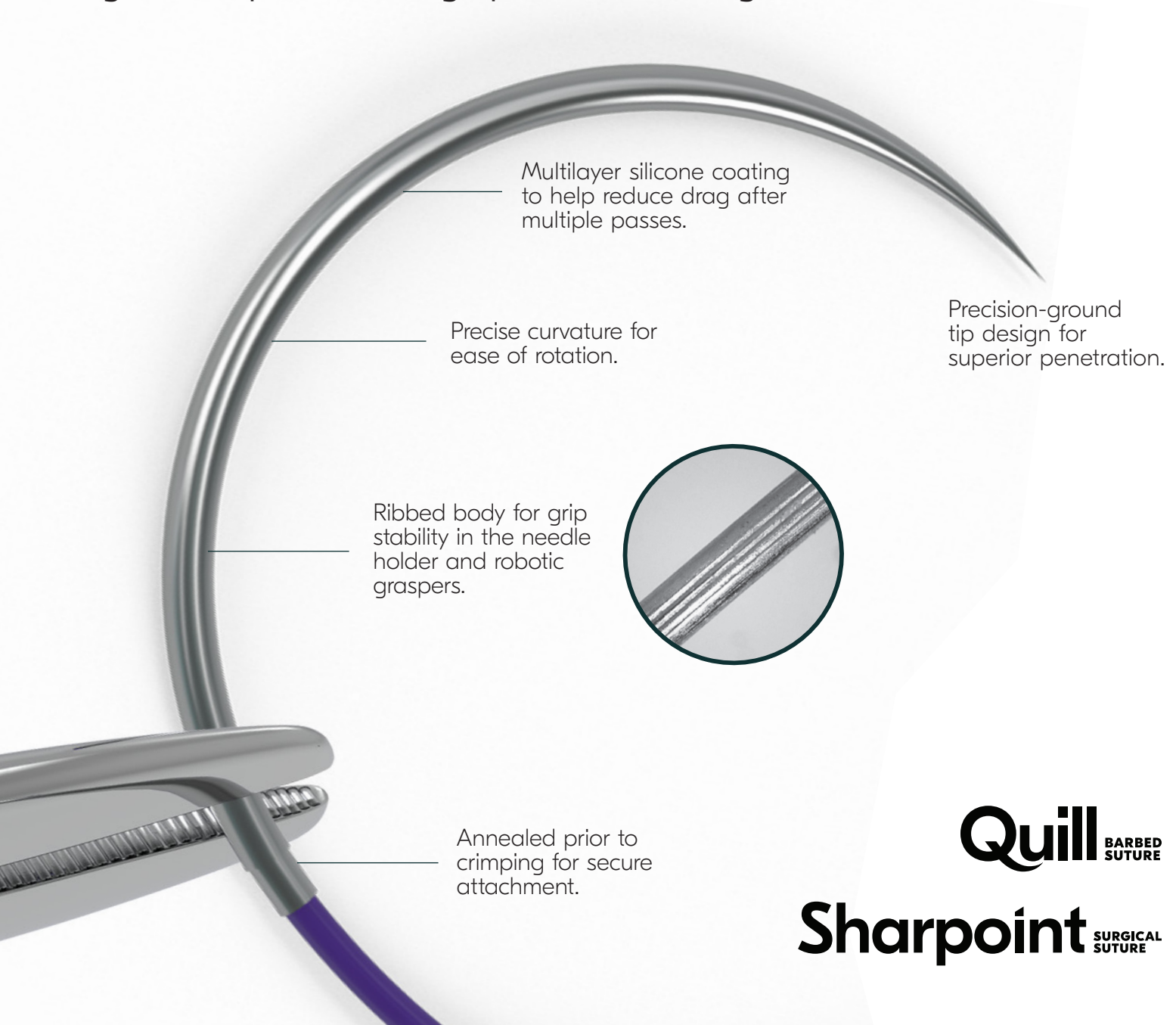


TAPER POINT NEEDLES

Right on point.

