INTERNATIONAL MEDIA LAUNCH.
THE FIRST EVER BMW i4 AND THE FIRST EVER BMW iX.

BMW iX Product Update.
BMW Gen5 Drivetrain and Charging.
BMW iDrive.
Driving Experience.
BMW Plant Dingolfing.
BMW eCompetence Centre.
INTERNATIONAL MEDIA LAUNCH.
THE FIRST EVER BMW i4 M50.
DELCIVERED AS PROMISED:
IN 2021 THE BMW GROUP LAUNCHES THE NEXT BIG STEP IN THEIR TRANSFORMATION TOWARDS E-MOBILITY.

BMW iX FOCUS:
- New technology kit for automated driving, incl. new features.
- Interior of the future.
- High end connectivity.
- Extended sustainability.

BMW i4 / BMW iX SHARED FEATURES:
- BMW eDrive GEN5.
- Next generation cockpit.
- BMW Operating System 8.
- Wide choice of options for individualization.
- Refinement & built quality.
- Service & repair quality.

BMW i4 FOCUS:
- The ultimate driving machine.
- Long distance driving comfort.
- Elegance and practicability.
- First ever BEV from BMW M.
THE FIRST EVER BMW i4. TECHNICAL MAIN DATA.

<table>
<thead>
<tr>
<th>Model</th>
<th>Power</th>
<th>Torque</th>
<th>Acceleration (0 - 100 km/h)</th>
<th>Range (WLTP)</th>
<th>Energy consumption (WLTP)</th>
<th>Max. DC charging power</th>
<th>Added range per 10 mins max. DC charging</th>
<th>Automated driving level</th>
<th>Operating system</th>
<th>Base price in EU</th>
</tr>
</thead>
<tbody>
<tr>
<td>BMW i4 eDrive40</td>
<td>250 kW / 340 hp</td>
<td>430 Nm</td>
<td>5.7 seconds</td>
<td>up to 590 km</td>
<td>19.1 - 16.1 kWh/100 km</td>
<td>205 kW</td>
<td>164 km</td>
<td>Level 2+</td>
<td>BMW OS8</td>
<td>58,300 €</td>
</tr>
<tr>
<td>BMW i4 M50</td>
<td>400 kW / 544 hp</td>
<td>795 Nm</td>
<td>3.9 seconds</td>
<td>up to 521 km</td>
<td>22.5 - 18.0 kWh/100 km</td>
<td>205 kW</td>
<td>140 km</td>
<td>Level 2+</td>
<td>BMW OS8</td>
<td>69,900 €</td>
</tr>
</tbody>
</table>

Specifications valid for Germany model.
THE BMW i4 IS PAVING THE WAY FOR THE FIRST FULLY ELECTRIC BMW M MODEL.

True M Performance
More agility  More precision
More emotion

Standard equipment for the BMW i4 M50 also includes:

- Adaptive M Suspension.
- M Sport Brake.
- M Aerodynamic Package.
- M Interior.
- M specific BMW IconicSounds.
THE FIRST EVER BMW i4.
E-MOBILITY HAS REACHED THE HEART OF THE BMW BRAND.

"THE BMW i4 TRANSFERS BMW BRAND DNA AND THE BMW TYPICAL DRIVING PLEASURE INTO THE ERA OF ELECTROMOBILITY." David Ferrufino, Head of BMW i4 Project.

DESIGN.
- Pure emotion through sporty proportions with Gran Coupé character.

SPORTINESS & COMFORT.
- Perfect quartet between driving dynamics, elegance, comfort and long distance driving.

ELECTRIC DRIVING PLEASURE.
- Amazing acceleration, high range and adaptive recuperation system.

USER EXPERIENCE & CONNECTIVITY.
- Intuitive user interface and IconicSound - driving with all senses.
THE FIRST EVER BMW i4 M50.
GEN5 E-DRIVETRAIN PERFORMANCE & EFFICIENCY.

First time use of Gen5 in xDrive (AWD) layout.
Rear axle electric motor 230 kW.
Front axle electric motor 190 kW.

Highly integrated drivetrain unit 400 kW / 544 hp electric motor, transmission and 400 V electronics, free from Rare Earth Materials.

Adaptive Recuperation during Coasting and Braking; up to 195 kW.

205 kW DC / 11 kW AC charging (3-phase).

BMW GEN5 battery-electric drive train architecture components.
THE FIRST EVER BMW i4 M50 CHASSIS.*
THE FIRST ELECTRIC BMW M PERFORMANCE MODEL.

