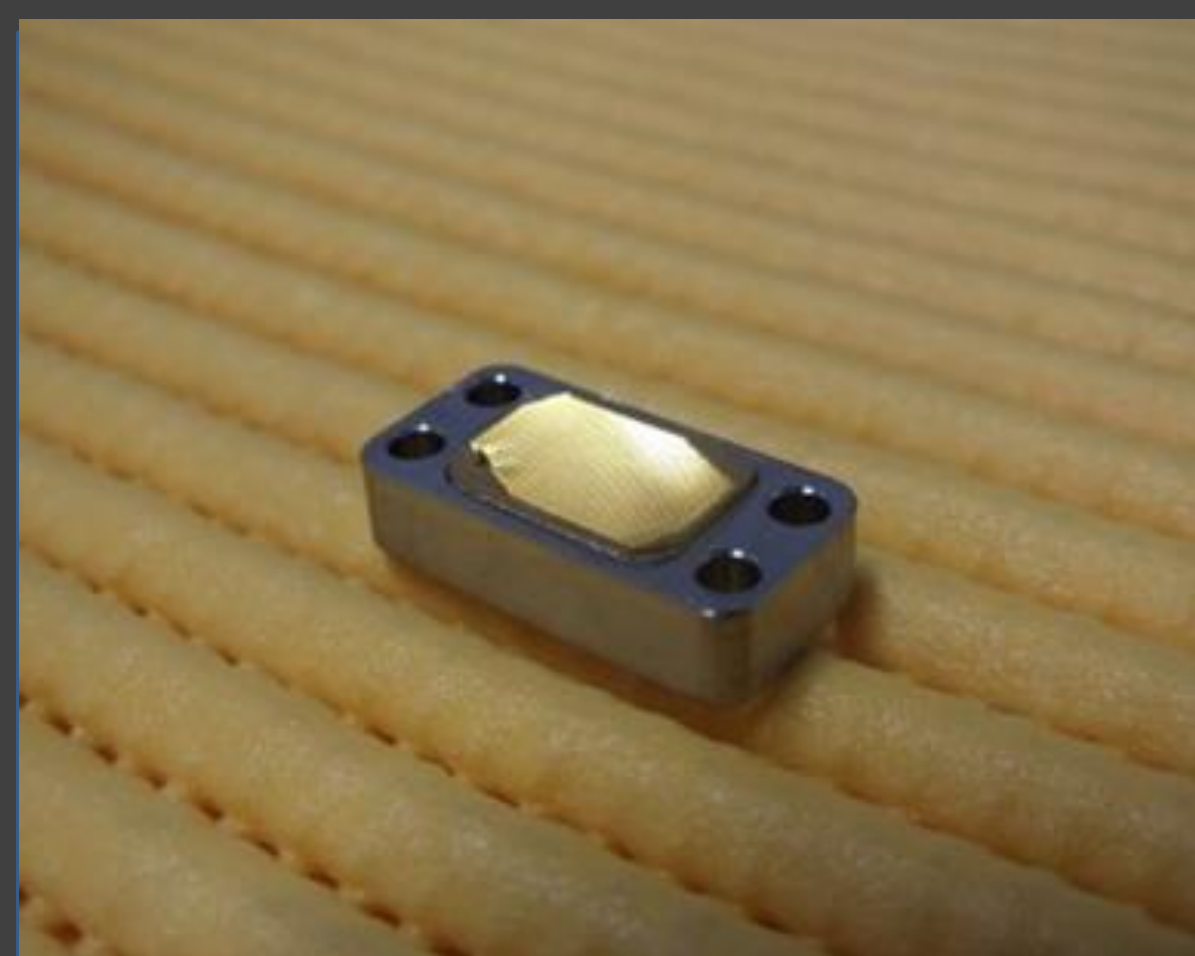


Retro-reflecting corner cube mirror

High reflective mirror for laser measurement

We are supplying retro-reflecting corner cube mirrors manufactured by using innovative ultra-precision machining technologies to monitor the structural integrity using laser measurement.

