability through increased grip

levels, improved precision and higher temperature resistance. Its wet-weather properties

have also been further optimised.

#### **Powertrains**

## Panamera Turbo E-Hybrid with high electric performance

Efficiency and performance are core values for Porsche. With the new generation of the Panamera, Porsche is once again heightening this focus. The Panamera Turbo E-Hybrid is one of a total of four variants with a plug-in hybrid drive that Porsche will launch successively for the third-generation car. With a total output of 500 kW (680 PS) and torque of 930 Nm, the Turbo E-Hybrid makes its debut at the top of the model line, succeeding the previous Panamera Turbo S in its range-topping role. The extensively revised 4.0-litre V8 twin-turbo engine and a newly developed electric motor enable impressive driving performance and long-lasting electric performance. The Panamera Turbo E-Hybrid reaches a top speed of up to 140 km/h in pure electric mode with an output of 140 kW/190 PS and torque of 450 Nm from the new electric motor. If the Panamera Turbo E-Hybrid taps into its full power, it can accelerate from 0 to 100 km/h in 3.2 seconds and reach a top speed of 315 km/h.

The heart of the powertrain system remains a compelling combustion engine. Porsche's continually refined eight-cylinder engine meets demanding exhaust standards worldwide with further reductions in fuel consumption and emissions without losing any of its dynamic performance. The engine has new turbochargers that work according to the monoscroll principle. Compared to the twin-scroll chargers in the previous model, this shortens the warm-up phase of the catalytic converters. This allows them to work at full performance more quickly. It also raises the maximum permissible exhaust gas temperature. In addition, Porsche has increased the peak pressure in the combustion chambers to 140 bar. These measures substantially shorten the warm-up phase and increase efficiency during more vigorous use.

The upgraded powertrain dispenses with cylinder deactivation. Instead, it adjusts the valve lift to a low or high level with actuators on the intake camshafts. At low loads, the engine works with short opening times and minimal lift to achieve the highest possible efficiency. Under high loads, the valves open wide and for a long time in order to achieve a high cylinder charge and therefore achieve high torque levels combined with optimised CO<sub>2</sub> emissions. Special magnetoresistant camshaft sensors determine the positions of the camshafts in real time and thereby enable the engine control system to set the valve lift and valve opening

times in the best possible way. By optimising insulation, engineers were also able to reduce

unwanted background noise and heighten the exhilarating character of the charismatic

engine note.

Electric motor integrated into the transmission housing

Porsche combines the 4.0-litre V8 twin-turbo engine in the Panamera Turbo E-Hybrid with

a new electric motor. Rather than being a supplementary component of the drive package,

it is deeply integrated into the design of the gearbox. Dispensing with an independent electric

motor housing and placing it in the housing of the transmission itself saves around five

kilograms in weight. An internal rotor, an electric motor in which the stator surrounds the

rotor, is used. This design promotes a more spontaneous and dynamic response.

The design of the powertrain prioritises the electric motor. The engine decoupler is now open

in the initial position, so by default the electric motor alone drives the vehicle. It is only when

the power of the eight-cylinder engine is required that the decoupler closes and engages

the engine into the rest of the drivetrain.

The electric motor is now also more efficient. By switching from water to oil cooling and

integrating this into the transmission's ail circuit, Porsche also optimises the heat output of

the electric motor. This allows a higher power output and increases the recuperation capacity

of the electric motor. The Panamera Turbo E-Hybrid recuperates up to 88 kW of power – an

increase of 19 kW. When decelerating, the vehicle's energy recuperation operates down to

a speed of just two km/h.

More electric performance

A new high-voltage battery powers the electric motor of the Panamera Turbo E-Hybrid. This

compact module is integrated into the rear of the vehicle to save space and has a capacity

of 25.9 kWh. It enables an electric range of up to 91 km in the combined WLTP cycle or 83

- 93 km in the city cycle. Despite this increase in range of about 45 per cent compared to

its predecessor, the space the new battery takes up is comparable with that of the previous

generation. This is because optimising cell chemistry has resulted in a higher power density.

