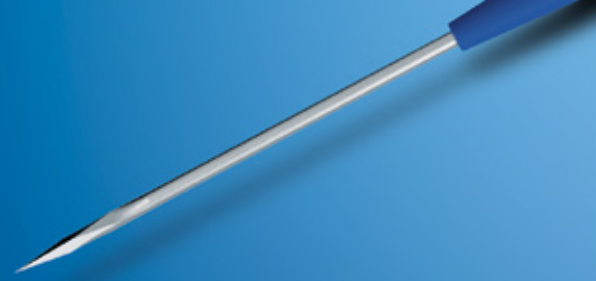


# NanoEdge

SINGLE-USE KNIVES  
FOR OPHTHALMIC  
SURGERY





# HIGH-PRECISION SINGLE-USE KNIVES FOR PRECISE OPHTHALMIC SURGERY

NanoEdge single-use ophthalmic knives stand for high precision and excellent sharpness. They are designed for smooth penetration and accurate incisions. Due to its solid and sharp blades only low penetration force is required to perform effective entries and mostly self-sealing wounds. The outstanding cutting abilities of NanoEdge knives enable better surgical outcomes.



Geuder offers an extensive portfolio for most standard and specialty ophthalmic procedures. The wide range of sizes and straight, angled or special shaped blades in double-bevel or bevel-up grinds covers all relevant incision types.

## CONTENT / KNIFE TYPES

Paracentesis and Stab Knives.....	4
Sideport Knives.....	5
Phaco Slit Knives.....	6
• Bevel-up .....	6
• Double-Bevel.....	7
Clear Cornea Knives .....	8
Trapezoid Knife .....	9
Crescent Knives .....	10
Spoon Knife .....	11
Scleral Blades .....	12
LRI Knives.....	13
Vitrectomy Knives (MVR Stiletto).....	14



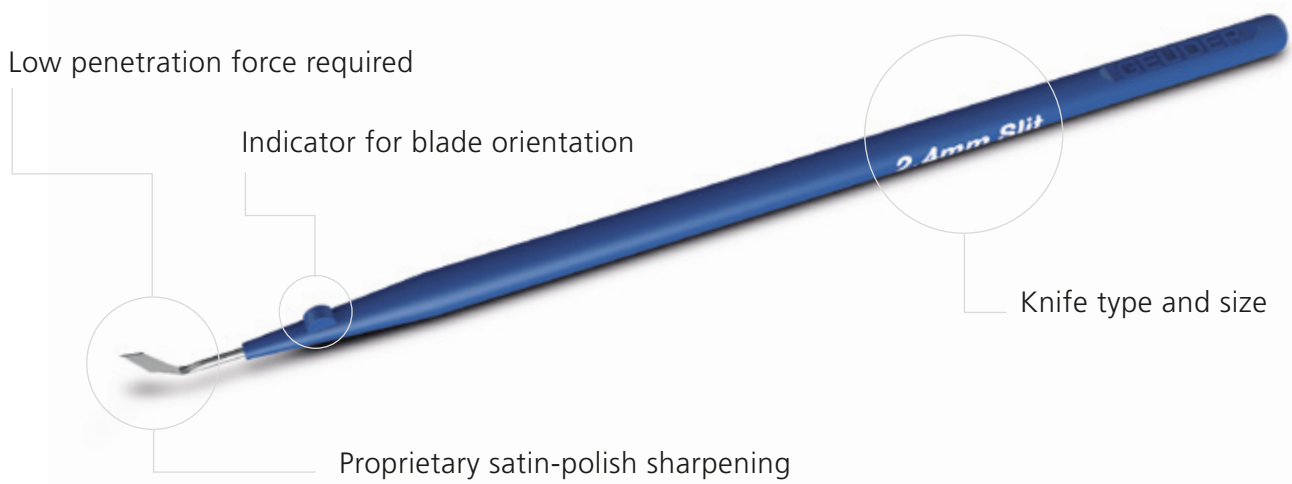
## ADVANTAGES OF NANOEDGE SINGLE-USE KNIVES

