

Nozzle Manufacturing Process

1. Nozzle manufacturing in FUTA-Q

FUTA-Q is producing nozzles thoroughly from pipe making to delivery inspection including laser processing and assembly. The suction nozzle on the photo below needs twelve processes to be produced. Some pieces of equipment including inner-surface polishing machines have been designed and fabricated by the R&D department in our Kyoto Plant (orange shaded processes in the process chart below).

2. Sample product

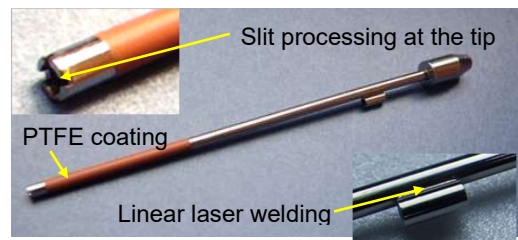
Material: SUS306L (high corrosion resistance)

Applications: Aspiration nozzle for analysis equip.

The slits at the tip enable the nozzle to suck a liquid at the bottom.

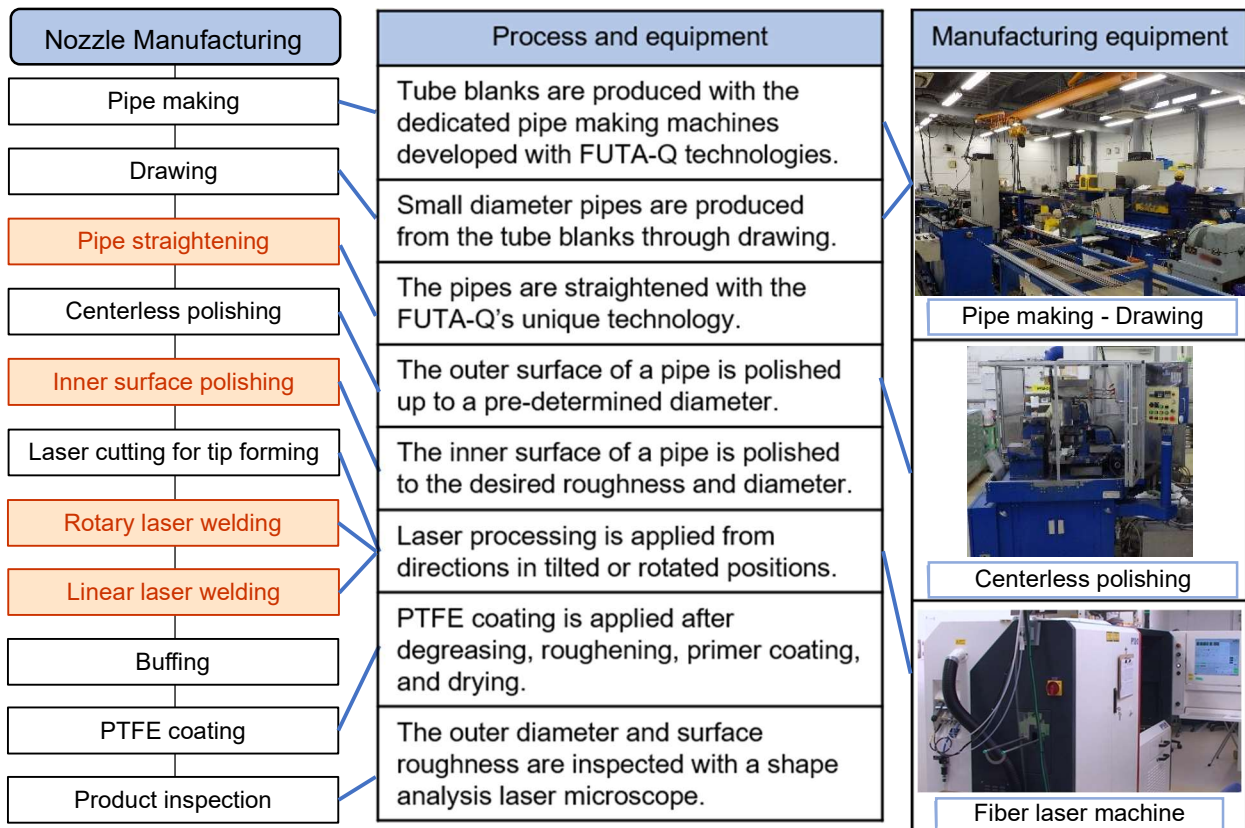
Features: A needle is welded with a holder by laser, and coated with PTFE (fluorine coating).

Size: 1.6 mm in OD, 1.2 mm in ID, and 66 mm long



3. Manufacturing process for nozzle

Vacuum heat treatment, FC180 thin fluorine coating, and non-destructive inner surface inspection are also available as an optional process.



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