

PINNACLE[®]
HIP SOLUTIONS

Performance
INSTRUMENTS

PINNACLE[®] Hip Solutions

Performance Instruments

Instrumentation Guide



The PINNACLE Hip Performance Instruments Advantage

Economic Benefits

The PINNACLE Acetabular Cup System is designed to allow surgeons to match the appropriate technology combination to each patient. The system's clinical success is demonstrated in a large multi-center study and the national joint registries.^{1,2,3} When coupled with the system flexibility and the PINNACLE Performance Instruments, the PINNACLE Acetabular Cup System can provide multiple solutions for both surgeons and patients.

Operative Efficiency

The Smart Kitting of the PINNACLE Hip Performance Instruments enables 95% of PINNACLE Acetabular Shell cases to be completed with only 3 instrument trays for a reduced OR back-table footprint.*⁴ These 3 cases are the PINNACLE Grater Head Case 2220-00-100, PINNACLE Core Case 2220-00-110, and PINNACLE Poly Trial Liner Case 2220-00-120 shown on pages 6 and 7.

Smart Kitting design that enables **95%** of PINNACLE Acetabular Shell System cases to be completed with only **3** trays of instruments⁴



*As compared to PINNACLE Core Kits and QUICKSET™ Grater instrumentation

Instrumentation Guide

Greatbatch Medical®

Offset handle options



Greatbatch®
Offset Impactor



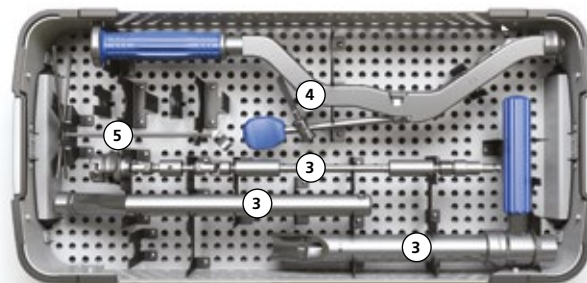
Greatbatch
Offset Reamer Handle

Instrumentation Guide

Optional Instruments

GREATBATCH OFFSET HANDLE CASE

1.	2220-00-210	PINNACLE Offset Handle Case
2.	2545-01-700	PINNACLE Case Lid
3.	2550-00-100	Offset Reamer Handle*
4.	2550-00-115	Offset Cup Impactor*
5.	2550-00-120	20° Alignment Guide*
6.	2550-00-130	Offset Impactor Tip (available to order)*



CROSSBACK ACETABULAR REAMERS

1.	2550-00-036	Crossback Acetabular Reamer 36 mm*
2.	2550-00-037	Crossback Acetabular Reamer 37 mm*
3.	2550-00-038	Crossback Acetabular Reamer 38 mm*
4.	2550-00-039	Crossback Acetabular Reamer 39 mm*
5.	2550-00-040	Crossback Acetabular Reamer 40 mm*
6.	2550-00-041	Crossback Acetabular Reamer 41 mm*
7.	2550-00-042	Crossback Acetabular Reamer 42 mm*
8.	2550-00-043	Crossback Acetabular Reamer 43 mm*
9.	2550-00-044	Crossback Acetabular Reamer 44 mm*
10.	2550-00-045	Crossback Acetabular Reamer 45 mm*
11.	2550-00-046	Crossback Acetabular Reamer 46 mm*
12.	2550-00-047	Crossback Acetabular Reamer 47 mm*
13.	2550-00-048	Crossback Acetabular Reamer 48 mm*
14.	2550-00-049	Crossback Acetabular Reamer 49 mm*
15.	2550-00-050	Crossback Acetabular Reamer 50 mm*
16.	2550-00-051	Crossback Acetabular Reamer 51 mm*
17.	2550-00-052	Crossback Acetabular Reamer 52 mm*
18.	2550-00-053	Crossback Acetabular Reamer 53 mm*
19.	2550-00-054	Crossback Acetabular Reamer 54 mm*
20.	2550-00-055	Crossback Acetabular Reamer 55 mm*
21.	2550-00-056	Crossback Acetabular Reamer 56 mm*
22.	2550-00-057	Crossback Acetabular Reamer 57 mm*
23.	2550-00-058	Crossback Acetabular Reamer 58 mm*

