



## 2024 MAZDA CX-90 PLUG-IN HYBRID SPECIFICATIONS & FEATURES



**2024 MAZDA CX-90 PLUG-IN HYBRID****MODEL LINE-UP**

<b>TRIM</b>	<b>TRANSMISSION</b>	<b>DRIVE</b>	<b>ENGINE</b>	<b>ELECTRIFICATION SYSTEM</b>	<b>DESCRIPTION</b>
<b>GS*</b>	8-speed automatic transmission	AWD	2.5 e-Skyactiv PHEV	Plug-in Hybrid	
<b>GS-L</b>	8-speed automatic transmission	AWD	2.5 e-Skyactiv PHEV	Plug-in Hybrid	
<b>GT</b>	8-speed automatic transmission	AWD	2.5 e-Skyactiv PHEV	Plug-in Hybrid	

\*This model will be introduced in the fall of 2023. More detailed timing will be communicated at a later date.

**OPTIONS****AVAILABLE ON**

Rhodium White Metallic	GS-L/GT
Machine Grey Metallic	All models
Artisan Red Metallic	GT
Soul Red Crystal Metallic	GS-L/GT
Pure White Nappa Leather interior (available with select exterior colours only)	GT

## ENGINE

GS/GS-L/GT	
Type	2.5 e-Skyactiv PHEV, i-stop
Valve train	DOHC 16-valve
# of cylinders/configuration	4/Inline
Displacement	2,488 cc
Compression ratio	13.0:1
Horsepower SAE net (system)	323 @ 6,000 rpm (with 93 octane fuel)/319 @ 6,000 rpm (with 87 octane fuel)
Torque SAE net lb-ft (system)	369 @ 4,000 rpm (with 93 octane fuel)/369 @ 4,000 rpm (with 87 octane fuel)
Horsepower SAE net (engine)	189 @ 6,000 rpm (with 93 octane fuel)/185 @ 6,000 rpm (with 87 octane fuel)
Torque SAE net lb-ft (engine)	192 @ 4,000 rpm (with 93 octane fuel)/184 @ 4,000 rpm (with 87 octane fuel)
Redline	6,500 rpm
Fuel system	Direct injection
Recommended fuel	Premium unleaded

## ELECTRIC SYSTEM

GS/GS-L/GT	
Electric motor	
Type	Permanent magnet-type synchronous electric motor
Output	Rated Motor/Generator Power (EPA) Drive motor rated power's rated RPM
	68 kW 4,350 rpm
Battery <sup>1</sup>	Type Discharge capacity Weight Total voltage Battery capacity
	Lithium-ion battery 50 Ah 178 kg 355 V 17.8 kWh
Powertrain	Electric motor power outlet Electric motor torque
	173 hp @ 5,500 rpm 199 lb-ft @ 400 rpm

<sup>1</sup> In cold weather temperature, the engine may start and use fuel, even with a fully charged battery. The use of the engine is required to ensure proper heating of the passenger cabin. Make sure there is fuel in the tank.

## CHARGING COMPATIBILITY

Home and Public charging (Level 1 AC 120 V and 15 Amps) <sup>1</sup>	6.4 Hours	Mode 2 (120 V×15 A) – state of charge from 20% to 80%
Home and Public charging (Level 2 AC 240 V and 30 Amps) <sup>1</sup>	1.3 Hours	Mode 2 (240 V×30 A) – state of charge from 20% to 80%

<sup>1</sup> The charging time is based on a battery/ambient temperature of 20° C. The actual charging time depends on the various conditions at the time of charging, such as the type of fast charging station, battery status, charging habits and the battery and ambient temperature. In cold conditions, both the battery and the ambient temperature affect the required charging time, which in certain situations can lead to a significant increase in the charging time.