Additional precisely interlinked bracing elements for enhanced driving dynamics by increased longitudinal and torsional stiffness of the body structure.

Increased track width.*
- 26 mm front.
- 12 mm rear.

Gurney flap for reduced aerodynamic lift.
Rear axle with air springs.
Bracing elements for the rear axle.
37 mm lower center of gravity compared to BMW 3 Series.

Adaptive M Suspension as standard including VDC dampers and Variable Sports Steering.

Increased negative camber at front axle.
Max. tire dimension 255/35 R20 97Y XL 285/30 20 99Y XL diameter line 680 HP tires.

48.2 / 51.8 % axle load distribution.

* In comparison to BMW 3 Series.
THE FIRST EVER BMW i4. INNOVATION ADAPTIVE RECUPERATION.

- Innovation: Adaptive Recuperation.
- Allows for a new balance between high recuperation and driving comfort.
- Artificial Intelligence (AI) judges environment to decide between recuperation and "sailing" - even when navigation is switched off.
- > 90% of all "reducing speed situations" can be handled without brake intervention.
- Max. 195 kW recuperation power (BMW i4 M50).

Operation.
Easy switch between recuperation modes with gear lever:

- "D" = Adaptive Recuperation.
- "B" = "One Pedal Operation" (known from BMW i3).
THE FIRST EVER BMW i4.
DIGITAL EXCELLENCE MEETS MECHANICAL PERFORMANCE.

- BMW Curved Display.
- BMW Head-Up Display (Gen3+).
- BMW Operating System 8.
- Wide range of driver assistance systems.
- Latest connectivity features.
- BMW IconicSounds Electric by Hans Zimmer.
INTERNATIONAL MEDIA LAUNCH.
THE FIRST EVER BMW iX.
INTERNATIONAL MEDIA LAUNCH.
THE FIRST EVER BMW iX.

Best companion for long distance drives and best in class Driving Comfort.

Produced 100% with local hydropower.

Sustainability in product design and manufacturing.

BMW GEN5
Components of battery-electric drive system architecture.

Modern interior paired with the latest connectivity features.
**THE FIRST EVER BMW iX. FLEXIBLY SCALABLE eDrive SYSTEM.**

**Market launch:** November 2021
Details will be communicated in 2022

<table>
<thead>
<tr>
<th>Model</th>
<th>Maximum system output</th>
<th>Maximum system torque</th>
<th>Acceleration (0-100 km/h)</th>
<th>Range (WLTP)</th>
<th>Top speed (electronically governed)</th>
</tr>
</thead>
<tbody>
<tr>
<td>BMW iX xDrive40</td>
<td>240 kW / 326 hp</td>
<td>630 Nm</td>
<td>6.1 sec</td>
<td>up to 425 km</td>
<td>200 km/h</td>
</tr>
<tr>
<td>BMW iX xDrive50</td>
<td>385 kW / 523 hp</td>
<td>765 Nm</td>
<td>4.6 sec</td>
<td>up to 630 km</td>
<td>200 km/h</td>
</tr>
<tr>
<td>BMW iX M60*</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>200 km/h</td>
</tr>
</tbody>
</table>

Details will be communicated in 2022
THE FIRST EVER BMW iX.
HIGHLY INTEGRATED DRIVE UNIT.
THE FIRST EVER BMW iX. INTELLIGENT LIGHTWEIGHT DESIGN.

Intelligent material mix
Torsional stiffness
Passive safety
Weight optimisation
THE FIRST EVER BMW iX.
INTELLIGENT MATERIAL MIX.

- High-strength steel
- Aluminium profile
- Aluminium sheet
- Die-cast aluminium
- Carbon-fibre-reinforced plastics
THE FIRST EVER BMW iX – PURPOSE-BUILT BEV WITH A TAILORED CHASSIS.

Focus: Customer added values – Best companion for long distance drives and best in class Driving Comfort.

MyModes & MyCar: Integrating different driving modes into the general experience modes for the driver.

Vehicle-hold using the electric motors - increased comfort by constraining use of the friction brakes.

Digital tire diagnosis.

ARB-X.

NextGen hazard preview.

FUNCTIONS

CHASSIS

2-Axle Air Suspension (optional).

Integral Active Steering (optional): variable steering ratio.

Air Performance Wheels & foam tires for 21" and 22" wheels (optional).

Painted brake calipers (optional).

Multi-link rear suspension.

Electronic steering column adjustments.

Integrated Brake.

Electric power steering: sport steering (variable steering ratio) combined with elastic mounts.

Double-wishbone front suspension.
THE FIRST EVER BMW iX. AIR PERFORMANCE WHEELS.