Low penetration force required

Indicator for blade orientation

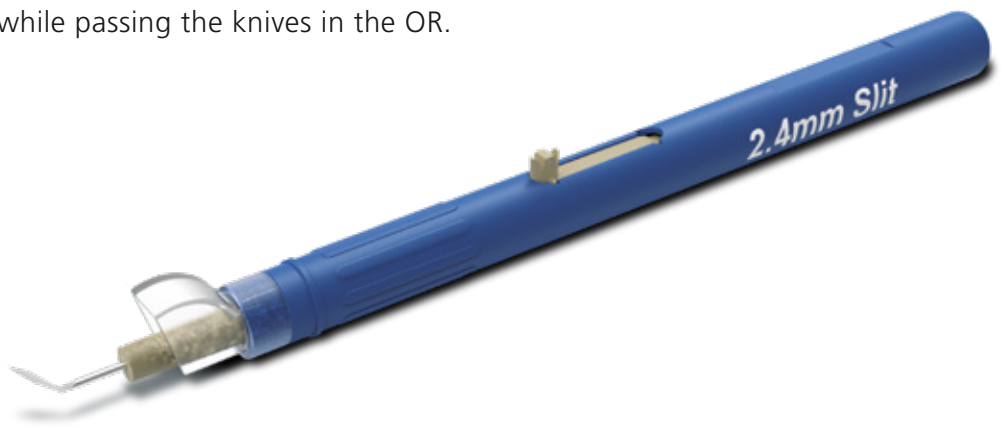
Knife type and size

Proprietary satin-polish sharpening



## KNIVES WITH PROTECTION GUARD

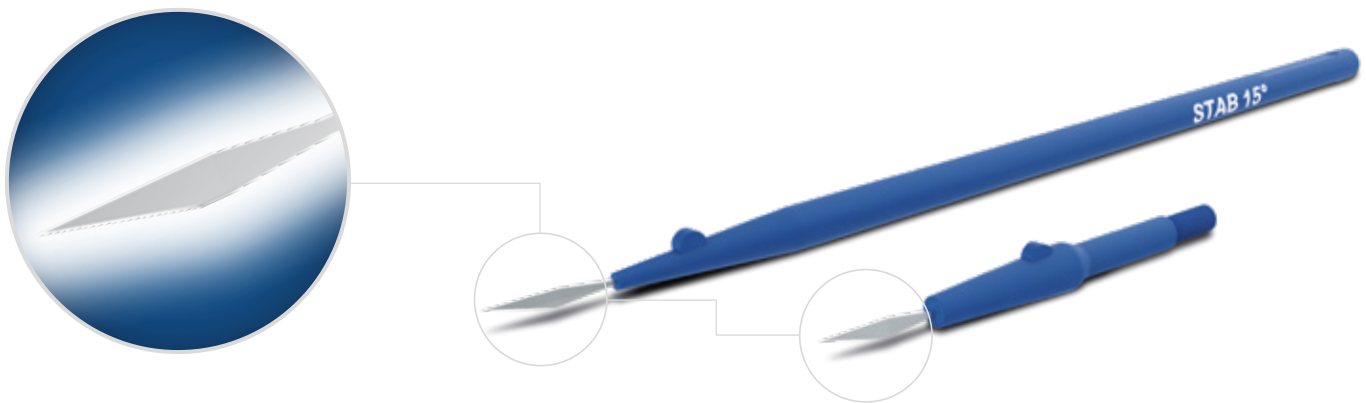
Selected standard knives are also available with safety shields to protect from unintentional injuries while passing the knives in the OR.



