

THE NEW VALUE FRONTIER

A detailed close-up of a hip joint replacement system. The femoral head is a textured, greyish-brown ceramic ball. The acetabular cup is a translucent blue plastic shell with a white liner. A metal femoral neck and stem are visible, extending downwards. The background is black, highlighting the components.

Initia

Total Hip System

KYOCERA Corporation



Initia

Total Hip System

Kyocera GLOB



DESIGN

The Initia femoral stem design is our global model, with Ti-Growth® C porous plasma spray technology as its key feature.



COATING

Gradational coating technology is used on the distal 10-mm length of the porous sprayed area to prevent stress concentration.



AL MODEL



OFFSET

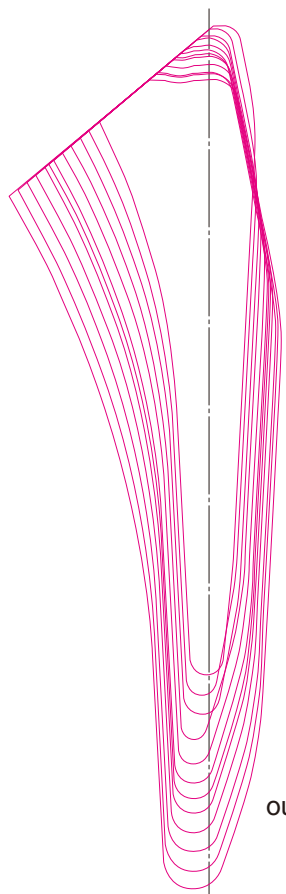
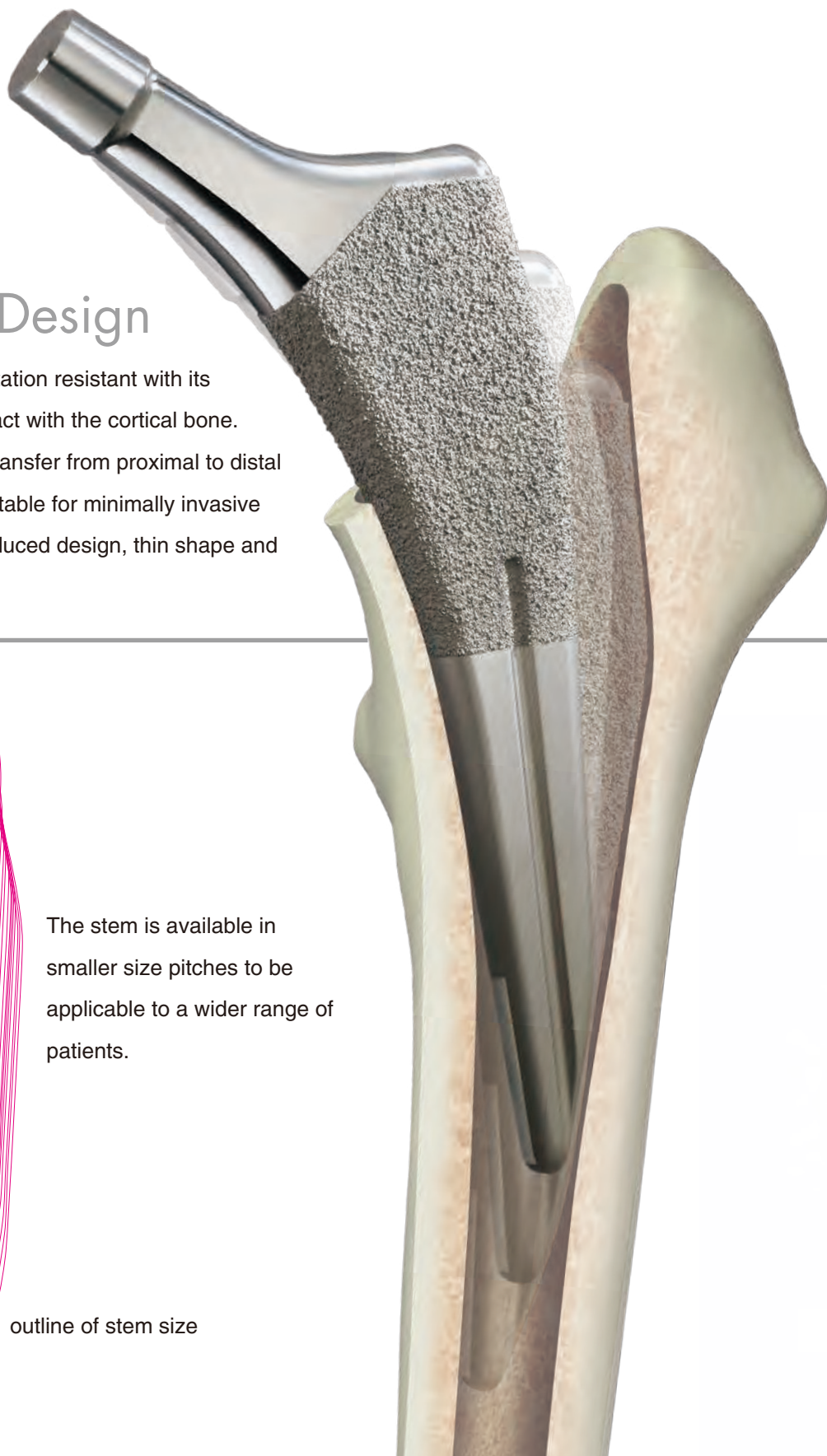
The offset can be increased in the horizontal direction without changing leg length.



