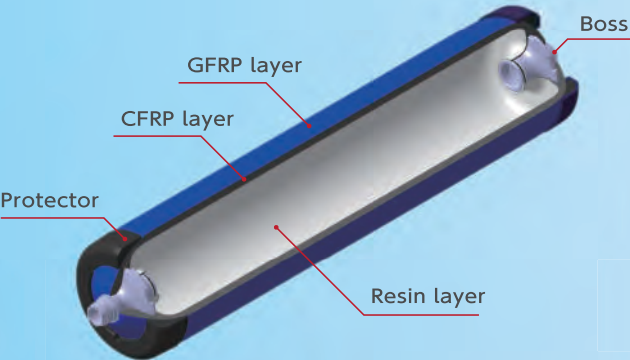


# Toyota high-pressure hydrogen tank



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our WEBSITE

The lineup for large capacity was added, meeting various needs for commercial vehicle's use.



## 1 Safety and reliability

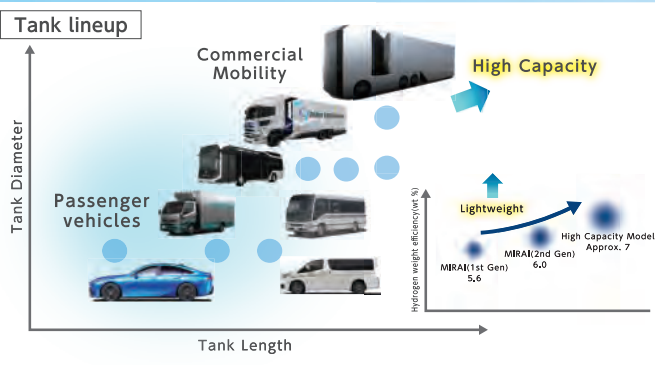
- Vehicle-mounted 70 MPa tanks have been produced since 2008. Cumulative market performance of over **63,000** units. (as of February 2024)
- Traceability framework for all parts and processes.
- Various customer uses and operating environments are taken into account to achieve high unique performance targets in addition to those required by laws and regulations. (E.g., low/high temperatures, collisions, or hydrogen charging.)

## 2 Wide variation, effective hydrogen storage capacity

- The lineup ranges from low to high capacity tanks allowing combinations adapted to the intended use.
- Helps increase cruising range and prolonged use by allowing 98% of the hydrogen in the tank to be used up.

## 3 System configuration proposal and support

- Easy set-up, combining TOYOTA Fuel Cell Module.
- Engineering support for optimized system configuration, based on customers' request.



		G2-1	G2-2	G2-3	G2L-1	G2L-2	G2XL-1
Product specifications							
Nominal use pressure	MPa	70					
Length	mm	1,467	1,201	684	2,062	1,852	2,060
Diameter	mm	299	299	299	486	486	702
Internal volume	L	64.9	52.0	25.3	230.0	202.0	458.5
Tank mass	kg	43.0	36.7	22.6	134.2	121.5	243.8
Hydrogen storage capacity@NWP	kg	2.6	2.1	1.0	9.4	8.2	18.8
Conformity Codes and Standards	GB/T 42612-2023※2			Regulation on Safety of Containers annex11		UN-R134	
	UN-R134, EU 2021/535			UN-R134 EU 2021/535		EU 2021/535	

※1 Note: Valves are not included in the above specifications. ※2 Note: Expected to be certified 2024.

Do not hesitate to contact us for information on other tank sizes, mounting parts such as valves, bosses, and brackets, or help with setting up piping layouts or other systems.

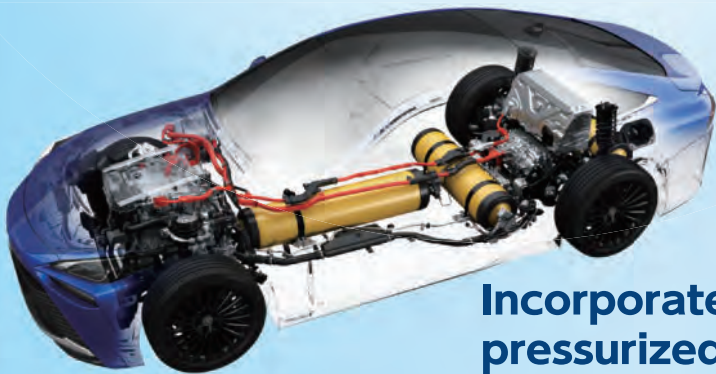
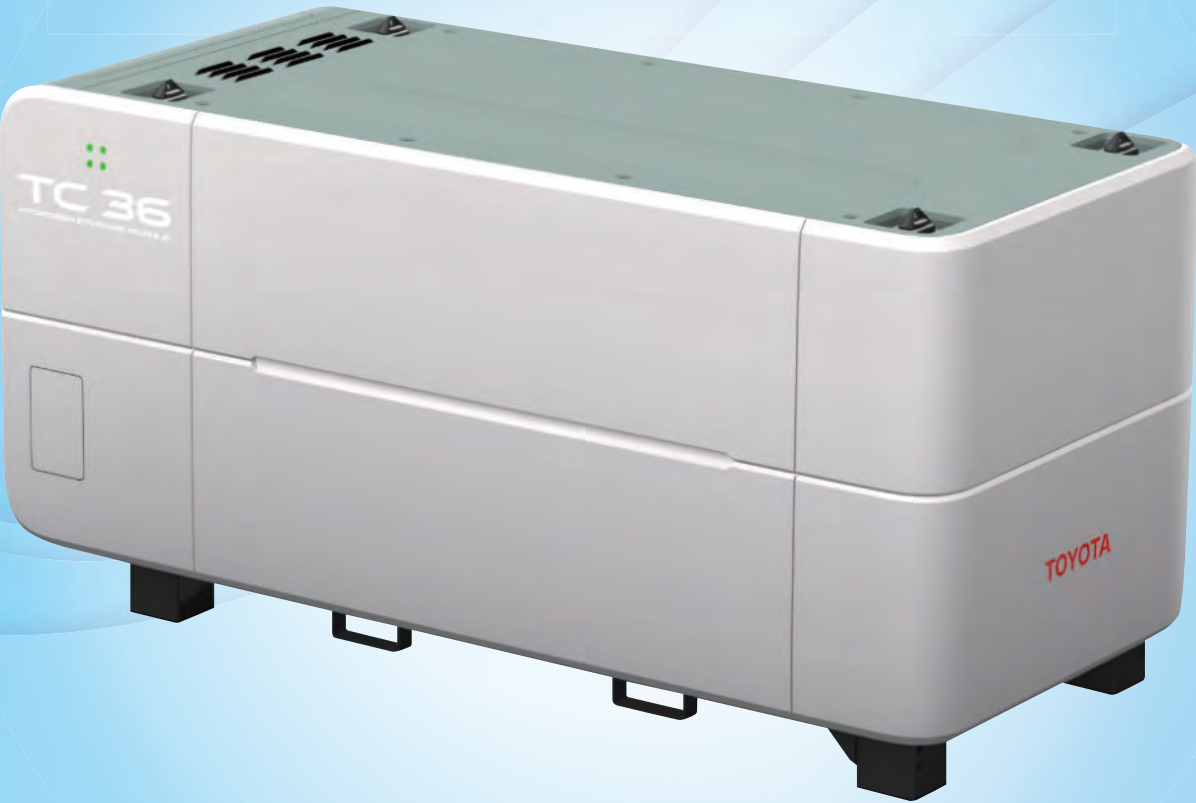
**TOYOTA**