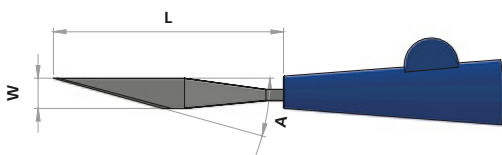


## PARACENTESIS AND STAB KNIVES

- Used for initial paracentesis incisions
- Flat wound constructions
- Different blade degrees determine incision sizes (e.g. 15° stab produces smaller incision than 30° stab)

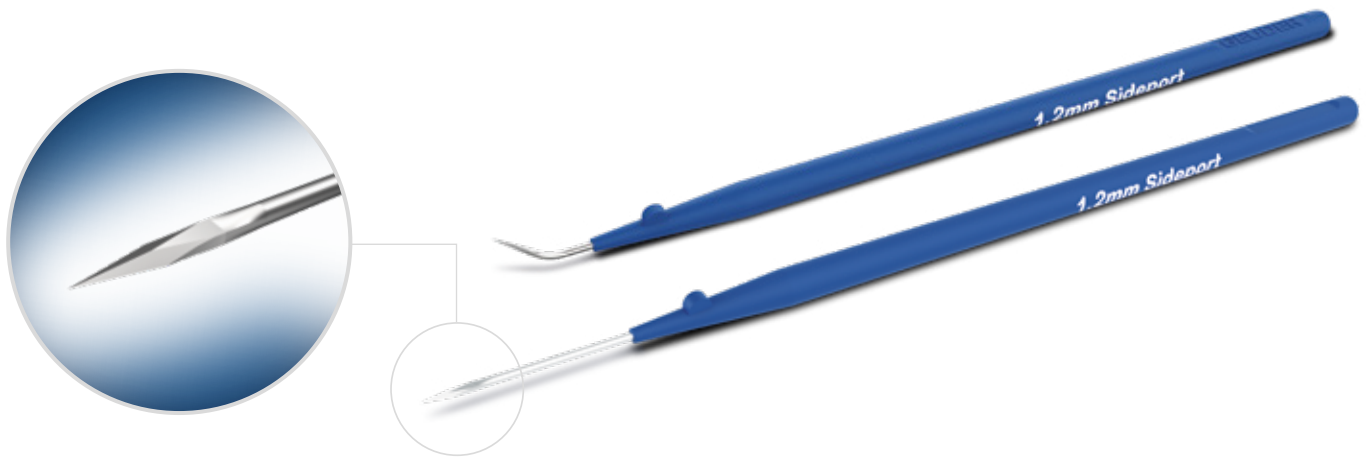


Item no.	Description	A Angle	W Width	L Length
<b>G-34026</b>	NanoEdge Paracentesis Knife 15°	15°	1.6 mm	11 mm
<b>G-34064</b>	NanoEdge Paracentesis Knife protect 15° <b>P</b>	15°	1.6 mm	11 mm
<b>G-34042</b>	NanoEdge Stab Blade Tip 15°, straight	15°	1.6 mm	11 mm
<b>G-34031</b>	NanoEdge Paracentesis Knife 22.5°	22.5°	1.6 mm	11 mm
<b>G-34036</b>	NanoEdge Paracentesis Knife 30°	30°	1.6 mm	11 mm
<b>G-34065</b>	NanoEdge Paracentesis Knife protect 30° <b>P</b>	30°	1.6 mm	11 mm
<b>G-34043</b>	NanoEdge Stab Blade Tip 30°, straight	30°	1.6 mm	11 mm
<b>G-34041</b>	NanoEdge Paracentesis Knife 45°	45°	1.6 mm	11 mm
<b>G-34044</b>	NanoEdge Stab Blade Tip 45°, straight	45°	1.6 mm	11 mm



## SIDEPORT KNIVES

- Used for sideport incisions
- Create self-sealing wounds
- Round wound constructions
- Angled and straight types available