Initia Femoral Stem

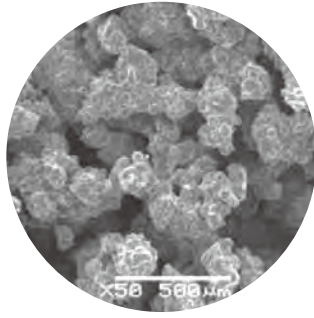
Tapered-wedge Design

The tapered-wedge design stem is rotation resistant with its medial and lateral sides in close contact with the cortical bone. Bone preservation and gradual load transfer from proximal to distal can be achieved. The stem is also suitable for minimally invasive procedures because of its laterally reduced design, thin shape and short length.



The stem is available in smaller size pitches to be applicable to a wider range of patients.

outline of stem size

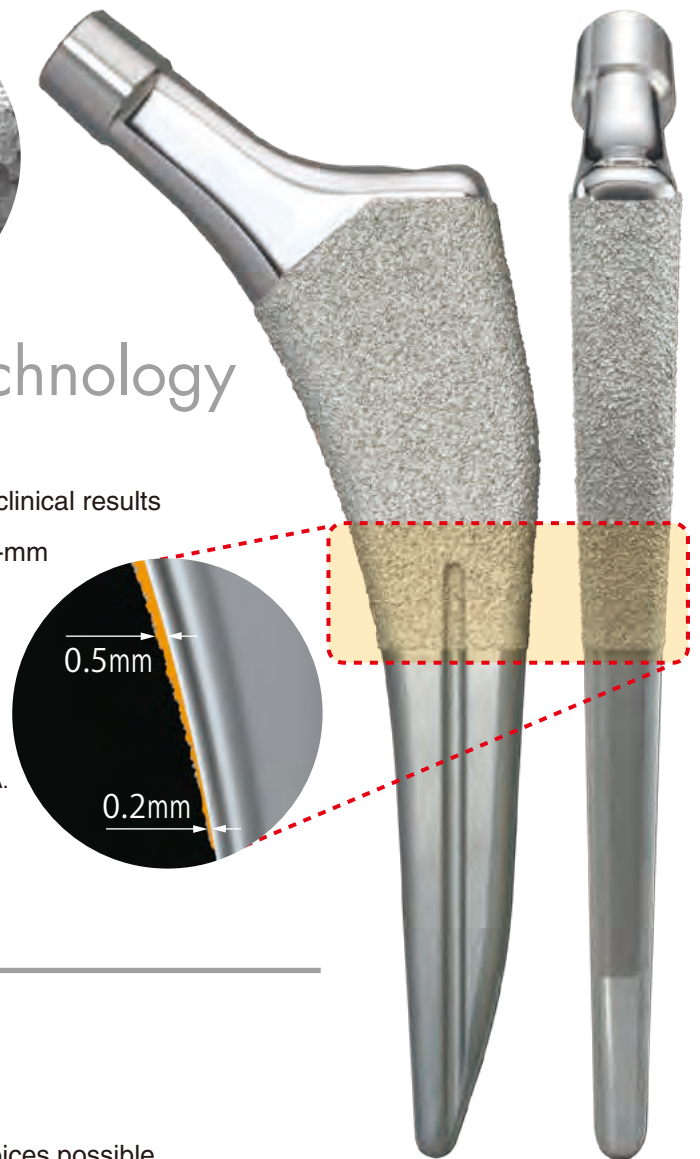


Surface Treatment Technology

Ti-Growth® C*

The used plasma coating technology has proven clinical results globally. The thickness of coating on the distal 10-mm length of sprayed area increases gradationally from distal (0.2 mm) to proximal (0.5 mm) to prevent stress concentration.

* Ti-Growth® C is a registered trademark of Eurocoating S.p.A.



Size Variation

A greater variety of stem sizes make a wider range of stem choices possible intraoperatively. 12 sizes with 2 offset options (STD and HO) are available.



Acetabular Cup System



Initia Acetabular Shell

Initia acetabular shell offers No hole, 3 hole and Multi-hole hemispherical shell. It's polished inner surface minimizes backside wear of polyethylene liner, and the outer surface coated with "Ti-Growth® C" enhances initial stability.