## CHASSIS

Front suspension	Independent, double wishbone	
Rear suspension	Independent, multi-link with coil springs and stabilizer bar	
Steering	Rack-and-pinion with engine-rpm-sensing variable power assist	
Steering ratio	17.1:1	
Minimum turning circle	11.6 m (curb-to-curb diameter)	
Brakes	Anti-lock Brake System (ABS) with Electronic Brake Force Distribution (EBFD)	
	347 mm ventilated front discs	
	350 mm solid rear discs	
Curb weight (kg)	2,344	

## CAPACITIES

Seating	GS	GS-L/GT
Capacity	8	7
Configuration	2/3/3	2/2/3
Fuel tank	70 L	70 L
Washer fluid tank	4.2 L	4.2 L

## EXTERNAL DIMENSIONS

<b>Overall height (mm)</b>	with roof rails	1,733 without shark fin antenna (unladen)	
	without roof rails	1,745 with shark fin antenna (unladen)	
		1,740 with shark fin antenna (unladen)	
<b>Overall width (mm) (mirror to mirror)</b>		1,971 (mirrors folded)	
		2,157 (mirrors in driving position)	
<b>Overall length</b>		5,120 mm (with licence plate holder)	
<b>Wheelbase</b>		3,120 mm	
		<b>19-inch wheels</b>	<b>21-inch wheels</b>
<b>Track (fr)</b>		1,705 mm	1,705 mm
<b>Track (rr)</b>		1,708 mm	1,708 mm
<b>Ground clearance (laden)</b>		200 mm	203 mm
<b>Ground clearance (unladen)</b>		204 mm	206 mm
<b>Approach Angle</b>		18.8°	19.1°
<b>Departure Angle</b>		20.6°	20.8°
<b>Break-over Angle</b>		15.9°	16.2°

## INTERNAL DIMENSIONS (MM)

Headroom (fr/rr1/rr2)	1,008/997/936 (without panoramic roof) / 1,005/975/935 (with panoramic roof)
Legroom (fr/rr1/rr2)	1,058/1,000/773
Shoulder room (fr/rr1/rr2)	1,504/1,476/1,363
Hiproom (fr/rr1/rr2)	1,427/1,410/1,110
Cargo length (behind front seat)	2,438
Cargo length (behind second-row seat)	1,343
Cargo length (behind third-row seat)	527
Width at floor	1,265
Width between rear tire housing	1,110
Height from floor to roof	773 (without panoramic roof) / 765 (with panoramic roof)
Liftgate opening width	1,106
Liftgate opening height	742

## CARGO VOLUME

## Cargo volume (SAE)

Behind front seat	2,101 L
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Behind second-row seat	1,133 L
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Behind third-row seat	423 L
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FUEL ECONOMY RATINGS (L/100 KM)<sup>1</sup>

## e-Skyactiv PHEV

Combined	9.4
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ENERGY CONSUMPTION ESTIMATES (Le/100 KM)<sup>2</sup>

## e-Skyactiv PHEV

Combined	4.2
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ELECTRIC DRIVING RANGE (KM)<sup>3</sup>

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## TOWING CAPACITY

Towing capacity	1,588 kg (3,500 lb)
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<sup>1</sup> Estimated fuel economy based on Government of Canada's approved, revised 5-cycle testing method. Your actual fuel consumption may vary depending on how, where and when you drive. For comparison purposes only. For more information on revised 5-cycle testing, visit the Government of Canada website. <https://www.nrcan.gc.ca/energy-efficiency/transportation-alternative-fuels/fuel-consumption-guide/understanding-fuel-consumption-ratings/fuel-consumption-testing/21008>

<sup>2</sup> Estimated based on preliminary testing by Mazda. Once confirmed, the official numbers will be published in the applicable NRCan Fuel Consumption Guide. To help compare vehicles that use electricity, a conversion factor is used by NRCan to convert electrical energy consumption values, expressed in kilowatt hours per 100 kilometres (kWh/100 km), into gasoline litres equivalent per 100 kilometres (Le/100 km). One litre of gasoline contains the energy equivalent to 8.9 kWh of electricity.

<sup>3</sup> Combined range estimate based on preliminary testing by Mazda. Once confirmed, the official range rating will be published in the applicable NRCan Fuel Consumption Guide. Full battery charge is required. Actual driving range will vary depending upon driving/charging habits, speed, conditions, weather, temperatures, and battery age.

