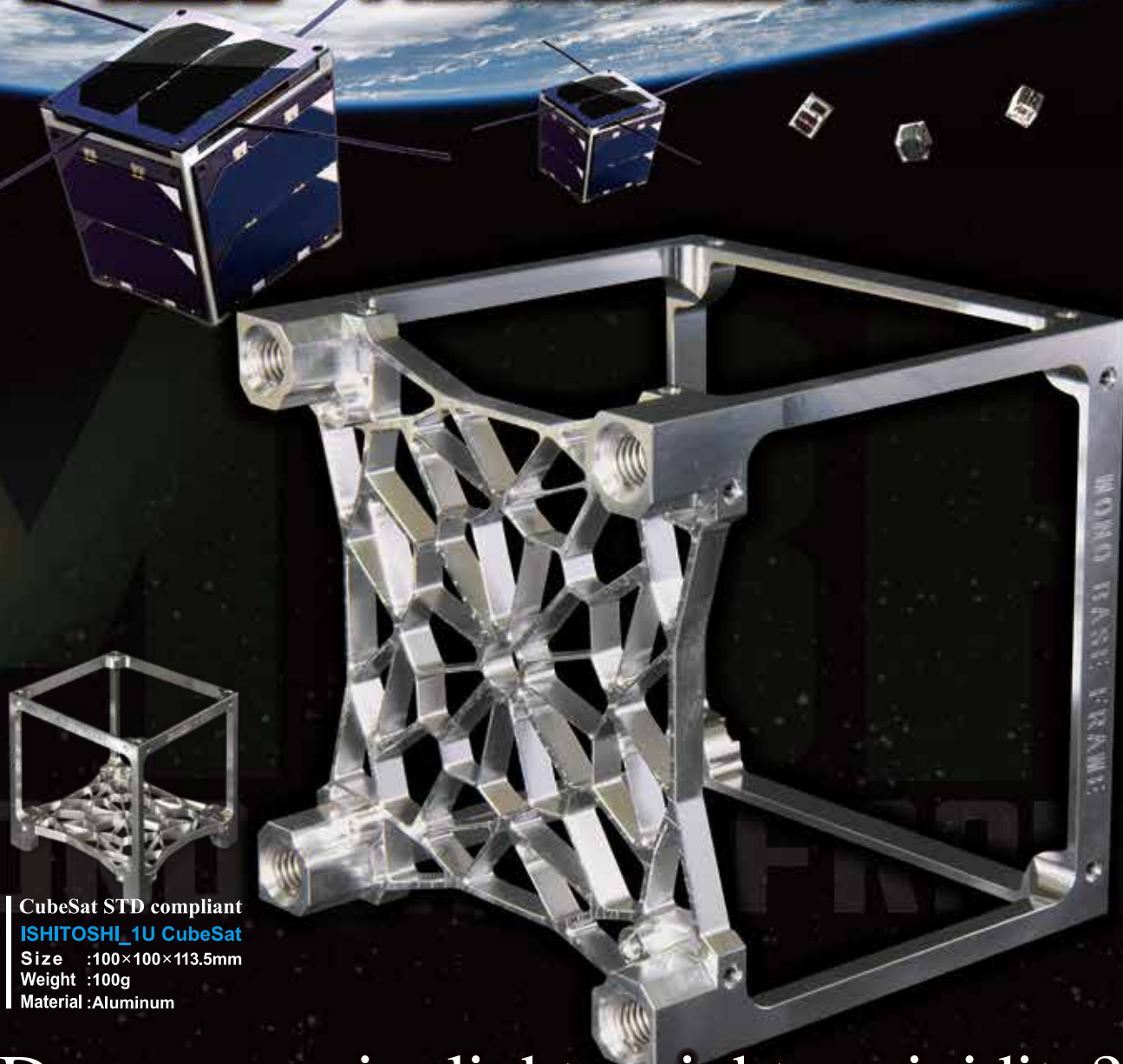


# NextGen CubeSat Frame

**Production type** one piece base frame for CubeSat

**MBF** One piece CubeSat frame machined from an aluminum block  
**MONO BASE FRAME**



CubeSat STD compliant  
**ISHITOSHI\_1U CubeSat**  
Size :100×100×113.5mm  
Weight :100g  
Material :Aluminum

Do you require light weight or rigidity?  
Machined **MBF** satisfies your requirements flexibly.