Multiple conflicting targets during wheel development, especially for electric vehicles.

Crash
Optimum crash performance to avoid battery intrusion.

Weight
Lightweight construction to reduce inertia.

Acoustics
Suppression of acoustic problems through scaled stiffness levels and tailored natural frequencies.

Design
Elegant design in the customer’s choice of color and finish.

Acoustics

Multiple conflicting targets during wheel development, especially for electric vehicles.

Crash
Optimum crash performance to avoid battery intrusion.

Weight
Lightweight construction to reduce inertia.

Acoustics
Suppression of acoustic problems through scaled stiffness levels and tailored natural frequencies.

Design
Elegant design in the customer’s choice of color and finish.

kg

Low aerodynamic drag coefficient.

C\textsubscript{x}

20” standard

21” option

22” option

21” option
THE FIRST EVER BMW iX.
DRIVING DYNAMICS.

Two-axle air suspension and adaptive suspension with electronically controlled dampers.

Integral Active Steering.

Air Performance Wheels and noise-reduced tyres optional.

Comfort combined with fleet-footed agility.
THE FIRST EVER BMW iX. DRIVING DYNAMICS.

Exceptional handling and precise feedback.

High structural rigidity.

Near-actuator wheel slip limitation with xDrive for first time.

Low centre of gravity.

Balanced weight distribution.

New My Modes widen scope for selecting vehicle settings.
THE FIRST EVER BMW iX. SUSTAINABILITY IN PRODUCT DESIGN AND MANUFACTURING.

Production of BMW iX with locally sourced, renewable energy.

Electricity from renewable resources for component and vehicle manufacture.

Lower Carbon Footprint. up to 45% lower global warming potential compared to a conventional SAV.

Validation

TUV Rheinland Group carried out a thorough audit of the BMW iX project to assess its sustainability.

Electricity from renewable resources for component and vehicle manufacture.

Production of BMW iX with locally sourced, renewable energy.

Lower Carbon Footprint. up to 45% lower global warming potential compared to a conventional SAV.

Electricity from renewable resources for component and vehicle manufacture.

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Electricity from renewable resources for component and vehicle manufacture.
THE FIRST EVER BMW iX.
SUSTAINABILITY IN PRODUCT DESIGN AND MANUFACTURING.

Careful material selection, high proportion of recycled materials.
- up to 50% secondary aluminium.
- up to 20% recycled thermoplastic.
- 60kg of recycled plastic.

Raw materials production: monitored, transparent, certified.
- 17% less CO₂ emissions in the supply chain alone.
THE FIRST EVER BMW iX.
SMART SURFACES – KIDNEY GRILLE
WITH SELF-HEALING SURFACE.

An additional polyurethane coating reduces the kidney grille's susceptibility to damage. The self-healing effect of its surface repairs minor scratches, for example – within 24 hours at room temperature or through a five-minute supply of warm air.

Overview of surface layer design.
THE FIRST EVER BMW iX AND THE FIRST EVER BMW i4.

BMW GEN5 DRIVETRAIN AND CHARGING.
In 2008 BMW Group started building its expertise in electrified drivetrains.
Starting with the MINI e up to the current Portfolio of Plug-In Hybrids.
Continuous Development of Efficiency, Dynamics and Sustainability.

BMW GEN1 AND GEN2
- MINI e
- BMW Concept Active E

BMW GEN3
- BMW i3

BMW GEN4
- BMW 225xe
- BMW 530e, BMW 530e xDrive
- BMW 330e
BMW GEN5 HIGHLY INTEGRATED DRIVE UNIT
“THE HEART OF THE DRIVETRAIN”.

» ESM Technology: Electrically excited Synchronous Motor:
  » Conceptual Advantages:
    » Exceptional balance between high peak power and stable torque even at high rpm with silent operation.
    » High efficiency factor of 93%.
    » 40% improvement in power density.*
    » Avoids magnets and therefore rare-earth materials.

* Compared to BMW i3 MY 2020.
BMW GEN5 – FIRST BMW ALL-ELECTRIC xDrive.

- System Output: 385 kW. Example: BMW iX xDrive50.
- Front axle electric motor 190 kW.
- Rear axle electric motor 230 kW.
- Near-actuator wheel slip control delivers outstanding traction and directional stability.
- Extremely quick power distribution.
- Maximum dynamics paired with maximum efficiency.

BMW GEN5
Highly Integrated Drive Unit.
BMW GEN5: A HIGHLY INTEGRATED SCALABLE AND MODULAR SYSTEM.

