

Nozzle products (from pipe-making to laser processing and assembly)

Our strengths include consistent air flow from pipe building to laser processing, assembly and product inspection. Nozzle production is possible. Pipe bore polishing Machines and other processing equipment are designed and manufactured by the Kyoto Plant Development Section. (orange facility)



■ Machining example of nozzle products

- Material: SUS316L (High corrosion resistance)
- Application: Reagent suction nozzle of the analyzer
- Features: Laser welding of nozzle and holder

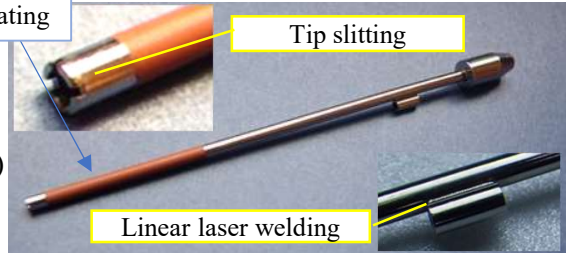
Improved water repellency by PTFE coating (fluoropolymer)

- Size: Outer diameter Φ 1.6mm, inner diameter Φ 1.2, overall length 66mm

PTFE coating

Tip slitting

Linear laser welding



■ Nozzle Product Assembly Process

Nozzle assembly process	processes and equipment	Photographs of processing equipment
Pipe processing	Manufacture raw pipes with precision pipe-making technology not found in other companies	 Pipe processing to drawing
Drawing	We will process into small-diameter sizes.	
Pipe linearization	Straighten pipes with our proprietary technology.	 Centerless grinder
Centerless polishing	Adjust the outside diameter of the pipe.	
Pipe bore polishing	For surface roughness and dimensions by polishing the inner surface of the pipe. Perform the adjustment.	
Advanced laser processing and cutting	By tilting and rotating the nozzle Laser processing is various performed an angle.	 Fiber laser beam machine
Rotating laser welding	Such as degreasing, roughening, undercoating, and drying, After the process, PTEF coating is performed.	
Linear laser welding	Product by shape analysis laser microscope	
Buffing	Examine the outer diameter and nozzle surface roughness	
PTFE coating		
Lot product inspection		

In addition, the assembly process includes vacuum heat treatment furnaces, FC180 thin-film fluororesin coating, and non-destructive internal surface measuring equipment (Arasamail). We can also handle mass production of nozzle products, so please feel free to consult us.

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