

# GEISTER

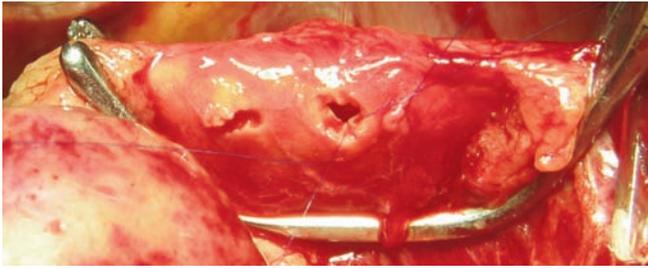
GEISTER®

The better way to operate™

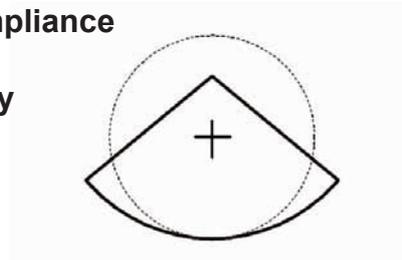
Time to think beyond  
the circle !

Triangular Vascular Punches





- + Improves flow and compliance
- + Prevents kinking
- + Supports better patency
- + Reusable



These unique vascular punches\* with their totally new, assymetric triangular blade design (patent pending), shaped like a ellipsoidal circular segment, have been specially designed for the anastomotic connection of vessels of different lumen sizes.

The special shape results from clinical pitfalls and fluid-technical considerations and optimizes the flow of blood while also preventing kinking by a better adaption of the conduits. Not only the flow behavior shows improvements due to the improved conditions in the passage area between the sutured blood vessels. It is also assumed, that the compliance of the connected conduits can be improved and better long-term patency rates can be achieved in vascular surgery operations through the flatter mount of the vascular graft on the target vessel, which improves the hemodynamic properties and avoids flow turbulences when the blood passes. It also can be found that the opening made with this new triangular punch (right side) stays open wider and larger than one made with a circular punch (left side) due the behaviour of the muscle fibers inside the vessels walls.

By turning the punch 180° and making a second cut, a rectangular opening can be created for attaching two conduits onto the same target vessel.

#### Order information:

Triangular Vascular Punch, assymetric ellipsoid blade

21-0630	3mm, 17cm
21-0631	4mm, 17cm
21-0632	5mm, 17cm
21-0633	6mm, 17cm



\*developed in cooperation with Mathias Aazami MD, Universitätsklinikum des Saarlandes, Homburg/ Saar, Germany



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Geister Medizintechnik GmbH  
Föhrenstrasse 2  
D-78532 Tuttlingen/Germany  
Phone +49 (0) 7461 – 966 240  
Telefax +49 (0) 7461 – 966 2422  
E-mail [info@geister.com](mailto:info@geister.com)  
Internet [www.geister.com](http://www.geister.com)

Distributor