- Example: highly integrated eDrive unit:
  Different hardware configurations and different power electronics build the basis for the perfect modular system for all future BMW Group BEV.

- Example: BMW iX xDrive50:
  eDrive 5.0 M220SF (190 kW) front unit.
  eDrive 5.1 O220SR (230 kW) rear unit.

- Enabling perfect Drivetrain / Vehicle combinations for our Gen5 BEV Portfolio Roll-Out.

BMW GEN5
Highly Integrated Drive Unit.
BMW GEN5: HIGH VOLTAGE BATTERY – MODULAR PERFORMANCE.

- Modular System: e.g. allowing with a 110mm cell a Gran Coupé silhouette for the BMW i4 or with a 140mm cell a SAV silhouette for the BMW iX.
- Lithium-ion technology with Prismatic cells with Nickel-rich cell chemistry.
- Each cell individually controlled and modules easy to exchange.

**BMW iX**
- Energy capacity
  - BMW iX xDrive40
    - 76.6 kWh (gross)
    - 71.0 kWh (net)
  - BMW iX xDrive50
    - 111.5 kWh (gross)
    - 105.2 kWh (net)

**BMW i4**
- Energy capacity
  - BMW i4 eDrive40
    - 83.9 kWh (gross)
    - 80.7 kWh (net)
  - BMW i4 M50
    - 83.9 kWh (gross)
    - 80.7 kWh (net)
BMW GEN5: HIGH VOLTAGE BATTERY – SUSTAINABILITY FOCUSED.

- BMW steered and controlled Cobalt and Lithium sourcing.
- CO₂-free production of battery cells - only using green power.
- Our target: use of more than 90% recycled Nickel, Cobalt and Aluminium by 2030.
BMW GEN5:
DEVELOPED BY BMW AND MADE BY BMW.
BMW GEN5: SMART DRIVETRAIN.

- Adaptive or adjustable recuperation of braking energy increases efficiency enabling one-pedal feeling and coasting function depending on the traffic situation.

- High recuperation performance:
  - up to 195 kW for the BMW i4 M50.
  - up to 208 kW for the BMW iX xDrive50.
THE BMW i4 M50. PERFORMANCE AND CHARGING.

**Performance (kW)**
- 400 kW / 795 Nm
- 350 kW / 730 Nm

**Output**
- 400 kW
- 350 kW

**Velocity (km/h)**
- 0-100 km/h: 3.9 sec

**Charging power (kW)**
- 205 kW

**Battery state of charge (%)**
- 0%
- 10 to 80% high-power charging (DC): 10 mins

**BMW i4 eDrive40**
- Charging duration:
  - 10 mins high-power charging (DC): +164 km range
  - 31 mins 10% - 80% high-power charging (DC):

**Comfort / Sport**
- Standard Mode
- Sport Boost Mode
- Launch Control
THE BMW iX xDrive50.
PERFORMANCE AND CHARGING.

Performance (kW)

<table>
<thead>
<tr>
<th>Velocity (km/h)</th>
<th>Output</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-100 km/h</td>
<td>385 kW / 765 Nm</td>
</tr>
<tr>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>50</td>
<td>150 kW</td>
</tr>
<tr>
<td>100</td>
<td>200 kW</td>
</tr>
<tr>
<td>150</td>
<td>250 kW</td>
</tr>
<tr>
<td>200</td>
<td>300 kW</td>
</tr>
</tbody>
</table>

0-100 km/h: 4.6 sec

Charging power (kW)

<table>
<thead>
<tr>
<th>Battery state of charge (%)</th>
<th>Charging power (kW)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>195 kW</td>
</tr>
<tr>
<td>10%</td>
<td>150 kW</td>
</tr>
<tr>
<td>20%</td>
<td>100 kW</td>
</tr>
<tr>
<td>30%</td>
<td>50 kW</td>
</tr>
<tr>
<td>40%</td>
<td>0 kW</td>
</tr>
</tbody>
</table>

Charging duration

- 10 mins high-power charging (DC): + 150 km range
- 35 mins high-power charging (DC): 35 mins
THE FIRST EVER BMW iX AND THE FIRST EVER BMW i4.
BMW CHARGING – OFFERS FOR EVERY CUSTOMER USE CASE.

- BMW Charging: The central part of our E-Mobility strategy.
- Charging at home or in public: BMW Charging offers tailor made premium solutions – from the very beginning.

BMW Charging at home with:
Standard: flexible fast charger.

BMW Public Charging:
Standard: Mode 3 cable and BMW Charging Card.

