

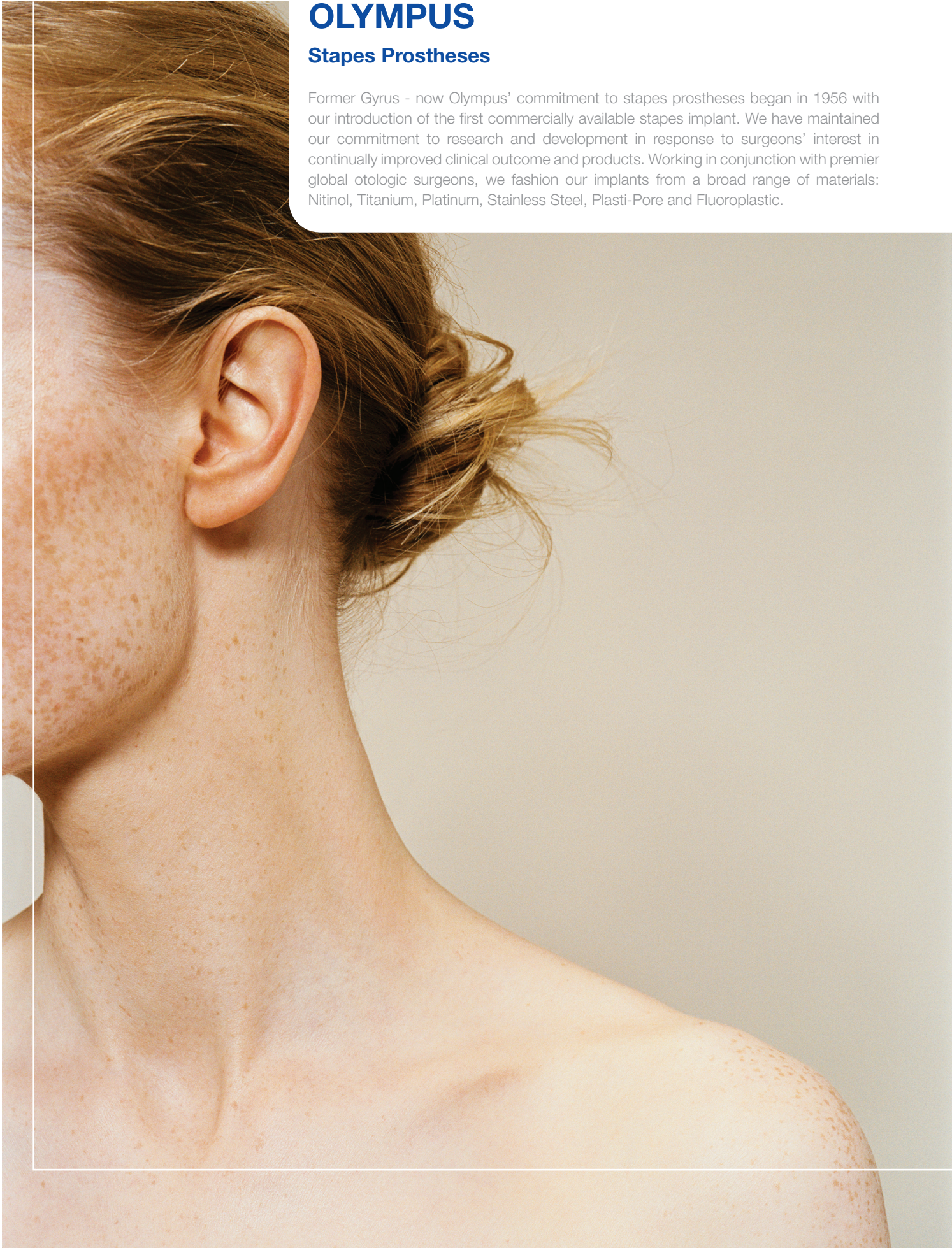
Reference Guide for Stapes Protheses



OLYMPUS

Stapes Prostheses

Former Gyrus - now Olympus' commitment to stapes prostheses began in 1956 with our introduction of the first commercially available stapes implant. We have maintained our commitment to research and development in response to surgeons' interest in continually improved clinical outcome and products. Working in conjunction with premier global otologic surgeons, we fashion our implants from a broad range of materials: Nitinol, Titanium, Platinum, Stainless Steel, Plasti-Pore and Fluoroplastic.



