EXACTECH|**HIP**



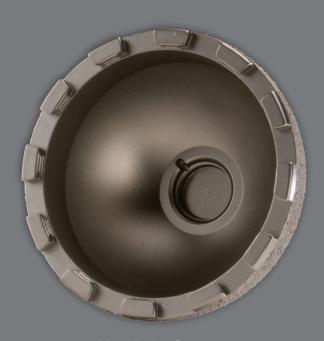




Crown Cup

Renewing Innovations. Enduring Solutions.

Patient-Fit Options

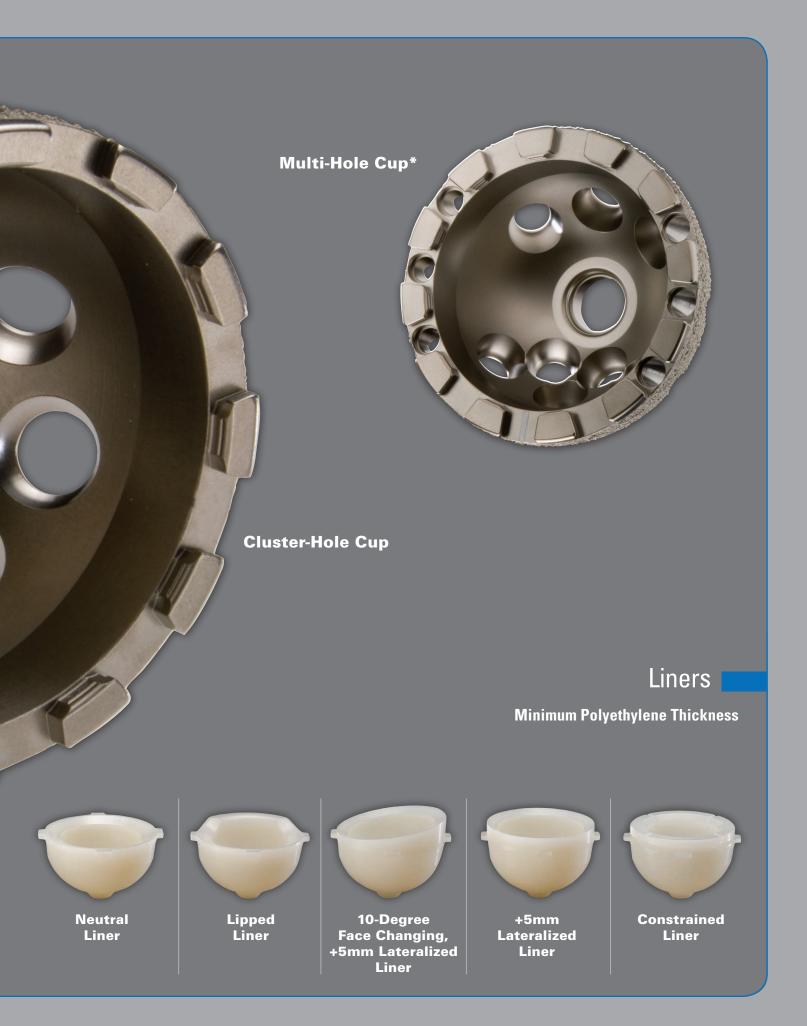


No-Hole Cup

Titanium Plasma Spray Coating
 Promotes excellent 'scratch-fit' for initial stability and proven as a bone friendly on-growth surface



Hemispherical-Plus Design
 Provides for a secure press fit and maximizes
 range of motion



Proven Design... Easy Insertion

Design Features

Design features work together to virtually eliminate micromotion and minimize the potential for backside wear.