Optional: BMW Wallbox.
Optional: Smart Partner Wallbox.
Easy charging on the Go.

More than 200,000 charging points from over 500 providers in Europe already. More than 40,000 in Germany.

BMW Charging. Active Tariff has been named “Testsieger”.

IONITY High-performance Charging stations.
Control of all Charging features in car and via My BMW App.
Finding the right Charging Point and Timing your Charge.
For the Daily Commute, Weekend Escape or long-distance Trip.
THE FIRST EVER BMW iX
AND THE FIRST EVER BMW i4.
BMW GEN5 DRIVETRAIN AND CHARGING.

BMW “gets” charging and makes use of it as enabler for electric driving pleasure.

BMW Charging offers tailor-made solutions and a premium User Experience catering for all customer needs.

Charging is convenient, easy and as fast as needed – no matter where and when. Therefore, BMW iX und i4 drivers can experience maximum electric driving pleasure with their vehicles.
INTERNATIONAL MEDIA LAUNCH BMW iX AND BMW i4. THE ALL-NEW BMW iDrive.
INTERNATIONAL MEDIA LAUNCH BMW iX AND BMW i4. THE ALL-NEW BMW iDrive.

BMW iX FOCUS:
- First vehicle to launch with the all-new BMW iDrive.
- Broadest range of digital products and services.
THE ALL-NEW BMW iDrive.
MODERN INTERIOR.

BMW Curved Display
Driver oriented Cockpit.

Clever Simplicity
Less switches, but not switchless.

Crafted Clarity
Sculptural Control Elements.

BMW iDrive Design.
Experience clarity and perfection.
THE ALL-NEW BMW iDrive.
DRIVER ORIENTATION, PRECISION, INDIVIDUALISATION.
Empowers to become the ultimate driver.

Information display
Driver Orientation

Head-Up Display
Driving Instructions

Perfect Symbiosis
Control display
Information Overview

Locate

Inform
THE ALL-NEW BMW iDrive.
A NEW KIND OF DRIVER-VEHICLE RELATIONSHIP.

BMW Intelligent Personal Assistant.

- Driver- and Co-Driver dialogue.
- Recognisable states of activity.
- Proactive suggestions.

Humanising technology
Car expert
“Hey BMW”

Natural interaction

Natural interaction

Hey BMW
THE ALL-NEW BMW iDrive.
MY MODES – AN IMMERSIVE EXPERIENCE.

Inspired by
Individuality – suited for every preference.

Personal Mode
- Individual options.
- Balanced driving characteristics.
- Individual lighting settings.

Inspired by
Racing – colored in Thrilling Orange.

Sport Mode
- Dynamic driving.
- Adjusted engine sound.
- Focused display layout.

Inspired by
Flowing water – with reflections of sunlight.

Efficient Mode
- Efficient driving.
- Lowest possible energy consumption.
- Intelligent efficiency trainer.
GREAT ENTRANCE MOMENTS ENABLED BY ULTRA-WIDE-BAND TECHNOLOGY. WITH BMW DIGITAL KEY PLUS.

<table>
<thead>
<tr>
<th>Approaching</th>
<th>3 metres</th>
<th>1.5 metres</th>
<th>Opening doors</th>
<th>Entering</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lighting orchestration starts.</td>
<td>Vehicle unlocks automatically via car key or smartphone.</td>
<td>Surface heating starts and welcome animation begins.</td>
<td>Guides driver into the vehicle and prepares everything for the ride.</td>
<td>Vehicle adjusts to personal settings.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Personal Greeting.</td>
</tr>
</tbody>
</table>
PERSONALISATION THANKS TO BMW ID.

Stores personalized vehicle settings. Seat, steering wheel position, exterior mirrors, navigation system, display layouts, shortcuts, driver assistance functions, etc.

Transferrable between vehicles.
SUPERFAST AND SMART: THE NEW CLOUD-BASED BMW MAPS.

- "Learning Navigation" based on habits (BMW ID).
- State-of-the-art accuracy in calculation of ETAs.
- Color-code indication of charging station availability.
- Different Map views for optimal personalization.
- > 120 Mio. POIs, updated bi-weekly.
- Visualised electric range.
- Augmented view.
BMW MAPS.
NAVIGATION WITH AUGMENTED VIEW.
Remote control for charging process and vehicle pre-conditioning for the journey.

Push-notification when target charge is reached or irregularities occur.

Route-planning with charging stops.

MY BMW APP & CONNECTED CHARGING.
The Interior Camera captures precious moments with family and friends and offers peace of mind when the vehicle is parked.
ALWAYS FRESH.
WITH REMOTE SOFTWARE UPGRADE AND FUNCTIONS ON DEMAND.

