

Stapes Implant

Reference Guide

Complete Stapes Procedure Solutions



LEADING THE WAY IN OTOLOGY







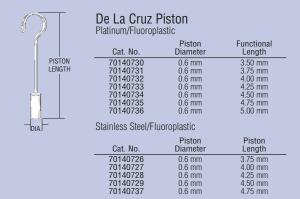
In 1956, Richards Manufacturing introduced the world's first stapes implant. In the five decades since, the Richards line has expanded to revolutionize middle ear prostheses through the development of new products and the introduction of new materials and technologies. From the first PORP® and TORP® designs to the first commercially available vent tube, and from advancements in Oto-endoscopy to precision instrumentation; these innovations in Otology have resulted in the most comprehensive line of otologic products in the market.

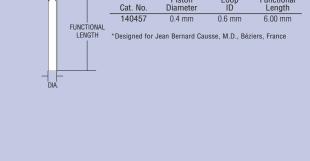
Today, the Richards line of products is still being offered through Olympus. Not only does Olympus provide procedure solutions for Otology, we also offer advanced visualization and treatment products for Pediatric ENT, Rhinology, Laryngology, Sleep, and Head and Neck procedures. As our commitment to the ENT community continues to expand at Olympus, we will

continue to offer innovative procedure solutions to help improve outcomes and enhance the quality of life for your patients. Our ENT sales consultants are here to help and have been skillfully trained to listen and respond quickly to your ENT business needs.

PISTONS

Armstrong-Style Pistons Platinum/Plasti-Pore® Material Cat. No. Diameter Length 140760 0.6 mm 3.50 mm 140761 0.6 mm 3.75 mm 140762 0.6 mm 4.25 mm 140764 0.6 mm 4.25 mm 140765 0.6 mm 4.75 mm 140766 0.6 mm 5.00 mm 140770 0.8 mm 3.50 mm 140771 0.8 mm 4.75 mm 140773 0.8 mm 4.50 mm 140773 0.8 mm 4.25 mm 140773 0.8 mm 4.50 mm 140775 0.8 mm 4.50 mm

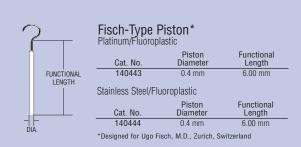


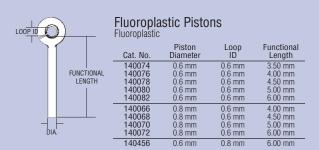


Causse Piston*

LOOP ID



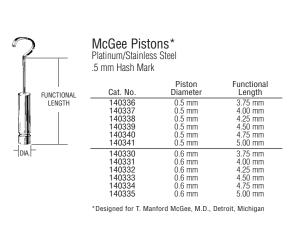




\bigcirc	Mangham P	istons*	
	Cat. No.	Piston Diameter	Functional Length
FUNCTIONAL LENGTH	70145953 70145950 70145951 70145952	0.6 mm 0.6 mm 0.6 mm 0.6 mm	5.00 mm 4.00 mm 4.25 mm 4.50 mm
DIA	*Designed by Charles	s Mangham, M.D., Si	eattle, WA.

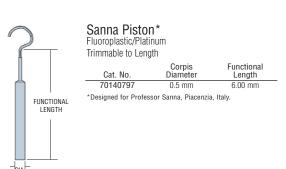
\bigcirc	Mass Eye and Ear Piston Fluoroplastic/Platinum			
	Cat. No.	Piston Diameter	Functional Length	
FUNCTIONAL LENGTH	70140799 70140801 70140798	0.6 mm 0.6 mm 0.6 mm	4.00 mm 4.25 mm 4.50 mm	
DIA				

PISTONS



Cat. No.	Piston Diameter	Functional Length
140161 140162 140163 140164 140165 140166 140167 140168 140170	0.6 mm 0.6 mm 0.6 mm 0.6 mm 0.6 mm 0.6 mm 0.6 mm 0.6 mm	3.25 mm 3.50 mm 3.75 mm 4.00 mm 4.25 mm 4.50 mm 4.75 mm 5.00 mm
140143 140144 140145 140146 140147 140148 140149 140150	0.8 mm 0.8 mm 0.8 mm 0.8 mm 0.8 mm 0.8 mm 0.8 mm 0.8 mm	3.75 mm 4.00 mm 4.25 mm 4.50 mm 4.75 mm 5.00 mm 5.25 mm 5.50 mm
	140161 140162 140163 140164 140165 140166 140167 140168 140170 140143 140144 140145 140147 140148 140147	Cat. No. Diameter 140161 0.6 mm 140162 0.6 mm 140163 0.6 mm 140164 0.6 mm 140165 0.6 mm 140166 0.6 mm 140168 0.6 mm 140170 0.6 mm 140143 0.8 mm 140144 0.8 mm 140145 0.8 mm 140146 0.8 mm 140147 0.8 mm 140148 0.8 mm 140149 0.8 mm