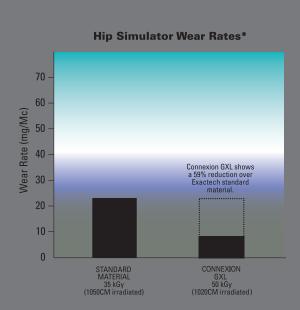


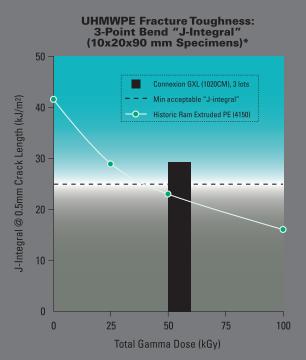


You Don't Get Something for Nothing

Crosslinked Technology

Many manufacturers utilize an extremely high dose of irradiation (up to 100kGy) for reducing the amount of wear debris. This, however, comes at a cost to some of the mechanical properties of this bearing surface – mainly fracture toughness. Connexion GXL® is manufactured with compression molded UHMWPE utilizing two precision split-doses of 25kGy each for a total of 50kGy. This process provides a 59 percent wear reduction over the clinically successful standard Exactech polyethylene while maintaining an acceptable level of fracture toughness.





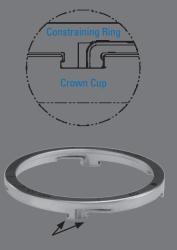
*J. Vernon Luck Orthopaedic Research Center – Dr. Harry McKellop; Data on file at Exactech, Inc.

Stability . . . in Motion

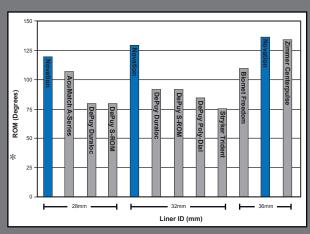
Constrained Liner System

Increased range of motion provides stability and decreased incidence of dislocation.

Most acetabular systems on the market today have constraining mechanisms that were retrofitted to existing cup platforms. The Novation® Crown Cup® constraining mechanism was designed simultaneously to the acetabular shell allowing an optimization of both the leverout value and the range of motion to provide an excellent option for patients that require additional constraint while maximizing the range of motion.



Four snap features actually provide mechanical fixation between the shell and constraining ring.



*These values are a mix of anatomical and click-to-click. Exactech values are unreported.¹⁻⁷

ROM

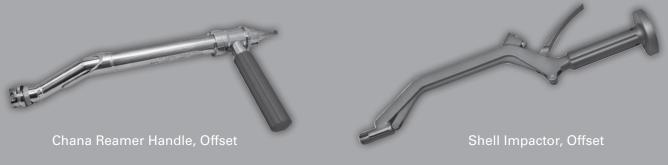
Providing constraint while maintaining excellent range of motion

