PRESS MATERIAL – MAZDA MOTOR EUROPE

2023 MAZDA2

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1| AT A GLANCE

Celebrating 20 years of production since the launch of the first generation Mazda2 in April 2003, the latest version of the company's popular B-segment hatchback, the 2023 Mazda2, features updated exterior and interior design, two new exterior body colours, a new grade structure and two new special edition models. With its fresh design, the Mazda2 is an important building block in the company's *Multi-Solution Approach*, bringing fuel efficiency and driving enjoyment to the compact car market.

Updated front styling featuring a new grille and bumper design not only brings greater road presence to the 2023 Mazda2, but also differentiates between the grille treatment of new core Prime-Line[1] entry, Centre-Line[2] mid and Exclusive-Line[3] high grades, and that of the special edition variants.

On board, the 2023 Mazda2's high-quality, harmonious cabin environment benefits from a new instrument panel, air vent and door panel trim finishes, updated upholstery, and a wide range of comfort- and convenience-enhancing standard equipment on even entry grade models.

New Homura[4] and Homura Aka[5] special editions add sporting appeal to the 2023 Mazda2 range. They benefit from bespoke grille and alloy wheel designs, unique exterior and interior colour schemes, and comprehensive, model-specific standard equipment specifications.

[1] Mazda2 Skyactiv-G 75 Prime-Line (combined) energy consumption 4,8 l/100 km; CO2-emissions 109 g/km; CO2-class C

[2] Mazda2 Skyactiv-G 75 Center-Line (combined) energy consumption 4,8 l/100 km; CO2-emissions 109 g/km; CO2-class C; with e-Skyactiv G 90 (combined) energy consumption 4,7 l/100 km; CO2-emissions 107 g/km; CO2-class C; with Skyactiv-G 90 6AT (combined) energy consumption 5,4 l/100 km; CO2-emissions 122 g/km; CO2-class D

[3] Mazda2 e-Skyactiv G 90 Exclusive-Line (combined) energy consumption 4,7 l/100 km; CO2-emissions 107 g/km; CO2-class C; with Skyactiv-G 90 6AT (combined) energy consumption 5,4 l/100 km; CO2-emissions 122 g/km; CO2-class D; with e-Skyactiv G 115 (combined) energy consumption 5,0 l/100 km; CO2-emissions 113 g/km; CO2-class C

[4] Mazda2 e-Skyactiv G 90 Homura (combined) energy consumption 4,7 l/100 km; CO2-emissions 107 g/km; CO2-class C; with Skyactiv-G 90 6AT (combined) energy consumption 5,4 l/100 km; CO2-emissions 122 g/km; CO2-class D

[5] Mazda2 e-Skyactiv G 90 Homura Aka (combined) energy consumption 4,7 l/100 km; CO2-emissions 107 g/km; CO2-class C; with Skyactiv-G 90 6AT (combined) energy consumption 5,4 l/100 km; CO2-emissions 122 g/km; CO2-class D; with e-Skyactiv G 115 (combined) energy consumption 5,0 l/100 km; CO2-emissions 113 g/km; CO2-class C

SOPHISTICATED AND PRESTIGIOUS EXTERIOR DESIGN

- Latest evolution of KODO design gives the 2023 Mazda2 powerful styling prestige through the purity and dynamism of a minimalist aesthetic.
- New front styling featuring revised grille and front bumper design, creating a finely chiseled, sculpted form with a sense of width, stability and elegance for a luxurious, premium quality appearance.
- New core Prime-Line entry, Centre-Line mid and Exclusive-Line high grades feature painted panel grille inserts, new steel wheel caps or bright alloy wheels, and front and rear yellow accent tabs. Interiors offer monochrome cloth upholstery, white, black or mint instrument panel inserts and white air vent inner rings.
- New Homura and Homura Aka special edition models feature black mesh grilles, black door mirror covers and 16-inch alloy wheels, front and rear red accent tabs, bespoke interiors with black seat and door trims, red seat stitching and dark red and gunmetal air-conditioning vent louvre rings.
- New Aero Grey and Air Stream Blue exterior body colours, bringing the total number of exterior colours available to 11.
- All three new grades and both special edition models available in all colours, except Homura Aka, which is not available in Jet Black.
- 16-inch alloy wheel design with high-gloss paint trim heightens the sense of quality. Silver 15-inch alloy wheel colour for greater visual sophistication.