Comparison to products

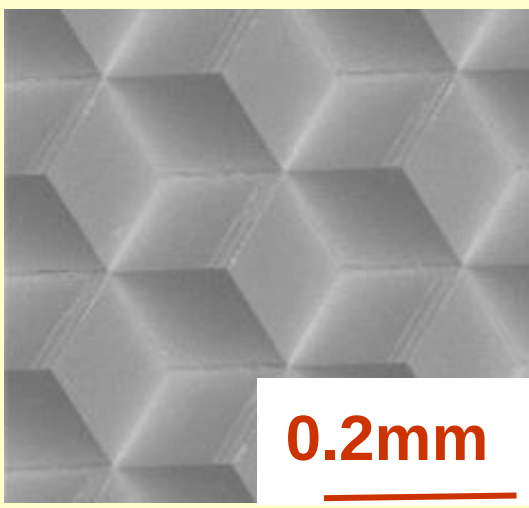
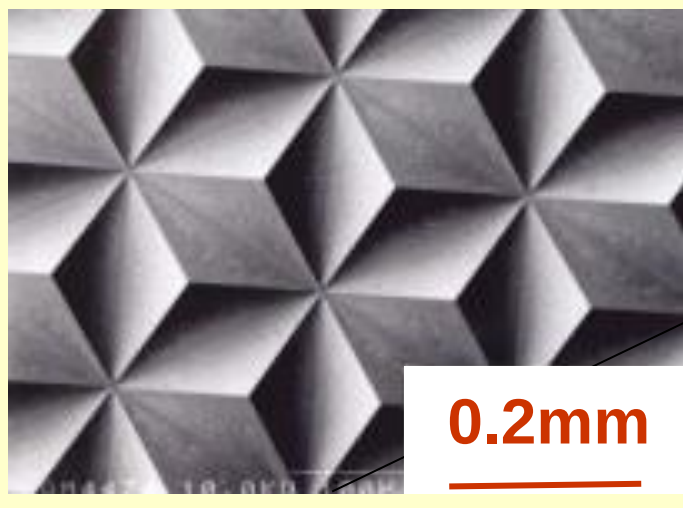
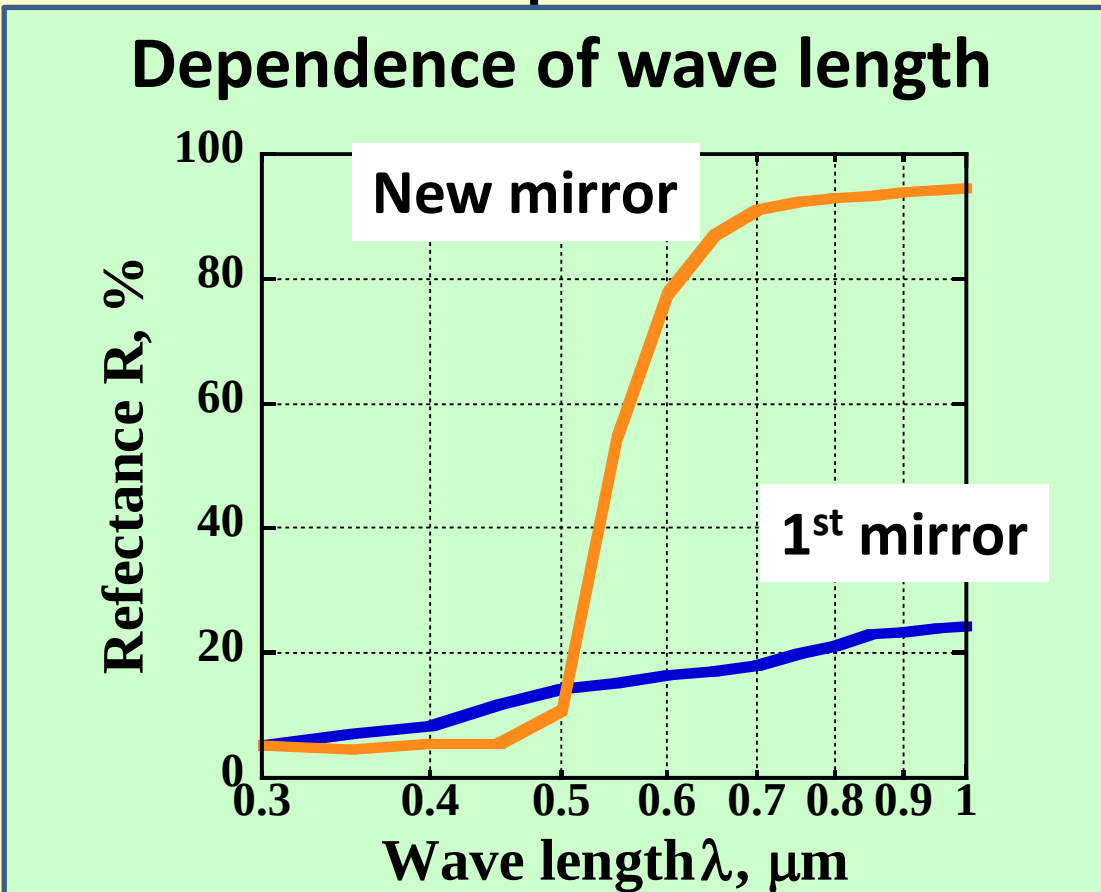