# Toyota Hydrogen Storage Module



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## Improved Efficiency of Transporting and Using Hydrogen Energy



**Incorporates the safe pressurized hydrogen storage technology used in the Mirai**

**TOYOTA**



# Toyota Hydrogen Storage Module



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## 1 Basic performance

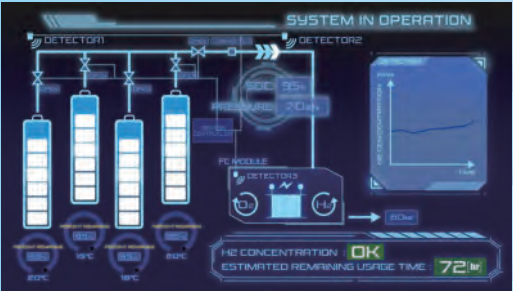
Four tanks using the same lightweight high-capacity resin found in the Mirai are connected in a single module. This allows for roughly four times the hydrogen transport efficiency as conventional metal racks when transported in combination with high-pressure 70 MPa storage technology, while decreasing transport weight.

## 2 Automatic Safety System

The same safety unit that automatically monitors hydrogen status in the Mirai has been integrated into this module. Hydrogen storage and safe operation are both guaranteed.

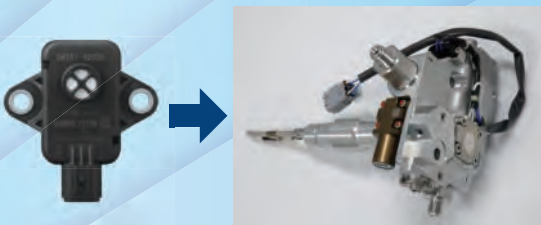
### System monitoring\*

Monitors remaining hydrogen and usage amounts. Centralized management of multiple modules through communication function.



### Automatic Safety System\*

Includes a safety system to detect any external vibrations or internal issues able to instantly stop hydrogen supply.



Detects H<sub>2</sub> leakage  
(Hydrogen detector)

Stops H<sub>2</sub> supply  
(Tank shut-off valve)

※Option package

## 3 A lineup to fit customer needs

The wide range of variations are suited to meet a wide spectrum of needs.

Type	TC18	TC36	TC4	TC8	TC10
Exterior					
Dimensions	L2,650×D1,250×H820	L2,650×D1,250×H1,380	Under development : W1,200×D850×H1,250	Under development : W1,200×D850×H1,550	Under development : W1,200×D850×H1,900
Weight	Approx. 650kg*	Approx. 1,300kg	Approx. 520kg	Approx. 680kg	Under development : Approx. 約710kg
Tank Type	G2L-1×2 tank	G2L-1×4 tank	G2-3×4 tank	G2-2×4 tank	G2-1×4 tank
Tank Volume	450L	900L	101L	208L	260L
Hydrogen Capacity	Approx. 18.0kg	Approx. 36.0kg	4.0kg	8.4kg	10.4kg
Conformity Codes and Standards	Limited approval for Japanese regulation	Limited approval for Japanese regulation	Limited approval for Japanese regulation	Limited approval for Japanese regulation	Limited approval for Japanese regulation
Status	Demonstrating		Under development		

\*Battery is external option

TOYOTA

# Toyota Hydrogen Storage Module

## Store and Transport



H<sub>2</sub> Hydrogen station



"Transport"  
hydrogen efficiently



"Store"  
hydrogen at 70MPa



"Transport"  
hydrogen efficiently

Offer a wide  
variety of  
options

## Use



H<sub>2</sub> Car



H<sub>2</sub> Factory



H<sub>2</sub> Ship



Forklift



Stationary power  
generation



Truck



Construction machinery

TOYOTA