PREMIUM QUALITY INTERIOR SPACE, COMFORT AND TECHNOLOGY

- Mazda Connect system supports Android Auto™ and wireless Apple CarPlay® connectivity from Centre-Line.
- Materials and colour schemes carefully chosen to create a high quality, harmonious cabin environment.
- Mazda's research into Noise Vibration Harshness (NVH) results in a unique approach to the control of sounds entering the cabin to provide a high-quality quietness for all occupants.
- Front seat designed to keep pelvis upright for ideal posture and optimum comfort.
- Heated steering wheel and auto-dimming rear view mirror available.

EFFORTLESS, ENGAGING DRIVING EXPERIENCE

- Latest developments in Mazda's Skyactiv-Vehicle Architecture adopted to enhance the *Jinba-Ittai* driving experience.
- MacPherson strut front and torsion beam rear suspension systems deliver smooth vehicle movement and a comfortable ride.
- Front seat design offers ideal occupant-posture to reduce head sway and minimise fatigue for easier driving.
- Precise control delivers fast vehicle response to driver inputs. G-Vectoring Control Plus (GVC Plus) for even more stable vehicle behaviour at speed.

POWERTRAIN ENVIRONMENTAL PERFORMANCE ENHANCED

- Skyactiv-G 1.5 litre petrol engine features Mazda-unique, world-first Diagonal Vortex Combustion technology and a higher 15:1 compression ratio to improve fuel efficiency by 6.8% and reduce CO_2 emissions by 9 – 12% in the WLTC mode.
- Engine control programme for improved vehicle response to and control of acceleration.
- Choice of four Skyactiv-G 1.5 litre petrol engined, front-wheel drive powertrains.
- 75 PS variant with 6-speed manual transmission, a 90 PS unit mated to a six-speed automatic gearbox, and e-Skyactiv-G 90 and 115 PS manual transmission versions equipped with MHEV (Mild Hybrid Electric Vehicle) technology.
- MHEV capability provided by the Mazda M Hybrid system, which combines electric motor assistance with recovered energy recycling to improve fuel efficiency and offer a smoother driving experience.
- CO_2 emissions from just 107 g/km, combined fuel consumption as low as 4.7l/100km.

COMPREHENSIVE RANGE OF ADVANCED SAFETY FEATURES

- LED headlamps fitted as standard across the model range.
- Optional Adaptive LED Headlights (ALH) with an LED array divided into 20 independently illuminating blocks for even faster detection of danger.
- Advanced Smart City Brake Support (Advanced SCBS) with night-time pedestrian detection.
- Optional Lane Keep Assist System (LAS), Traffic Sign Recognition System (TSR) and 360° View Monitor with front parking sensors.

2| DESIGN

SOPHISTICATED AND PRESTIGIOUS EXTERIOR DESIGN

The latest evolution of KODO design gives the 2023 Mazda2 powerful styling prestige through the purity and dynamism of a minimalist aesthetic. New front styling featuring revised grille and front bumper design, creating a finely chiselled, sculpted form with a sense of width, stability and elegance for a luxurious, premium-quality appearance. This updated front styling not only brings greater road presence to the 2023 Mazda2, but also differentiates between the grille treatment of new Prime-Line entry, Centre-Line mid and Exclusive-Line high grades, and that of the special edition variants.

New Prime-Line entry, Centre-Line mid and Exclusive-Line high grades feature painted panel grille inserts, new steel wheel caps or bright alloy wheels, and front and rear yellow accent tabs. Interiors offer monochrome cloth upholstery, white, black or mint instrument panel inserts and white air vent inner rings.

New Homura and Homura Aka special editions add sporting appeal to the 2023 Mazda2 range. They benefit from bespoke grille and alloy wheel designs, unique exterior and interior colour schemes, and comprehensive, model-specific standard equipment specifications.

Two new exterior body colours – Aero Grey and Air Stream Blue – bring the total number of exterior colours available to eleven: Soul Red Crystal, Polymetal Grey, Machine Grey, Deep Crystal Blue, Ceramic White, Jet Black, Snowflake White, Platinum Quartz, Arctic White, Aero Grey and Air Stream Blue.

All three new grades and both special edition models are available in all colours, except Homura Aka, which is not available in Jet Black.