Shell Hole Type



No hole



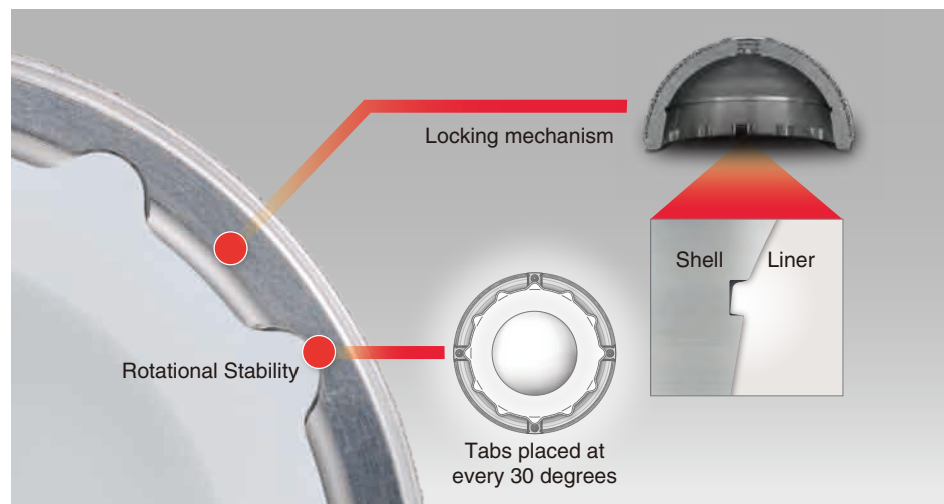
3 hole



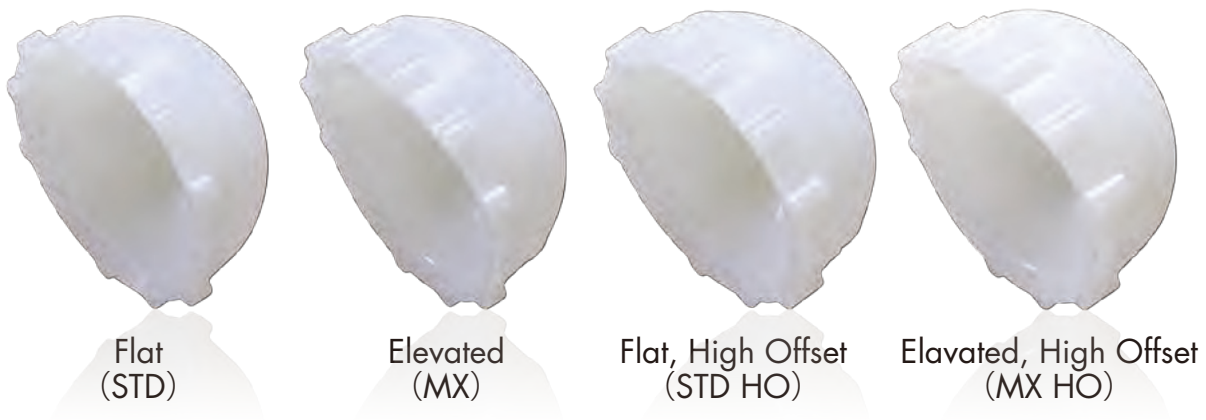
Multi-hole

Initia Acetabular Liner

Initia Acetabular Liner is made of GUR 1020 resin moderately crosslinked at 7.5 Mrad annealed, and sterilized with gas plasma. The locking tabs of the liner fit corresponding locking grooves of the shell to provide rotational stability.



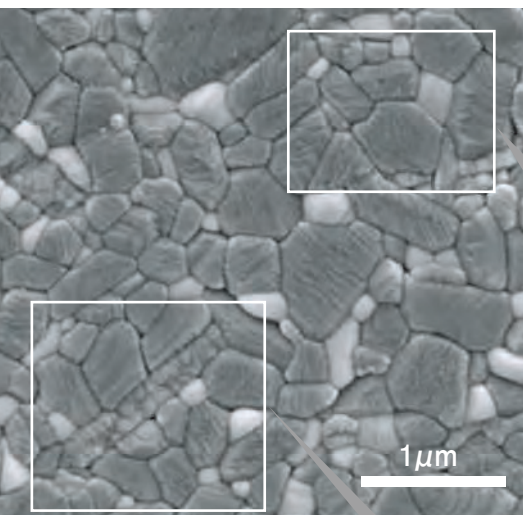
Liner Type



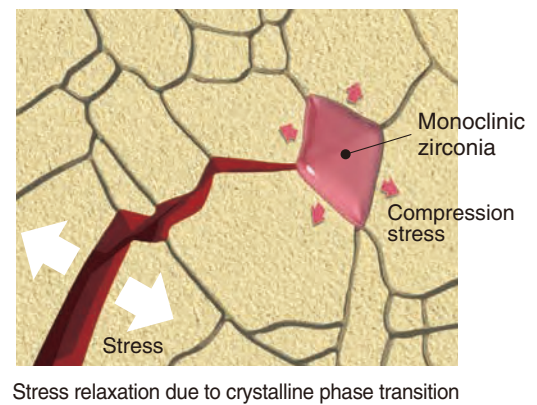
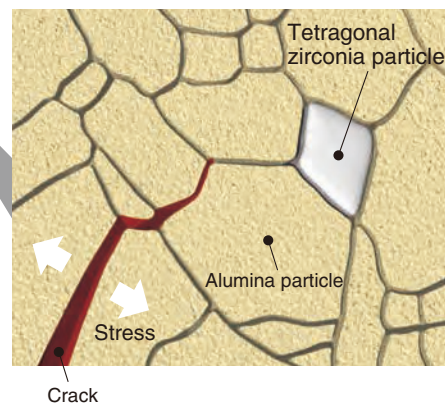
BIOCERAM[®] AZUL Ceramic Head