	Richards Pla Fluoroplastic Platinum/Fluorop	c Pistons	
	Cat. No.	Piston Diameter	Functional Length
FUNCTIONAL LENGTH	141812 141813 141814 141815 141816 141817 141818	0.4 mm 0.4 mm 0.4 mm 0.4 mm 0.4 mm 0.4 mm 0.4 mm	3.50 mm 3.75 mm 4.00 mm 4.25 mm 4.50 mm 4.75 mm 5.00 mm
	140813	0.5 mm	3.75 mm
	140814	0.5 mm	4.00 mm
	140815	0.5 mm	4.25 mm
	140816	0.5 mm	4.50 mm
	140817	0.5 mm	4.75 mm
	140818	0.5 mm	5.00 mm
	140781	0.6 mm	3.50 mm
	140782	0.6 mm	3.75 mm
	140783	0.6 mm	4.00 mm
	140784	0.6 mm	4.25 mm
	140785	0.6 mm	4.50 mm
	140786	0.6 mm	4.75 mm
	140787	0.6 mm	5.00 mm
	140790	0.8 mm	3.50 mm
	140791	0.8 mm	3.75 mm
	140792	0.8 mm	4.00 mm
	140793	0.8 mm	4.25 mm
	140794	0.8 mm	4.50 mm
	140795	0.8 mm	4.75 mm
	140796	0.8 mm	5.00 mm



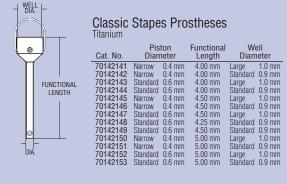


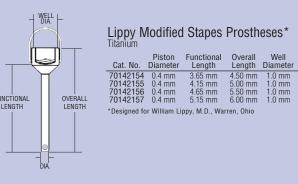
2	Schuknecht Stainless Steel/Fl		
	Cat. No.	Piston Diameter	Functional Length
FUNCTIONAL LENGTH	140120 140121 140122 140123 140124 140125 140126 140127 140128 140129 140130 140131	0.6 mm 0.6 mm 0.6 mm 0.6 mm 0.6 mm 0.6 mm 0.6 mm 0.6 mm 0.6 mm 0.6 mm	3.00 mm 3.25 mm 3.50 mm 3.75 mm 4.00 mm 4.25 mm 4.75 mm 5.00 mm 5.25 mm 5.50 mm 5.75 mm
	140102 140103 140104 140105 140106 140107 140108 140110 140111	0.8 mm 0.8 mm 0.8 mm 0.8 mm 0.8 mm 0.8 mm 0.8 mm 0.8 mm	3.50 mm 3.75 mm 4.00 mm 4.25 mm 4.75 mm 5.00 mm 5.50 mm 5.75 mm

	Touma Modi Pistons* Stainless Steel/Gla	•	
	Cat. No.	Piston Diameter	Functional Length
FUNCTIONAL LENGTH	70145902 70145900 70145901	0.4 mm 0.4 mm 0.4 mm	4.25 mm 3.75 mm 4.00 mm
-DIA	*Developed in conjur Huntington, WV	ction with Joseph To	uma, M.D.,

	Velegrakis Fluoroplastic/	s Pistons' Platinum	k	
	Cat. No.	Corpis Dual Upper	Diameters Lower	Functional length
FUNCTIONAL LENGTH	70140391 70140392 70140393 70140394	0.8 mm 0.8 mm 0.8 mm 0.8 mm	0.6 mm 0.6 mm 0.6 mm 0.6 mm	4.00 mm 4.25 mm 4.50 mm 4.75 mm
	*Developed in co Crete, Greece.	onjunction with (George Velegra	akis, M.D., Herak
H _{DIA.} -				

CUP PISTONS

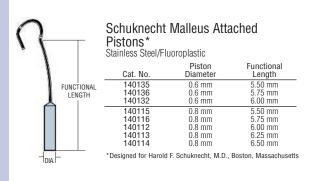




WEL-	Richards Titanium	Bucket H	landle Pro	stheses
	Cat. No.	Piston Diameter	Functional Length	Well Diameter
FUNCTIONAL LENGTH	70142158 70142159 70142160 70142161	0.4 mm 0.4 mm 0.4 mm 0.4 mm	3.50 mm 4.00 mm 4.25 mm 4.50 mm	1.0 mm 1.0 mm 1.0 mm 1.0 mm
toj	70142162 70142163 70142164 70142165 70142166 70142167	0.6 mm 0.6 mm 0.6 mm 0.6 mm 0.6 mm 0.6 mm	5.00 mm 3.50 mm 4.00 mm 4.25 mm 4.50 mm 5.00 mm	1.0 mm 1.0 mm 1.0 mm 1.0 mm 1.0 mm 1.0 mm