Machining accuracy

Length : $\pm 0.02\text{mm}$

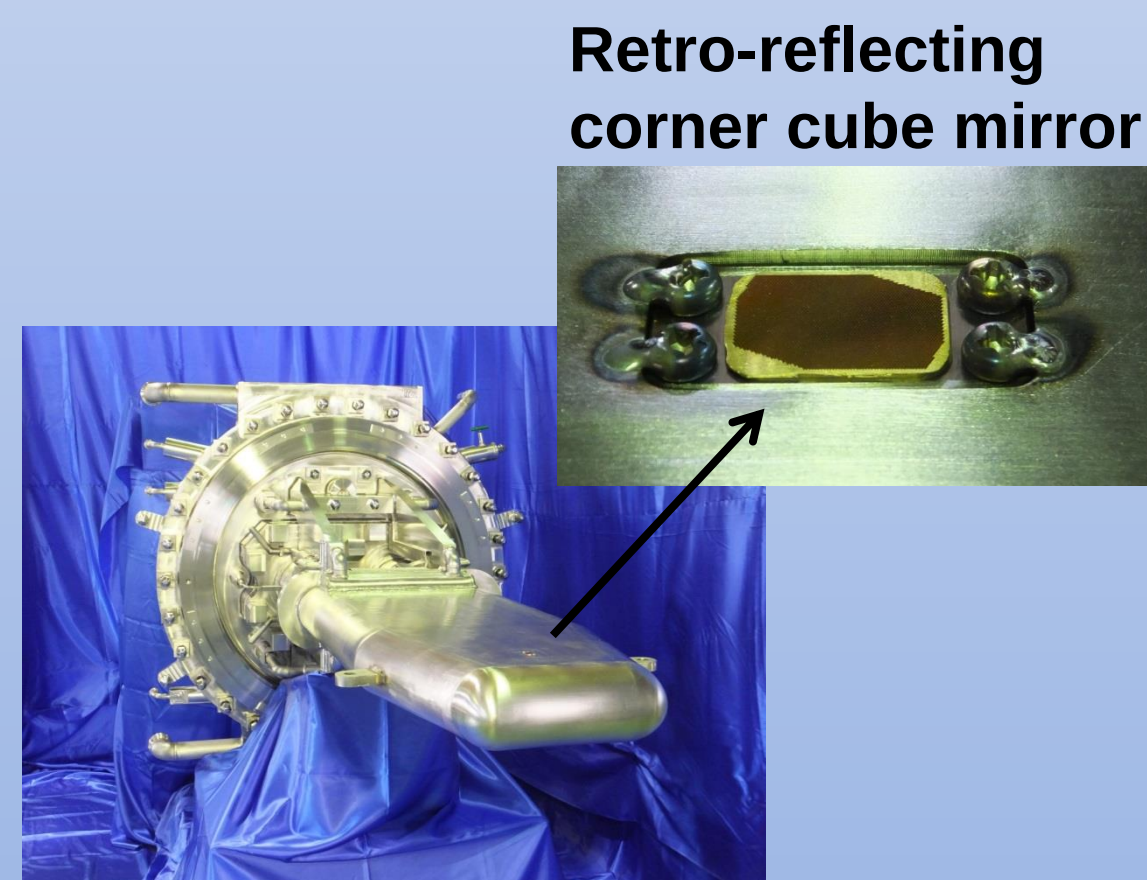