The maximum advantage of the machined one piece frame is the flexibility. It allows flexible design such as the highly rigid frame or the ultimately light weight frame, etc. In addition, the machined one piece frame which does not have joints provides less components, simple and reliable design of the CubeSat. Ishitoshi with its excellent technology can accept any customization requirements from design to the specifications .



**ISHITOSHI**

Company meeting your expectations



CubeSat STD compliant

# MBF MONO BASE FRAME

ISHITOSHI\_1U CubeSat

Size :100×100×113.5mm

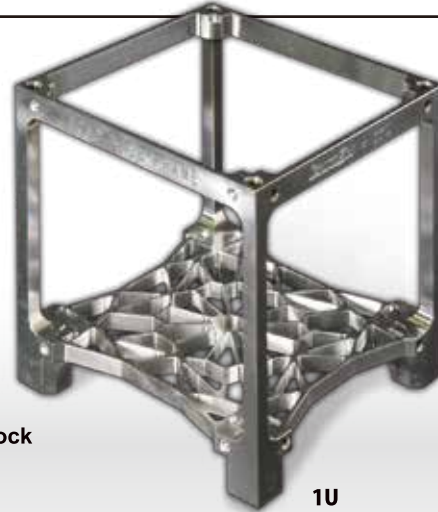
Weight :100g

Material :Aluminum

Method :One piece by machining an aluminum block

Ishitoshi's original design

1U~3U available



1U



3U



1. Mono Base Frame design  
We design MBF per usages or specs



2. Aluminum Block material  
We use high quality aluminum



3. Machining by the experts  
precision processes require experience & knowledge



4. Machining by 5-axis MC  
1U MBF is completed in 24 hrs.

**Production type** one piece base frame for CubeSat



**One piece CubeSat frame machined from an aluminum block**

# MONO BASE FRAME

**MBF can be used as the base of everything.**

**M**ONO BASE FRAME [MBF] is the CubeSat frame originally developed by Ishitoshi Machining Inc.. As [MBF] has the one piece structure by machining an aluminum block, CubeSat can have fewer components, simpler structure and shorter assembly time when compared to the conventional separate type base frames. In addition, troubles due to the thermal conduction which could occur by the difference of materials or connected portions never happen. Furthermore, the maximum benefit of [MBF] is the flexibility to customize its rigidity, weight and shape freely. The requests such as "Light weight even with less rigidity" or "Strength even though it's heavier" can be satisfied easily. Ishitoshi Machining Inc. has the design department knowledgeable about aluminum and precision machining, and materializes the mass production of the products with CubeSat Standard compliant design, low cost and stable quality.

**Flexibility**  
Flexible in weight, rigidity and shape

**Production type**  
1~100ea. in consideration

**Versatility**  
New entry becomes easy

**Quality Stabilization**  
Easy assembly due to less components

## Machined Aluminum one piece block can be used for multipurpose.

● **CubeSat standard compliant CubeSat frame**

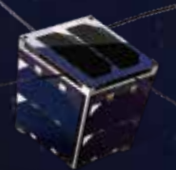
● **With flexibility of design Modular type is acceptable**

● **With its rigidity Production of POD for transportation and tests**

● **With the customized design One off is acceptable**

● **With the experience of expert precision machining Mass production with high quality**

We will accept prototype, co-development of the original frames and the development of the versatile structure products.



Company meeting your expectations

Please ask any questions regarding the CubeSat development, design, versatile structure products development.

Ishitoshi Machining Inc. 5-17, Sumamachi, Hekinanshi, Aichiken, 4470854, Japan

TEL. +81-566-41-1868 FAX. +81-566-41-1876

<http://www.ishitoshi.co.jp>