WELL - DIA	Richards Fluoroplastic		landle Pro	stheses
	Cat. No.	Piston Diameter	Functional Length	Well Diameter
FUNCTIONAL LENGTH	142148 142150 142152 142154	0.4 mm 0.4 mm 0.4 mm 0.4 mm	3.50 mm 4.00 mm 4.50 mm 5.00 mm	1.0 mm 1.0 mm 1.0 mm 1.0 mm
-DIAI-	142132 142134 142136 142138	0.6 mm 0.6 mm 0.6 mm 0.6 mm	3.50 mm 4.00 mm 4.50 mm 5.00 mm	1.0 mm 1.0 mm 1.0 mm 1.0 mm

MALLEUS TO FOOTPLATE PISTONS



	C		Shea Malleus Fluoroplastic	s Attachmer	ıt Pistons*
	• 1		Cat. No.	Wire Diameter	Functional Length
		FUNCTION- AL LENGTH	140430 140432 140434	0.8 mm 0.8 mm 0.8 mm	4.00 mm 4.50 mm 5.00 mm
			*Designed for John J	. Sheaf, M.D., Memp	ohis, Tennessee
-	DIA.	<u> </u>			

\int		Sheehy-Type Incus Replacement Struts* Stainless Steel			
	FUNCTIONAL I FNGTH	Cat. No.	Wire Diameter	Overall Length	
	LENGTH	140458 140459	0.13 mm 0.13 mm	5.00 mm 5.25 mm	
		140460 140461	0.13 mm 0.13 mm	5.50 mm 5.75 mm	
6	.	140462	0.13 mm	6.00 mm	
~		140463 140464	0.13 mm 0.13 mm	6.25 mm 6.50 mm	
		140465	0.13 mm	6.75 mm	
		*Designed for James and W. Hugh Powers	L. Sheehy, M.D., Los s, M.D., Los Angeles,		

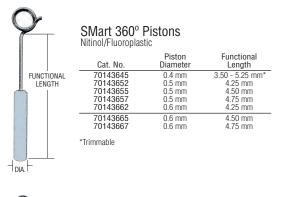
OTOMIMIX ®

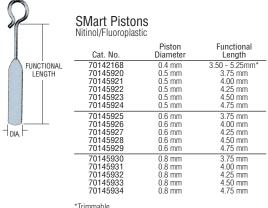
OtoMimix, HA bone cement can be used during revision and primary stapes surgery.



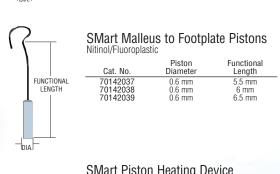
Cat. No.	Description	Units Per Box
70143266	OtoMimix - 2 Gram	1
130725	Rosen needle - sharp	1
130726	Rosen needle - dull	1

SMART® NITINOL TECHNOLOGIES

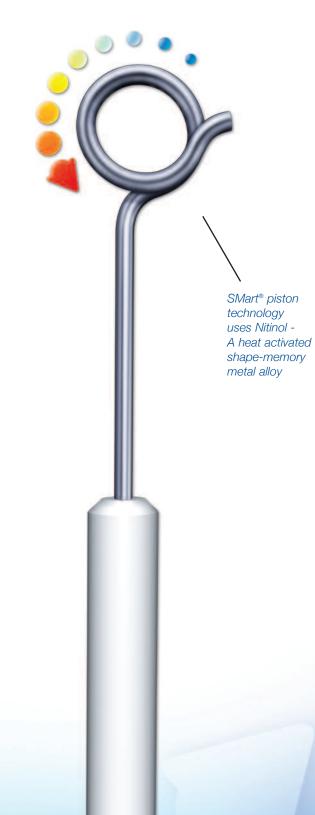




	70145934	0.8 11111	4.75 11111	
	*Trimmable			
SMart De La Cruz Pistons Nitinol/Fluoroplastic				
and the second s	Cat. No.	Piston Diameter	Functional Length	
FUNCTIONAL LENGTH	70142056 70142057 70142057 70142058 70142059	0.6 mm 0.6 mm 0.6 mm 0.6 mm	4 mm 4.25 mm 4.5 mm 4.75 mm	



	SMart Piston Heating Device			
2	Cat. No.	Description	Units Per Box	
	70131012	SMart Thermal	1	
		handle w/AA Battery		
	70131013	SMart Thermal Tip and Drape	6 each	



STAPES ALLOYS & MATERIALS

FLUOROPLASTICS

Fluoroplastics are polymers that are 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. White and blue are the colors used by Olympus.

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 ingrowth into the interconnecting pores of the implant material. The base resin, polyethylene, is known to be a very inert material. The natural white color 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 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 lightweight and MRI compatible.

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