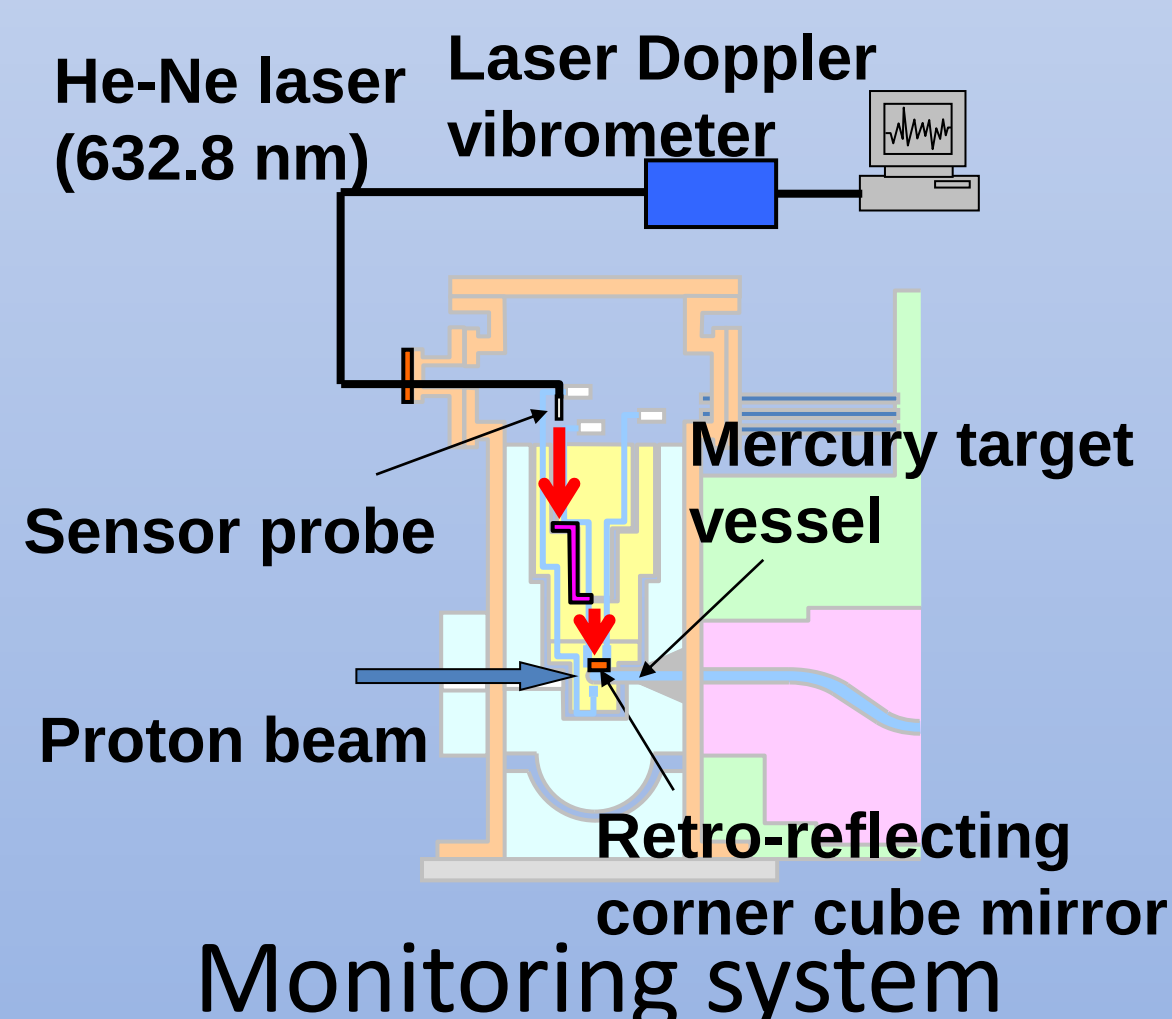
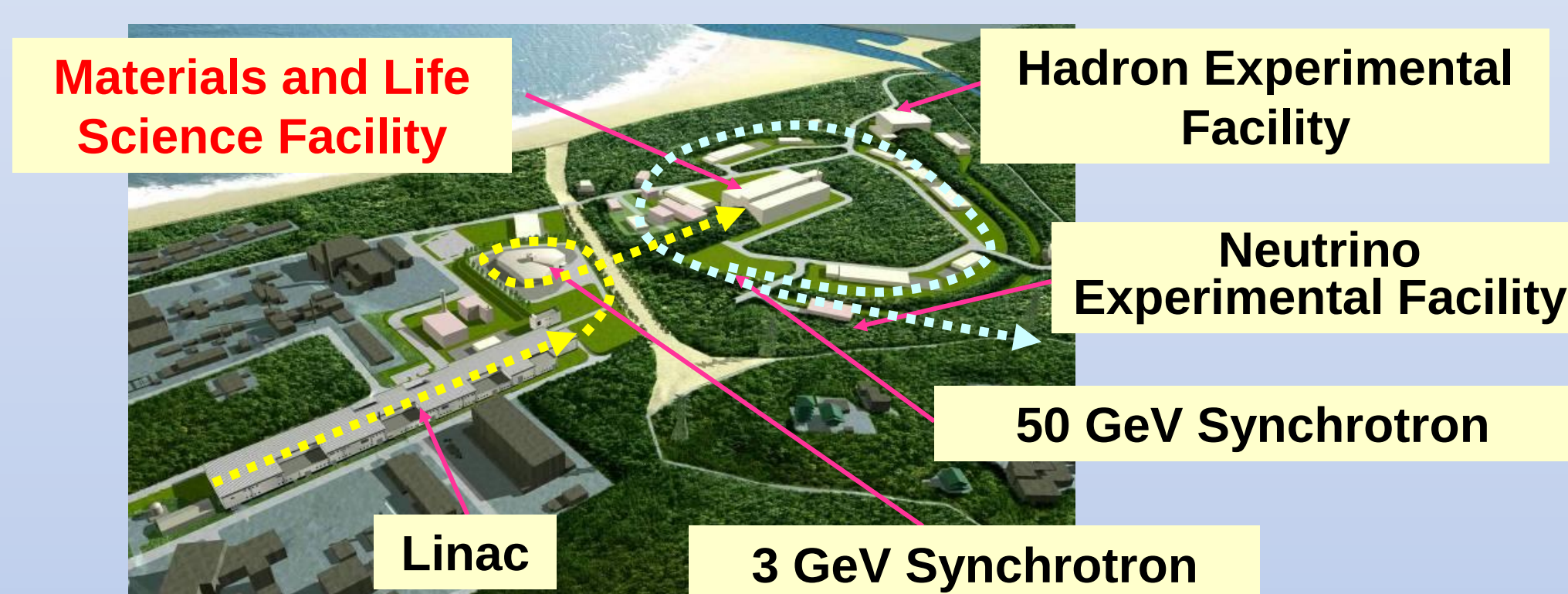
Angle : $\pm 0.01^\circ$