## GS

## ENGINE AND MECHANICAL

e-Skyactiv PHEV, i-stop  
 2.5 L I4 cylinder engine  
 Horsepower (system): 323 hp  
 Torque (system): 369 lb-ft  
 Recommended fuel: Premium  
 8-speed automatic transmission with manual shift mode  
 Paddle shifters  
 Mi-Drive (Normal/Sport/Off-road/EV modes)  
 i-Activ AWD  
 Kinematic Posture Control (KPC)  
 Towing capability: 1,588 kg (3,500 lb)

## ELECTRIC SYSTEM

Plug-in Hybrid System

Lithium-ion battery<sup>1</sup>  
 Battery: 17.8 kWh<sup>1</sup>  
 Electric motor power output: 173 hp @ 5,500 rpm  
 Electric motor torque: 199 lb-ft @ 400 rpm

## CHARGING COMPATIBILITY

Home and Public charging  
 (Level 1 AC 120 V and 15 Amps)<sup>2</sup>  
 Mode 2 (120 Vx15 A) – state of charge from 20% to 80%  
 6.4 Hours

Home and Public charging  
 (Level 2 AC 240 V and 30 Amps)<sup>2</sup>  
 Mode 2 (240 Vx30 A) – state of charge from 20% to 80%  
 1.3 Hours

## SUSPENSION AND BRAKES

Power-assisted four-wheel disc brakes  
 Anti-lock Brake System (ABS) with  
 Electronic Brake Force Distribution (EBFD)  
 Front suspension: Independent, double wishbone  
 Rear suspension: Independent, multi-link with  
 coil springs and stabilizer bar  
 Rack-and-pinion steering with engine-rpm-sensing  
 variable power assist

## TIRES AND WHEELS

19-inch alloy wheels (silver metallic)  
 265/55R19 tires  
 Tire Pressure Monitoring System (TPMS) – direct type  
 Temporary spare tire – T155/90D18

## SAFETY AND SECURITY

Front dual stage driver's and front passenger's airbags  
 Front and rear side airbags  
 Front and rear curtain airbags  
 Front driver's and passenger's knee airbag  
 Passenger airbag deactivation system (auto switch)  
 Blind Spot Monitoring (BSM)  
 Rear Cross Traffic Alert (RCTA)  
 Driver Attention Alert (DAA)  
 Distance & Speed Alert (DSA)  
 Mazda Radar Cruise Control with Stop & Go function  
 (MRCC with Stop & Go function)  
 Pedestrian Detection (front)  
 Dynamic Stability Control (DSC)  
 Traction Control System (TCS)  
 Trailer Stability Control (TSC)  
 Hill Descent Control  
 Hill Launch Assist (HLA)  
 Lane Keep-assist System (LAS)  
 Lane Departure Warning System (LDWS)  
 Emergency Lane Keeping with Road Keep Assist  
 Rearview camera (with static guide lines)  
 Smart Brake Support Front (SBS-F)  
 High Beam Control system (HBC)  
 Front and rear second-row (outboard seats only)  
 seat belt pretensioners with force limiters  
 Child-safety rear door locks  
 Integrated rear seat child safety seat lower anchors  
 & upper tethers  
 3-point safety belts for all occupants  
 Height-adjustable front and rear seat head restraints  
 Height-adjustable front seat belts  
 Front active head restraints  
 Engine immobilizer theft-deterrent system

## EXTERIOR

Automatic-levelling LED headlights  
 LED daytime running lights  
 LED rear combination taillights  
 Automatic on/off headlights  
 Body-coloured door handles  
 Body-coloured rear roof spoiler  
 High-mount stop light  
 Manually foldable door mirrors  
 Power, heated, body-coloured exterior mirrors with  
 integrated side turn signal indicators  
 Exterior B and C pillar garnish in black  
 Black honeycomb front grille inserts  
 Front signature wing in chrome finish  
 Intermittent rain-sensing windshield wipers  
 Intermittent rear wipers  
 Rear window defroster  
 Privacy glass on rear door glass, quarter glass  
 and rear gate glass  
 Noise-isolating windshield  
 Noise-isolating glass  
 (driver's and front passenger's windows)  
 Green tint glass with UV shield  
 AWD badge on liftgate  
 Chrome PHEV side badge  
 Wheel arch and rocker trim in black  
 Front and rear lower bumper in black

## INTERIOR: AUDIO &amp; CONNECTIVITY

10.25-inch full-colour centre display  
 Mazda Connect Infotainment system  
 Mazda Connected Vehicle Services<sup>3</sup>  
 Mazda Harmonic Acoustics with 8 speakers  
 AM/FM radio  
 Wired Apple CarPlay™ integration  
 Wired Android Auto™ integration  
 Bluetooth® hands-free phone and audio capability  
 Steering-wheel-mounted audio, phone  
 and cruise controls  
 2 front Type-A USB ports  
 Navigation-ready  
 (requires navigation SD card accessory)<sup>4</sup>  
 SMS text message functionality

