

# Engines you can **count on,** priced fairly, delivered fast



**Kazuo Yonekura, PhD | CEO**

Kazuo Yonekura worked in space development at IHI, before cofounding MJOLNIR SPACEWORKS. After working on development of the H3 rocket, he became involved in the development of MJOLNIR's technology. He was also a faculty member at the University of Tokyo.

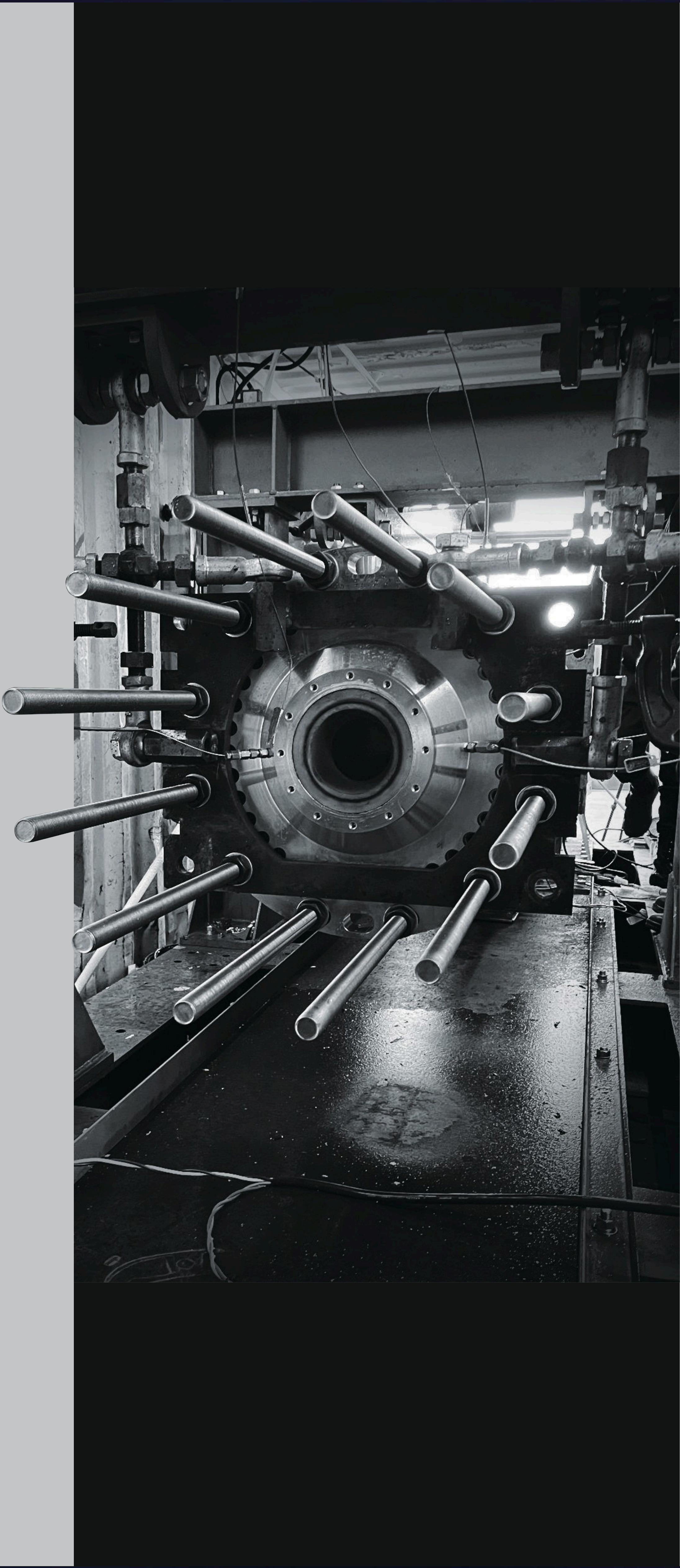
Founded in 2020, MJOLNIR SPACEWORKS grew out of a joint project between IHI and Hokkaido University that began in 2016. With experience in H3 and Epsilon rocket development, our team has supplied space-grade tanks to JAXA. By harnessing the experience of IHI's H3 and Epsilon development team, we have successfully developed a safe, inexpensive rocket engine. We have faith this innovative technology will create demand in Japan and worldwide. MJOLNIR SPACEWORKS was established to deploy this technology with speed and agility. We are preparing to test launch a sounding rocket in winter 2025, as we begin commercial sales. Our easy-to-use catalog includes rocket engines, tanks and space components – reliable products at fair prices with short lead times.