And yet despite the larger battery capacity, the charging time continues to reduce: all E-

Dr. Ing. h.c. F. Porsche AG Communications, Sustainability and Politics Porscheplatz 1 Hybrid models are equipped with an 11 kW AC charger as standard. At suitable charging stations and wall boxes, the battery can be charged in roughly two hours and 39 minutes.

Porsche is also further refining the E-Hybrid driving modes of the Panamera and linking them more closely to the navigation. In E-Charge mode, the drive system operates in hybrid mode in city traffic below 55 km/h. Only at higher speeds in out-of-town driving does it use the engine's power to charge the high-voltage battery. In the Sport and Sport Plus driving modes, the Panamera now charges the battery to 20 and 30 per cent respectively. In the previous model, it was 30 or 80 per cent. This increases efficiency without compromising performance.

The rear-wheel-drive Panamera and the all-wheel-drive Panamera 4 are equipped with optimised and performance-enhanced 2.9-litre twin-turbo engines. They have been prepared for the fulfilment of future emissions standards with extensive internal engine measures. With a power output of 260 kW (353 PS) and torque of 500 Nm, they outperform their equivalents in the previous car by 17 kW (23 PS) and 50 Nm. The performance upgrade shortens the sprint from 0 to 100 km/h to 5.3 seconds (5.1 sec. with the Sport Chrono package) for the Panamera and 5.0 seconds (4.8 sec. with the Sport Chrono package) for the Panamera 4. The top speed increases to 272 km/h in the Panamera and 270 km/h in the Panamera 4. A newly developed sports exhaust system optionally intensifies the charismatic sound of the six-cylinder engines.

All variants benefit from the new eight-speed Porsche Doppelkupplung (PDK), which has been further enhanced exclusively for the Panamera. It improves interaction with the engine and enables particularly fast shift times or particularly smooth gear changes depending on the driving mode selected. Its design also takes into account the significantly increased drive torque of the new Panamera. And it can handle a torque of more than 900 Nm with aplomb.

Lights and assistance

Innovative lighting technology and new assistance systems

The new Porsche Panamera features newly developed matrix LED headlights as standard.

Its appearance is characterised by four three-dimensional light modules. They generate the

characteristic Porsche four-point daytime driving lights and are arranged around the central

Bi-Matrix module for dipped beam and matrix high beam. The headlights automatically

control illumination of the road based on camera and navigation data as well as vehicle

speed. The system also uses the camera function to detect vehicles ahead and oncoming

traffic. The distribution of the high beam is then controlled to provide optimal illumination of

the road without dazzling other road users. For this purpose, the high-beam area is divided

into 11 vertical segments that can be illuminated or dimmed according to the situation to

prevent dazzling of oncoming traffic.

The new HD matrix LED light

Particularly innovative and high-performance HD matrix LED headlights are available as an

option in the new Porsche Panamera. The core element of the innovation is an LED chip

that combines more than 16,000 individually controllable micro-LEDs on the surface area

the size of a thumbnail. It all adds up to more than 65,000 LED elements for both headlights.

The headlights with HD matrix technology therefore offer high-resolution and highly flexible

light distribution that's up to two times brighter, as well as extremely homogeneous

illumination.

In addition to four-point daytime driving lights and static cornering lights, each of the new

headlights includes two of the new HD matrix modules and two bi-functional modules for

courtesy lighting and the auxiliary high beam. These four main light sources are arranged in

a four-point design that is characteristic of the brand. The new HD matrix technology also

stands apart in terms of design: for the first time, the distinctive Porsche four-point headlight

graphics of the daytime running lights can also be seen at night when the new system is

used - with both low and high beams. Each of the two HD modules per headlight has

specifically ground lenses made of optical glass and which produce different angles of

illumination. The wide-angle lens of the outer HD matrix module ensures wide illumination.