High Strength and Toughness

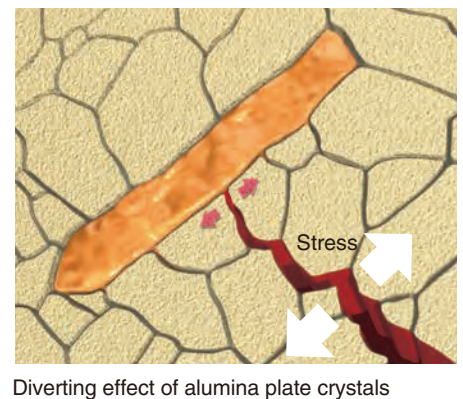
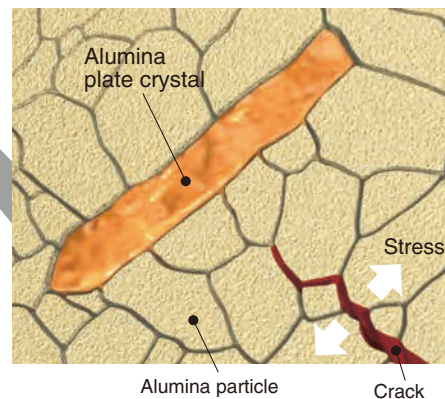
AZUL has high strength and toughness due to the even dispersion of minute crystal grains and zirconia particles. In addition, stress relaxation due to the zirconia particles and the crack diverting effect of alumina plate crystals are also considered factors in its high strength and toughness.



Stress relaxation from crystalline phase transition caused by the even dispersal of zirconia particles



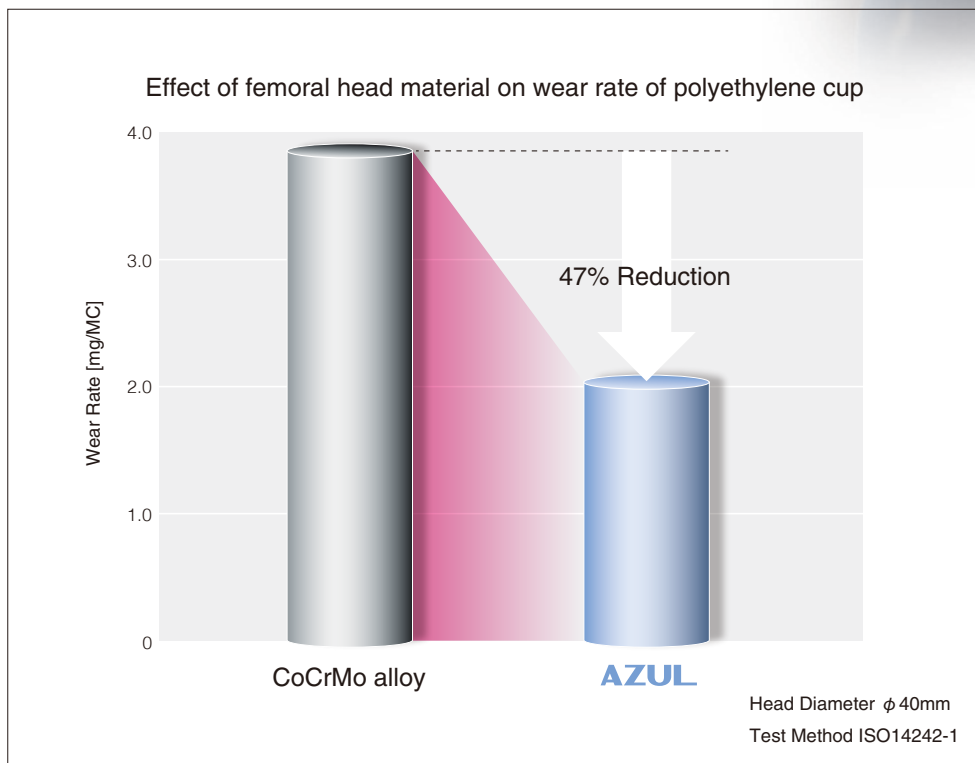
Crack diverting effect of scattered alumina plate crystals





Low Wear


Wear test using a hip simulator was conducted to evaluate the wear characteristics of BIOCERAM® AZUL ceramic head, and it was compared with CoCrMo Alloy.




Tests were conducted with Initia Acetabular Liner.