## INTERIOR: COMFORT &amp; CONVENIENCE

3-zone automatic climate control  
 Rear A/C display  
 3rd row air vents  
 Rear heater ducts  
 Push Button Start  
 Electronic Parking Brake (EPB) with auto-hold function  
 Manual tilt and telescopic steering wheel  
 Power windows with one-touch up and down  
 (front and rear)  
 Keyless entry  
 (vehicle access and lock via key fob buttons)  
 Day/night rearview mirror  
 Speed-sensing power door locks  
 Driver's and passenger's sunvisors with  
 covered vanity mirrors and extension  
 Rear centre armrest  
 Illuminated entry system  
 Room lamp  
 Cargo area light  
 Internal hood release  
 12-volt power outlets (front and rear)  
 2 rear charging Type-A USB ports (second row)

<sup>1</sup> In cold weather temperature, the engine may start and use fuel, even with a fully charged battery. The use of the engine is required to ensure proper heating of the passenger cabin. Make sure there is fuel in the tank.

<sup>2</sup> The charging time is based on a battery/ambient temperature of 20° C. The actual charging time depends on the various conditions at the time of charging, such as the type of fast charging station, battery status, charging habits and the battery and ambient temperature. In cold conditions, both the battery and the ambient temperature affect the required charging time, which in certain situations can lead to a significant increase in the charging time.

<sup>3</sup> Mazda Connected Vehicle Service is available for a 2 year trial period from your vehicle's in-service date; a paid subscription is required upon expiry of the trial period. Requires MyMazda App (on a compatible smartphone), a working vehicle electrical system (including battery), wireless coverage and GPS satellite signal. Services, connectivity and capabilities vary by conditions as well as geographical and technical restrictions. See [mazda.ca](https://www.mazda.ca) for details. Services may include: Remote Services [remote lock/unlock, remote hazard lights; Vehicle Status [vehicle status alert]; Navigation Services [vehicle finder, send to car\*]; Vehicle Connected Services [vehicle health report, online update, push notifications, malfunction notification]; Mazda Road Side Assistance; Geofence (Driver alert/Parental control/Geofence); Last kilometer navigation; Smartwatch integration.

<sup>4</sup> To use the navigation system, the SD card containing the map information needs to be inserted in the SD card slot.



**GS (CONTINUED)**

**INTERIOR: SEAT & INTERIOR TRIM**

Premium cloth upholstery  
 Urethane steering wheel  
 Urethane shift knob  
 Heated front seats (three settings)  
 6-way manually adjustable driver's seat  
 4-way manually adjustable front passenger's seat  
 60/40-split folding 2nd row seatback  
 Reclining and sliding second-row seats  
 Custom CX-90 embroidered floor mats  
 Silver finish inner door handles (front and rear)  
 Passenger's single seatback pockets  
 Silver painted dash strip trim  
 Dashboard mid-panel in black  
 Centre console panel in black  
 Silver finish side louver bezel  
 8-seat capacity

**STORAGE**

Front centre console with armrest and storage  
 2 cup holders in 1st row centre console  
 2 cup holders in 2nd row centre console  
 4 cup holders in 3rd row (2 in each quarter trim panel)

**INSTRUMENTATION**

Tachometer  
 Engine coolant temperature gauge  
 Fuel gauge  
 Meter-set with 12.3-inch LCD display  
 Meters indicate: speedometer, odometer, trip meter, outside temperature, maximum driving distance, average fuel economy, current fuel economy, deceleration regeneration charge display, i-Activsense display, compass display, door ajar/liftgate ajar/hood ajar warning indication, message display

**GS-L** Includes the following features in addition to or in place of CX-90 Plug-In Hybrid GS:

**ENGINE AND MECHANICAL**

Mi-Drive (Normal/Sport/Off-road/EV/Towing modes)

**EXTERIOR**

Power sliding panoramic moonroof with one-touch open/close  
 Hands-free, height-adjustable power rear liftgate  
 Rear parking sensors  
 Roof rails in satin chrome  
 Exterior B and C pillar garnish in glossy black  
 Front wiper de-icer  
 Piano black front grille inserts