CROSSBACK ACETABULAR REAMERS

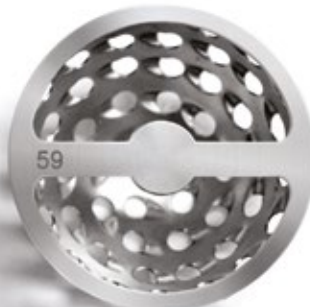
24.	2550-00-059	Crossback Acetabular Reamer 59 mm*
25.	2550-00-060	Crossback Acetabular Reamer 60 mm*
26.	2550-00-061	Crossback Acetabular Reamer 61 mm*
27.	2550-00-062	Crossback Acetabular Reamer 62 mm*
28.	2550-00-063	Crossback Acetabular Reamer 63 mm*
29.	2550-00-064	Crossback Acetabular Reamer 64 mm*
30.	2550-00-065	Crossback Acetabular Reamer 65 mm*
31.	2550-00-066	Crossback Acetabular Reamer 66 mm*
32.	2550-00-067	Crossback Acetabular Reamer 67 mm*
33.	2550-00-068	Crossback Acetabular Reamer 68 mm*
34.	2550-00-069	Crossback Acetabular Reamer 69 mm*
35.	2550-00-070	Crossback Acetabular Reamer 70 mm*
36.	2550-00-071	Crossback Acetabular Reamer 71 mm*
37.	2550-00-072	Crossback Acetabular Reamer 72 mm*
38.	2550-00-073	Crossback Acetabular Reamer 73 mm*
39.	2550-00-074	Crossback Acetabular Reamer 74 mm*
40.	2550-00-075	Crossback Acetabular Reamer 75 mm*
41.	2550-00-076	Crossback Acetabular Reamer 76 mm*
42.	2550-00-077	Crossback Acetabular Reamer 77 mm*
43.	2550-00-078	Crossback Acetabular Reamer 78 mm*
44.	2550-00-079	Crossback Acetabular Reamer 79 mm*
45.	2550-00-080	Crossback Acetabular Reamer 80 mm*
46.	2550-00-140	PINNACLE GB Straight Reamer Handle (Optional)

*Greatbatch Medical legal manufacturer

Instrumentation Guide



Extended Length Straight Grater Handle with "Gator" Connection

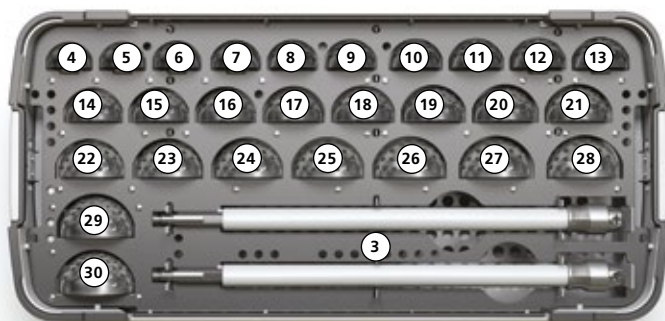


QUICKSET Grater Instruments



Crossback Reamer (optional)

Ordering Information found on page 5



PINNACLE System Grater Head Case

The PINNACLE Symmetry Gator Reamer Handle 2440-00-600*, PINNACLE GB Straight Reamer Handle 2550-00-140** as well as the Symmetry 2440-00-621* and Greatbatch Offset Handles 2550-00-100** all articulate with both the Crossback Acetabular Reamers and QUICKSET Acetabular Grater Heads.

