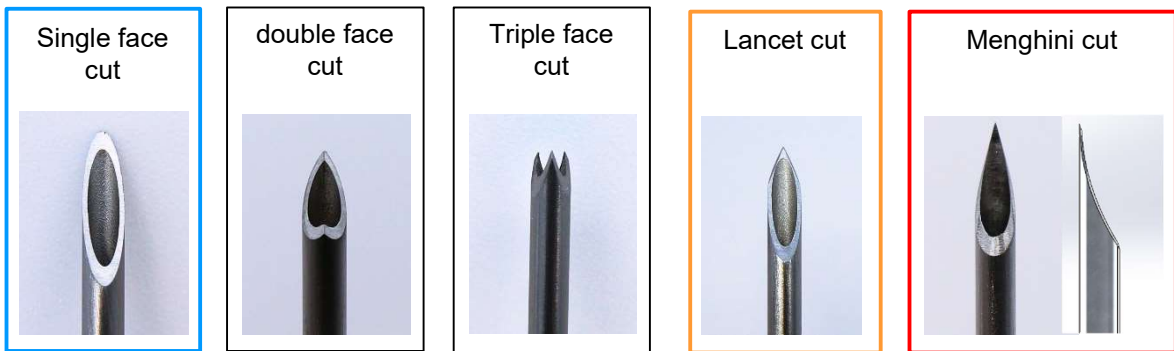


Needle Tip Forming in FUTA-Q (menghini shape, etc.)

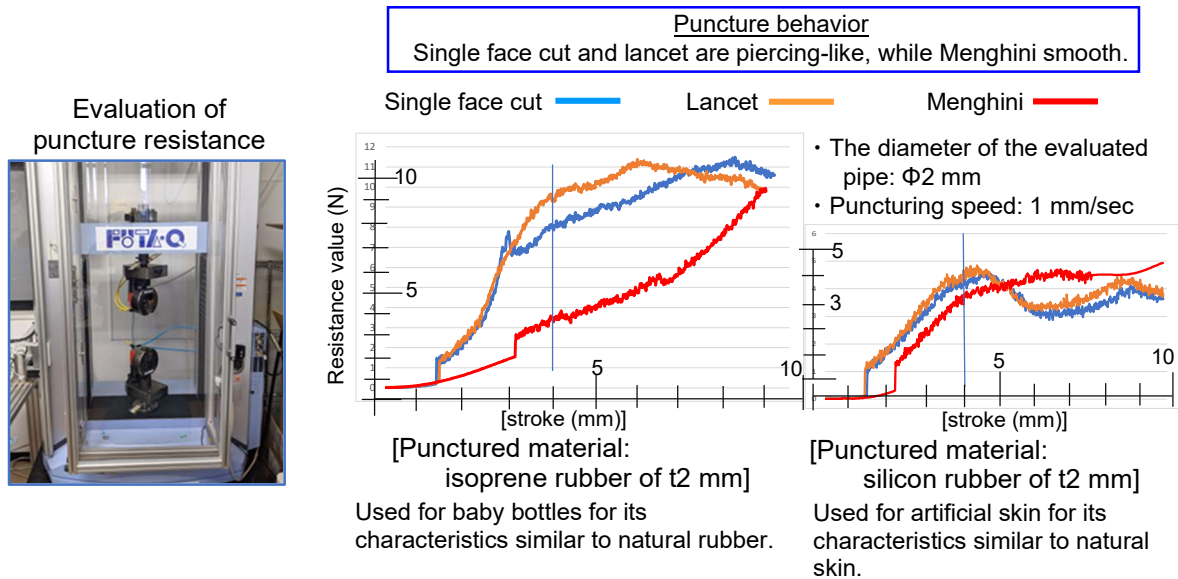
1. Needle tip forming in FUTA-Q

FUTA-Q processes various needle tip shapes for needles and nozzles used in medical and analytical instruments. In this issue, we introduce typical needle tip shapes such as “menghini shape” and examples of evaluation of the processed needle tip product.

2. Representative examples of needle tip shapes



3. Evaluation of the processed needle-tip



- The evaluation test of the puncture resistance can define “puncture behavior of the needle tip against the punctured material” and “deformation/rupture behavior of the punctured material”.
- At a stroke of 4 mm, the puncture resistance values of menghini cut represent 2.9 N and 3.4 N through isoprene rubber and silicone rubber respectively, which are less than those of a single-face cut, 7.3 N and 4.1 N, and lancet cut, 8.9 N and 4.3 N.

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