The inner HD matrix module with telephoto lens radiates the light in a very concentrated – and therefore much brighter – fashion. The light distributed by the two HD modules overlaps in the centre. In this way, the new headlight combines a wide area of illumination

with a high intensity beam at its core.

narrow-lane lighting.

Beyond the excellent illumination, the new HD matrix LED system is primarily characterised by the flexibility of the light distribution. The system is controlled using a wide variety of available data, such as from the front camera, the GPS module, the chassis sensors and available navigation data. This enables the implementation of new and optimised lighting functions for greater safety and comfort. One example is a new non-dazzling high-beam function in two-way traffic: large areas to the right and left of the anti-dazzling gap become significantly brighter. This improves the driver's visibility without dazzling the oncoming traffic. Other functions include brightening the driver's lane via a light carpet in front of the car on motorways and comparable roads as well as special settings for roadworks and

More comfort and safety when driving and parking

The range of functions of the standard and optional assistance systems in the Porsche Panamera has significantly increased with the model change. This noticeably improves the levels of comfort and safety. Porsche equips the Panamera as standard with the ParkAssist system, reversing camera, Lane Keeping Assist system including Traffic Sign Recognition, Warn and Brake Assist including pedestrian protection, and Active Speed Limit Assist. This system features a new limiter function that interacts with Traffic Sign Recognition. If the system is active, the vehicle will automatically not drive faster than the current posted speed limit. Of course, the system can be overridden with the accelerator pedal. The driver can also temporarily set a different speed via the control lever.

Numerous other assistance systems with an increased range of functions are available as options. Porsche InnoDrive with Adaptive Cruise Control now has Active Lane Keeping and Intersection Assist. The Active Lane Keeping automatically drives the vehicle within the lane markings. In traffic jams, the car automatically starts up again for up to 60 seconds after a

standstill when the vehicle in front starts moving. Hands-off monitoring ensures that the

driver continues to focus their attention on the road. The Intersection Assist function warns you when the car starts moving even though other road users are crossing or approaching.

Porsche supplements the Adaptive Cruise Control with an Evasion Assist function which helps steer the vehicle around obstacles in critical situations. Turn Assist is also new. It monitors oncoming vehicles when turning across the flow of traffic and performs emergency braking in dangerous situations. The active Lane Change Assist feature also offers new functions: when getting out of the car or pulling the car out into traffic, it monitors the road behind via the rear radar and warns if other vehicles are approaching.

Porsche has also introduced new and optimised functions in the ParkAssist feature. To better assess the surroundings, the intelligent ParkAssist calculates a prospective 3D representation of the surroundings from camera images. Active Parking Assistance independently detects parking spaces and is able to park automatically in parallel or perpendicular parking spaces after initiating the parking process.

The driver only needs to monitor this process, as they continue to be responsible for the parking process. However, with the new Remote ParkAssist function, the driver no longer has to be in the car. After the start of the automatic parking process, they can leave the car and supervise it entering or leaving the parking space via their smartphone. As long as the driver is pressing the corresponding button in the smartphone app, the Panamera continues the parking process. The function is available for parking and exiting processes for longitudinal and perpendicular parking spaces as well as for garages.

Networking and equipment

Deep integration of the personal digital ecosystem

The new Panamera offers significantly more digital and networking options than its

predecessor: new infotainment functions ease operation and ensure an even more intuitive

driving experience. Powerful hardware further enhances the multimedia experience. The

new wireless charger with cooling function significantly reduces the charging time for

smartphones, offering 15 watts of power. There are also two USB-C fast charging ports in

both the front centre console and in the rear.

For the first time, the Panamera also offers the possibility of video streaming. The third-party

application 'ScreenHits TV' can be used to access various popular streaming services,

depending on the market. Videos are shown on the 10.9-inch Passenger Display, available

for the first time in the Panamera, as well as the 12.3-inch centre display, albeit only while

stationary in the latter case for safety reasons. Porsche uses a special foil on the passenger

display to ensure that the driver is not distracted by the streaming service while driving.

