

Laser Processing Technology for Small Pipes

1. Laser processing technology

Laser processing for small pipes is one of our advanced technologies, in which the process can give the small pipe exceptional properties by cutting in special-designed shape. This technology has been applied to various products such as medical equipment.

2. Specification of Laser process machine

The FUTA-Q'S laser processing machines have the specialized specification for pipe cutting. During the processing, the assist gas is injected on to the work's surface.

Material: stainless steels,
titanium alloys, NiTi, etc.
Material diameter: 0.35 mm – 15 mm
Material thickness: 0.05 mm – 1.0 mm
Material length: 1.8 m at longest
Precision: ± 0.02 mm

Numbers above are just rough indexes of the performance. Please contact us for detail for your requests.

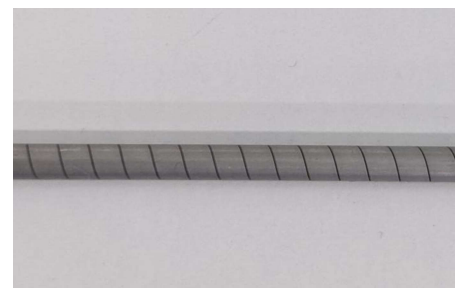
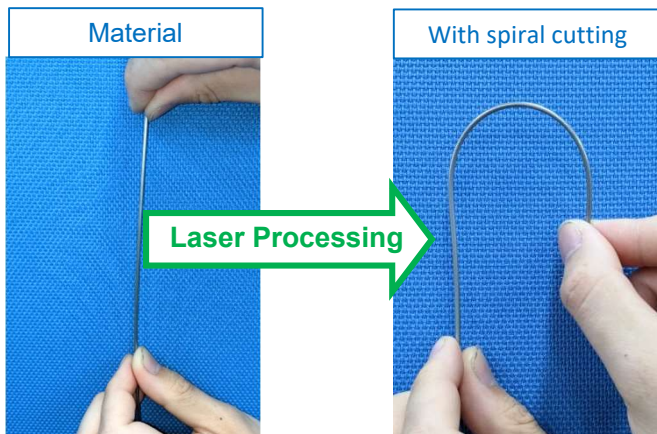
Cutting with a complex shape or design is available, for example Maiko's shape in the photo on upper right.



Processed sample cut into
Maiko's shape
(14 mm OD × 13 mm ID)

3. Value-added pipe by laser cutting with special design

Laser cutting in spiral line on a small pipe makes the pipe pliable and flexible. Cutting a pattern or pitches designed for a special purpose can give the pipe an arbitrary flexibility at any position.



Product sample with simple spiral cutting
(Cutting with more complex shape is available.)

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