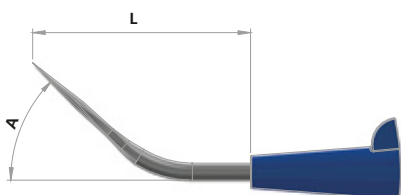


Item no.	Description	A Angle	W Width	L Length
<b>G-34070</b>	NanoEdge Corneal Sideport Knife straight 1.0 mm	straight	1.0 mm	23 mm
<b>G-34071</b>	NanoEdge Corneal Sideport Knife straight 1.2 mm	straight	1.2 mm	23 mm
<b>G-34072</b>	NanoEdge Corneal Sideport Knife angled 1.0 mm	45°	1.0 mm	23 mm
<b>G-34073</b>	NanoEdge Corneal Sideport Knife angled 1.2 mm	45°	1.2 mm	23 mm



### Assumption / Calculation base:

$$\text{Incision width} = \frac{\text{Circumference instrument tubing}}{2} \times 0,87$$





## PHACO SLIT KNIVES

- Used for main phaco incisions
- Applied for scleral tunnels, near-clear corneal incisions or clear corneal incisions
- Double-bevel and bevel-up types available
- Different sizes for all common phaco tip gauges

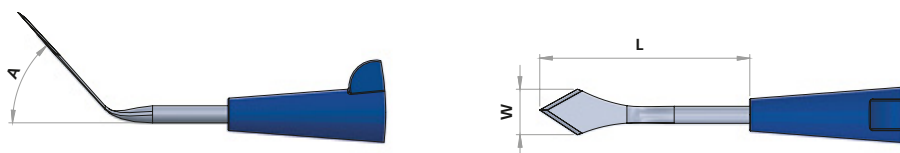
## PHACO SLIT KNIVES - BEVEL-UP

- Create upside down U-shaped incisions
- Reduce wound leakage



Incision shapes, side and topview

Item no.	Description	A Angle	W Width	L Length
<b>G-34058</b>	NanoEdge Phaco Slit Knife bevel-up angled 2.0 mm	42°	2.0 mm	14.5 mm
<b>G-34095</b>	NanoEdge Phaco Slit Knife bevel-up angled 2.2 mm	42°	2.2 mm	14.5 mm
<b>G-34097</b>	NanoEdge Phaco Slit Knife bevel-up angled 2.4 mm	42°	2.4 mm	14.5 mm
<b>G-34091</b>	NanoEdge Phaco Slit Knife bevel-up angled 2.5 mm	42°	2.5 mm	14.5 mm
<b>G-34093</b>	NanoEdge Phaco Slit Knife bevel-up angled 2.65 mm	42°	2.65 mm	14.5 mm
<b>G-34096</b>	NanoEdge Phaco Slit Knife bevel-up angled 2.75 mm	42°	2.75 mm	14.5 mm
<b>G-34098</b>	NanoEdge Phaco Slit Knife bevel-up angled 2.85 mm	42°	2.85 mm	14.5 mm
<b>G-34106</b>	NanoEdge Phaco Slit Knife bevel-up angled 3.0 mm	42°	3.0 mm	14.5 mm
<b>G-34111</b>	NanoEdge Phaco Slit Knife bevel-up angled 3.2 mm	42°	3.2 mm	14.5 mm





## PHACO SLIT KNIVES - DOUBLE-BEVEL

- Create square incisions
- Straight incisions are less prone to intersect the conjunctiva