PREMIUM QUALITY INTERIOR SPACE, COMFORT AND TECHNOLOGY

HIGH-QUALITY, COLOUR-COORDINATED INTERIOR DESIGN

The proven colour schemes and excellent finish of the 2023 Mazda2 interior are further refined by distinctive and individual interior configurations. Prime-, Centre- and Exclusive-Line grade interiors combine monochrome cloth upholstery with white, black or mint instrument panel inserts and white air vent inner rings.

New Homura and Homura Aka special edition models feature bespoke interiors with black leather and cloth upholstery and door trims, red seat stitching and dark red and gunmetal air-conditioning vent louvre rings.

These leather and fabric interiors use rich, high-quality materials and refined colour coordination to emphasise a feeling of both spaciousness and prestige.

ENHANCED CABIN QUIETNESS

Mazda's research into NVH has resulted in a unique approach to the control of sounds entering the cabin, providing a higher quality quietness for all occupants that enables natural conversation to be enjoyed in any seat.

A thick cabin ceiling headliner, the use of back door seal lips and vibration damping material on the inner rear wheel housing maximise sound absorption and sound insulation performance, particularly for rear seat occupants. Dampers and tyres also suppress road surface vibration and reduce road noise.

All of these measures minimise the intrusion of sound and promptly control reverberant and reflected sound to deliver a pleasantly hushed interior that sets a benchmark for compact car interior quietness.

FRONT SEAT DESIGN

The front seat design focuses on the fact that when people walk, and the pelvis is upright, they are inherently capable of maintaining balance and keeping their head stable.

This was incorporated into Mazda's thinking on next-generation technology concepts, resulting in seats that keep the pelvis upright to maintain the spine's natural S curve, which is considered to be the ideal sitting posture.

To achieve this, the seat's finely tuned internal structure features optimised spring rates, the use of torsion springs which suppress occupant body roll, and support materials, as well as the adoption of high-damping urethane keep the pelvis upright in a structure that makes it easy to maintain this state.

As a result, the front seats are not only exceptionally comfortable, but also prevent the occupant's line of sight from wavering on curves or during lane changes, increase the sense of oneness with the car and improve ease of driving.

AUTO-DIMMING REAR VIEW MIRROR

This feature helps driver concentration during night driving. When the auto-dimming rear view mirror detects light from the headlights of following vehicles that is stronger than a pre-set level, it automatically changes the rear view mirror's reflectivity, reducing glare experienced by the driver.

STEERING WHEEL HEATER

The steering wheel has a built-in heater which quickly heats the grip to offer comfortable, safe driving in winter.
30 minutes after being switched on it will automatically deactivate.

APPLE CARPLAY® AND ANDROID AUTO™

The Mazda Connect system in the 2023 Mazda2 supports Android Auto™ and now wireless Apple CarPlay® connectivity from Centre-Line. Wirelessly, or through a simple USB connection to the car's system for Android Auto™, customers can easily use applications on their smartphone via Mazda Connect's Human-Machine Interface (HMI). Usable applications are limited according to the individual smartphone's in-car system.

Apple CarPlay® allows occupants to make calls, send messages, listen to Apple Music®, and get directions with Apple Maps® through Siri® voice control. Android Auto™ uses the 'OK Google' voice commands system to access Google Maps, Google Play Music, media, and messaging apps in the car.

NEW GRADE STRUCTURE

New core **Prime-Line** entry, **Centre-Line** mid and **Exclusive-Line** high grades feature painted panel grille inserts, new steel wheel caps or bright alloy wheels, and front and rear yellow accent tabs. Interiors offer monochrome cloth upholstery, white, black or mint instrument panel inserts and white air vent inner rings.

Even entry level models combine the latest safety features with a comprehensive array of comfort and convenience enhancing standard equipment.

PRIME-LINE

Standard equipment: 15” steel wheels, LED headlamps with washer, front and rear electric windows, electric door mirrors, driver seat height adjustment, keyless entry and start, 8” display with HMI Commander, 6-speaker audio with Bluetooth, DAB, Apple CarPlay and Android Auto.

Safety: DSC, Tyre Pressure Monitoring System (TPMS), Hill Launch Assist (HLA), G-Vectoring Control Plus (GVC Plus).

