

**Picosecond Laser Processing Machine Introduced**

**1. Newly introduced picosecond laser machine**

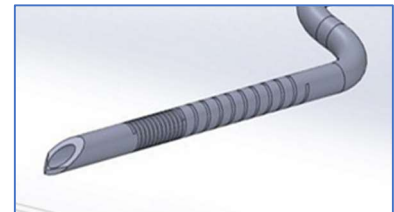
Cutting-edge catheterization increasingly requires “highly functional biopsy needles” using a long thin tube processed with advanced and delicate machining. For producing this kind of devices, we have newly installed the latest model of a **picosecond laser processing machine** (photo on the right). Along with our existing femtosecond laser machines and fiber laser machines, FUTA-Q will meet a wide range of our clients’ needs by giving new values to their products.



**2. Features of the picosecond laser processing machine**

- 1) Minimum heat energy is given to the material in processing with ultrashort pulse laser, resulting in no damages to the material property, less dross or molten material left, and precision processing.
- 2) Lengthy materials can be processed continuously.

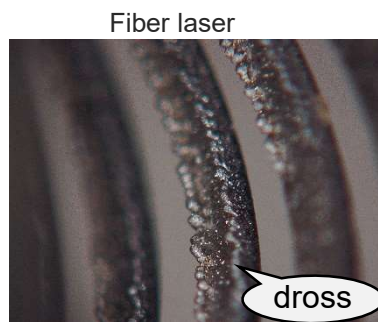
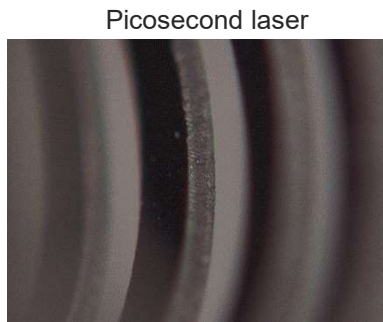
Highly functional flexible biopsy



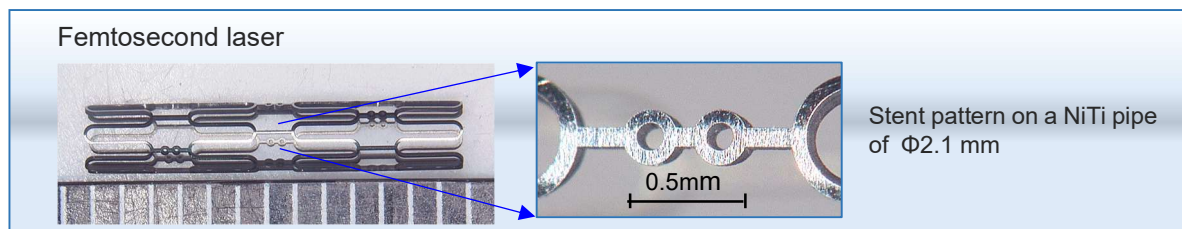
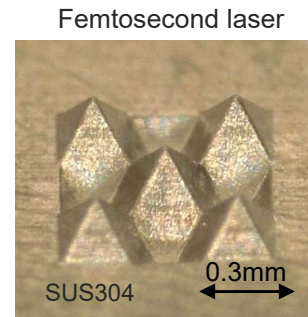
Various cuttings are available including slit pattern or texture pattern cutting.

	Employed laser	Fine processing	Heat affecting	Lengthy material	Productivity
Existing one	femtosecond	Excellent	Excellent	Fair	Fair
New one	picosecond	Excellent	Good	Excellent	Good
Existing one	fiber	Fair	Fair	Excellent	Excellent

**3. Processed examples of ultra-short wavelength laser**



on SUS304 with  $\Phi 3.9 \times 3.7\text{mm}$  and  $t 0.1\text{mm}$



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