PINNACLE GRATER HEAD CASE		
1.	2220-00-100	PINNACLE Grater Head Case
2.	2545-01-700	PINNACLE Case Lid
3.	2440-00-600	PINNACLE Symmetry Gator Reamer Handle (x 2)*
4.	2440-00-536	QUICKSET Acetabular Grater Head 36 mm
5.	2440-00-537	QUICKSET Acetabular Grater Head 37 mm
6.	2440-00-538	QUICKSET Acetabular Grater Head 38 mm
7.	2440-00-539	QUICKSET Acetabular Grater Head 39 mm
8.	2440-00-540	QUICKSET Acetabular Grater Head 40 mm
9.	2440-00-541	QUICKSET Acetabular Grater Head 41 mm
10.	2440-00-542	QUICKSET Acetabular Grater Head 42 mm
11.	2440-00-543	QUICKSET Acetabular Grater Head 43 mm
12.	2440-00-544	QUICKSET Acetabular Grater Head 44 mm
13.	2440-00-545	QUICKSET Acetabular Grater Head 45 mm
14.	2440-00-546	QUICKSET Acetabular Grater Head 46 mm
15.	2440-00-547	QUICKSET Acetabular Grater Head 47 mm
16.	2440-00-548	QUICKSET Acetabular Grater Head 48 mm
17.	2440-00-549	QUICKSET Acetabular Grater Head 49 mm
18.	2440-00-550	QUICKSET Acetabular Grater Head 50 mm
19.	2440-00-551	QUICKSET Acetabular Grater Head 51 mm
20.	2440-00-552	QUICKSET Acetabular Grater Head 52 mm
21.	2440-00-553	QUICKSET Acetabular Grater Head 53 mm
22.	2440-00-554	QUICKSET Acetabular Grater Head 54 mm
23.	2440-00-555	QUICKSET Acetabular Grater Head 55 mm
24.	2440-00-556	QUICKSET Acetabular Grater Head 56 mm
25.	2440-00-557	QUICKSET Acetabular Grater Head 57 mm
26.	2440-00-558	QUICKSET Acetabular Grater Head 58 mm
27.	2440-00-559	QUICKSET Acetabular Grater Head 59 mm
28.	2440-00-560	QUICKSET Acetabular Grater Head 60 mm
29.	2440-00-561	QUICKSET Acetabular Grater Head 61 mm
30.	2440-00-562	QUICKSET Acetabular Grater Head 62 mm