Roughness : Ra0.02

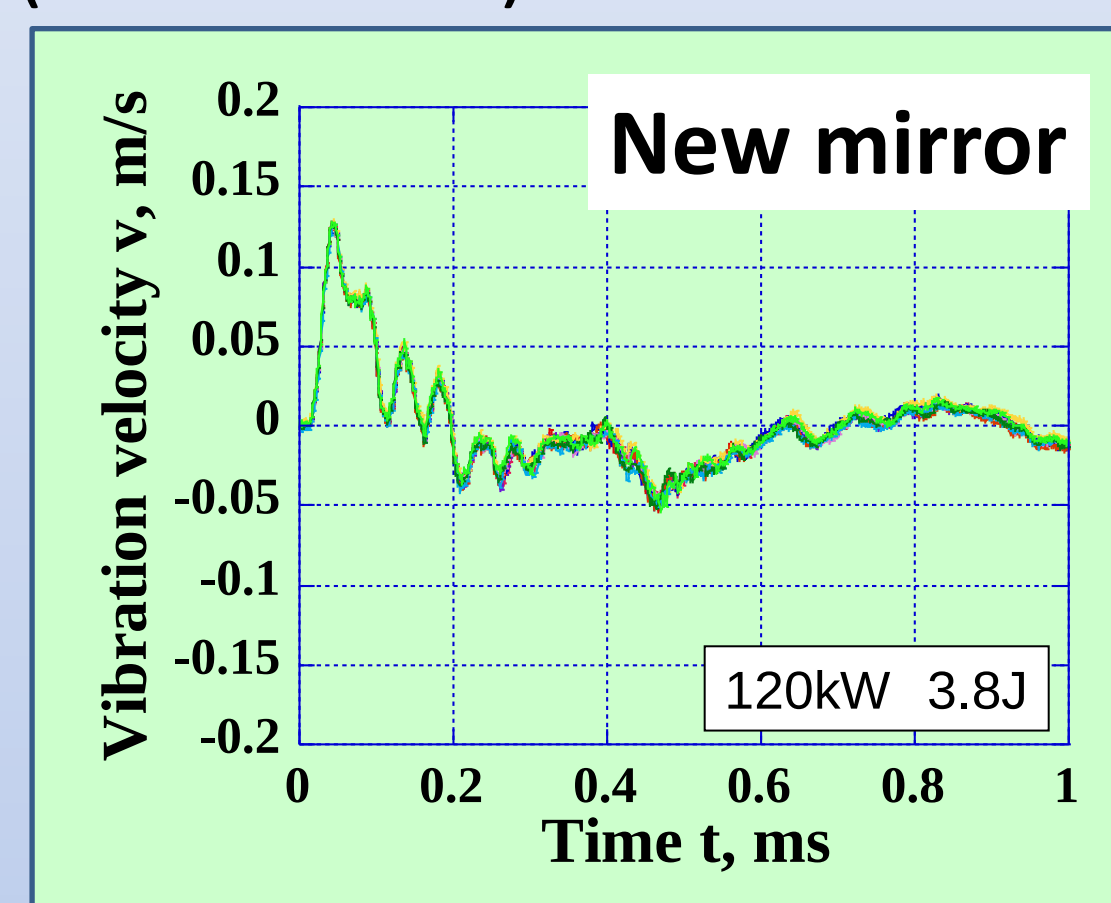
	New mirror	Mirror for 1 st mercury target
Fabrication	Direct machining (ultra-precision machining technology)	electroforming
Element shape	Square 	Triangle 
Material	Gold	Nickel
Reflectance	56 % 	Dependence of wave length  16 % 