Remote Software Upgrade.
- Release of new features and improvements over-the-air.
- Preparation in the background. Installation around 20 mins.
- Upgrade in 06/2021 for 1.3 Million vehicles with BMW OS 7.
- Target end 2021: largest over-the-air upgradeable fleet with > 2.5 million vehicles.

Functions on demand.
- Subscription-based over-the-air activation of optional equipment.
- Features in Safety, Comfort, Infotainment, Driver Assistance, and more.

Upgrade in 06/2021 for 1.3 Million vehicles with BMW OS 7.
Target end 2021: largest over-the-air upgradeable fleet with > 2.5 million vehicles.
PERSONAL eSIM AND 5G. ENABLING STATE-OF-THE-ART CONNECTIVITY.

The BMW iX is the first premium vehicle with 5G connectivity.

- Personal eSIM turns the BMW iX into a fully connected device in the customer's digital ecosystem.
- eSIM connected to BMW ID.
- Activation via customer's mobile contract.
- Enhanced telephony and WIFI hotspot.

Availability varies by market.
SEAMLESS 3rd PARTY INTEGRATION.
EXAMPLE: APPLE CAR PLAY®.

Apple Maps integration in instrument cluster.

Steady, but minimalistic Home Button for better interplay with iDrive.

"Hey Siri" or long press on the Push to Talk Button.

Full use of CID Screen for CarPlay experience.
IN A NUTSHELL.
DIGITAL PRODUCTS AND SERVICES.

Great Entrance Moments and BMW Digital Key Plus.

Personalisation thanks to BMW ID.

Navigate, park, charge: New cloud-based system BMW Maps.

Interior Camera: Snapshot, Remote Inside View and Theft recorder.

3rd party integration: Seamless connection with Apple Car Play, Android Auto, Spotify, Alexa, etc.

Always Fresh with remote software upgrade and Functions on Demand.

Personal eSIM and 5G.

My BMW App with Charging Management functions.

Great Entrance Moments and BMW Digital Key Plus.

Personalisation thanks to BMW ID.

Navigate, park, charge: New cloud-based system BMW Maps.

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THE ALL-NEW BMW iDrive.

BMW iDrive
THE INTELLIGENT FUSION OF SENSING
THE FIRST EVER BMW i4 AND THE FIRST EVER BMW iX.

DRIVING EXPERIENCE.
THE FIRST EVER BMW iX AND THE FIRST EVER BMW i4.

SHARED FEATURES.

BMW iX and BMW i4 shared features:

- Actuator contiguous wheel slip limitation for Rear Wheel Drive and All-wheel drive vehicles.
- Integrated brake – one compact, light-weight brake module.
- Air performance wheels – technology & portfolio.

EASE

BOOST
ACTUATOR CONTIGUOUS WHEEL SLIP LIMITATION FOR REAR WHEEL DRIVE AND ALL-WHEEL DRIVE VEHICLES.

Vehicle dynamics control (feedback and feedforward)

Vehicle  
slow

Wheels  
Slip control rear axle drive
fast  slow
Slip control front axle drive
slow  fast

Actuators  
fast
Torque control rear axle drive
Control unit rear axle drive
Torque control front axle drive
Control unit front axle drive

Time [s]

Acceleration [m/s²]

Improved recuperation: Greater electric range via enhanced recuperation during motor braking.

Better traction: ARB-X improves tire traction for all road conditions, resulting in better vehicle acceleration and gradeability.
THE FIRST EVER BMW iX AND THE FIRST EVER BMW i4 – INTEGRATED BRAKE.

Integration of the braking interface, force amplification and the brake control system (DSC) in one compact, light-weight brake module.

Components of a conventional brake system.

Advantages:

- Improved sportiness and sense of safety due to the short, direct pedal feel.
- Fast balancing between regenerative braking and friction braking → optimal recuperation and maximized driving stability.
- Higher levels of driving dynamics and controllability through swift and precise control of the brakes for vehicle stabilization.
- Shorter stopping distances during active driver-assistance functions, improving active safety.
- A consistent brake pedal feel is guaranteed. Regardless of recuperation.
Advantages:

- Effective reduction of air turbulence in the area of the wheels.
- Compared to conventional alloy wheels, the weight reduced by around 15 percent.
- The innovative design combines optimized aerodynamic properties with the elegance of an aluminium rim in a V-spoke design.
THE FIRST EVER BMW i4. THE WORLD OF BOOST.