CENTRE-LINE

To the Prime-Line **standard equipment** list Centre-Line adds: 15” steel wheels with full two-tone painted caps – Soul Red Crystal, Sonic Sliver, Air Stream Blue, Ceramic Metallic or Platinum Quartz, electric heated door mirrors, manual air-conditioning, passenger seat height adjustment, leather steering wheel and gearshift knob, 60:40 split/folding rear seats, Drive Mode Select (AT only), Cruise Control and an Adjustable Speed Limiter (ASL), Wireless Apple CarPlay.

Safety: DSC, Tyre Pressure Monitoring System (TPMS), Hill Launch Assist (HLA), G-Vectoring Control Plus (GVC Plus).

EXCLUSIVE-LINE

To the Centre-Line **standard equipment** list Exclusive-Line adds: Shark fin antenna, tail pipe garnish, 16" bright alloy wheels, rear privacy glass, LED headlamps and DRL with washer, auto folding electric heated door mirrors, heated front seats and steering wheel, automatic air-conditioning, smart keyless entry, paddle shifters (AT only), rain and dusk sensors, auto dimming rear view mirror.

To the Centre-Line **safety** list Exclusive-Line adds: Lane Departure Warning System and Lane Keep Assist (LDWS/LKA), Advanced SCBS (emergency braking, Blind Spot Monitoring with Rear Cross Traffic Alert (BSM w RCTA), rear parking sensors, rear view camera).

NEW HOMURA AND HOMURA AKA SPECIAL EDITION MODELS

Celebrating the launch of the 2023 Mazda2, new Homura and Homura Aka special editions have been created to add further sporting appeal to the model range. They benefit from bespoke black mesh grille and alloy wheel designs, front and rear red accent tabs, a shark fin antenna, black door mirror caps, and comprehensive, model-specific standard equipment specifications.

HOMURA

To the Centre-Line **standard equipment** list, Homura adds: New 16" black alloy wheels, LED DRL, black cloth upholstery with red stitching, outer gunmetal and inner dark red air vent rings, heated front seats and steering wheel, automatic air-conditioning, rain and dusk sensors and rear privacy glass.

To the Centre-Line **safety** list, Homura adds: Lane Departure Warning System and Lane Keep Assist (LDWS/LKA), Advanced SCBS (emergency braking, Blind Spot Monitoring with Rear Cross Traffic Alert (BSM w RCTA), rear parking sensors, rear view camera.

HOMURA AKA

To the Exclusive-Line **standard equipment** list, Homura Aka adds: New 16” machine-finished black alloy wheels, black roof film, black leather and cloth upholstery with red stitching and piping, suede/Granluxe instrument panel insert with red stitching, outer gunmetal and inner dark red air vent rings, black door trim insert and door armrest with red stitching.

Safety: The Homura Aka special edition shares the Exclusive-Line safety specification.

3| DRIVING DYNAMICS

The 2023 Mazda2 features the latest developments in the company's Skyactiv-Vehicle Architecture to enhance the *Jinba-Ittai* driving experience.

SUSPENSION SYSTEM

Incorporating Mazda's latest technology concepts into the MacPherson strut front and torsion beam rear suspension has facilitated a balance of linearity in response to handling and ride comfort, at a higher level than ever before.

Both the saturation characteristics of the front and rear dampers and the valve design of both the front and rear dampers are optimised, and the rear dampers benefit from a large radius.

These features increase damping force in the low-speed damping range on reasonably even road surfaces for smoother movement, while decreasing damping force in the high-speed damping range when driving on rough roads, resulting in significantly improved smoothness and stability.

In addition, the use of a urethane type rear damper top mount reduces spring characteristics for enhanced responsiveness to fine vibrations and improved ride comfort.

This suspension system demonstrates linear damping force at the slightest input, while firmly suppressing bounce in response to larger inputs to achieve a high-quality ride.

G-VECTORING CONTROL PLUS (GVC PLUS)

GVC Plus introduces technology that enhances handling stability by using the brakes to add direct yaw moment control to the conventional engine control of GVC.

As the driver steers out of a corner by returning the steering wheel to the centre position, GVC Plus applies a light braking force to the outer wheels, providing a stabilizing moment that helps restore the vehicle to straight-line running. The system realises consistently smooth transitions between yaw, roll and pitch even under high cornering forces, improving the vehicle's ability to accurately track sudden steering inputs and exit corners crisply.