Innovative geometry, premium materials, and advanced coatings work together to produce a high-performance surgical instrument.



Multilayer silicone coating to help reduce drag after multiple passes.

Precise curvature for ease of rotation.

Precision-ground tip design for superior penetration.

Ribbed body for grip stability in the needle holder and robotic graspers.

Annealed prior to crimping for secure attachment.

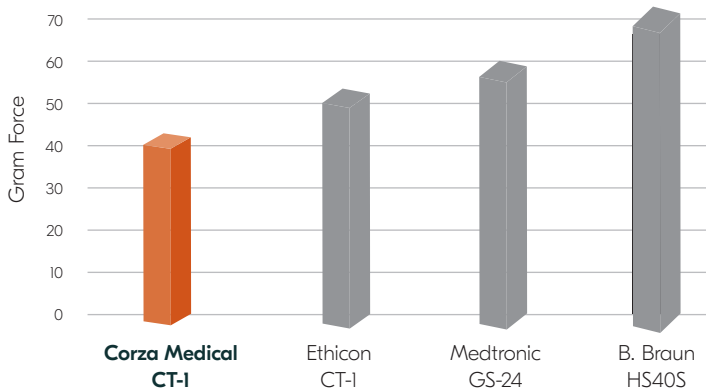
Quill BARBED SUTURE

SharpPoint SURGICAL SUTURE

And stays on point.

Consistent performance under demanding surgical conditions.

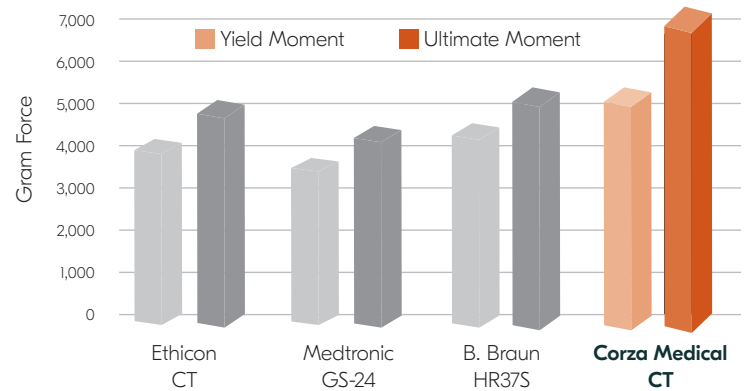
Sharpness through design.



PENETRATION TESTING OF TAPER POINT NEEDLES

Penetration testing quantifies the force required for a needle to pass through a medium multiple times. N=5, 5 passes per needle.

Strength through materials.

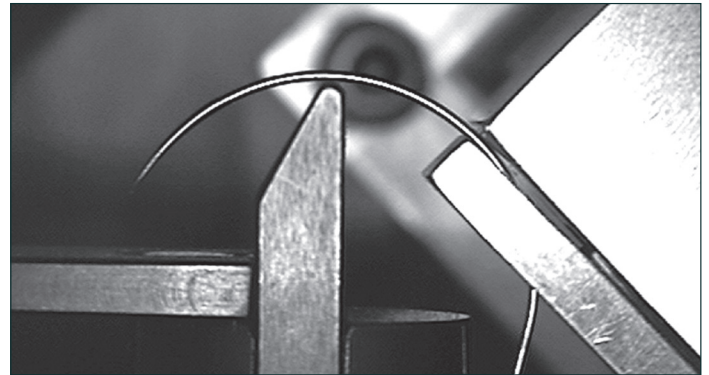


BEND TESTING OF TAPER POINT NEEDLES

Yield moment is immediately before the needle deforms. Ultimate moment is immediately before the needle breaks.



Penetration testing per ASTM International F3014-14 Standard.



Bend testing per ASTM International F1874-98 Standard.

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All testing performed by Acculine Engineering; an independent testing facility in Waterbury CT.