Ordering Information

Initia Stem

Type	Size	Catalog No.	Description
 <p>STD</p>	1	GMH02-500013	INITIA STEM STD #1
	2	GMH02-500015	INITIA STEM STD #2
	3	GMH02-500017	INITIA STEM STD #3
	4	GMH02-500019	INITIA STEM STD #4
	5	GMH02-500021	INITIA STEM STD #5
	6	GMH02-500023	INITIA STEM STD #6
	6.5	GMH02-500024	INITIA STEM STD #6.5
	7	GMH02-500025	INITIA STEM STD #7
	8	GMH02-500026	INITIA STEM STD #8
	9	GMH02-500027	INITIA STEM STD #9
	10	GMH02-500028	INITIA STEM STD #10
11	GMH02-500029	INITIA STEM STD #11	

Type	Size	Catalog No.	Description
 <p>HO</p>	1	GMH02-500032	INITIA STEM HO #1
	2	GMH02-500034	INITIA STEM HO #2
	3	GMH02-500036	INITIA STEM HO #3
	4	GMH02-500038	INITIA STEM HO #4
	5	GMH02-500040	INITIA STEM HO #5
	6	GMH02-500042	INITIA STEM HO #6
	6.5	GMH02-500043	INITIA STEM HO #6.5
	7	GMH02-500044	INITIA STEM HO #7
	8	GMH02-500045	INITIA STEM HO #8
	9	GMH02-500046	INITIA STEM HO #9
	10	GMH02-500047	INITIA STEM HO #10
11	GMH02-500048	INITIA STEM HO #11	

Material: Titanium Alloy

Metal Head

O/D	Offset	Catalog No.	Description
28	-3.5	GMH03-400006	METAL HEAD 28 -3.5
	0	GMH03-400007	METAL HEAD 28 +0
	3.5	GMH03-400008	METAL HEAD 28 +3.5
32	-3.5	GMH03-400011	METAL HEAD 32 -3.5
	0	GMH03-400012	METAL HEAD 32 +0
	3.5	GMH03-400013	METAL HEAD 32 +3.5
	7	GMH03-400014	METAL HEAD 32 +7
36	-3.5	GMH03-400015	METAL HEAD 36 -3.5
	0	GMH03-400016	METAL HEAD 36 +0
	3.5	GMH03-400017	METAL HEAD 36 +3.5
	7	GMH03-400018	METAL HEAD 36 +7
40	-3.5	GMH03-400021	METAL HEAD 40 -3.5
	0	GMH03-400022	METAL HEAD 40 +0
	3.5	GMH03-400023	METAL HEAD 40 +3.5
	7	GMH03-400024	METAL HEAD 40 +7
	10.5	GMH03-400025	METAL HEAD 40 +10.5



Options

Options

Material: CoCrMo Alloy

BIOCERAM® AZUL Head

O/D	Offset	Catalog No.	Description
28	-3.5	GMH04-400056	AZUL HEAD 28 -3.5
	0	GMH04-400057	AZUL HEAD 28 +0
	3.5	GMH04-400058	AZUL HEAD 28 +3.5
32	-3.5	GMH04-400061	AZUL HEAD 32 -3.5
	0	GMH04-400062	AZUL HEAD 32 +0
	3.5	GMH04-400063	AZUL HEAD 32 +3.5
	7	GMH04-400064	AZUL HEAD 32 +7
36	-3.5	GMH04-400065	AZUL HEAD 36 -3.5
	0	GMH04-400066	AZUL HEAD 36 +0
	3.5	GMH04-400067	AZUL HEAD 36 +3.5
	7	GMH04-400068	AZUL HEAD 36 +7
40	-3.5	GMH04-400071	AZUL HEAD 40 -3.5
	0	GMH04-400072	AZUL HEAD 40 +0
	3.5	GMH04-400073	AZUL HEAD 40 +3.5
	7	GMH04-400074	AZUL HEAD 40 +7