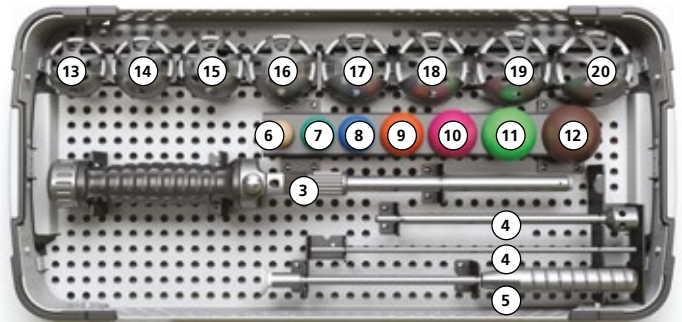
*Symmetry legal manufacturer

**Greatbatch Medical legal manufacturer

Instrumentation Guide

PINNACLE CORE CASE

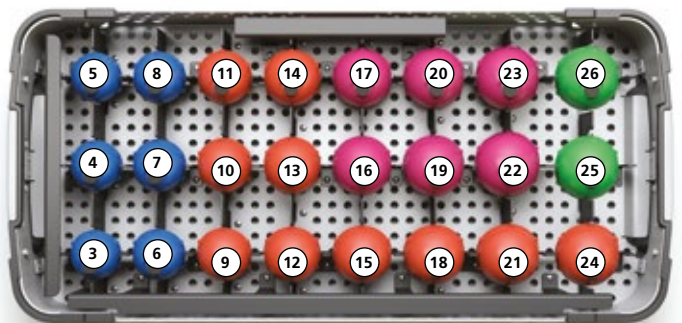
1.	2220-00-110	PINNACLE Core Case
2.	2545-01-700	PINNACLE Case Lid
3.	2217-50-041	PINNACLE Straight Cup Impactor
4.	2217-50-044	PINNACLE Version Guide
5.	2217-00-020	Alternate Bearing Suction Cup Inserter
	9599-10-000	Replacement Suction Cup Tip
6.	2217-50-004	PINNACLE Cup Impactor Tip 22.225 mm
7.	2217-50-006	PINNACLE Cup Impactor Tip 28 mm
8.	2217-50-007	PINNACLE Cup Impactor Tip 32 mm
9.	2217-50-008	PINNACLE Poly Impactor Tip 36 mm
13.	2217-01-047/48	PINNACLE Trial Shell 47 / 48 Std Profile
14.	2217-01-049/50	PINNACLE Trial Shell 49 / 50 Std Profile
15.	2217-01-051/52	PINNACLE Trial Shell 51 / 52 Std Profile
16.	2217-01-053/54	PINNACLE Trial Shell 53 / 54 Std Profile
17.	2217-01-055/56	PINNACLE Trial Shell 55 / 56 Std Profile
18.	2217-01-057/58	PINNACLE Trial Shell 57 / 58 Std Profile
19.	2217-01-059/60	PINNACLE Trial Shell 59 / 60 Std Profile
20.	2217-01-061/62	PINNACLE Trial Shell 61 / 62 Std Profile
Tray will accept even OR odd trials		
	2217-00-002	PINNACLE Primary Template



PINNACLE System Core Case

PINNACLE SYSTEM POLY TRIAL LINER CASE

1.	2220-00-120	PINNACLE Poly Trial Case
2.	2545-01-700	PINNACLE Case Lid

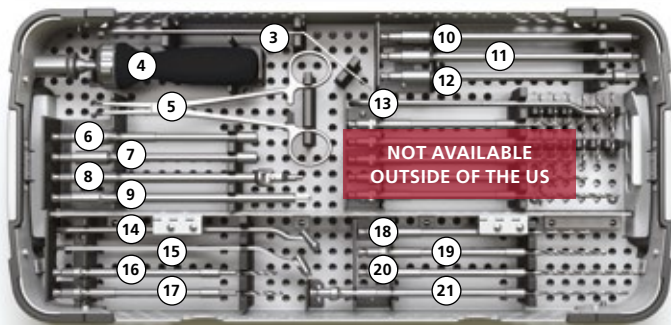
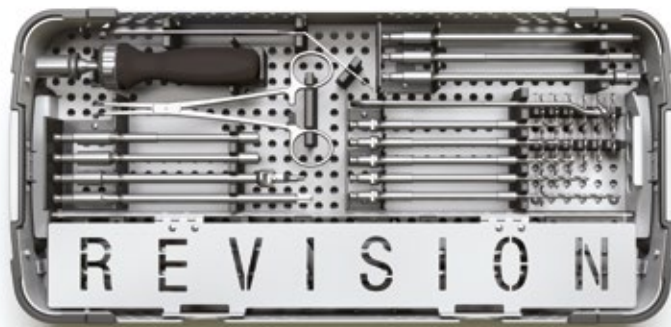


PINNACLE System Poly Trial Liner Case

Each PINNACLE Poly Trial Liner Case will accept 24 liner trials
i.e. 3 sets of sizes 48-62 OD

(The final configuration will be market specific)