Logging on with the Porsche ID is easier in the new Panamera. The driver only needs to

scan the QR code displayed in the PCM with the My Porsche app. There is no need to enter

the Porsche ID and password in the PCM. Also new: Porsche has integrated popular music

streaming apps as native apps directly in the PCM system. This makes it easier to use as

the apps are available when Porsche Connect is activated even when the smartphone is not

connected to the car. In addition, Porsche has integrated the Apple CarPlay® service more

deeply into the Panamera's displays and functions. This simplifies operation of many

smartphone functions. The service is adapted to the familiar Porsche Connect design.

By integrating the My Porsche app into Apple CarPlay®, Porsche links the user's digital

smartphone ecosystem even more closely to the car. This makes it possible to control

vehicle functions directly from the user's personalised digital ecosystem. The Siri® voice

service can be used, for example, to control the air conditioning, the ambient lighting and

the massage function as well as to change the radio station. The voice service can be

activated directly via the Voice Pilot button. It is also possible to share performance data

from the last trip directly with contacts.

Dr. Ing. h.c. F. Porsche AG Communications, Sustainability and Politics Porscheplatz 1 More comfort and new features

Even since its launch, the Panamera has combined the dynamic qualities of a Porsche with

the comfort of a luxury sedan. In the new Panamera, Porsche has further refined this

positioning with numerous sophisticated comfort solutions. This includes the new air quality

system, which reliably protects occupants against particles and harmful substances. The

system's standard equipment includes the fine dust filter and the GPS recirculation function.

It uses predictive navigation data to automatically activate air recirculation when the car is

about to enter a tunnel. This prevents odours and exhaust fumes that might accumulate

there from reaching the passenger compartment in the first place. If route planning is

activated, the system takes tunnels along the set route into account well in advance.

As an option, a fine dust sensor continuously measures the level of PM 2.5 fine dust particles

in the interior air and the ambient air. If the air quality around the car decreases, the air

quality system switches to recirculated air and cleans the air inside by passing it through the

fine dust filter several times. An ioniser is also optionally available to remove germs and

pollutants from the air, a boon to allergy sufferers in particular.

High-end sound systems with a new 'Driver' mode

As an alternative to the standard Sound Package Plus, Porsche is once again offering a

Bose® surround sound system and a Burmester® 3D high-end surround sound system in

the new Panamera. In both systems, a driver-focused setting called 'Driver' can be activated.

It optimises the sound experience in the driver's seat. In both systems, new subwoofer

technology is also used. The Fresh Air subwoofer produces low frequencies in an open

housing and utilises the ambient air for this purpose. This saves both installation space and

about 3.2 kilograms of weight while maintaining first-class sound quality.

**Executive models with new rear seats** 

As before, the Porsche Panamera offers a particularly sporty seating position compared to

rest of the segment. Porsche equips the Panamera with four standard single seats, and the

front seats are eight-way electrically adjustable. As an option, 14-way electrically adjustable

comfort seats and 18-way electrically adjustable sports seats available in the front. In the

Dr. Ing. h.c. F. Porsche AG Communications, Sustainability and Politics Porscheplatz 1 rear, Porsche offers optional 4+1 seats as well as electrically adjustable comfort individual seats with memory function. New, improved seat foam materials increase seating comfort in all configurations.

In the Executive models (specific to certain markets), which feature a wheelbase extended by 15 centimetres, an improved rear seat system with flatter side bolsters and a flatter basic contour is part of the standard package. This shifts the seating position toward the rear, which benefits leg support and knee clearance. A new soft foam pad under the seat cover improves seating comfort, while new comfort head cushions add to the luxurious seating experience. All Executive models also come with four-zone climate control as standard, as well as the new 15-watt wireless charging function in the rear centre console.