In addition to improving handling in emergency collision avoidance manoeuvres, GVC Plus offers a reassuring feeling of control when changing lanes at high speeds on the highway and when driving on snow or other slippery road surfaces.

4| POWERTRAINS

The 2023 Mazda2 is available with a choice of four Skyactiv-G 1.5 litre, DOHC 16 valve petrol engine, front-wheel drive powertrains – a 75 PS variant with 6-speed manual transmission, a 90 PS unit mated to a six-speed automatic gearbox, and e-Skyactiv-G 90 and 115 PS manual transmission versions equipped with MHEV (Mild Hybrid Electric Vehicle) technology.

The Skyactiv-G engine is equipped with Mazda's unique, world-first Diagonal Vortex Combustion technology and a commensurate increase in the engine's compression ratio from 14 to 15:1. This has improved fuel economy by some 6.8%, and lowered CO_2 emissions across the powertrain range by 9-12% in WLTC mode. In addition, the Skyactiv-G unit benefits from an engine control programme created during the development of the e-Skyactiv-X engine, improving vehicle response to and control of acceleration.

The 75 PS unit develops maximum power at 6000 rpm and maximum torque of 143 Nm at 3500 rpm. It will accelerate the Mazda2 from 0-100 km/h in 11.3 seconds and on to a top speed of 171 km/h, whilst returning a combined fuel consumption figure of 4.4 l/100km and CO_2 emissions of only 101 g/km.

Combined with a six-speed automatic transmission, the 90 PS accelerates from 0-100 km/h in 12.1 seconds and has a top speed of 177 km/h. Combined fuel consumption is 4.7 l/100km and CO_2 emissions are 106 g/km.

The e-Skyactiv-G 90 PS engine with MHEV technology develops maximum power at 6000 rpm, and maximum torque of 151 Nm at 3500 rpm. It offers 0-100km/h acceleration in 9.8 seconds and a 183 kph maximum speed. Combined fuel consumption and CO_2 emissions are 4.4 l/100km and 100 g/km respectively.

The e-Skyactiv-G 115 PS engine with MHEV technology develops maximum power at 6000 rpm, and maximum torque of 151 Nm at 3500 rpm. It offers 0-100km/h acceleration in 9.1 seconds and a 200 kph maximum speed. Combined fuel consumption and CO_2 emissions are 4.4 l/100km and 105 g/km respectively.

M HYBRID TECHNOLOGY FOR ENHANCED ENVIRONMENTAL PERFORMANCE

Mazda's Skyactiv-eSync electrification technologies work together with the company's highly efficient Skyactiv engines to not only improve fuel economy and reduce CO_2 emissions but also to enhance the quality of the driving experience. These technologies deliver efficient, smooth, high-quality dynamic performance by coordinating and harmonizing the functions of all actuators and motors, including the engine, transmission and brakes.

e-Skyactiv-G 90 PS and 115 PS manual transmission versions of the 2023 Mazda2 adopt Skyactiv-eSync technology for a compact car in the form of a unique mild hybrid system called Mazda M Hybrid. Compact and highly efficient, the mild hybrid system combines Mazda's existing i-ELOOP regenerative braking technology with a belt-driven integrated starter generator (B-ISG) and a capacitor.

The B-ISG converts recovered kinetic energy into electric power and stores it in the capacitor. When sufficient energy has been stored in the capacitor, the system uses the B-ISG's power-generation and drive functions to make the most of the stored electricity. Acting in combination with a six-speed manual transmission, the B-ISG delivers a refined driving feel by enabling the system to provide drive assistance and helping the engine restart more quickly and quietly after extended i-stop engine off periods.

The combination of Mazda M Hybrid technology and a new approach to tyre design has lowered the Mazda2's CO_2 emissions from 122 g/km to just 107 g/km (90 PS with 6-speed manual transmission and Mazda M Hybrid technology).

Improved fuel economy and emissions performance: The B-ISG's motor assist function reduces the load on the engine and enables quick engine restarts that help to lower CO_2 emissions and improve fuel economy by extending the auto engine stop operating time. The engine now remains off until first gear has been engaged and the driver is on the point of releasing the brakes.

Quiet restart after auto engine stop: The belt drive suppresses vibration and delivers a quiet, smooth restart.

Gear change assist when shifting up: When the driver backs off the accelerator and depresses the clutch in order to shift to a higher gear, the B-ISG proactively generates power to ensure that engine revs drop quickly to suit the higher gear. This delivers a smooth gear change with no shift shock.

