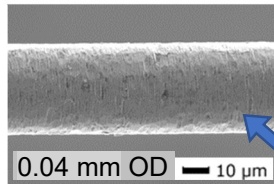


## Production of Long-taper Small Wires

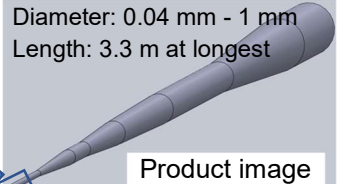
### 1. Long-taper small wires

The right images show a product sample of a long-taper small wire used as a core wire of medical equipment such as a catheter and a guide wire. For manufacturing this kinds of wires, FUTA-Q has set up the dedicated production line equipped with straightening machines, heat treatment furnaces, centerless grinders, and self-developed inspection tools.

SEM image of wire tip

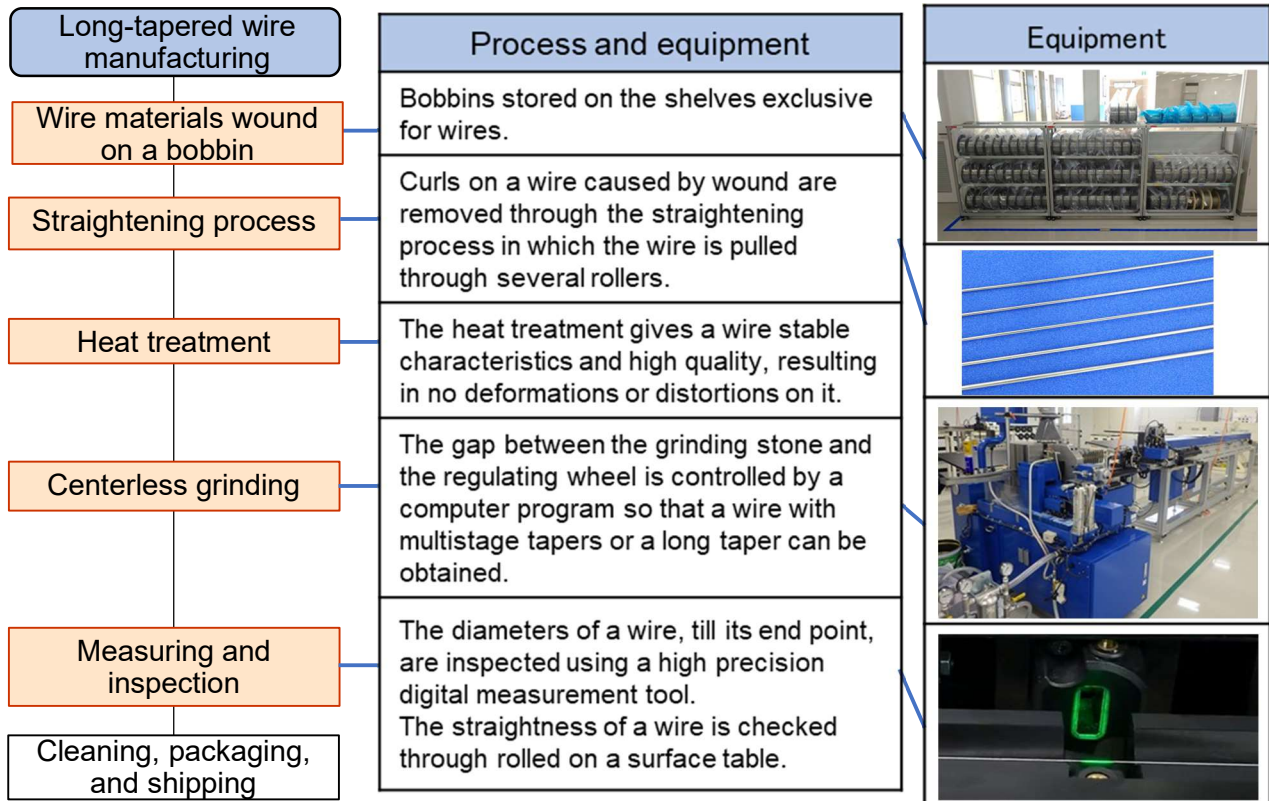


Diameter: 0.04 mm - 1 mm  
Length: 3.3 m at longest



Product image

### 2. Manufacturing processes



### 3. Specification of the centerless grinder

The processing method is under development for making long-taper wires using other materials than stainless steel, including special alloys.

Material	Stainless steels(SUS304V etc.), NiTi(developing), β-titanium, Co alloy
Wire diameter	0.24 mm - 1.0 mm
Finished diameter	0.04 mm to a material diameter ± 4 μm
Maximum grinding length	750 mm
Available grinding pattern	Multistage long tapers by computer controlling
Maximum product length	Grinding length + 1.0 mm to 3.3 m (including ground length)

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