Options

Options

Material: BIOCERAM AZUL

Ordering Information

Initia Shell

Type	Size	Catalog No.	Description			
 <p>Multi-hole</p>	M5 44	GMH02-100003	INITIA SHELL 44-5H	Option		
	M7 46	GMH02-100004	INITIA SHELL 46-7H			
	M7 48	GMH02-100005	INITIA SHELL 48-7H			
	M7 50	GMH02-100006	INITIA SHELL 50-7H			
	M7 52	GMH02-100007	INITIA SHELL 52-7H			
	M7 54	GMH02-100008	INITIA SHELL 54-7H			
	M7 56	GMH02-100009	INITIA SHELL 56-7H			
	M7 58	GMH02-100010	INITIA SHELL 58-7H			
	M7 60	GMH02-100011	INITIA SHELL 60-7H			
	M7 62	GMH02-100012	INITIA SHELL 62-7H			
	M7 64	GMH02-100013	INITIA SHELL 64-7H			
	M7 66	GMH02-100014	INITIA SHELL 66-7H		Options	
	M7 68	GMH02-100015	INITIA SHELL 68-7H			
	M7 70	GMH02-100016	INITIA SHELL 70 7H			
	M7 72	GMH02-100017	INITIA SHELL 72-7H			
	M7 74	GMH02-100018	INITIA SHELL 74-7H			
	 <p>3 hole</p>	CH 44	GMH02-100021			INITIA SHELL 44-3H
		CH 46	GMH02-100022		INITIA SHELL 46-3H	
CH 48		GMH02-100023	INITIA SHELL 48-3H			
CH 50		GMH02-100024	INITIA SHELL 50-3H			
CH 52		GMH02-100025	INITIA SHELL 52-3H			
CH 54		GMH02-100026	INITIA SHELL 54-3H			
CH 56		GMH02-100027	INITIA SHELL 56-3H			
CH 58		GMH02-100028	INITIA SHELL 58-3H			
CH 60		GMH02-100029	INITIA SHELL 60-3H			
CH 62		GMH02-100030	INITIA SHELL 62-3H			
CH 64		GMH02-100031	INITIA SHELL 64-3H			
CH 66		GMH02-100032	INITIA SHELL 66-3H	Options		
CH 68		GMH02-100033	INITIA SHELL 68-3H			
CH 70		GMH02-100034	INITIA SHELL 70 3H			
CH 72		GMH02-100035	INITIA SHELL 72-3H			
CH 74		GMH02-100036	INITIA SHELL 74-3H			
 <p>No hole</p>		NH 44	GMH02-100039		INITIA SHELL 44-NH	Options
		NH 46	GMH02-100040	INITIA SHELL 46-NH		
	NH 48	GMH02-100041	INITIA SHELL 48-NH			
	NH 50	GMH02-100042	INITIA SHELL 50-NH			
	NH 52	GMH02-100043	INITIA SHELL 52-NH			
	NH 54	GMH02-100044	INITIA SHELL 54-NH			
	NH 56	GMH02-100045	INITIA SHELL 56-NH			
	NH 58	GMH02-100046	INITIA SHELL 58-NH			
	NH 60	GMH02-100047	INITIA SHELL 60-NH			
	NH 62	GMH02-100048	INITIA SHELL 62-NH			
	NH 64	GMH02-100049	INITIA SHELL 64-NH			
	NH 66	GMH02-100050	INITIA SHELL 66-NH	Options		
	NH 68	GMH02-100051	INITIA SHELL 68-NH			
	NH 70	GMH02-100052	INITIA SHELL 70-NH			
	NH 72	GMH02-100053	INITIA SHELL 72-NH			
	NH 74	GMH02-100054	INITIA SHELL 74-NH			

Material: Titanium Alloy

Bone Screw

Length	Catalog No.	Description
15	GMH06-900014	BONE SCREW 6.5X15MM
20	GMH06-900015	BONE SCREW 6.5X20MM
25	GMH06-900016	BONE SCREW 6.5X25MM
30	GMH06-900017	BONE SCREW 6.5X30MM
35	GMH06-900018	BONE SCREW 6.5X35MM
40	GMH06-900019	BONE SCREW 6.5X40MM
45	GMH06-900020	BONE SCREW 6.5X45MM
50	GMH06-900021	BONE SCREW 6.5X50MM
55	GMH06-900022	BONE SCREW 6.5X55MM
60	GMH06-900023	BONE SCREW 6.5X60MM



Material: Titanium Alloy

Apical Hole Plug

Catalog No.	Description	
GMH07-900030	APICAL HOLE PLUG	Option

Material: Titanium Alloy



Initia Liner

Type	I/D	O/D	Catalog No.	Description
28	28	44	GMH02-200086	STD LINER 28-44
		46	GMH02-200087	STD LINER 28-46
		48	GMH02-200088	STD LINER 28-48
		50	GMH02-200089	STD LINER 28-50
32	32	46	GMH02-200125	STD LINER 32-46
		48	GMH02-200126	STD LINER 32-48
		50	GMH02-200127	STD LINER 32-50
		52/54	GMH02-200128	STD LINER 32-52/54
		56/58	GMH02-200129	STD LINER 32-56/58
		60/64	GMH02-200130	STD LINER 32-60/64
		66/70	GMH02-200131	STD LINER 32-66/70
36	36	72/74	GMH02-200132	STD LINER 32-72/74
		50	GMH02-200157	STD LINER 36-50
		52/54	GMH02-200158	STD LINER 36-52/54
		56/58	GMH02-200159	STD LINER 36-56/58
		60/64	GMH02-200160	STD LINER 36-60/64
		66/70	GMH02-200161	STD LINER 36-66/70
		72/74	GMH02-200162	STD LINER 36-72/74
40	40	56/58	GMH02-200181	STD LINER 40-56/58
		60/64	GMH02-200182	STD LINER 40-60/64
		66/70	GMH02-200183	STD LINER 40-66/70
		72/74	GMH02-200184	STD LINER 40-72/74



Flat (STD)

Type	I/D	O/D	Catalog No.	Description
28	28	44	GMH02-200106	MX LINER 28-44
		46	GMH02-200107	MX LINER 28-46
		48	GMH02-200108	MX LINER 28-48
		50	GMH02-200109	MX LINER 28-50
32	32	46	GMH02-200141	MX LINER 32-46
		48	GMH02-200142	MX LINER 32-48
		50	GMH02-200143	MX LINER 32-50
		52/54	GMH02-200144	MX LINER 32-52/54
		56/58	GMH02-200145	MX LINER 32-56/58
		60/64	GMH02-200146	MX LINER 32-60/64
		66/70	GMH02-200147	MX LINER 32-66/70
36	36	72/74	GMH02-200148	MX LINER 32-72/74
		50	GMH02-200169	MX LINER 36-50
		52/54	GMH02-200170	MX LINER 36-52/54
		56/58	GMH02-200171	MX LINER 36-56/58
		60/64	GMH02-200172	MX LINER 36-60/64
		66/70	GMH02-200173	MX LINER 36-66/70
		72/74	GMH02-200174	MX LINER 36-72/74
40	40	56/58	GMH02-200189	MX LINER 40-56/58
		60/64	GMH02-200190	MX LINER 40-60/64
		66/70	GMH02-200191	MX LINER 40-66/70
		72/74	GMH02-200192	MX LINER 40-72/74