Exterior design

**Updated proportions** 

The design of the new Porsche Panamera has been systematically refined, giving it an even

more commanding presence. Sharpened lines on the redesigned front and rear sections

underscore the car's sporty character. The headlights are steeper than on the previous

model, the wings are more pronounced and the bonnet is more clearly contoured. It all gives

the new Panamera a fresh, technical and even more muscular look. Two filigree light guides

in the three-dimensional, continuous rear light of the Panamera create an unmistakable look

at the rear. Porsche has also sharpened the car's flanks in many areas. The redrawn window

line emphasises the coupé-like line of the four-door sports car. All measures unmistakably

identify the Panamera as a Porsche and give it an even more athletic and modern look. They

put the stamp of the future on the classic silhouette and proportions of the Panamera.

**Updated Porsche crest** 

The Porsche Panamera is one of the first models to hit the road with the carefully

modernised Porsche crest. Following the revision to mark the '75 Years of Porsche Sports

Cars' anniversary, the crest of the sports car brand is now cleaner and more modern, and

the rearing horse has been thoughtfully redesigned. The designers reinterpreted classic

elements and enhanced the logo with innovative design elements such as brushed metal

and a honeycomb structure. This clearly anchors the Porsche trademark in its history while

further developing the design.

Greater athleticism and emphasis on width

Directly under the modernised crest, there is a new, additional air inlet above the number

plate holder. It takes into account the requirements of the new engines for an increased air

flow and forms a single visual unit with the trapezoidal lower air intake. The large,

rectangularly contoured side air intakes emphasise the width of the new Panamera. In the

Panamera Turbo E-Hybrid, they only end at the level of the upper air intake and thereby

signal the car's enhanced performance. In addition, the Turbo E-Hybrid is visually

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differentiated by precisely crafted Turbo front lights, vertical bars in the vehicle colour and

side airblades. They lend the top-of-the-range model an even more commanding presence.

In the case of the Panamera and the Panamera 4, vertical front lights now frame the front

bumper at the sides.

An important design feature of the new Panamera is the more pronounced wings in front.

The bonnet, by contrast, appears lower. This clearer reference to classic Porsche shapes

also makes the Panamera look more striking and muscular. The more contoured central part

of the bonnet continues the line of the new matrix LED headlights. They are steeper in the

front of the new Panamera, emphasising the vehicle's width.

One particular highlight is the new, high-resolution HD matrix LED headlights (these are

optional, though standard on the Turbo E-Hybrid). By dividing the main lighting functions into

four almost squarely arranged LED modules, the characteristic Porsche four-point lighting

graphics of the daytime running lights can also be seen at night in the new system for the

first time – in both the dipped and high beams. This ensures an easily recognisable visual

signature at night.

Characteristic features of the Panamera include the dynamic side view, which highlights its

sports car genes. This flyline is even more striking on the new Panamera. The re-contoured

window line rising at the rear of the vehicle, with its distinctive bend on the D-pillar, clearly

identifies the new Panamera as a sports sedan. The air outlet integrated in the front wing is

now more strongly flared and continues in boldly contoured form over the flank, giving the

flyline a greater sense of tautness.

Sharpened, more dynamic rear

The three-dimensional rear light with the integrated PORSCHE logo emphasises the

dynamic look of the car's rear. The continuous light strip spans the entire rear of the vehicle,

while two filigree arcs produce a distinctive light signature. The illuminated and free-standing

lettering is effectively highlighted by the three-dimensional integration of the tail light. The

designers succeeded in integrating the rear hatch into the C-pillar without a visible gap. The

frameless rear window gives the tail end of the car a fresh, elegant look. Sharper tear-off

edges on the roof and on the adaptive extending rear spoiler, as well as the overall tighter

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Porsche Newsroom Media contact lines, give the rear of the Panamera a cleaner and more athletic appearance. The new side tear-off edges in the rear part not only convey a high level of dynamism but also improve the aerodynamics. The same applies to the redesigned rear bumper. The exhaust system for the Panamera and Panamera 4 features two single-tube tailpipes on the outside left and right in brushed stainless steel.