Application

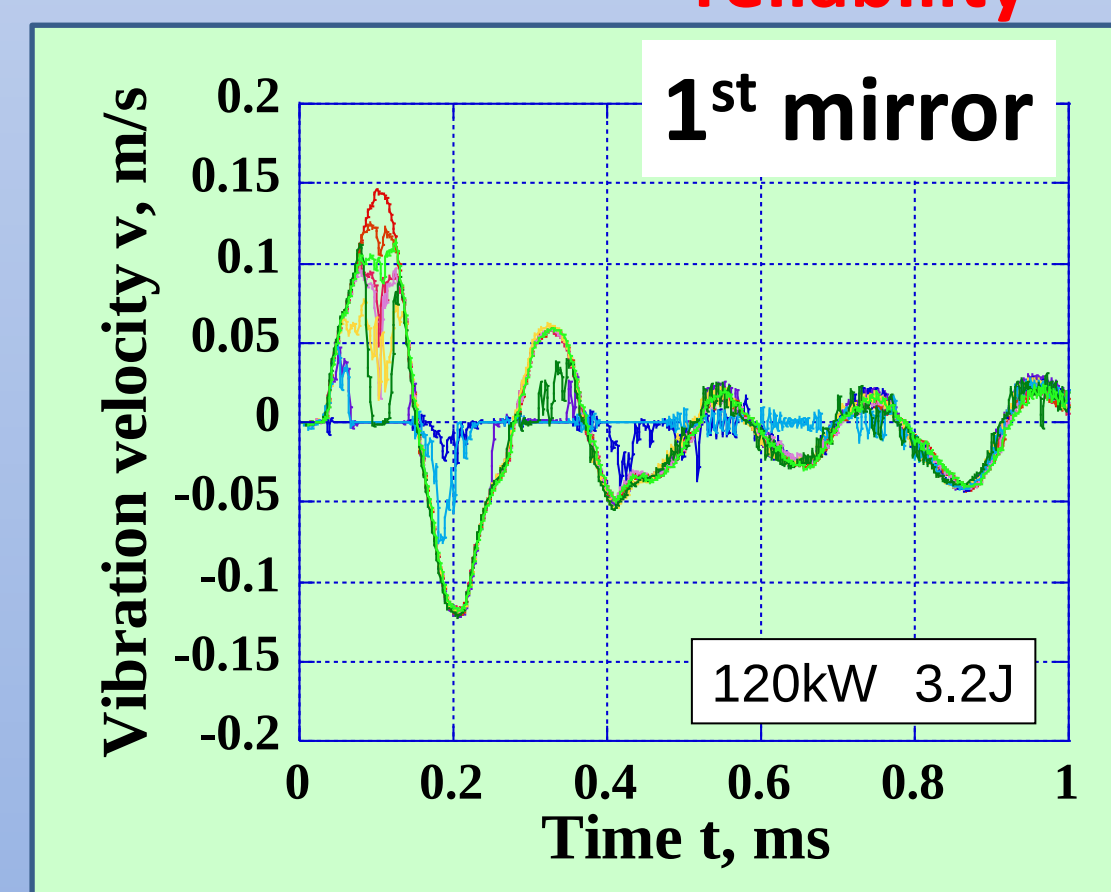
Retro-reflecting corner cube mirrors with higher reflectance than the 50 % (He-Ne laser) were installed on the mercury target vessel in J-PARC.