FASTER MORE LINEAR ACCELERATION RESPONSE

An engine control programme created during the development of the e-Skyactiv-X engine improves vehicle response to and control of acceleration.

In manual transmission versions of the 2023 Mazda2, improving the throttle's response to accelerator operation and choosing gear settings that link together well, have resulted in a responsive and rhythmical up-shifting of gears from the moment the car starts moving.

Precise torque control also keeps vibration low when accelerating or changing gears, which in turn curbs driver and passenger head movement and allows occupants to enjoy smooth acceleration.

For variants equipped with an automatic gearbox, the transmission time and timing has been fine-tuned so that occupants can use their innate balance ability in response to gear changes. The acceleration inclination before and after gear changes has been made more uniform, smoothing out acceleration and minimising occupant head and body movement.

The balance between transmission time and timing has also been carefully adjusted so that occupants can keep their heads stable with minimal body movement, much like when walking.

SKYACTIV-G 1.5 LITRE PETROL ENGINE

Skyactiv-G 1.5 is a highly efficient, high compression ratio direct injection petrol engine combining nimble performance with outstanding fuel economy and low emissions. The engine adopts numerous advanced technologies to maximise its efficiency and performance.

Mazda's unique, world-first Diagonal Vortex Combustion technology and a commensurate increase in the engine's compression ratio from 14 to 15:1 combine to improve fuel economy by some 6.8%, and lower CO_2 emissions across the powertrain range by 9-12% in the WLTC mode.

The configuration of both the piston ring and the piston skirt surface has been optimised to reduce mechanical resistance. Optimisation of the piston head design and multistage fuel injection improve fuel efficiency and suppresses knocking. The fuel injector design produces atomized spray under high fuel pressure, preventing wasteful adherence of fuel to the cylinder walls and achieving good combustion. The coolant control system's thermal management achieves a quick temperature increase, reducing the use of fuel that does not contribute to combustion.

Acting in combination, not only do these technologies improve fuel economy and significantly reduce particulate matter emissions, they also improve torque output at all rpm.

KEY SKYACTIV-G 1.5 TECHNOLOGIES

Diagonal Vortex Combustion: Destined to become the company's standard (non SPCCI) petrol combustion technology in the future. Mazda's unique, world-first Diagonal Vortex Combustion technology works in conjunction with the fuel injection and air intake systems to create a diagonal vortex of evenly mixed air and fuel within the combustion chamber, gathering the mixture around the spark plug to effect efficient and rapid combustion. This ground-breaking technology improves fuel economy by some 6.8%, and lowers CO_2 emissions across the Skyactiv-G 1.5 litre powertrain range by 9-12% in the WLTC mode.

Precise fabrication of air intake port, optimised piston configuration: Precise crafting of the air intake port configuration increases intake-generated vertical vortex tumble. Geometry optimisation by reducing the height of the piston head bowl intensifies tumble during the compression process and increases turbulent energy at ignition. These measures result in fast flame spread after ignition and prompt completion of combustion without generating abnormal combustion. This translates into improved low- to mid-range torque and better fuel economy at high speed.

Highly efficient fuel injection: High fuel injection pressure of 30 MPa and a multi-hole injector enable faster atomization over a wider area and achieve efficient, less wasteful combustion that steadily vaporizes fuel before it can adhere to the cylinder walls. Furthermore, during the cooling period, which is prone to the generation of particulate matter, the use of three-stage split fuel injection improves vaporisation and atomisation and reduces the generation of particulate matter during combustion by about 80%.

Coolant control system: A coolant control valve system almost completely stops coolant flow around the combustion chamber during initial warm-up to prevent heat loss. Vaporising petrol when cold requires the extra injection of fuel. But the coolant control valve quickly raises the chamber wall temperature, reducing that excess fuel volume to about half that of the previous Skyactiv-G 1.5 model, thereby improving fuel efficiency.

Optimisation of oil ring and piston skirt configurations: The oil ring features an asymmetrical profile with a larger radius on the upper circumference and a smaller radius on the lower circumference. This optimises oil film thickness during vertical piston action, reducing mechanical resistance. The ideal, barrel-shaped curvature of the piston skirt further reduces mechanical resistance, which in turn improves fuel economy.

