



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

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

TRIM	TRANSMISSION	DRIVE	ENGINE	ELECTRIFICATION SYSTEM	DESCRIPTION
GS*	8-speed automatic transmission	AWD	2.5 e-Skyactiv PHEV	Plug-in Hybrid	
GS-L	8-speed automatic transmission	AWD	2.5 e-Skyactiv PHEV	Plug-in Hybrid	
GT	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 ¹	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

¹ 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) ¹	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) ¹	1.3 Hours	Mode 2 (240 V×30 A) – state of charge from 20% to 80%

¹ 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

Overall height (mm)	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)	
Overall width (mm) (mirror to mirror)		1,971 (mirrors folded)	
		2,157 (mirrors in driving position)	
Overall length		5,120 mm (with licence plate holder)	
Wheelbase		3,120 mm	
		19-inch wheels	21-inch wheels
Track (fr)		1,705 mm	1,705 mm
Track (rr)		1,708 mm	1,708 mm
Ground clearance (laden)		200 mm	203 mm
Ground clearance (unladen)		204 mm	206 mm
Approach Angle		18.8°	19.1°
Departure Angle		20.6°	20.8°
Break-over Angle		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
Behind second-row seat	1,133 L
Behind third-row seat	423 L

FUEL ECONOMY RATINGS (L/100 KM)¹**e-Skyactiv PHEV**

Combined	9.4
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ENERGY CONSUMPTION ESTIMATES (Le/100 KM)²**e-Skyactiv PHEV**

Combined	4.2
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ELECTRIC DRIVING RANGE (KM)³

42

TOWING CAPACITY

Towing capacity	1,588 kg (3,500 lb)
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¹ 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>

² 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.

³ 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 battery¹
 Battery: 17.8 kWh¹
 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)²
 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)²
 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 & CONNECTIVITY

10.25-inch full-colour centre display
 Mazda Connect Infotainment system
 Mazda Connected Vehicle Services³
 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)⁴
 SMS text message functionality

INTERIOR: COMFORT & 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)

¹In 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.

²The 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.

³Mazda 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.

⁴To 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)¹
- Smart Brake Support Rear Crossing (SBS-RC)²
- 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

¹ SBS-R: Brake activation speed: 2-15 km/h. System may not detect all obstacles. Always drive attentively.

² SBS-RC: Brake activation speed: Below 15 km/h. System may not detect all obstacles. Always drive attentively.

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