Incision shapes, side and topview



Item no.	Description	A Angle	W Width	L Length
<b>G-34050</b>	NanoEdge Phaco Slit Knife db angled 1.8 mm	42°	1.8 mm	14.5 mm
<b>G-34092</b>	NanoEdge Phaco Slit Knife db angled 2.2 mm	42°	2.2 mm	14.5 mm
<b>G-34060</b>	NanoEdge Phaco Slit Knife protect db angled 2.2 mm <b>P</b>	42°	2.2 mm	11 mm
<b>G-34094</b>	NanoEdge Phaco Slit Knife db angled 2.4 mm	42°	2.4 mm	14.5 mm
<b>G-34061</b>	NanoEdge Phaco Slit Knife protect db angled 2.4 mm <b>P</b>	42°	2.4 mm	11 mm
<b>G-34053</b>	NanoEdge Phaco Slit Knife db angled 2.5 mm	42°	2.5 mm	14.5 mm
<b>G-34054</b>	NanoEdge Phaco Slit Knife db angled 2.75 mm	42°	2.75 mm	14.5 mm
<b>G-34055</b>	NanoEdge Phaco Slit Knife db angled 2.85 mm	42°	2.85 mm	14.5 mm
<b>G-34062</b>	NanoEdge Phaco Slit Knife protect db angled 2.85 mm <b>P</b>	42°	2.85mm	11 mm
<b>G-34056</b>	NanoEdge Phaco Slit Knife db angled 3.0 mm	42°	3.0 mm	14.5 mm
<b>G-34057</b>	NanoEdge Phaco Slit Knife db angled 3.2 mm	42°	3.2 mm	14.5 mm

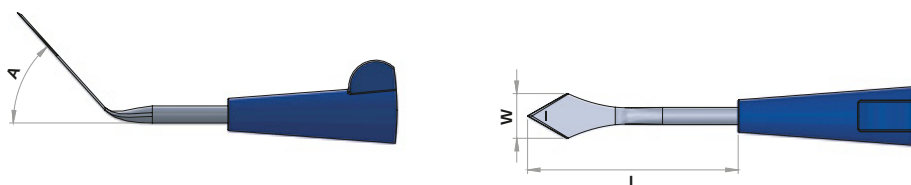


## CLEAR CORNEA KNIVES

- Designed for clear corneal incisions
- Tapered facet cutting edges designed to compensate for corneal curvature
- Create near-clear and three plane incisions
- With incision depth indicator
- Double-bevel blade
- Different sizes for all common phaco tip gauges



Item no.	Description	A Angle	W Width	L Length
<b>G-34066</b>	NanoEdge Clear Cornea Knife db angled 1.3 mm	42°	1.3 mm	14 mm
<b>G-34067</b>	NanoEdge Clear Cornea Knife db angled 2.4 mm	42°	2.4 mm	14 mm
<b>G-34120</b>	NanoEdge Clear Cornea Knife db angled 2.65 mm	42°	2.65 mm	14 mm
<b>G-34122</b>	NanoEdge Clear Cornea Knife db angled 2.75 mm	42°	2.75 mm	14 mm
<b>G-34124</b>	NanoEdge Clear Cornea Knife db angled 2.85 mm	42°	2.85 mm	14 mm
<b>G-34126</b>	NanoEdge Clear Cornea Knife db angled 3.0 mm	42°	3.0 mm	14 mm





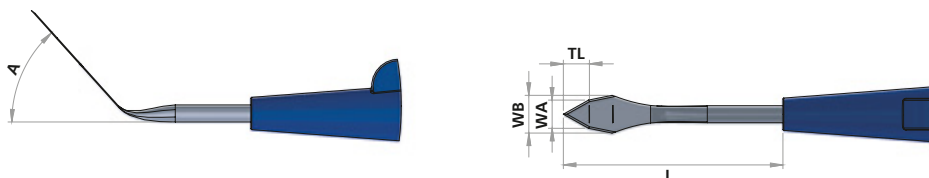


## TRAPEZOID KNIFE

- Extra thin blade design
- Designed for easy three plane incisions with two incision depth indicators on blade
- Sharp edges reduce tissue drag and distortion
- Bevel-up blade



Item no.	Description	A Angle	WA Width A	WB Width B	L Length	TL Tip Length
<b>G-34152</b>	NanoEdge Trapezoid CCI Knife angled 1.5 – 2.0 mm	42°	1.5 mm	2.0 mm	14.5 mm	2.0 mm