**Supplementary information**

**IHI** : A pioneer in the space rocket industry, leading the world with the development of the H3 and Epsilon rockets (sales of approximately 1.3 trillion yen in 2023, 28,000 employees)  
Total Members: 46 (includes seven experienced project leaders)

# Our **disruptive** solution: the hybrid rocket engine

Our affordable engine is reliably supplied, flight-proven and safe. It can even be tuned to your rocket's specifications. Need additional thrust? It can be strapped on as a booster for launch. It's also a great backup solution if development of your main engine faces challenges.

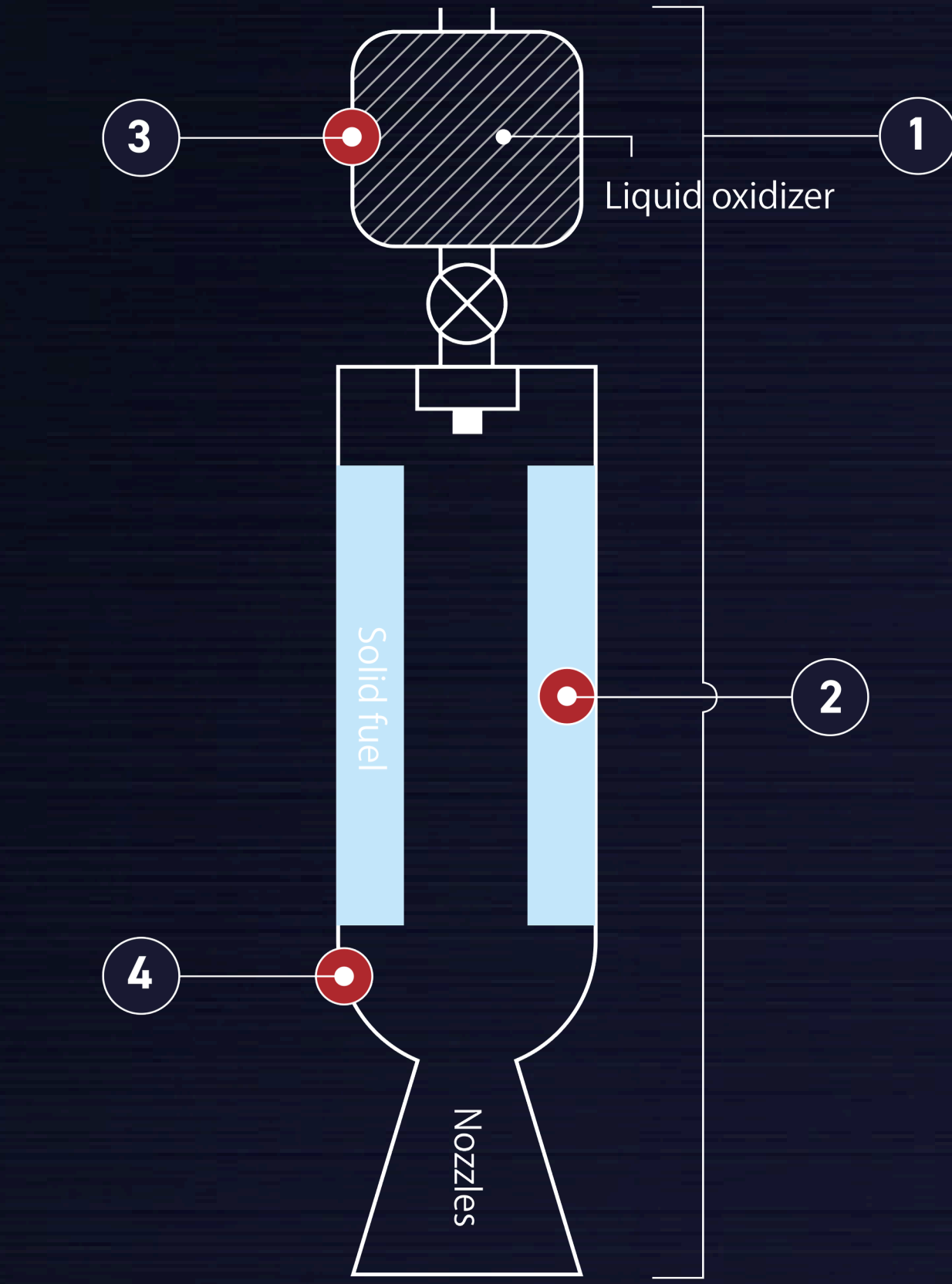


# Our revolutionary design is **safer** than traditional engines

Our hybrid engines use liquid oxygen and plastic, which are easy to handle and reduce the risk of explosion. Our weldless fuel tanks and simple design drive down costs for a more stable supply. We have also optimized the shape of our fuel blocks to achieve high thrust and long-lasting combustion.



Watch the combustion test in action



- 1 Safe and reliable hybrid combustion system
- 2 Fuel structure that enables high thrust
- 3 Inexpensive weldless tanks
- 4 Inexpensive weldless combustor