Instrumentation Guide



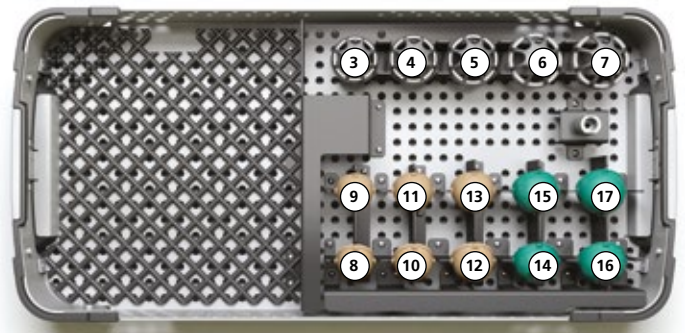
PINNACLE System Screw Set Case

PINNACLE SCREW SET CASE		
1.	2220-00-130	PINNACLE Screw Set Case
2.	2545-01-700	PINNACLE Case Lid
3.	2274-60-000	QUICKSET Depth Gauge 70 mm
4.	2274-02-000	QUICKSET Ratchet Screwdriver Handle
5.	2274-55-000	Screw Holding Forcep
6.	2274-52-000	QUICKSET Flex Dr Sft Qck Cple
7.	2274-53-000	QUICKSET Rgd Dr Sft Qck Cple
8.	2274-63-000	QUICKSET Tprd Hex Scdr U-Joint
9.	2274-50-000	QUICKSET Screwdriver Cross Hd
10.	2274-47-000	QUICKSET Taper Hex Screwdriver Rigid
11.	2274-48-000	QUICKSET Taper Hex Screwdriver Flex
12.	2274-49-000	QUICKSET Taper Hex Screwdriver Cardan
13.	2274-54-500	QUICKSET Drill Guide II 3.8 mm
14.	2274-82-000	PINNACLE Revision Dome Drill Guide
15.	2274-80-000	PINNACLE Revision Periph Drill Guide
16.	2274-25-800	PINNACLE Revision Dome Drill 25 mm
17.	2274-30-800	PINNACLE Revision Dome Drill 30 mm
18.	2274-35-800	PINNACLE Revision Dome Drill 35 mm
19.	2274-45-800	PINNACLE Revision Dome Drill 45 mm
20.	2274-70-800	PINNACLE Revision Dome Drill 70 mm
21.	2274-81-000	PINNACLE Revision Periph Drill
	2220-00-135	Drill Bit Caddy
	2274-56-000	QUICKSET 3.8 mm Diameter Drill Bit 25 mm
	2274-57-000	QUICKSET 3.8 mm Diameter Drill Bit 40 mm
	2274-58-000	QUICKSET 3.8 mm Diameter Drill Bit 55 mm
	2274-59-000	QUICKSET 3.8 mm Diameter Drill Bit 70 mm

Instrumentation Guide

PINNACLE BANTAM CASE

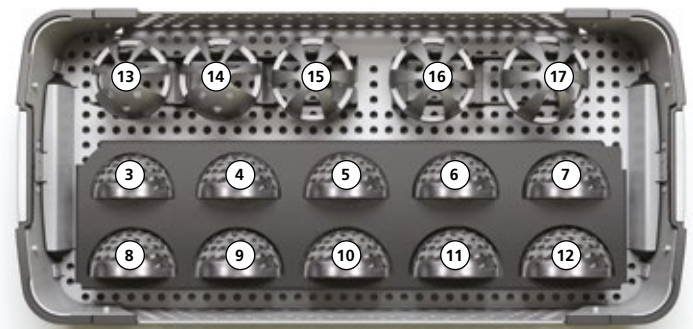
1.	2220-00-140	PINNACLE Bantam Case
2.	2545-01-700	ATTUNE®/PINNACLE Case Lid
3.	2217-01-038/37	Trial Shell 38 Std Profile
4.	2217-01-040/39	Trial Shell 40 Std Profile
5.	2217-01-042/41	Trial Shell 42 Std Profile
6.	2217-01-044/43	Trial Shell 44 Std Profile
7.	2217-01-046/45	Trial Shell 46 Std Profile
Tray will accept even QR odd trials		
8.	2218-22-038	Poly Trial Liner 38ODX22.225ID Neutral
9.	2218-22-040	Poly Trial Liner 40ODX22.225ID Neutral
10.	2218-22-042	Poly Trial Liner 42ODX22.225ID Neutral
11.	2218-28-044	Poly Trial Liner 44ODX28ID Neutral
12.	2218-28-046	Poly Trial Liner 46ODX28ID Neutral
13.	2217-50-048	PINNACLE Bantam Cup Impactor Adapt
14.	2218-28-144	28 mm +4 10 Poly Trial 44OD
15.	2218-28-146	28 mm +4 10Deg Poly Trial OD 46 mm
16.	2218-89-144	28 mm Alternate Bearing Insert Trial OD 44 mm
17.	2218-89-146	28 mm Alternate Bearing Insert Trial OD 46 mm