STAPES PROSTHESES ALLOYS & MATERIALS

Fluoroplastics

Fluoroplastics are polymers composed of carbon and fluorine atoms. They come from a variety of different resins and are used in a wide range of industrial, medical, and home applications. Teflon is the brand name of one of the more popular varieties of fluoroplastic. Fluoroplastics are highly regarded by otologists for their inertness, smoothness of texture, and biocompatibility. Fluoroplastic parts are molded, machined from rods, or formed from tubing and sheeting.

Nitinol

Nitinol (Nickel-Titanium alloy) is a shape-memory metal alloy that has been used in medical applications for years. Since nitinol “self-fashions” with heat, the crimping maneuver is dramatically simplified.

Platinum

Platinum is a highly corrosive resistant material and very ductile metal that is well tolerated by the body. Devices made from platinum wire or ribbon can easily be adjusted or crimped by a physician, and will retain their formed shape without “spring-back.”

Porous Polyethylene

Porous polyethylene (Plasti-Pore) is formed by sintering many individual polyethylene resin particles. It permits tissue in growth into the interconnecting pores of the implant material. The base resin, polyethylene, is known to be a very inert material. The natural white colour is the only one used by Olympus.

Stainless Steel

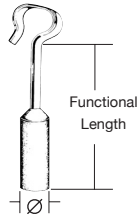
Stainless steel (ASTM F 138, Grade 2) is special quality implant-grade steel that has long been in use in medical implants. It has a balanced corrosion resistant chemistry and an extremely clean microstructure. Stainless steel parts are machined from rods. Wire made of this material is also used for many other Olympus ENT products.

Titanium

Titanium (ASTM F 136) is used in many medical implants. It has excellent corrosion resistance and is well tolerated by tissue. The material is light weight and MRI compatible.

PISTONS

Armstrong-Style Pistons

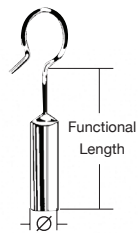


Cat. No.	Piston Diameter	Functional Length
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Platinum/Plasti-Pore Material

EG140760	0.6 mm	3.50 mm
EG140761	0.6 mm	3.75 mm
EG140762	0.6 mm	4.00 mm
EG140763	0.6 mm	4.25 mm
EG140764	0.6 mm	4.50 mm
EG140765	0.6 mm	4.75 mm
EG140766	0.6 mm	5.00 mm
EG140770	0.8 mm	3.50 mm
EG140771	0.8 mm	3.75 mm
EG140772	0.8 mm	4.00 mm
EG140773	0.8 mm	4.25 mm
EG140774	0.8 mm	4.50 mm
EG140775	0.8 mm	4.75 mm
EG140776	0.8 mm	5.00 mm

McGee Shepherd's Crook Pistons

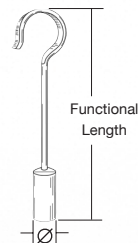


Cat. No.	Piston Diameter	Functional Length
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Stainless Steel

EG140473	0.6 mm	3.50 mm
EG140475	0.6 mm	4.00 mm
EG140477	0.6 mm	4.50 mm
EG140479	0.6 mm	5.00 mm
EG140481	0.6 mm	5.50 mm

De La Cruz Piston



Cat. No.	Piston Diameter	Functional Length
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Platinum/Fluoroplastic

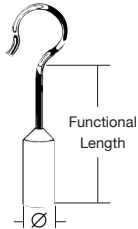
A EG70140730	0.6 mm	3.50 mm
EG70140731	0.6 mm	3.75 mm
EG70140732	0.6 mm	4.00 mm
EG70140733	0.6 mm	4.25 mm
EG70140734	0.6 mm	4.50 mm
EG70140735	0.6 mm	4.75 mm
EG70140736	0.6 mm	5.00 mm

Stainless Steel/Fluoroplastic

B EG70140726	0.6 mm	3.75 mm
EG70140727	0.6 mm	4.00 mm
EG70140728	0.6 mm	4.25 mm
EG70140729	0.6 mm	4.50 mm
EG70140737	0.6 mm	4.75 mm