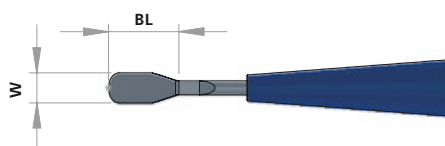
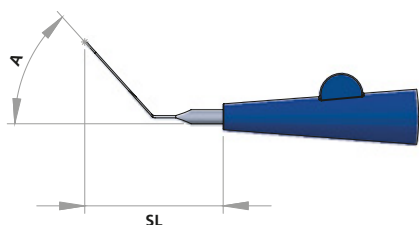


## CRESCENT KNIVES

- Used for scleral tunnel flaps
- Round tip and straight sides for optimal tunnel construction
- Sharp edges reduce tissue drag and distortion
- Creates a smooth scleral shelf and promotes wound healing



Item no.	Description	A Angle	W Width	SL Shaft Length	BL Blade Length
<b>G-34081</b>	NanoEdge Crescent Knife bevel-up angled 2.0 mm	58°	2.0 mm	14 mm	4.3 mm
<b>G-34045</b>	NanoEdge Crescent Blade Tip bevel-up angled 2.0 mm	58°	2.0 mm	14 mm	4.3 mm





## SPOON KNIFE

- Designed for groove or pocket and tunnel incisions
- 320 degree cutting edge
- Ultrathin blade
- Small 2.2 mm diameter blade



Item no.	Description	A Angle	W Width	Ø Diameter
<b>G-34086</b>	NanoEdge Spoon Knife double-bevel angled 2.2 mm	42°	2.2 mm	2.2 mm

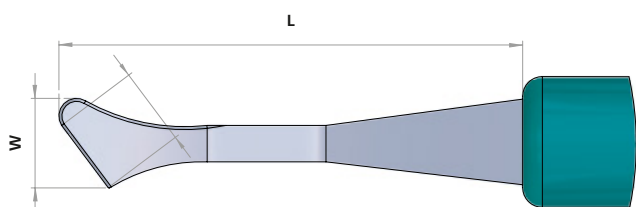


## SCLERAL BLADES

- Designed for scleral incisions
- Used to create scleral flaps during glaucoma surgery
- Used to remove epithelium in corneal epi-off cross-linking procedures
- Used to strip Descemet membrane in DMEK procedures



Item no.	Description	W Width	L Length
<b>G-34074</b>	NanoEdge Scleral Blade, straight	3.5 – 4.0 mm	23 mm
<b>G-34075</b>	NanoEdge Lamellar Blade 2.3 mm, angled, bevel-up	2.3 mm	23 mm





## LRI KNIVES

- Designed for groove or limbal relaxing incisions
- Dual cutting edges for bi-directional incisions
- Used to correct astigmatism prior cataract surgery



Item no.	Description	TW Tip Width	TL Tip Length	SL Shaft Length	W Overall Width
<b>G-34076</b>	NanoEdge Precision Depth Knife 300 µm straight	170 µm	300 µm	21 mm	2.23 mm
<b>G-34077</b>	NanoEdge Precision Depth Knife 350 µm straight	170 µm	350 µm	21 mm	2.23 mm
<b>G-34078</b>	NanoEdge Precision Depth Knife 500 µm straight	170 µm	500 µm	21 mm	2.23 mm
<b>G-34079</b>	NanoEdge Precision Depth Knife 600 µm straight	170 µm	600 µm	21 mm	2.23 mm