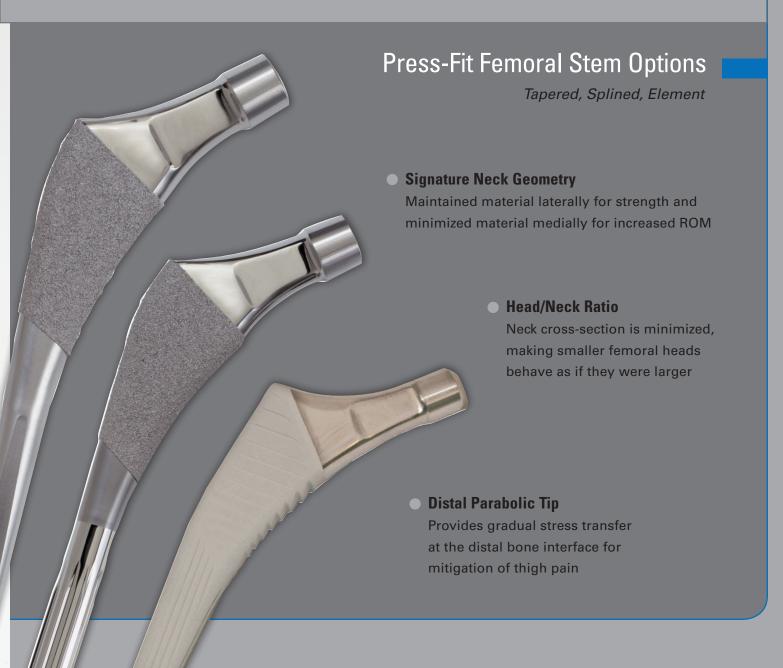
REFERENCES

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- 2. Biomet Freedom Constrained Liner Marketing Literature. http://www.biomet.com/hcp/prodpage.cfm?s=0A06&p=090E00
- Clyburn TA, et al. Constrained acetabular cups: a cadaveric biomechanical evaluation. *J Arthroplasty.* 2003
 Jun;18(4):466-70.
- Etienne G, Ragland PS, Mont MA. Use of constrained acetabular liners in total hip arthroplasty. *Orthopedics*. 2005 May;28(5):463-9.
- Lombardi AV, et al. Preliminary report on the S-ROM constraining acetabular insert: a retrospective clinical experience. Orthopaedics. 1991 Mar;14(3):297-303.
- 6. **Su EP, et al.** The Use of Constrained Acetabular Sockets. *Techniques in Orthopaedics*. 2001;16:237-44.
- 7. Zimmer Website: Epsilon Durasul Constrained Insert. http://www.zimmer.com/z/ctl/op/global/action/1/id/8010/template/MP/prcat/M2/prod/y

Instrumentation to facilitate technique

With intuitive instrumentation, the Novation Acetabular instruments are designed to facilitate a multitude of surgical approaches and muscle-sparing techniques. For soft tissue clearance, Offset options are available for the Reamer Handle, Shell Impactor and Liner Driver. The Shell Impactor utilizes a unique, non-threaded mechanism for easy on/off attachment to the Acetabular Shell.





NOVATION ACETABULAR SHELL CONFIGURATIONS



No-Hole Shell



Cluster-Hole Shell



Multi-Hole Shell (without Rim Fixation option, sizes 48-54mm)



Multi-Hole Shell (with Rim Fixation option, sizes 56-68mm)

NOVATION ACETABULAR SHELL CONFIGURATIONS

Item Number					Item Number
Size	Group	No-Hole	Cluster-Hole	Group	Multi-Hole
48mm	1	180-00-48	180-01-48	1	180-02-48
50mm	'	180-00-50	180-01-50	'	180-02-50
52mm	2	180-00-52	180-01-52		180-02-52
54mm	2	180-00-54	180-01-54	2	180-02-54
56mm	3	180-00-56	180-01-56		180-03-56*
58mm	S	180-00-58	180-01-58		180-03-58*
60mm	4	180-00-60	180-01-60	3	180-03-60*
62mm	4	180-00-62	180-01-62	J	180-03-62*
64mm		180-00-64	180-01-64		180-03-64*
66mm	5	180-00-66	180-01-66	4	180-03-66*
68mm		180-00-68	180-01-68		180-03-68*

Size 40-46mm Cluster-Hole Shells and compatible liners are available as special order.
*Multi-Hole Shells, sizes 56-68mm, have Peripheral Rim Screw holes for additional fixation.

CONSTRAINED LINER OPTIONS

Acetabular Shell Groups	Constrained Liner	Constraining Ring
Group 1	134-28-41	180-03-11
Group 2	134-32-42	180-03-12
Group 3	134-36-43	180-03-13
Group 4	134-36-44	180-03-14
Group 5	134-36-45	180-03-15

NOVATION LINER CONFIGURATIONS









	Liner Options					
Liner Grouping	Neutral	Lipped	+5mm Lateralized	10-Degree Face Changing, +5mm Lateralized		
Group 1	130-28-51	132-28-51	136-28-51 or 136-32-51	138-32-51		
Group 2	130-28-52 or 130-32-52	132-28-52 or 132-32-52	136-32-52 or 136-36-52	138-36-52		
Group 3	130-32-53 or 130-36-53	132-32-53 or 132-36-53	136-32-53 or 136-36-53	138-36-53		
Group 4	130-32-54 or 130-36-54	132-32-54 or 132-36-54	136-32-54 or 136-36-54	138-36-54		
Group 5	130-32-55 or 130-36-55	132-32-55 or 132-36-55	136-32-55 or 136-36-55	138-36-55		

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