BMW i4 focus:

▷ The ultimate driving machine.
▷ Long distance driving comfort.
▷ First ever BEV from BMW M.

BOOST
THE BMW i4 M50 CHASSIS.*
THE FIRST ELECTRIC BMW M PERFORMANCE MODEL.

Additional precisely interlinked bracing elements for enhanced driving dynamics by increased longitudinal and torsional stiffness of the body structure.

Increased track width.*
▷ 26 mm front.
▷ 12 mm rear.

Gurney flap for reduced aerodynamic lift.

Rear axle with air springs.

Bracing elements for the rear axle.

37 mm lower center of gravity compared to BMW 3 Series.

Adaptive M Suspension as standard including VDC dampers and Variable Sports Steering.

Increased negative camber at front axle.

Max. tire dimension 255/35 R20 97Y XL
285/30 20 99Y XL diameter line 680 HP tires.

48.2 / 51.8 % axle load distribution.

* In comparison to BMW 3 Series.
THE FIRST EVER BMW i4 AND THE FIRST EVER BMW iX.

DRIVING ASSISTANCE SYSTEMS.
THE BMW i4. DRIVING ASSISTANCE SYSTEMS IN A NUTSHELL.

Some 40 driver assistance functions designed to enable comfortable and safe driving and parking are available as standard or as an option.

**Standard Highlights.**
- Front Collision Warning.
- Speed Limit Info.
- Lane Departure Warning.
- Park Distance Control incl. Parking Assistant with Reversing Assistant.

**Optional Highlights.**
- Active Cruise Control with automatic Speed Limit Assist and route monitoring.
- Steering and Lane Control Assistant.
- Parking Assistant Plus with Surround View and Remote 3D View.
THE FIRST EVER BMW iX.
THE WORLD OF EASE.

BMW iX focus:

› State of the Art Technology for best in class Driving Assistance Systems.
› Long Distance Companion – Focus Comfort and Chassis.
› Automated Parking – effortless & smart.

EASE
THE FIRST EVER BMW iX – RESULTING: SCALABLE STATE OF THE ART SENSOR-SETUP.

- Front camera (8 Mpi).
- Surround view camera.
- Full range radar (300 m).
- Ultrasonic sensor (6x1).
- Short range radar (2x1).

Sensor-setup for driving: green
Sensor-setup for parking: blue
THE FIRST EVER BMW iX – RESULTING: SCALABLE STATE OF THE ART SENSOR-SETUP.

- Sensor-setup for parking
- Sensor-setup for driving
- Surround view camera and cleaning system
- Ultrasonic sensor (6x1)
- Short range radar (2x1)
THE FIRST EVER BMW iX. COMING NEXT.

- Assisted Driving View in the head-up display.
- Control via multifunction buttons.
- Exit warning function.
- Remote Theft Recorder.
- Drive Recorder via USB interface.

Coming in 2022
From 03/22
- Parking Assist Professional.
- Maneuver Assistant.
From 07/22
- Remote Control via Smartphone.
Via Functions on Demand:
- Active Cruise Control Stop & Go.
- Steering and Lane Control Assistant (hands-on).

- Parking Assist Professional.
THE FIRST EVER BMW iX.
COMING NEXT– MANEUVER ASSISTANT.

- 200 metres recording function.
- Increased and constant precision over the total distance due to localisation by surround view camera.
- Optimised obstacle detection versus previous generation tool kit.
- Path to be driven is shown in the "Assist View" and as overlay in the camera view.
- Up to 10 maneuvers can be recorded and stored per car/profile.
- Maneuver Assistant different from Park Maneuver Assistant.
INTERNATIONAL MEDIA LAUNCH,
BMW GROUP PLANT DINGOLFING.
BMW GROUP PLANT DINGOLFING.
OVERVIEW OF THE SITE.

BIGGEST
BMW Group
plant in Europe.

PLANT 02.40
Lead Plant Luxury Class

Plant 02.27
Unterhollerau

Plant 02.91
Wollersdorf

Plant 02.30
Training & Service Centre

Plant 02.10
Chassis Components

Plant 02.44
Wörth

Plant 02.75
Bruckberg

Plant 02.20
E-Drive Production

Plant 02.41
Body Construction Systems

Plant 02.70
Central Parts Distribution

Plant 02.72
Niederviehbach

A92
BMW GROUP PLANT DINGOLFING.
FACTS & FIGURES.

232,000 cars built in 2020.
1,500 cars per day.

17,000 employees.

> 850 apprentices in 15 different professions.

> 2.8 million sq. m (Dingolfing site in total).