Elevated (MX)

Initia High Offset Liner

Type	I/D	O/D	Catalog No.	Description
28	28	44	GMH02-200096	STDHO LINER 28-44
		46	GMH02-200097	STDHO LINER 28-46
		48	GMH02-200098	STDHO LINER 28-48
		50	GMH02-200099	STDHO LINER 28-50
32	32	46	GMH02-200133	STDHO LINER 32-46
		48	GMH02-200134	STDHO LINER 32-48
		50	GMH02-200135	STDHO LINER 32-50
		52/54	GMH02-200136	STDHO LINER 32-52/54
		56/58	GMH02-200137	STDHO LINER 32-56/58
		60/64	GMH02-200138	STDHO LINER 32-60/64
		66/70	GMH02-200139	STDHO LINER 32-66/70
36	36	72/74	GMH02-200140	STDHO LINER 32-72/74
		50	GMH02-200163	STDHO LINER 36-50
		52/54	GMH02-200164	STDHO LINER 36-52/54
		56/58	GMH02-200165	STDHO LINER 36-56/58
		60/64	GMH02-200166	STDHO LINER 36-60/64
		66/70	GMH02-200167	STDHO LINER 36-66/70
		72/74	GMH02-200168	STDHO LINER 36-72/74
40	40	56/58	GMH02-200185	STDHO LINER 40-56/58
		60/64	GMH02-200186	STDHO LINER 40-60/64
		66/70	GMH02-200187	STDHO LINER 40-66/70
		72/74	GMH02-200188	STDHO LINER 40-72/74



Flat, High Offset (STD HO)

Type	I/D	O/D	Catalog No.	Description
28	28	44	GMH02-200116	MXHO LINER 28-44
		46	GMH02-200117	MXHO LINER 28-46
		48	GMH02-200118	MXHO LINER 28-48
		50	GMH02-200119	MXHO LINER 28-50
32	32	46	GMH02-200149	MXHO LINER 32-46
		48	GMH02-200150	MXHO LINER 32-48
		50	GMH02-200151	MXHO LINER 32-50
		52/54	GMH02-200152	MXHO LINER 32-52/54
		56/58	GMH02-200153	MXHO LINER 32-56/58
		60/64	GMH02-200154	MXHO LINER 32-60/64
		66/70	GMH02-200155	MXHO LINER 32-66/70
36	36	72/74	GMH02-200156	MXHO LINER 32-72/74
		50	GMH02-200175	MXHO LINER 36-50
		52/54	GMH02-200176	MXHO LINER 36-52/54
		56/58	GMH02-200177	MXHO LINER 36-56/58
		60/64	GMH02-200178	MXHO LINER 36-60/64
		66/70	GMH02-200179	MXHO LINER 36-66/70
		72/74	GMH02-200180	MXHO LINER 36-72/74
40	40	56/58	GMH02-200193	MXHO LINER 40-56/58
		60/64	GMH02-200194	MXHO LINER 40-60/64
		66/70	GMH02-200195	MXHO LINER 40-66/70
		72/74	GMH02-200196	MXHO LINER 40-72/74

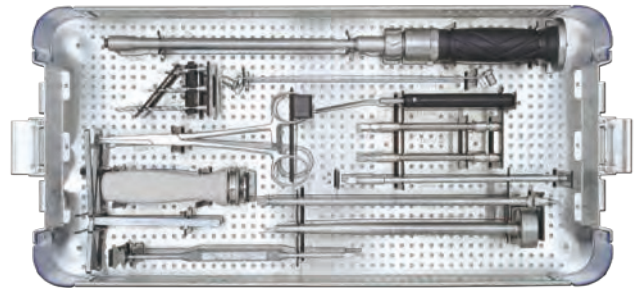


Elevated, High Offset (MX HO)

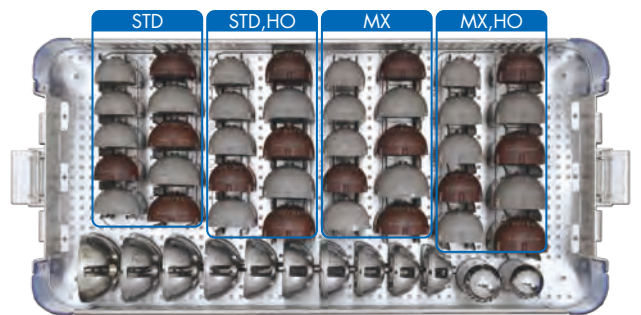
Material: UHMWPE (cross-linked)