Mercury target vessel



↑ improvement of reliability



SUGA ZOUKEI KOUGYO .inc

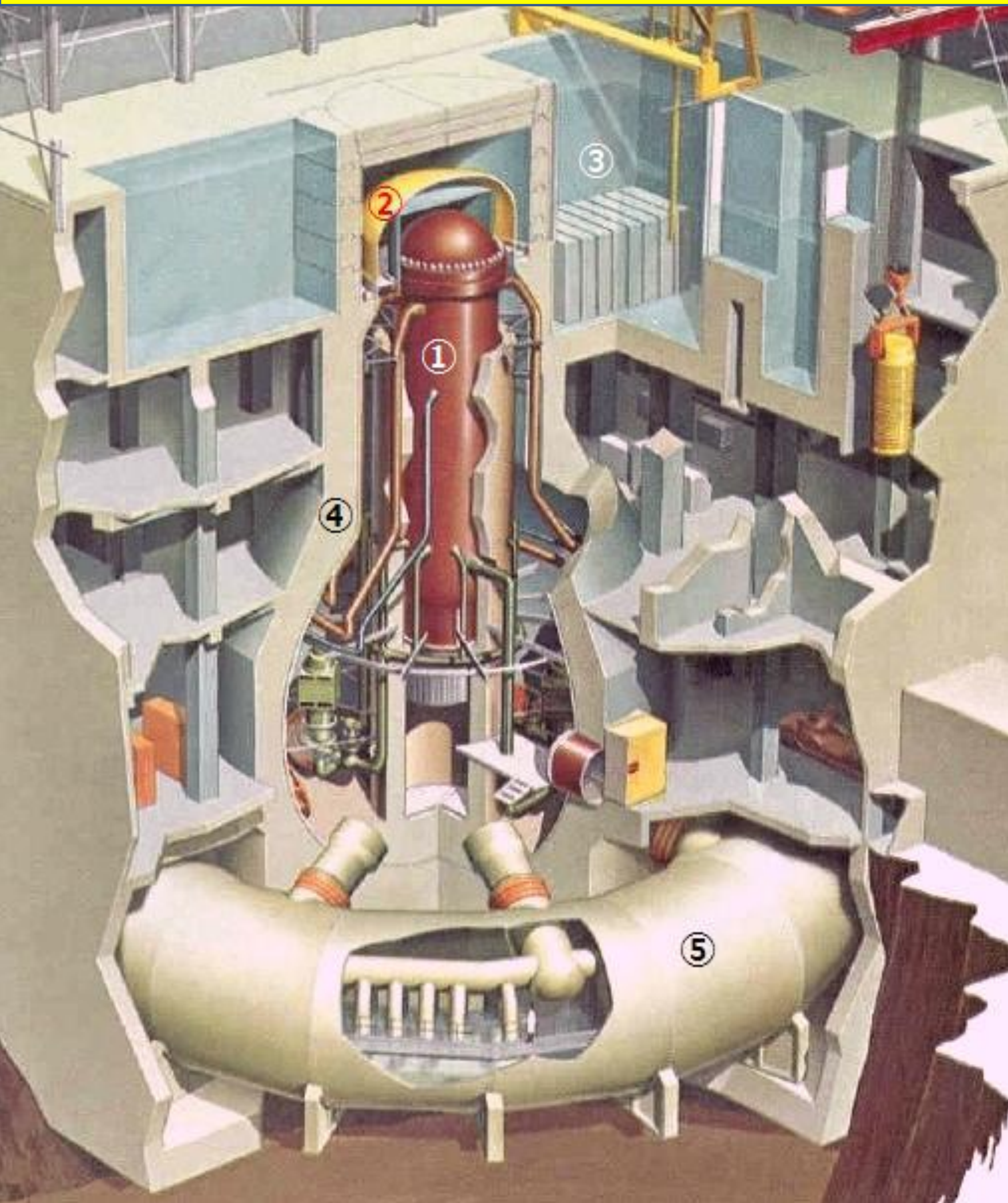
Of ultra-precision machining

Address : Shizuoka, Japan Fujieda daito-cho448-1

Phone : +81-54-635-0885

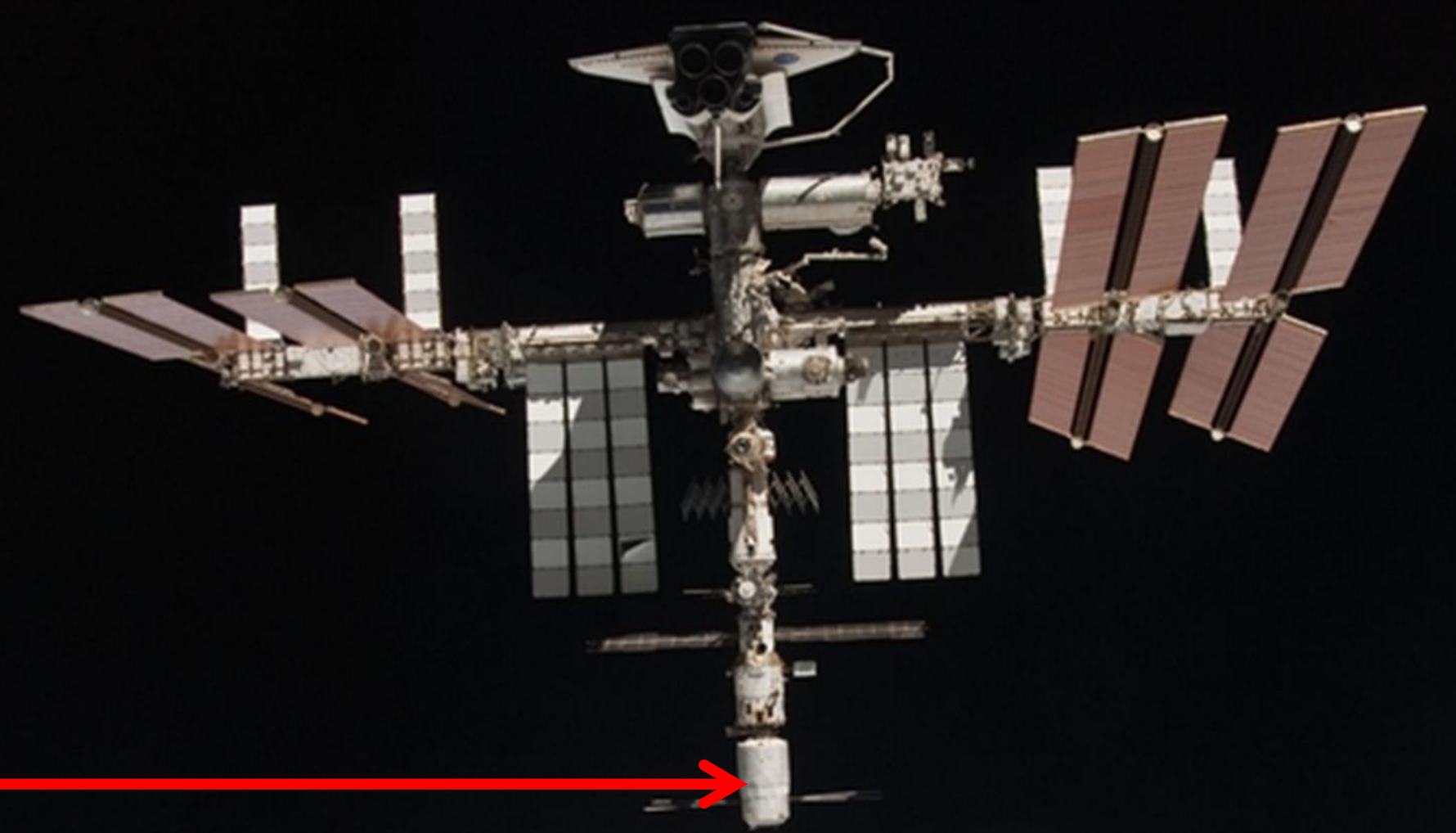
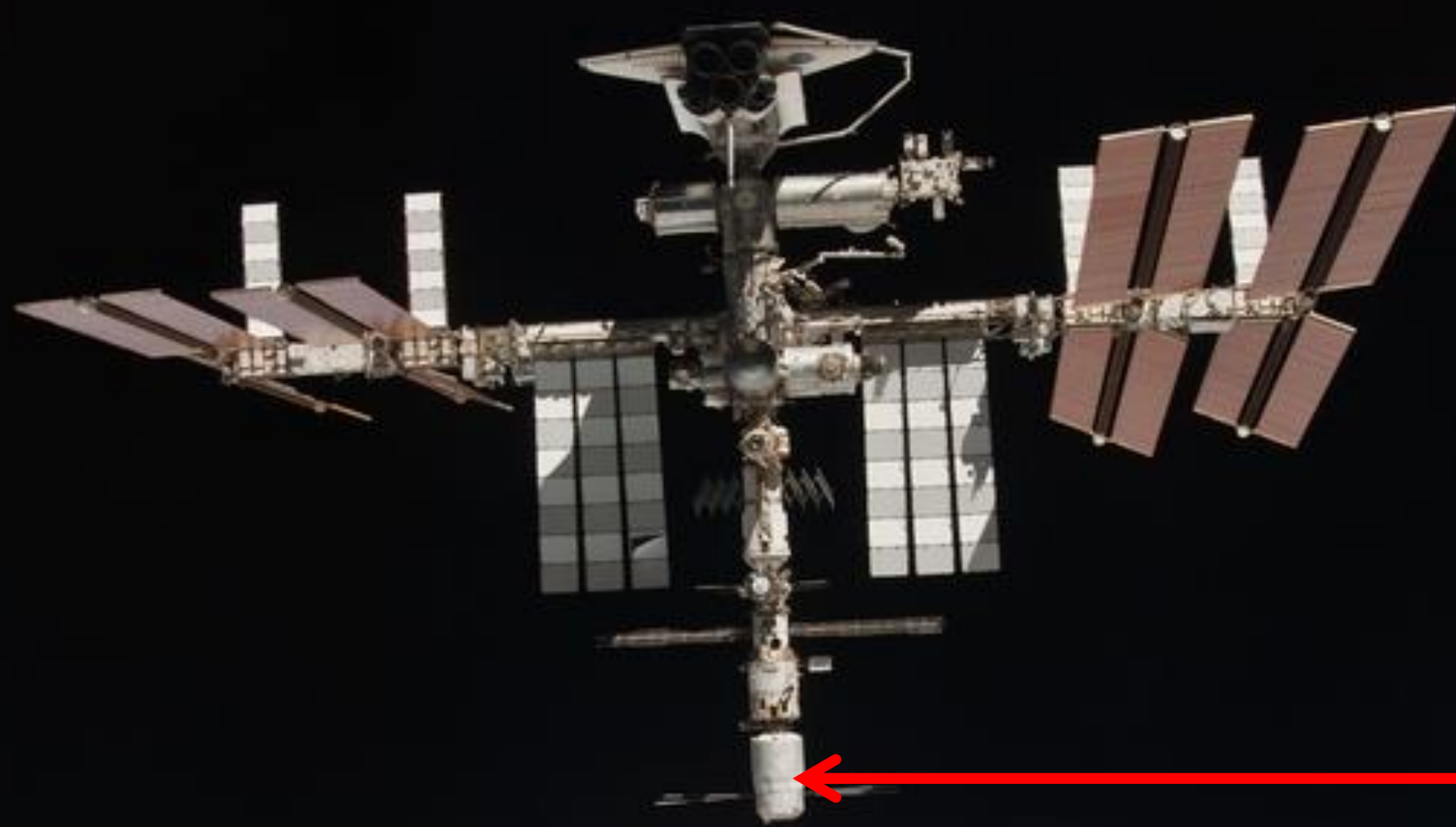
e-mail : don-m@hw.tnc.ne.jp

Retroreflective mirror excellent versus radiation Radiation resistance and corrosion Resistance can not be monitored in the resin mirror, High temperature, How to use in extreme environments, such as the following High pressure, corrosive environment also has been studied.



It is also available in the monitoring
Of nuclear power plants important
Places from ⑤①.

- ①Reactor pressure vesser
- ②The head of the reactor
Containment vesser
- ③spent fuel storage pool
- ④concrete structure
- ⑤Pressure suppression
Chamber



Etc, to capture the distance of the space station to aircraft

SUGA ZOUKEI KOUGYO .inc

Of ultra-precision machining

Address : Shizuoka, japan fujieda daito-cho448-1

Phone : +81-54-635-0885

e-mail : don-m@hw.tnc.ne.jp