PINNACLE System Bantam Case

PINNACLE LARGE GRATER / SHELL TRIAL CASE

1.	2220-00-160	PINNACLE Large Grater / Shell Trial Case
2.	2545-01-700	PINNACLE Case Lid
3.	2440-00-563	QUICKSET Acetabular Grater Head 63 mm
4.	2440-00-564	QUICKSET Acetabular Grater Head 64 mm
5.	2440-00-565	QUICKSET Acetabular Grater Head 65 mm
6.	2440-00-566	QUICKSET Acetabular Grater Head 66 mm
7.	2440-00-567	QUICKSET Acetabular Grater Head 67 mm
8.	2440-00-568	QUICKSET Acetabular Grater Head 68 mm
9.	2440-00-569	QUICKSET Acetabular Grater Head 69 mm
10.	2440-00-570	QUICKSET Acetabular Grater Head 70 mm
11.	2440-00-571	QUICKSET Acetabular Grater Head 71 mm
12.	2440-00-572	QUICKSET Acetabular Grater Head 72 mm
13.	2217-01-063 / 64	PINNACLE Shell Trial 63 / 64 Std Profile
14.	2217-01-065 / 66	PINNACLE Shell Trial 65 / 66 Std Profile
Tray will accept even QR odd trials		
15.	2217-01-067	PINNACLE Shell Trial 67 Std Profile
16.	2217-01-069	PINNACLE Shell Trial 69 Std Profile
17.	2217-01-071	PINNACLE Shell Trial 71 Std Profile

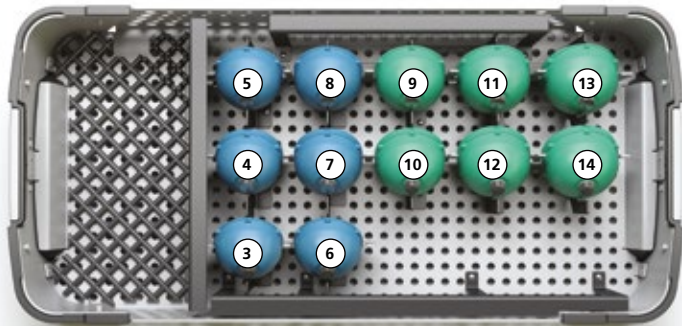


PINNACLE System Large Grater / Shell Trial Case

Crossback Reamers (optional)

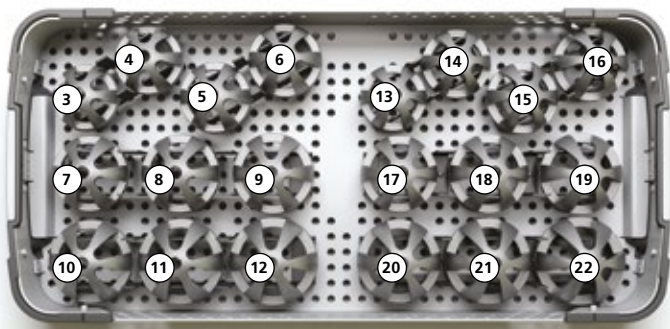
Ordering Information found on page 5

Instrumentation Guide



PINNACLE System Large Poly Trial Case
 Please order 64 and 66 mm OD liner trials as required
 (The configurations pictured is an example only)