**INTERIOR: AUDIO & CONNECTIVITY**

2 front Type-C USB ports  
 AM/FM/HD radio  
 Wireless phone charger (Qi)

**INTERIOR: COMFORT & CONVENIENCE**

Rear centre armrest with integrated storage  
 Auto-dimming rearview mirror  
 Driver's and passenger's sunvisors with illuminated covered vanity mirrors and extensions  
 Advanced keyless entry (vehicle access and lock via key fob proximity)  
 Satin chrome ring detail on Push Button Start  
 2 rear charging Type-C USB ports (second row)  
 2 rear charging Type-C USB ports (third row)  
 Front door courtesy lamp

**INTERIOR: SEAT & INTERIOR TRIM**

7-seat capacity  
 Second-row Captain's Chairs  
 Leatherette-trimmed upholstery  
 10-way power driver's seat (includes power lumbar support)  
 4-way power passenger's seat  
 Heated steering wheel  
 Leather-wrapped steering wheel and shift knob  
 Lined glove box  
 Front door courtesy lamp  
 Lower steering wheel spokes in bright finish  
 Dash strip trim in silver finish  
 Bright finish door handles (front and rear)

**STORAGE**

Overhead console with sunglasses holder

**GT** Includes the following features in addition to or in place of CX-90 Plug-In Hybrid GS-L:

**SAFETY AND SECURITY**

- 360° View Monitor
- Front and rear parking sensors
- Windshield-projected colour Active Driving Display (large view)
- Traffic Sign Recognition System (TSR)
- Adaptive Front-lighting System (AFS)
- Smart Brake Support Rear (SBS-R)
- Smart Brake Support Rear Crossing (SBS-RC)
- Front Cross Traffic Alert (FCTA)
- Blind Spot Monitoring (BSM) with Vehicle Exit Warning
- Driver Monitoring (DM)
- Rearview camera (with dynamic guide lines)

**TIRES AND WHEELS**

- 21-inch alloy wheels (machined spokes with polished finish and dark painted pockets)
- 275/45R21 tires

**EXTERIOR**

- LED front signature lighting
- Front and rear lower bumper in black with silver accents
- Rocker panel accent trim in bright finish with debossed Mazda wordmark
- Front and rear door garnish moulding in bright finish
- Power folding exterior mirrors (automatic operation)
- Auto-dimming exterior mirror (driver’s side only)
- Shark fin antenna

**INTERIOR: AUDIO & CONNECTIVITY**

- Bose premium sound system with AM/FM/HD radio
- 12 Bose speakers with Centerpoint 2 Surround Technology and AudioPilot 2 Noise Compensation Technology
- Navigation system
- SiriusXM® Satellite Radio (includes complimentary 3-month subscription)
- SiriusXM Traffic Plus and Travel Link® services (includes complimentary 5-year subscription) (Current information for: Traffic, weather, sport scores and fuel prices)
- Wireless Apple CarPlay™ integration
- Wireless Android Auto™ integration

**INTERIOR: COMFORT & CONVENIENCE**

- HomeLink® wireless control system
- Rear door sunshades (retractable)
- Power outlet socket (low AC power/1500 W)
- Illuminated glove box
- Front and rear door courtesy lamp
- Rear console with light
- LED driver’s and passenger’s foot lamps

**INTERIOR: SEAT & INTERIOR TRIM**

- Black Nappa leather-trimmed upholstery
- 8-way power passenger’s seat
- Driver’s seat memory function (2 memory settings)
- Exterior mirrors linked with memory seat function
- Ventilated front seats (three settings)
- Heated second row seats (outboard seats only; three settings)
- Dashboard mid-panel in black with contrast piping and stitching
- Centre console panel in Geomesh
- Centre console cup holders with retractable cover
- Upper door panel trimmed in Geomesh with silver accent
- Door handles in bright finish (front and rear)
- Satin chrome-plated glove box lever

**GT OPTION**

**PURE WHITE NAPPA LEATHER UPHOLSTERY**

- Pure White Nappa leather-trimmed upholstery
- Upper door panel trimmed in Light Arbor with silver accent
- Centre console in Light Arbor
- Dashboard mid-panel in Pure White Leather with stitching and contrast piping
- Centre console armrest in Pure White
- Oyster interior roof lining, A and D pillars

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