

FUTA-Q's Technologies (1/3)

4M+S=29

➤ Precision Machining

- Gun-drilling
- Small and deep hole drilling
- Small oblique hole drilling
- Finishing processing (for metal-sealing etc.)
- Micromachining
- Simultaneous multiple-spindle machining
- Both end processing in one machine
- Wire-cut electro-discharging machining

➤ Machinable materials

- Stainless steels
- Titanium or Titanium alloys
- Cobalt alloys
- Nickel alloys
- Copper alloys
- PEEK
- Ceramics
- Platinum or platinum alloys

FUTA-Q's Technologies (2/3) $4M+S=29$

- **Small pipe making of special materials**
 - Stainless steel pipe
 - NiTi pipe
 - β -titanium alloy pipe
 - Cobalt alloy pipe
- **Different-diameter-pipe making**
 - Swaging
 - Drawing

- **Laser processing**
 - Micromachining on pipe
 - Micromachining with femtosecond laser machine
- **Laser welding**
 - Micro-welding
 - Welding of titanium or titanium alloys
 - Welding of platinum alloys

FUTA-Q's Technologies (3/3)

4M+S=29

➤ **Finishing for small pipe**

- Inner surface polishing
- Inner surface polishing for different-diameter-pipe
- Inner surface polishing for bent pipe
- Bending of small pipe
- Blade edging of needle tip

➤ **Coating**

- PTFE coating
- F2901, fluorine thin coating
- Titanium alloy hard coating (FreshGreen)

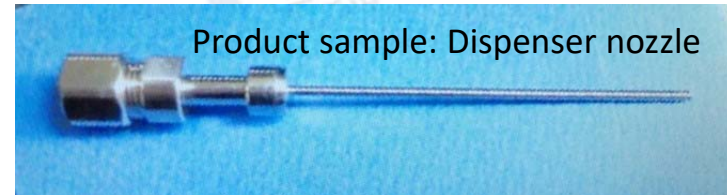
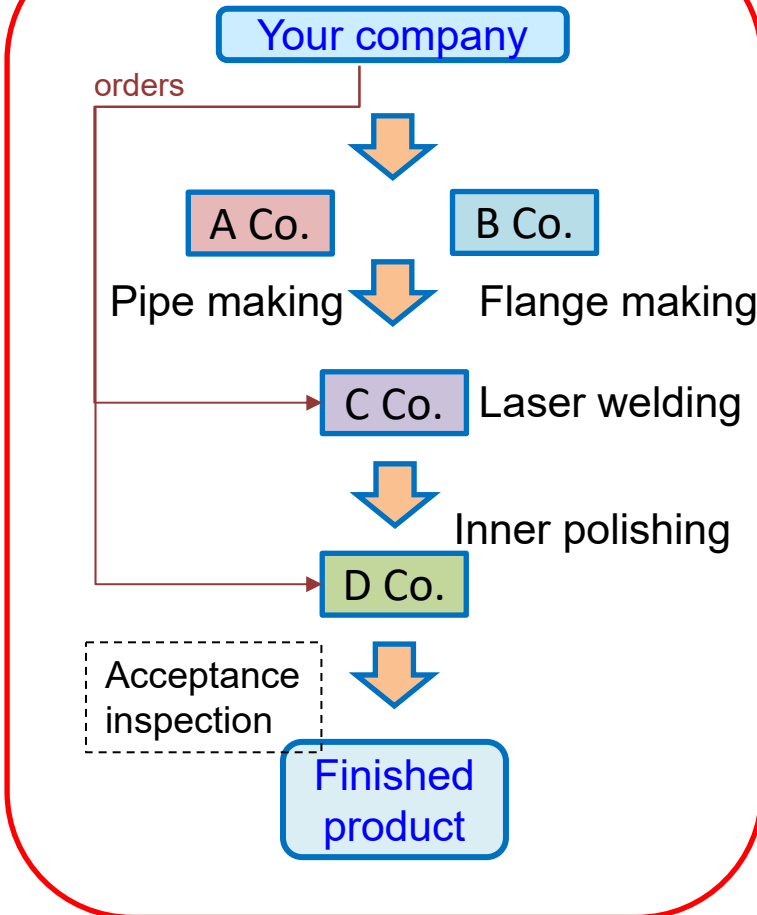
➤ **Assembly and optional process**

- Electropolishing
- Chemical polishing
- Soldering (including for stainless steel, NiTi)
- TIG welding
- Brazing
- Adhesion
- Assembly
- Heat treatment (aging treatment for β -titanium, shaping of NiTi)
- Inspection (leaking, surface roughness, tensile strength)

Integrated Manufacturing for Metal Processing

4M+S=29

Bothersome arrangements for processing and quality control



FUTA-Q offers one-stop service