PISTONS

Richards Platinum Fluoroplastic Piston

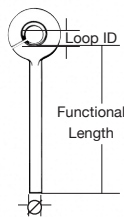


Cat. No.	Piston Diameter	Functional Length
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Platinum/Fluoroplastic

EG141812	0.4 mm	3.50 mm
EG141813	0.4 mm	3.75 mm
EG141814	0.4 mm	4.00 mm
EG141815	0.4 mm	4.25 mm
EG141816	0.4 mm	4.50 mm
EG141817	0.4 mm	4.75 mm
EG141818	0.4 mm	5.00 mm
EG140813	0.5 mm	3.75 mm
EG140814	0.5 mm	4.00 mm
EG140815	0.5 mm	4.25 mm
EG140816	0.5 mm	4.50 mm
EG140817	0.5 mm	4.75 mm
EG140818	0.5 mm	5.00 mm
EG140781	0.6 mm	3.50 mm
EG140782	0.6 mm	3.75 mm
EG140783	0.6 mm	4.00 mm
EG140784	0.6 mm	4.25 mm
EG140785	0.6 mm	4.50 mm
EG140786	0.6 mm	4.75 mm
EG140787	0.6 mm	5.00 mm
EG140790	0.8 mm	3.50 mm
EG140791	0.8 mm	3.75 mm
EG140792	0.8 mm	4.00 mm
EG140793	0.8 mm	4.25 mm
EG140794	0.8 mm	4.50 mm
EG140795	0.8 mm	4.75 mm
EG140796	0.8 mm	5.00 mm

Cawthorne Piston

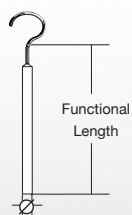


Cat. No.	Piston Diameter	Loop ID	Functional Length
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Fluoroplastic

EG140262	0.3 mm	0.8 mm	3.50 mm
EG140264	0.3 mm	0.8 mm	4.00 mm
EG140265	0.3 mm	0.8 mm	4.25 mm
EG140266	0.3 mm	0.8 mm	4.50 mm
EG140268	0.3 mm	0.8 mm	5.00 mm
EG140270	0.3 mm	0.8 mm	5.50 mm
EG140272	0.3 mm	0.8 mm	6.00 mm

Fisch-Type Piston



Cat. No.	Piston Diameter	Functional Length
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Platinum/Fluoroplastic

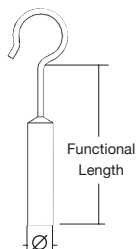
A	EG140443	0.4 mm	6.00 mm
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Stainless Steel/Fluoroplastic

B	EG140444	0.4 mm	6.00 mm
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PISTONS

Mass Eye and Ear Piston

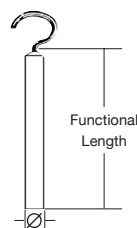


Cat. No.	Piston Diameter	Functional Length
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Fluoroplastic/Platinum

EG70140799	0.6 mm	4.00 mm
EG70140801	0.6 mm	4.25 mm
EG70140798	0.6 mm	4.50 mm

Ronis Piston

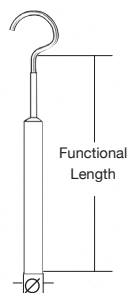


Cat. No.	Piston Diameter	Functional Length
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Stainless Steel/Fluoroplastic

EG140571	0.6 mm	4.50 mm
EG140573	0.6 mm	5.00 mm

Sanna Piston

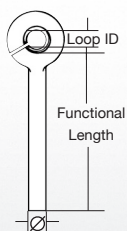


Cat. No.	Piston Diameter	Functional Length
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Fluoroplastic Platinum Trimmable to Length

EG70140797	0.5 mm	6.00 mm
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Causse Piston



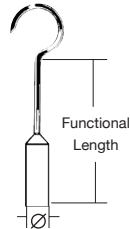
Cat. No.	Piston Diameter	Loop ID	Functional Length
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Fluoroplastic

EG140457	0.4 mm	0.6 mm	6.00 mm
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PISTONS