PINNACLE LARGE POLY TRIAL CASE		
1.	2220-00-170	PINNACLE Large Poly Trial Case
2.	2545-01-700	ATTUNE/PINNACLE Case Lid
3.	2218-00-068	PINNACLE Revision Liner Spacer Trial 68 mm
4.	2218-00-070	PINNACLE Revision Liner Spacer Trial 70 mm
5.	2218-00-072	PINNACLE Revision Liner Spacer Trial 72 mm
6.	2218-00-074	PINNACLE Revision Liner Spacer Trial 74 mm
7.	2218-00-076	PINNACLE Revision Liner Spacer Trial 76 mm
8.	2218-28-000	PINNACLE Trial Liner Bearing 28 Neutral
9.	2218-28-100	PINNACLE Trial Liner Bearing 28 +4 10D
10.	2218-28-200	PINNACLE Trial Liner Bearing 28 Lip
11.	2218-28-400	PINNACLE Trial Liner Bearing 28 +4 Neutral
12.	2218-32-000	PINNACLE Trial Liner Bearing 32 Neutral
13.	2218-32-100	PINNACLE Trial Liner Bearing 32 +4 10D
14.	2218-32-200	PINNACLE Trial Liner Bearing 32 Lip
	2218-32-400	PINNACLE Trial Liner Bearing 32 +4 Neutral
	2218-36-000	PINNACLE Trial Liner Bearing 36 Neutral
	2218-36-100	PINNACLE Trial Liner Bearing 36 +4 10D
	2218-36-400	PINNACLE Trial Liner Bearing 36 +4 Neutral



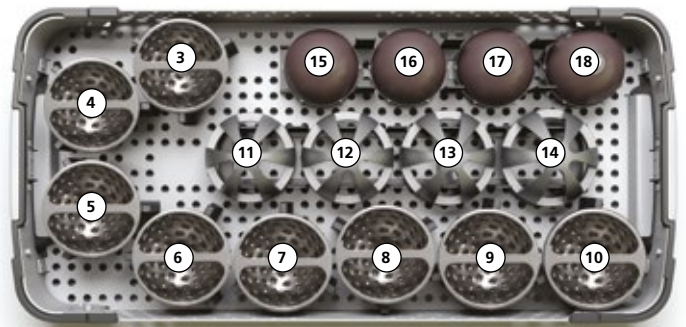
PINNACLE System Revision Shell Trial Case

PINNACLE REVISION SHELL TRIAL CASE		
1.	2220-00-180	PINNACLE Revision Shell Trial Case
2.	2545-01-700	PINNACLE Case Lid
3.	2217-06-053	PINNACLE Revision Shell Trial 53 Standard Profile
4.	2217-06-055	PINNACLE Revision Shell Trial 55 Standard Profile
5.	2217-06-057	PINNACLE Revision Shell Trial 57 Standard Profile
6.	2217-06-059	PINNACLE Revision Shell Trial 59 Standard Profile
7.	2217-06-061	PINNACLE Revision Shell Trial 61 Standard Profile
8.	2217-06-063	PINNACLE Revision Shell Trial 63 Standard Profile
9.	2217-06-065	PINNACLE Revision Shell Trial 65 Standard Profile
10.	2217-06-067	PINNACLE Revision Shell Trial 67 Standard Profile
11.	2217-06-069	PINNACLE Revision Shell Trial 69 Standard Profile
12.	2217-06-071	PINNACLE Revision Shell Trial 71 Standard Profile
13.	2217-07-053	PINNACLE Revision Shell Trial 53 Deep Profile
14.	2217-07-055	PINNACLE Revision Shell Trial 55 Deep Profile
15.	2217-07-057	PINNACLE Revision Shell Trial 57 Deep Profile
16.	2217-07-059	PINNACLE Revision Shell Trial 59 Deep Profile
17.	2217-07-061	PINNACLE Revision Shell Trial 61 Deep Profile
18.	2217-07-063	PINNACLE Revision Shell Trial 63 Deep Profile
19.	2217-07-065	PINNACLE Revision Shell Trial 65 Deep Profile
20.	2217-07-067	PINNACLE Revision Shell Trial 67 Deep Profile
21.	2217-07-069	PINNACLE Revision Shell Trial 69 Deep Profile
22.	2217-07-071	PINNACLE Revision Shell Trial 71 Deep Profile

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PINNACLE REVISION XL GRATER / TRIAL CASE

