Geuder®
Precision made in Germany

Product description

Product	**Ultrasonic Tips**
Article No.	G-24040, G-24041, G-24050, G-24051, G-24055, G-24060, G-24061, G-24065, G-24070, G-24072, G-24310, G-24313 and accessories G-24073, G-24101,G-24103, G-24104, G-24106, G-24110 G-24111, G-24112, G-24120, G-24122, G-24311, G-24314 G-31021
Remarks	n.a.

GMDN-Code	34901 Phacoemulsification, system handpiece tip, reusable
UMDNS-Code	17-596 Extraktionsgerät, Katarakt, Phacoemulsification
PN-Code CA	n.a.

Product description

The ultrasonic medical products are used to treat a cataract disease. The clouded lens of the eye is removed via phacoemulsification caused by ultrasonic vibrations.

Each Ultrasonic tip (made of titanium) is screwed by a spanner (Stainless steel) on an ultrasonic handpiece. A sleeve made for CMP (=coaxial micro phaco; silicone) is installed at the very end of tip to allow an irrigation/aspiration function. The whole system included the handpiece is connected via a cable to the Megatron ophthalmic surgical system.
The properly function is tested in advance via the surgical system with a test anterior chamber made from silicone and they have to be used by diving in liquid , because of heat development.
Ultrasonic vibrations , generated by the Megatron ophthalmic surgical system, are transferred to the tip in order to destroy the hard central nucleus of the lens. The resulting lens segments are aspirated by the inner capillary of the tip, by which the amount of aspirated liquids and tissues is replaced by an infusion.

The Ultrasonic tip equipment (tip, wrench, sleeve) is available as reusable device.

Product variants

Article No. G-	Description
24040	ULTRASONIC TIP, titanium, 15°, 1.17 mm diameter

24041	ULTRASONIC TIP, titanium, 15°, for Pars-Plana-Lensectomy, 0.9 mm diameter
24050	ULTRASONIC TIP, titanium 30°, 1.17mm diameter
24051	ULTRASONIC TIP, titanium 30°, for Pars-Plana-Lensectomy, 0.9 diameter
24055	MEGA ULTRASONIC TIP, titanium, 30°, (US-Patent 5,451,229), diameter at the tip 1.26 mm
24060	ULTRASONIC TIP, titanium 45°, 1.17mm diameter
24061	ULTRASONIC TIP, titanium 45°, for Pars-Plana-Lensectomy, 0.9mm diameter
24065	MEGA-ULTRASONIC TIP, titanium, 15°, for bimana phaco-technique, German patent no.9321213, diameter tip 1.0mm
24070	MINI- MEGA-ULTRASONIC TIP, titanium, 30°, German patent 43 13 245, diameter 1.0mm
24072	CMP ULTRASONIC TIP, titanium, 30°, 0.8mm Diameter, for coaxial Micro-Phaco
24310	PEP 2.2 MM ULTRASONIC TIP Pure Efficiency Phaco for 2.2 mm incision, titanium, 40°, 3 step design, purple
24313	PEP 2.4 MM ULTRASONIC TIP Pure Efficency Phaco for 2.4 mm incisions titanium, 40°, 3 step design, green

Accessories	
Article No. G-	**Description**
24073	CMP INFUSION BONNET, green silicone, infusion tube 1.5mm diameter, for coaxial micro phaco
24101	INFUSION BONNET, silicone, yellow, for ultrasonic handpiece, German patent no. 4008594, Infusion tube 1.8mm diameter
24103	INFUSION BONNET, silicone, rose, flexible infusion tube with silicone coat ()
24104	INFUSION BONNET, yellow, flexible infusion tube with silicone tube, German patent no. 197 00 809, infusion tube 1.8mm diameter
24106	SILICONE BONNET, yellow, for bimanual phaco-technique
24111	INFUSION BONNET, silicone hardened, yellow, for ultrasonic handpiece, German patent no. 40 08 594, Infusion tube 1.8 mm diameter
24110	KEY for ultrasonic tip
24112	KEYfor CMP ultrasonic tip
24120	TEST ANTERIOR CHAMBER from silicone for ultrasonic tip
24122	TEST ANTERIOR CHAMBER from silicone, transparent, for Infusion bonnet G-24073, G.24100, G-24106
24311	PEP 2.2 MM INFUSION SLEEVE Pure Efficiency Phaco for 2.2 mm incisions, purple transparency silicone

Geuder®
Precision made in Germany

V1.0	November 10, 2010	First release
V2.0	August 12, 2014	English version
V3.0	February , 19th 2015	Change of products

Drafted by	**Reviewed by**	**Released by**
Name: Stephanie Haas, QM/RA	Name: Heike Kheil, QM/RA	Name: Matthias Welke, Head of QM/RA
Date/Signature Stephanie Haas 19. FEB. 2015	Date/Signature Heike Kheil 19. FEB. 2015	Date/Signature Matthias Welke 20. FEB. 2015

Geuder®
Precision made in Germany

24314	PEP 2.4 MM INFUSION SLEEVE Pure Efficiency Phaco for 2.4mm incisions, green transparency silicone
31021	CLEANING ADAPTER for ultrasonic tips

Pictures (examples)	
G-24040	
G-24050	
G-24110	
G-24073	

Production plants and Marketing authorisation holder (MAH)		
Article No. G-	**Production plant**	**MAH**
	GEUDER AG Hertzstraße 4 D-69126 Heidelberg	GEUDER AG Hertzstraße 4 D-69126 Heidelberg

Material in contact with the patient	
Component	**Material**
Ultrasonic Tips	Titanium
Infusion sleeve	Silicone

Sterilization	
Sterilization method	Heat sterilization acc. Geuder reprocessing instructions

Shelf-Life	**n.a.** (reusable device)

Document changes		
Version	**Date**	**Description**