5| SAFETY

The 2023 Mazda2 is equipped with a comprehensive range of safety features including LED headlamps fitted, as standard, across the model range, and optional Adaptive LED Headlights (ALH), Advanced Smart City Brake Support (Advanced SCBS) now featuring pedestrian detection and Lane Keep Assist (LAS – standard on Exclusive-Line grade). Traffic Sign Recognition (TSR) and a 360° View Monitor with Front Parking Sensors are both optionally available on Exclusive-Line grade models.

ADAPTIVE LED HEADLIGHTS (ALH)

ALH incorporates the following features to improve visibility when driving at night: Auto-controlled glare-free high beams, wide-range low beams that illuminate a wider area, and Variable Speed Mode, which progressively raises the axis of illumination as driving speeds rise. The headlamp's array of LEDs has been divided more finely into 20 blocks that can be independently illuminated. High beam visibility has been significantly enhanced to illuminate 80 meters further ahead than the current model.

By dividing the array of LEDs more finely, the area in which the headlamps are turned off when detecting an oncoming vehicle has been greatly reduced, making it possible to detect pedestrians more quickly. The system also makes use of new controls that allow the light from the high beams to be distributed in three different patterns depending on the car's speed, ensuring optimum visibility for the driver at all times.

The operation control range of the adaptive headlights, which illuminate the area ahead based on the steering angle, has been expanded from two stages to six. This finer, smoother adjustment of the light enhances visibility when cornering for even more precise control of the illuminated area.

ADVANCED SMART CITY BRAKE SUPPORT WITH PEDESTRIAN DETECTION

Advanced Smart City Brake Support (Advanced SCBS) uses the forward viewing camera to detect vehicles and pedestrians ahead and to help avoid collisions or mitigate damage in the event one does occur.

The system can detect vehicles at speeds of from 4 to 80 km/h and pedestrians at from 10 to 80 km/h.

LANE KEEP ASSIST SYSTEM

Lane Keep Assist System (LAS) uses an audible alarm and steering wheel vibration to alert the driver that the vehicle may be deviating from its lane and provides steering assistance to help the driver stay within vehicle lanes. In order to prevent deviation from a lane, models with the Mazda Connect (MZD Connect) system can select either a 'Lane Departure Prevention' function with a slightly slower assistance response or a new 'Lane Trace Assist' system that gives early assistance to keep the vehicle centred in its lane or guided around road curves. These systems operate at speeds of 60 km/h and above.

TRAFFIC SIGN RECOGNITION SYSTEM

Traffic Sign Recognition System (TSR) uses the forward viewing camera to detect speed limit, no entry, and stop signs while driving, and displays the sign’s message on the Active Driving Display. If the vehicle exceeds the speed limit, TSR warns the driver by blinking graphics on the display and sounding an alert.

360° VIEW MONITOR WITH FRONT PARKING SENSOR

Four cameras on the front, sides and rear of the vehicle show the area around the car on a central display. In conjunction with eight parking sensors at the front and rear that detect proximity to obstacles and trigger an alarm when necessary, the system helps the driver perceive obstacles they cannot see. After the cameras have been activated, drivers can select from different views and view combinations using the touch screen or commander control.

In the case of entering or exiting a parking space, for instance, the central display shows the near view in front of or behind the vehicle, together with a separate overhead view. When the driver wants only a front- or rear-view, wide-angle cameras mounted at either end of the vehicle can provide a 177° view of the road up to 25 meters in both directions.

6| TECHNICAL SPECIFICATIONS 2023 MAZDA2

DIMENSIONS

		HATCHBACK
Body Type		
Doors		4 + liftgate
Seating capacity		5
External		
Overall length (without licence plate holder)	mm	4,080
Overall width	mm	1,695
Overall width (mirror to mirror)	mm	2,028
Overall height (without shark fin antenna)	mm	1,495
Wheelbase	mm	2,570
Overhang front (without licence plate holder)	mm	830
Overhang rear	mm	680
Tread front	mm	1,495
Tread rear	mm	1,485
Ground clearance between axles (laden), w. driver 75 kg	mm	143
Interior		
Front headroom	mm	984
Rear headroom	mm	945
Front shoulder room	mm	1,352
Rear shoulder room	mm	1,273
Front hip room	mm	1,322
Rear hip room	mm	1,212
Front legroom	mm	1,063
Rear legroom	mm	881
Boot		
Cargo volume - VDA (without underfloor storage space)	l	250
Cargo volume - VDA (with underfloor storage space)	l	255