#### More presence and new accents for Panamera Turbo E-Hybrid

Porsche now highlights the turbo variants even more clearly than before for the range-topping models. The Panamera Turbo E-Hybrid has a separate rear bumper with diffuser panels painted in the exterior colour and two double tailpipes in bronze on the left and right edges. Numerous other details distinguish the Panamera Turbo E-Hybrid from the Panamera and Panamera 4. Much like the GTS models, which signal their performance-focused orientation with accent colours in Carmine Red and Black, the Panamera Turbo E-Hybrid uses the Turbo-exclusive accent colour Turbonite. It features on numerous add-on parts and the wheels available for the Turbo E-Hybrid. Turbonite is an elegant, warm grey with a premium-feeling bronze undertone that sits well with all available exterior colours. Porsche uses Turbonite in the side air blades of the air intakes on the front end, as well as the side window trims, the 'Turbo' model designation on the tailgate, the 'E-Hybrid' lettering on the front doors and the strip in the rear bumper. Porsche also uses Turbonite for the Porsche crest on the bonnet and on the wheels of the car. With the optional SportDesign side skirts in Black, the inlay stands out in Turbonite.

#### Four colour schemes for more variety

The new Panamera can be further individualised with a variety of new paint shades. The exterior colour palette has been redesigned. It is now divided into four colour schemes that meet different customer requirements and ensure a wider spread of colour options. They are called Legends, Dreams, Shades and Contrasts. The Legends colour scheme denotes extraordinary yet classical style. The paints are particularly high-quality and rich in nuance.

Legends includes shades such as Aventurine Green Metallic and Copper Ruby Metallic. The heritage shade of Oak Green Metallic Neo is a nod to Porsche history. The range in the Dreams colour scheme is colourful, expressive and bright. In addition to the elegant Gentian Blue Metallic, there's the spectacular Madeira Gold Metallic. The Panamera Turbo E-Hybrid comes as standard with colour tones from the Dreams range. For a more discreet appearance, five metallic shades from Jet Black Metallic to Dolomite Silver Metallic and Carrara White Metallic make up the Shades colour scheme. The Contrasts category, which is based on a clear, purist aesthetic, works exclusively with black and white.

#### Centre-locking wheels available for the first time

A completely new range of wheels underlines the striking appearance of the new Panamera. The sports sedan can be adapted to your personal wishes with a total of eight new wheel designs measuring 19-, 20- and 21-inches in diameter. For the first time, this includes a 21-inch wheel with a centre lock, which is visually reminiscent of the classic Turbo Design wheel. The forged aluminium rim is available as an option and exclusively for the Turbo E-Hybrid. There are also new wheel designs to choose from for the other model variants. The optional 21-inch Turbo Design wheel remains in the programme.

**Interior** 

New control concept in the Panamera

With the model change, Porsche's latest driver-centred control concept is being introduced

in the Panamera. The Porsche Driver Experience stands for a fully digital display, versatile

individualisation and intuitive operation. The focus is entirely on the driver's line of sight: all

controls that are crucial to actively driving are grouped directly around the steering wheel

and are therefore directly accessible. This allows the driver to operate more quickly, more

easily and ultimately more dynamically. Another feature of the new control logic from

Porsche is striking the right balance between digital and analogue elements.

As usual with Porsche, the highest point on the dashboard is the instrument cluster, a digital,

free-standing 12.6-inch display in a curved and free-standing design. It's divided into three

areas. Depending on the specified equipment, driving information can be displayed in up to

seven different views. This includes a 3D driver assistance display and a display based on

Porsche's 'Classic' five-pipe design. An optional head-up display is also available. The driver

can adjust the displays and the position of the head-up display directly from the sports

steering wheel without taking their eyes off the road.

In classic Porsche fashion, the start button is located to the left of the steering wheel. The

designers have positioned the significantly smaller selector lever for the automatic

transmission to the right of the steering wheel, between the instrument cluster and the

dashboard. Porsche has placed the standard mode switch for quick selection of the Normal,

Sport and Sport Plus driving programmes as well as a toggle switch for quick access to

functions of the instrument cluster on the multifunction Sports steering wheel. The mode

button on the fundamentally revamped control lever for the assistance systems allows

lightning-fast selection of driving assistance functions. Further settings can be made via

context-related pop-ups in the instrument cluster.

