



By appointment
to HM The Queen
motor car manufacturers
Bentley Motors Limited
Crewe Cheshire



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Press Information

ONBOARD TECHNOLOGY FOR AN EXCEPTIONAL CUSTOMER EXPERIENCE

- The main Infotainment display is a 12.3" high-resolution touchscreen, with a user interface designed to be akin to a modern mobile phone. Menus are structured to be instantly intuitive. The system features a configurable home screen containing three windows which can display the driver's preferred functions (navigation, media and telephone, for example). Menus pop up automatically as the user approaches the screen through the use of an in-built proximity sensor.
- The driver's instrument panel is now fully digital – a first for Bentley. Configurable by the driver, the display can show information from across the infotainment system including satellite-navigation information. The graphics of the display have been designed with the same attention to detail as the physical components, maintaining precise tolerances in how graphics appear and function. For example, digital chrome bezels have been mastered to appear to "shine" exactly as a real bezel would.
- A key interior feature is the new Bentley Rotating Display – a three-sided information unit housed in the dashboard, that can switch between the main 12.3" touchscreen, a set of three analogue gauges (outside air temperature, a compass and a chronometer) or a book-matched piece of veneer.
 - 40 moving components make up the mechanism, which is bespoke to Bentley, including custom rotational and linear gearbox drive units mated to high-refinement drive motors with a dedicated Bentley ECU. The unit has dedicated cooling fans built in to manage motor and screen temperatures.
 - To provide the rotation whilst maintaining extremely tight tolerances (less than 0.5 mm for each of the sides), three separate but linked motions are required. The first moves the unit in to the dashboard to provide clearance for the second stage – rotation – before the unit is then moved back in to a flush position.
 - To maintain tolerances, the drive system is self-teaching – the controlling ECU not only learns the mechanism's physical extents in all deployment positions but also uses intelligent speed control to vary input speed at the motors to adjust for variances in mechanical friction and impact of battery voltages and temperature.
- Three audio systems are available on the new Continental GT:

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- The standard system features 10 speakers and 650 Watts of total system power.
- Bang & Olufsen supply the second system, featuring 16 speakers with illuminated grilles, four DSP sound modes, a 14-channel 1,500 W amplifier and the first automotive application of the Beo Sonic control interface.
- For the audiophile customer, the top of the range system is provided by Naim and includes 18 speakers and two Active Bass Transducers, a 2,200 W 21-channel amplifier, eight DSP sound modes with Active Bass, and illuminated speaker grilles.
- Matrix beam headlamps are fitted as standard where legally permissible. A specifically calibrated forward-facing camera detects the surrounding environment and oncoming traffic, enabling the all-LED lamps to individually adapt the main beam from each lamp by activating or deactivating individual LEDs to optimise the beam pattern and prevent dazzling other road users. This allows the use of main beam illumination at all times.
- The satellite-navigation system is inherently intelligent in its operation, responding instantly to live traffic conditions. The system also feeds data to the radar-guided Autonomous Cruise Control (ACC) software, meaning that the car knows to slow for corners, change down for steep gradients and (in conjunction with a forward-facing camera) respond to speed limits.
- An all-new Heating, Ventilation and Air Conditioning (HVAC) system is included in the new Continental GT. The system includes:
 - The ability to set footwell temperatures independently from the rest of the cabin
 - Air ionisers and allergen filters to remove impurities from the incoming air stream
 - Three “climate styles” (soft, medium and strong) for the regulation of cabin temperature
 - Automatic control of seat heating and ventilation
 - A 3D solar sensor, detecting cabin temperature within a 360 degree field of view to optimise air flow control
- Interior lighting is similarly advanced, with the inclusion of a fully customisable mood lighting system using 15 light modules, which can be set individually in two zones. There are 14 available colour options and user-specified brightness. The design of the system delivers a subtle “ring of light” around the car, inspired by the unbroken arc of wood veneer that encircles the cabin. The same colour is also featured in the illuminated treadplates.

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- Through the use of up to 12 ultrasonic sensors, up to six cameras, and short- and long-range radars, the Continental GT is able to interpret and respond to the environment around it. As standard, the car features:
 - High Beam Assist: automatic adaption of the dipped/high beam headlights to best suit the current driving situation.
 - Blind Spot Warning: from 10 km/h to 250 km/h, vehicles behind the car and in the blind spots are detected, with the system predicting the possibility of a collision. Visual warnings are issued to the driver via flashing lights in the door mirrors.
 - Exit Warning: warns vehicle occupants of objects approaching from the rear of the car and possible risks of collision before exiting the vehicle.
- The optional City Specification includes five additional assistance systems:
 - Traffic Sign Recognition: detects a wide variety of traffic signs and displays information to the driver such as speed limits in the driver instrument panel and head-up display.
 - City Safeguard: detects pedestrians and determines intended path, then compares against predicted vehicle position. If a collision is likely, a warning is issued to the driver and the braking system is pre-conditioned for a stop.
 - Rear Crossing Traffic Warning: when reversing out of a parking space, radars detect crossing traffic (including bicycles), any potential collisions are calculated, and the driver is warned accordingly.
 - Top View: from the images provided by four cameras, an overall picture of the vehicle's surroundings is created as a virtual top-down view on the central screen. Any obstacles in the immediate surroundings are shown.
 - Park Assist: detects suitable parking spaces and calculates ideal parking manoeuvres. Allows the autonomous steering to take over to support parking manoeuvres.
- The further option of the Touring Specification brings systems designed to assist with highway traffic and long-distance driving:
 - Adaptive Cruise Control, including Stop & Go, Predictive ACC and Traffic Assist: maintains a set distance to the vehicle in front, from a standstill up to 250 km/h including autonomous acceleration and deceleration. Predictive ACC uses data from the satellite-navigation system, sensors and cameras to predict upcoming corners, town entrances and speed-limit changes and then modifies vehicle speed accordingly, resulting in better

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comfort and fuel economy. In traffic, the system senses queueing vehicles and initiates small steering inputs to keep the car in line without visibility of road markings.

- Bentley Safeguard Plus: scans the road ahead and recognises possible frontal collisions before alerting the driver. It automatically applies the brakes to prevent collisions at low speeds and therefore reduce the likelihood of a collision at higher speeds and the seriousness of the consequences.
- Lane Assist: the system aids the driver by using a video camera to scan the road ahead and then applies small steering inputs to assist the driver in keeping the car in its lane.
- Night Vision: an infra-red camera displays an image of the road ahead on the central Driver Information Panel, extending visibility beyond the range of the headlights. Pedestrians, cyclists and large animals are identified and highlighted when in proximity, and a warning provided if they're in the path of the vehicle.
- Head Up Display: warnings and vehicle information (including speed and navigation instructions) are projected into the driver's direct field of view through the windscreen.

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