ENGINES & PERFORMANCE

		SKYACTIV-G 1.5 6MT (75 PS)	SKYACTIV-G 1.5 6AT (90 PS)	e-SKYACTIV G 1.5 6MT MAZDA M HYBRID (90 PS)	e-SKYACTIV G 1.5 6MT MAZDA M HYBRID (115 PS)
Powertrain		FWD	FWD	FWD	FWD
Engine type		I4 DOHC 16 valves	14 DOHC 16 valves	I4 DOHC 16 valves	I4 DOHC 16 valves
Displacement	cm^3	1,496	1,496	1,496	1,496
Bore x stroke	mm	74.5x85.8	74.5x85.8	74.5x85.8	74.5x85.8
Fuel injection type		Direct injection	Direct injection	Direct injection	Direct injection
Compression ratio		15	15	15	15
Max. power	kW (PS)/rpm	55 (75) / 6,000	66 (90) / 6,000	66 (90) / 6,000	85 (115) / 6,000
Max. torque	Nm/rpm	143 / 3,500	151 / 3,500	151 / 3,500	151 / 3,500
Recommended fuel type		95 RON	95 RON	95 RON	95 RON
Fuel tank capacity	l	44	44	44	44
Fuel Consumption (WLTP)[1] combined	l/100km	4.8	5.4	4.7	5.0
Fuel Consumption (NEDC)[2] combined	l/100km	4.4	4.7	4.4	4.4
Emission regulations		Stage6 G2	Stage6 G2	Stage6 G2	Stage6 G2
CO_2 emissions (WLTP) combined	g/km	109	122	107	113
CO_2 emissions (NEDC) combined	g/km	101	106	100	105
CO_2 class		C	D	C	C
Transmission		6MT	6AT	6MT	6MT
Top speed	km/h	171	177	183	200
Acceleration	s	11.3	12,1	9,8	9,1
Gear ratios					
1st		3.583	3.529	3,583	3,583
2nd		1.904	2.025	1,904	1,904
3rd		1.218	1.348	1,218	1,290
4th		0.918	1.000	0,918	1,028
5th		0.717	0.742	0,717	0,837
6th		0.549	0.594	0,549	0,680
Reverse		3.416	2.994	3.416	4.416
Final gear ratio		3.619	4.319	3.619	4.105

[1] Vehicles are homologated in accordance with the type approval procedure WLTP (Regulation (EU) 1151 / 2017; Regulation (EU) 2007/715)
[2] To provide comparability the referred values are NEDC data – values determined in line with Implementation Regulation (EU) 1153 / 2017

MAZDA M HYBRID SYSTEM

		e-SKYACTIV G 1.5 6MT (90 PS)	e-SKYACTIV G 1.5 6MT (115 PS)
Hybrid type		Capacitor	Capacitor
Capacitator	kWh	0.012	0.012
Voltage	V	22.5	22.5

SUSPENSION & WHEELS

	SKYACTIV-G 1.5 6MT (75 PS)	SKYACTIV-G 1.5 6AT (90 PS)	e-SKYACTIV G 1.5 6MT MAZDA M HYBRID (90 PS)	e-SKYACTIV G 1.5 6MT MAZDA M HYBRID (115 PS)
Suspension				
Front suspension	MacPherson strut			
Rear suspension	Torsion beam axle			
Wheel & Tyres				
Wheel size	15X5.5J			16X5.5J
	16X5.5J			
Tyre size	185/65R15			
	185/60R16			

STEERING & BRAKES & WEIGHT

		SKYACTIV-G 1.5 6MT (75 PS)	SKYACTIV-G 1.5 6AT (90 PS)	e-SKYACTIV G 1.5 6MT MAZDA M HYBRID (90 PS)	e-SKYACTIV G 1.5 6MT MAZDA M HYBRID (115 PS)
Steering					
Steering type		Rack and pinion			
Power assist type		Column-EPAS			
Turning circle diameter (wall to wall)	m	10.2 (15") / 10.5 (16")			
Brakes					
Type front		Ventilated discs			
Type rear		Drum			
Diameter front	mm	258			
Diameter rear	mm	200			
Weight					
Minimum curb weight	kg	1,024	1,039	1,037	1,045

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