The dashboard, with its elegant black panel design, integrates the high-resolution 12.3-inch

central display and the optional 10.9-inch passenger display, which is available for the first

time in the Panamera. The central display controls the functions of the Porsche

Communication Management (PCM) infotainment system as usual. The Passenger Display

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gives occupants of the front passenger seat access to an innovative display and control

interface of their own. It can be used, for example, to operate infotainment functions such

as the radio or navigation system, display dynamic driving information and even stream

videos. A special film ensures that the driver is not distracted.

The new position of the gear selector lever enables the complete redesign of the centre

console and the climate control panel. It now features large touch-sensitive control surfaces

with intuitive tactile feedback. The driver and front passenger control the temperature, the

ventilation level and switch the air conditioning on and off via five physical climate switches.

Directly below this is a mechanical rotary push-button that controls the volume of the audio

system.

The new, louvre-less air vents also contribute to the new Porsche Driver Experience in the

Panamera. They can be operated via pre-programmed automatic ventilation modes or

adjusted completely electrically. This allows you to switch between draught-free air

conditioning and rapid cooling with a single click.

High-quality, modern interior design

The interior of the new Porsche Panamera features a stylish overall look made up of modern

technical details, premium materials and delicate décors. The focus is always on operating

efficiency with regard to dynamic driving. Characteristic of the Panamera are the steeply

rising centre console and the width-emphasising black panel and its decorative elements,

which also help to underscore a sense of width. It combines the central display and the

optional Passenger Display into an elegant single unit, creating a calm and high-quality

appearance. For the first time, Porsche has also implemented ambient lighting across the

entire width of the dashboard in the new Panamera, which further enhances this effect.

The newly designed seat surfaces contribute to the clean, sporty, high-quality ambience in

the new Panamera. Transverse seams and single fell seams on the contours of the seats

create a restrained but clear visual structure.

Porsche has completely revised the colour and material options in the interior. Initially, two

part-leather and six leather variants as well as two particularly high-quality club leather seat

Dr. Ing. h.c. F. Porsche AG Communications, Sustainability and Politics Porscheplatz 1 upholstery options are available. Particular attention was paid to a broad selection of two-tone designs. This creates extensive and precisely coordinated options to accentuate the interior appearance in terms of colour. The colour matching between the Sport Chrono on-board clock and the digital rev counter is a particularly lovely detail. In addition, there are other new décor and accent options that Porsche is offering together in various packages. The customisation options range from particularly high-quality to maximum sportiness. Due to popular demand, Porsche is also offering leather-free equipment in the Panamera for the first time, combining particularly sporty materials such as Race-Tex with faux-leather.

## Interior of the Panamera Turbo E-Hybrid

Traditionally, Porsche Turbo models are the range-toppers in their respective model lines. In the new Panamera, Turbo versions can be identified in the interior by several exquisitely designed accents in Turbonite. In combination with carbon elements, this Turbo-specific colour creates a particularly sporty ambience and can be found, for example, on the Porsche crest on the GT sports steering wheel, in the central rev counter in the digital instrument cluster, as the colour of the controls in the centre console and as an accent on the door panels.

**Personalisation** 

**Porsche Exclusive Manufaktur** 

Individuality is at the core of the Porsche brand. There is therefore a large number of options

already available for the new Panamera in the configurator to meet the customisation

requirements of customers in this segment. In addition, Porsche's overlapping customisation

programmes Paint to Sample, Paint to Sample Plus and Sonderwunsch further broaden the

already extensive standard range. Paint to Sample includes more than 50 predefined,

technically approved colours for the Panamera. With the Paint to Sample Plus option, the

paintwork can be chosen almost without restriction. This includes an extensive feasibility

study.

Porsche Exclusive Manufaktur has developed a number of directly configurable options for

the new Panamera. These include the SportDesign package including sill trims in Black or

Turbonite as well as the SportDesign package in Carbon Fibre + Aerokit and special 21-inch

wheels. Six shades are available for each of the Exclusive Design and Sport Design wheels.