HUNDREDS OF MILLIONS OF EUROS invested annually in new models and technologies.

HIGH FLEXIBILITY.

4 BMW 4 Series Coupé, Convertible

5 BMW 5 Series Sedan, Touring, PHEV

6 BMW 6 Series Gran Turismo

7 BMW 7 Series Sedan, LWB version, PHEV

8 BMW 8 Series Coupé, Convertible, Gran Coupé

ROLLS-ROYCE

Ghost
Phantom
Cullinan
Wraith
Dawn

BMW i
BMW iX

BEV versions of BMW 7 and 5 Series already announced

BMW M
BMW M8 Coupé, Convertible, Gran Coupé
BMW M4 Coupé, Convertible
BMW M5 Sedan

BMW M8 Coupé, Convertible, Gran Coupé
BMW M4 Coupé, Convertible
BMW M5 Sedan
MEGATRENDS AND STRATEGIC DEVELOPMENT OF THE PLANT.
MEGATRENDS AND STRATEGIC DEVELOPMENT OF THE PLANT.
DIGITALIZATION AS A TWOFOLD CHALLENGE.

Product
The BMW iX - the most digital car ever produced by BMW.

Production
Digitalization of production processes for greater efficiency, better ergonomics and higher quality.

Innovative automation
Data analytics
Smart logistics
Additive manufacturing
MEGATRENDS AND STRATEGIC DEVELOPMENT OF THE PLANT.
DINGOLFING PLANT – BMW’S ELECTRIC MOBILITY PIONEER.

Competence Centre for E-drive Production.
Annual capacity of E-Drive components for > 500,000 cars from 2022 onwards.

Growing number of employees in e-mobility.
Increase to over 2,000 employees in e-drive production in the long term.

Share of electrified models at Dingolfing to more than double in 2021.
In 2020 about 8% of the BMW Dingolfing production was electrified.

> 4,000 people with new future-focused assignments since 2012.

> 1,900 by the end of 2021.

> 1,400 people have moved to e-drive production areas.

> 100% increase in production volume of electrified cars in 2021.

> 4,000 people have moved to e-drive production areas.

Production of Plug-in-Hybrids since 2016.
MEGATRENDS AND STRATEGIC DEVELOPMENT OF THE PLANT.

- DIGITALIZATION
- ELECTRIC MOBILITY
- SUSTAINABILITY
Resource consumption in BMW Group production reduced by > 50% in the period 2006 - 2020.

Environmental sustainability is deeply rooted in the Plant’s strategy and has many facets at the Dingolfing site.

CO₂ reduction targets per vehicle 2019 - 2030.

- Supply chain: - 20% CO₂
- Production: - 80% CO₂
- Use phase: - 50% CO₂

Production of BMW iX with locally sourced, renewable energy.
Use of hydropower from the Isar and Lech rivers.

We continue to significantly reduce CO₂ throughout the value chain and follow a circular economy approach.
BMW iX: THE ALL-ELECTRIC BMW FROM PLANT Dingolfing.

Overview.

First all-electric car and first X model from Dingolfing.

Integration into the heart of the site at plant 02.40.
(assembly hall 52 / build. 30).

E-components from the Dingolfing component plants.
(02.20 and 02.10).

Over 400 million Euro invested in vehicle factory.
INTERNATIONAL MEDIA LAUNCH,
BMW COMPETENCE CENTRE ELECTRIC DRIVETRAIN.
E-DRIVE PRODUCTION COMPETENCE CENTRE. PLANT DINGOLFING.

Over 1,500 employees.

12 production lines.


From 2022 production of electric drivetrains for over 500,000 electrified vehicles.

125,000 sqm usable space.
PRODUCTION OF ELECTRIC DRIVETRAINS: HIGH LEVEL OF IN-HOUSE COMPETENCE.

Electric Drivetrain (BMW Gen5)
- Highly integrated drivetrain unit: electric motor, transmission and power electronics.

Components:
- Rotor
- Stator
- Rotor
- Transmission
- Housing
- Components according to BMW requirements
- Battery module
- Battery cell

Conventional Drivetrain
- Combustion engine.
- Assembling
- Cylinder head
- Crankshaft
- Crankcase
- Con-rods
- Cardan shaft
- Rear-axle transmission
- Engine components
- Main transmission
- Exhaust system
- Tank
INTERNATIONAL MEDIA LAUNCH.
BMW COMPETENCE CENTRE ELECTRIC DRIVETRAIN.
INTERNATIONAL MEDIA LAUNCH. THE FIRST EVER BMW i4 AND THE FIRST EVER BMW iX.