Scheer Pistons

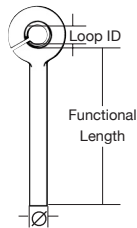


Cat. No.	Piston Diameter	Functional Length
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Stainless Steel/Fluoroplastic

EG140226	0.6 mm	3.33 mm
EG140227	0.6 mm	3.58 mm
EG140228	0.6 mm	3.83 mm
EG140229	0.6 mm	4.08 mm
EG140230	0.6 mm	4.33 mm
EG140231	0.6 mm	4.58 mm

Fluoroplastic Pistons

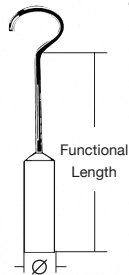


Cat. No.	Piston Diameter	Functional Length
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Fluoroplastic

EG140074	0.6 mm	0.6 mm	3.50 mm
EG140076	0.6 mm	0.6 mm	4.00 mm
EG140078	0.6 mm	0.6 mm	4.50 mm
EG140080	0.6 mm	0.6 mm	5.00 mm
EG140082	0.6 mm	0.6 mm	6.00 mm
EG140066	0.8 mm	0.6 mm	4.00 mm
EG140068	0.8 mm	0.6 mm	4.50 mm
EG140070	0.8 mm	0.6 mm	5.00 mm
EG140072	0.8 mm	0.6 mm	6.00 mm
EG140456	0.6 mm	0.8 mm	6.00 mm

Schuknecht Piston



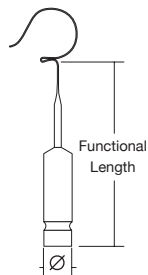
Cat. No.	Piston Diameter	Functional Length
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Stainless Steel/Fluoroplastic

EG140120	0.6 mm	3.00 mm
EG140121	0.6 mm	3.25 mm
EG140122	0.6 mm	3.50 mm
EG140123	0.6 mm	3.75 mm
EG140124	0.6 mm	4.00 mm
EG140125	0.6 mm	4.25 mm
EG140126	0.6 mm	4.50 mm
EG140127	0.6 mm	4.75 mm
EG140128	0.6 mm	5.00 mm
EG140129	0.6 mm	5.25 mm
EG140130	0.6 mm	5.50 mm
EG140131	0.6 mm	5.75 mm
EG140102	0.8 mm	3.50 mm
EG140103	0.8 mm	3.75 mm
EG140104	0.8 mm	4.00 mm
EG140105	0.8 mm	4.25 mm
EG140106	0.8 mm	4.50 mm
EG140107	0.8 mm	4.75 mm
EG140108	0.8 mm	5.00 mm
EG140110	0.8 mm	5.50 mm
EG140111	0.8 mm	5.75 mm

PISTONS

Mangham Pistons

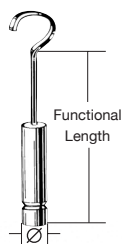


Cat. No.	Piston Diameter	Functional Length
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Fluoroplastic/Platinum

EG70145953	0.6 mm	5.00 mm
EG70145950	0.6 mm	4.00 mm
EG70145951	0.6 mm	4.25 mm
EG70145952	0.6 mm	4.50 mm

McGee Pistons

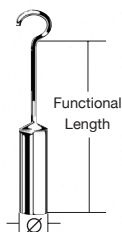


Cat. No.	Piston Diameter	Functional Length
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Platinum/Stainless Steel .5mm Hash Mark

A

EG140336	0.5 mm	3.75 mm
EG140337	0.5 mm	4.00 mm
EG140338	0.5 mm	4.25 mm
EG140339	0.5 mm	4.50 mm
EG140340	0.5 mm	4.75 mm
EG140341	0.5 mm	5.00 mm
EG140330	0.6 mm	3.75 mm
EG140331	0.6 mm	4.00 mm
EG140332	0.6 mm	4.25 mm
EG140333	0.6 mm	4.50 mm
EG140334	0.6 mm	4.75 mm
EG140335	0.6 mm	5.00 mm