In addition, there are tinted HD matrix LED headlights and tail lights with both departure and

welcome-home animation. A special Sports exhaust system with tailpipes in dark bronze

rounds off the exterior options for the new Panamera from the Porsche Exclusive

Manufaktur.

Porsche Exclusive Manufaktur will also upgrade the interior on request. Interior packages in

matt carbon with contrasts in Neodyme, Carmine Red or Ceramica can be configured

directly. In addition, there are extended leather options, for example on the handles, the

luggage compartment lid or the seat consoles. The leather-free finishes include the option

of colour-coded decorative stitching and matching seat belts. The dial of the SportChrono

cockpit watch can be configured in a matching Night Green on a Kalahari grey background.

The GT sports steering wheel can be specified with a carbon trim on request. Even for

vehicle keys and floor mats, Porsche Exclusive Manufaktur offers particularly high-quality

options.

Panamera joins the Sonderwunsch programme

Beyond the directly configurable options, Porsche pursues a systematic approach to

customisation. The Sonderwunsch programme from Porsche Exclusive Manufaktur

combines the maximum individuality of a custom workshop with the uncompromising

perfection of a large car manufacturer. Porsche has now brought the eponymous 1970s

programme to the present day. It enables customer-created, personalised one-offs

professionally implemented by Porsche.

The Sonderwunsch programme, which was restarted at the beginning of 2022, is comprised

of three strands. First, customer-specific colour and material requirements in the interior and

exterior can be integrated directly into the production run. The second strand is Factory Re-

Commissioning. Here, it is possible to retrofit previously manufactured vehicles with new

colour and material options according to special requirements. This is also possible after

several years and in collaboration with Porsche Classic for classic Porsche vehicles. The

third strand is the Factory One-Off option. At Porsche, this term describes cars that are not

only customised or revised in terms of appearance, but also in terms of technology, at the

customer's request. The options range from a complete restoration to new technical

developments. Depending on the vehicle's age, the technical experts at Porsche Exclusive

Manufaktur or Porsche Classic take care of implementation.

The implementation of special requests for the Porsche Panamera is carried out via Factory

Re-Commissioning. The customer can become a co-project manager and work out their

special wishes in close cooperation with Porsche designers and developers. They check the

customer's ideas for feasibility and work out the details with them, including technical

certification. This ensures that the result meets all Porsche quality standards in every detail.

The implementation takes place either directly after the production of the car or at a later

stage – as desired.

Dr. Ing. h.c. F. Porsche AG Communications, Sustainability and Politics Porscheplatz 1 D-70435 Stuttgart Panamera Turbo 'Sonderwunsch' demonstrates the potential of the Sonderwunsch programme

Porsche demonstrated the almost unlimited options of the Sonderwunsch programme during the world premiere of the new Panamera. The Panamera Turbo 'Sonderwunsch' show car illustrates a number of possibilities. Specially created colour tones, individual accents and planning down to the last detail demonstrate the all-encompassing nature of the Sonderwunsch programme from Porsche Exclusive Manufaktur.

The demonstration model, customised by Porsche Exclusive Manufaktur, was given a two-tone colour scheme in the specially mixed shade of Leblon Violet Metallic. This is a chestnut shade with a violet note. In an elaborate painting technique, the colour fades into a solid black in the lower third of the car. The door sills and front and rear spoiler lips are in solid black. The darkened headlights, tail lights and windows are perfectly matched, and the tailpipes were designed by Porsche Exclusive Manufaktur designers in Black. They also mixed real gold flakes into the car's clear lacquer coating, creating a spectacular glitter effect.

The exterior of the Panamera Turbo 'Sonderwunsch' also features pinstripes in Avium Metallic with an integrated 'Sonderwunsch' logo. Porsche Exclusive Manufaktur also lacquered the face of the 21-inch centre-lock wheel rims and the frames of the side windows in this colour. In contrast, the rim base features the main shade of Leblon Violet Metallic.