After 20 years of research and development, the car of the future is on the road today.

For more information, or to speak with a Mirai Expert, please visit https://ssl.toyota.com/mirai/faq.html

MECHANICAL

FUEL CELL SYSTEM

Name	Toyota Fuel Cell System (TFCS)

FUEL CELL STACK

Name	Toyota Fuel Cell Stack
Fuel Cell Stack Type	Solid polymer electrolyte fuel cell
Humidification System	Internal circulation system (humidifier-less)
Power Output	153 HP (114 kW) MAX
Output Density By Volume:	3.1 kW/L
Output Density By Weight:	2.0 kW/kg
Cell Number of cells in one stack:	370 (single-line stacking)
Thickness:	1.34 mm
Weight:	102 g
Flow Channel:	3D fine-mesh flow field (cathode)
Emission Rating	Zero Emissions Vehicle (ZEV)

ELECTRIC MOTOR

Motor Type	AC synchronous electric generator
Power Output	151 HP (113 kW) MAX
Peak Torque	247 lb-ft (335 Nm)

HYDROGEN TANKS

Storage Method	Carbon fiber reinforced tanks
Number of Tanks	2
Type	Type-4

HYDROGEN TANKS (Continued)

Material	Three layer structure: 1. **Inner:** polymer-lined layer to hold the hydrogen 2. **Middle layer:** structural layer of carbon-fiber-reinforced polymer to provide strength 3. **Outer:** glass-fiber-reinforced polymer layer to help protect from surface abrasion
Fuel	Compressed hydrogen gas
Maximum Filling Pressure	87.5 MPa
Normal Operating Pressure	70 MPa (approx. 10,000 psi)
Storage Density (Capacity)	5.7 weight %
Internal Volume: Internal Volume Front Tank Internal Volume Rear Tank	122.4 L 60.0 L 62.4 L
Hydrogen Storage Mass	Approx. 5.0 kg
Refueling Time	About 5 minutes

DRIVE BATTERY

Type	Nickel-metal hydride

FUEL CELL BOOST CONVERTER

Number of Phases	4 phases
Voltage	650V (MAX)
Volume	13 L

EPA ESTIMATES

Fuel Consumption	67/67/67 mpge city/hwy/combined

VEHICLE

Cruising Range	312 miles (EPA estimated range)
Maximum Speed	111 mph
Acceleration Performance	0 – 60 mph: 9.0 seconds
Coefficient of Drag (C_d)	0.29
Cold Start Capability	-22°F (-30°C)

CHASSIS AND BODY

Drivetrain	Front-wheel drive
Body Construction	Unitized body
Suspension	Independent MacPherson strut front suspension with stabilizer bar and hydraulic shock absorbers; double wishbone rear suspension with coil springs, trailing arms, stabilizer bar and hydraulic shock absorbers
Starting System	Electronic Push-Button Start System
Steering	Electric Power Steering (EPS) Power-assisted rack-and-pinion
Brakes	Power assisted ventilated front disc brakes and solid rear disc brakes and Star Safety System™

EXTERIOR DIMENSIONS

Wheelbase	109.5 in.
Overall Length	192.5 in.
Overall Width	71.5 in
Overall Height	60.5 in
Minimum Running Ground Clearance	5.1 in.
Tires	P215/55R17
Tire Repair Kit	No spare
Track	60.5/61

INTERIOR DIMENSIONS, front/rear (in.)

Head room	38.5/36.8	Fr/Rr
Shoulder room	54.3/53.52	Fr/Rr
Hip room	53.4/52.4	Fr/Rr
Leg room	42.5/30.1	Fr/Rr

WEIGHTS AND CAPACITIES

Curb Weight (lbs.)	4078.5
Seating capacity	4
Passenger volume (cu. ft.)	85.7
Cargo Volume (cu. ft.)	12.8
Fuel Cell Stack Weight (lbs.)	123.5
Hydrogen Tank Weight (lbs.)	192.9

WARRANTY COVERAGE

- 8-year/100,000-mile Fuel Cell System
  (FC Battery Pack, Battery ECU, FC Air Compressor, FC Boost Converter, FC ECU, H2 tanks, FC PCU (Power Control Unit), FC Stack, HF ECU (H2 Fueling ECU), and Power Management ECU (HV ECU))
- 5-year/60,000-mile Other Powertrain Components
- 3-year/36,000-mile Basic