Instrument Sets

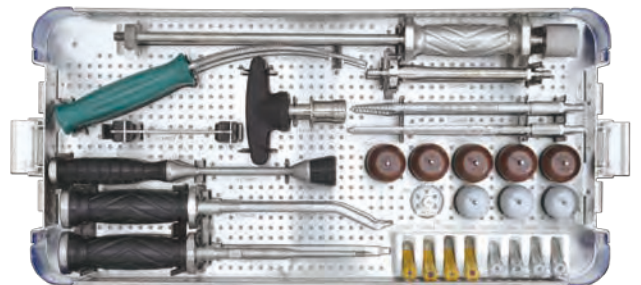
Acetabular Base Tray



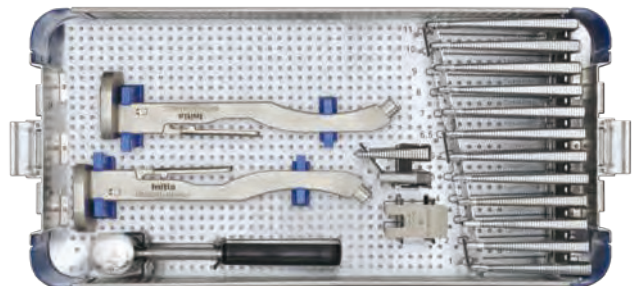
Acetabular Trials Tray



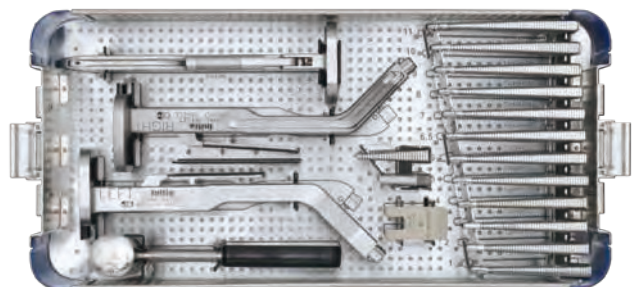
Femoral Base Tray



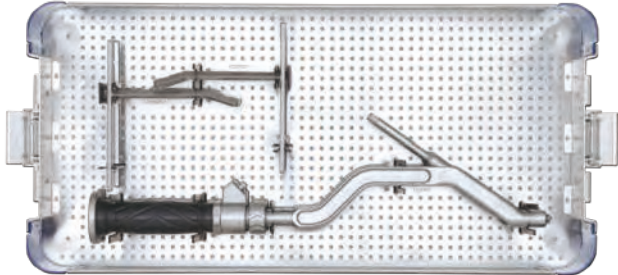
Femoral Broach Tray (1/2)



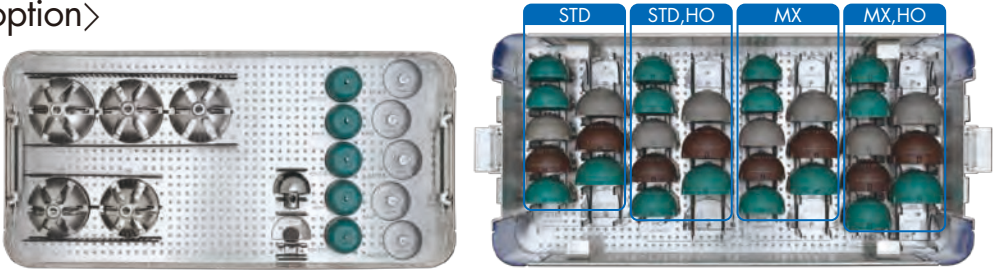
Femoral Broach Tray (2/2) <option>



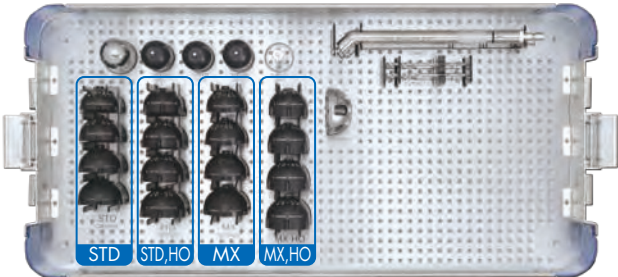
Offset Shell Inserter Tray



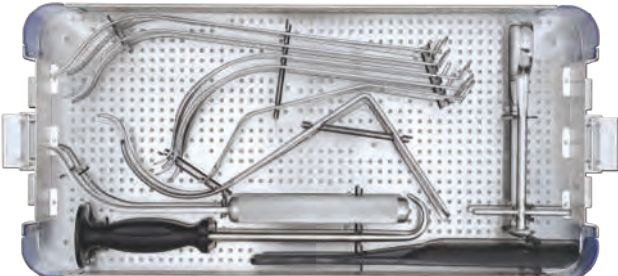
Large Trials Tray <option>



Small Trials Tray <option>



DAA Retractor Tray





KYOCERA Corporation

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<http://kyocera.com>

Patent No.
US 7,148,167 US 7,820,577 US 9,358,321 US 9,358,115 US 9,192,477

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