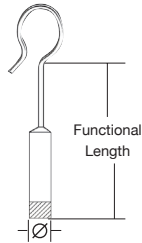
Stainless Steel

B

EG140161	0.6 mm	3.25 mm
EG140162	0.6 mm	3.50 mm
EG140163	0.6 mm	3.75 mm
EG140164	0.6 mm	4.00 mm
EG140165	0.6 mm	4.25 mm
EG140166	0.6 mm	4.50 mm
EG140167	0.6 mm	4.75 mm
EG140168	0.6 mm	5.00 mm
EG140170	0.6 mm	5.50 mm
EG140143	0.8 mm	3.75 mm
EG140144	0.8 mm	4.00 mm
EG140145	0.8 mm	4.25 mm
EG140146	0.8 mm	4.50 mm
EG140147	0.8 mm	4.75 mm
EG140148	0.8 mm	5.00 mm
EG140149	0.8 mm	5.25 mm
EG140150	0.8 mm	5.50 mm

PISTONS

Touma Modified Shepherd's Crook Pistons

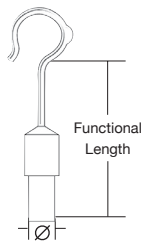


Cat. No.	Piston Diameter	Functional Length
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Stainless Steel/Glass Beaded Hash Mask

EG70145902	0.4 mm	4.25 mm
EG70145900	0.4 mm	3.75 mm
EG70145901	0.4 mm	4.00 mm

Velegrakis Pistons



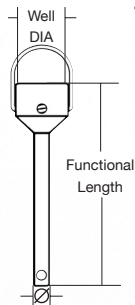
Cat. No.	Corpis Dual Upper	Diameters Lower	Functional Length
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Fluoroplastic/Platinum

EG70140391	0.8 mm	0.6 mm	4.00 mm
EG70140392	0.8 mm	0.6 mm	4.25 mm
EG70140393	0.8 mm	0.6 mm	4.50 mm
EG70140394	0.8 mm	0.6 mm	4.75 mm

CUP PISTONS

Classic Stapes Prostheses



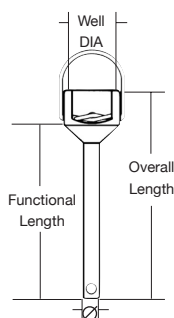
Cat. No.	Piston Diameter	Functional Length	Well Diameter
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Titanium

EG70142141	Narrow 0.4 mm	4.00 mm	Large 1.0 mm
EG70142142	Narrow 0.4 mm	4.00 mm	Standard 0.9 mm
EG70142143	Standard 0.6 mm	4.00 mm	Large 1.0 mm
EG70142144	Standard 0.6 mm	4.00 mm	Standard 0.9 mm
EG70142145	Narrow 0.4 mm	4.50 mm	Large 1.0 mm
EG70142146	Narrow 0.4 mm	4.50 mm	Standard 0.9 mm
EG70142147	Standard 0.6 mm	4.50 mm	Large 1.0 mm
EG70142148	Standard 0.6 mm	4.25 mm	Standard 0.9 mm
EG70142149	Standard 0.6 mm	4.50 mm	Standard 0.9 mm
EG70142150	Narrow 0.4 mm	5.00 mm	Large 1.0 mm
EG70142151	Narrow 0.4 mm	5.00 mm	Standard 0.9 mm
EG70142152	Standard 0.6 mm	5.00 mm	Large 1.0 mm
EG70142153	Standard 0.6 mm	5.00 mm	Standard 0.9 mm

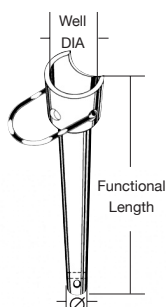
CUP PISTONS

Lippy Modified Stapes Prostheses



Cat. No.	Piston Diameter	Functional Length	Overall Length	Well Diameter
Titanium				
EG70142154	0.4 mm	3.65 mm	4.50 mm	1.0 mm
EG70142155	0.4 mm	4.15 mm	5.00 mm	1.0 mm
EG70142156	0.4 mm	4.65 mm	5.50 mm	1.0 mm
EG70142157	0.4 mm	5.15 mm	6.00 mm	1.0 mm

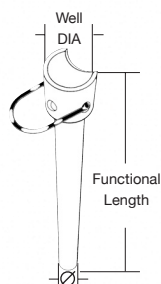
Richards Bucket Handle Prostheses



Cat. No.	Piston Diameter	Functional Length	Well Diameter
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Titanium