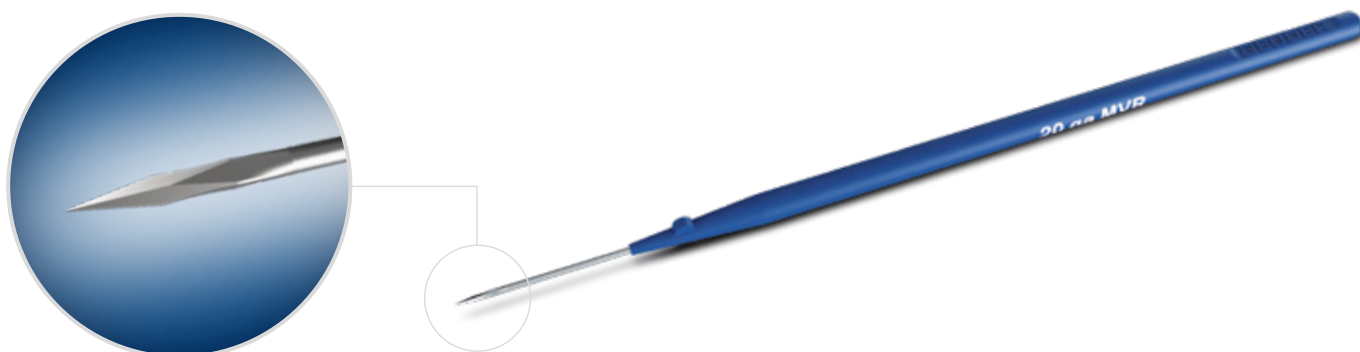





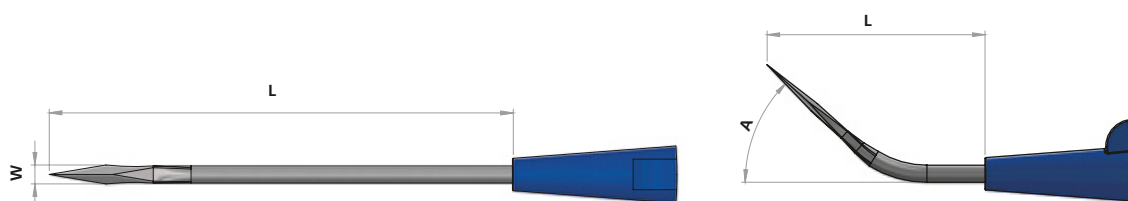
## VITRECTOMY KNIVES (MVR STILETTOS)

- Designed for centesis incision into the sclera during vitreous body surgery (two-step technique)
- Small, precise access incisions which virtually eliminate wound leaks around posterior segment instruments

*For instrument optimized and tight sideport incisions please use our sideport knives on page 5.*



Item no.	Description	A Angle	W Width	L Length
<b>G-34198</b>	NanoEdge MVR Stiletto straight 25G / 0.5 mm	straight	0.5 mm	23 mm
<b>G-34197</b>	NanoEdge MVR Stiletto angled 25G / 0.5 mm	45°	0.5 mm	23 mm
<b>G-34192</b>	NanoEdge MVR Stiletto straight 23G / 0.6 mm	straight	0.6 mm	23 mm
<b>G-34196</b>	NanoEdge MVR Stiletto angled 23G / 0.6 mm	45°	0.6 mm	23 mm
<b>G-34181</b>	NanoEdge MVR Stiletto straight 20G / 0.9 mm	straight	0.9 mm	23 mm
<b>G-34191</b>	NanoEdge MVR Stiletto angled 20G / 0.9 mm	45°	0.9 mm	23 mm
<b>G-34176</b>	NanoEdge MVR Stiletto straight 19G / 1.1 mm	straight	1.1 mm	23 mm
<b>G-34177</b>	NanoEdge MVR Stiletto angled 19G / 1.1 mm	45°	1.1 mm	23 mm
<b>G-34063</b>	NanoEdge MVR Stiletto protect angled 19 G / 1.1 mm 	45°	1.1 mm	23 mm





NanoEdge

# NanoEdge



CE 2797

GEUDER AG reserves the right to make changes to technical details in response to recent developments. GEUDER does not assume liability for the accuracy of each individual statement.

Illustrations not drawn to scale.

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