A	EG70142158	0.4 mm	3.50 mm	1.0 mm
	EG70142159	0.4 mm	4.00 mm	1.0 mm
	EG70142160	0.4 mm	4.25 mm	1.0 mm
	EG70142161	0.4 mm	4.50 mm	1.0 mm
	EG70142162	0.4 mm	5.00 mm	1.0 mm
	EG70142163	0.6 mm	3.50 mm	1.0 mm
	EG70142164	0.6 mm	4.00 mm	1.0 mm
	EG70142165	0.6 mm	4.25 mm	1.0 mm
	EG70142166	0.6 mm	4.50 mm	1.0 mm
	EG70142167	0.6 mm	5.00 mm	1.0 mm

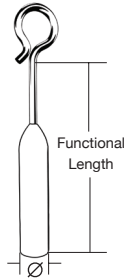


Fluoroplastic

B	EG142148	0.4 mm	3.50 mm	1.0 mm
	EG142150	0.4 mm	4.00 mm	1.0 mm
	EG142152	0.4 mm	4.50 mm	1.0 mm
	EG142154	0.4 mm	5.00 mm	1.0 mm
	EG142132	0.6 mm	3.50 mm	1.0 mm
	EG142134	0.6 mm	4.00 mm	1.0 mm
	EG142136	0.6 mm	4.50 mm	1.0 mm
	EG142138	0.6 mm	5.00 mm	1.0 mm

SMART NITINOL TECHNOLOGIES PISTONS

SMart Pistons

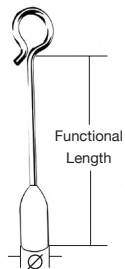


Cat. No.	Piston Diameter	Functional Length
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Nitinol/Fluoroplastic

EG70145920	0.5 mm	3.75 mm
EG70145921	0.5 mm	4.00 mm
EG70145922	0.5 mm	4.25 mm
EG70145923	0.5 mm	4.50 mm
EG70145924	0.5 mm	4.75 mm
EG70145925	0.6 mm	3.75 mm
EG70145926	0.6 mm	4.00 mm
EG70145927	0.6 mm	4.25 mm
EG70145928	0.6 mm	4.50 mm
EG70145929	0.6 mm	4.75 mm
EG70145930	0.8 mm	3.75 mm
EG70145931	0.8 mm	4.00 mm
EG70145932	0.8 mm	4.25 mm
EG70145933	0.8 mm	4.50 mm
EG70145934	0.8 mm	4.75 mm

SMart De La Cruz Pistons

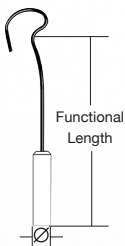


Cat. No.	Piston Diameter	Functional Length
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Nitinol/Fluoroplastic

EG70142056	0.6 mm	4.00 mm
EG70142057	0.6 mm	4.25 mm
EG70142058	0.6 mm	4.50 mm
EG70142059	0.6 mm	4.75 mm

SMart Malleus to Footplate Pistons



Cat. No.	Piston Diameter	Functional Length
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Nitinol/Fluoroplastic

EG70142037	0.6 mm	5.50 mm
EG70142038	0.6 mm	6.00 mm
EG70142039	0.6 mm	6.50 mm

SMART PISTON HEATING DEVICE

for use with SMart Malleus to Footplate Pistons



Cat. No.	Description	Unit P/Box
Nitinol/Fluoroplastic		
EG70131012	SMart Thermal handle w/AA Battery	1
EG70131013	SMart Thermal Tip and Drape	6 each

OTOMIMIX

Otomimix



Cat. No.	Description	Unit P/Box
Nitinol/Fluoroplastic		
EG70143266	Otomimix - 2 Gram	1
EG130725	Rosen needle - sharp	1
EG130726	Rosen needle - dull	1



Smart piston technology uses Nitinol - A heat activated shape-memory metal alloy

Specifications, design and accessories are subject to change without any notice or obligation on the part of the manufacturer.

OLYMPUS

OLYMPUS EUROPA HOLDING GMBH
Postbox 10 49 08
20034 Hamburg, Germany
www.olympus-europa.com