1.	2220-00-190	PINNACLE Revision XL Grater / Trial Case
2.	2545-01-700	ATTUNE/ PINNACLE Case Lid
3.	2440-00-573	QUICKSET Acetabular Grater Head 73 mm
4.	2440-00-574	QUICKSET Acetabular Grater Head 74 mm
5.	2440-00-575	QUICKSET Acetabular Grater Head 75 mm
6.	2440-00-576	QUICKSET Acetabular Grater Head 76 mm
7.	2440-00-577	QUICKSET Acetabular Grater Head 77 mm
8.	2440-00-578	QUICKSET Acetabular Grater Head 78 mm
9.	2440-00-579	QUICKSET Acetabular Grater Head 79 mm
10.	2440-00-580	QUICKSET Acetabular Grater Head 80 mm
11.	2217-06-073	PINNACLE Revision Shell Trial 73 Standard
12.	2217-06-075	PINNACLE Revision Shell Trial 75 Standard
13.	2217-06-077	PINNACLE Revision Shell Trial 77 Standard
14.	2217-06-079	PINNACLE Revision Shell Trial 79 Standard
Optional		
15.	2218-48-474	PINNACLE Trial Liner Neutral +4 48ID 74OD
16.	2218-48-174	PINNACLE Trial Liner 10° +4 48ID 74OD
17.	2218-48-476	PINNACLE Trial Liner Neutral +4 48ID 76OD
18.	2218-48-176	PINNACLE Trial Liner 10° +4 48ID 76OD



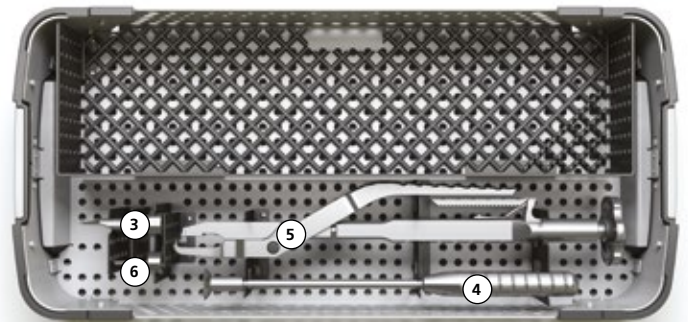
PINNACLE System Revision XL Grater / Trial Case

Crossback Reamers (optional)

Ordering Information found on page 5

PINNACLE BEARING REMOVAL CASE

1.	2220-00-200	PINNACLE Bearing Removal Case
2.	2545-01-700	PINNACLE Case Lid
3.	2217-50-001	PINNACLE Constrained Liner Extractor
4.	2217-00-020	Alternate Bearing Suction Cup Inserter
5.	2218-00-010	PINNACLE Poly Extractor
6.	2217-60-120	PINNACLE Alternate Bearing Tamp Extractor
	9599-10-000	Replacement Suction Cup



PINNACLE System Bearing Removal Case

References:

1. National Joint Registry for England, Wales, Northern Ireland and the Isle of Man, 13th Annual Report, 2016. Table 3.8. Available from www.njrreports.org.uk
2. Barrett W, Kindsfater K, Dowd J, and Lesko J. Ten Year THA Survivorship with a Modular Cup: Results of a Large Multi-Center Study. Abstract Submitted, International Congress for Joint Reconstruction meeting, January 17, 2014.
3. Australian Orthopaedic Association National Joint Replacement Registry. Annual Report. Adelaide: AOA; 2016. Available from URL: <https://aoanjrr.sahmri.com/annual-reports-2016>. Extracted from Table TY1.

Table TY1 Cumulative Percent Revision of Primary Total Conventional Hip Replacement Combinations with 10 Year Data (Primary Diagnosis OA)

Femoral Stem	Acetabular Component	N Revised	N Total	Type of Revision			1 Yr	5 Yrs	10 Yrs	
				THR	Femoral	Acetabular				Other
Corail	Pinnacle	740	29292	70	234	117	319	1.6 (1.5, 1.8)	3.0 (2.8, 3.2)	4.9 (4.3, 5.7)

4. Data on file, PINNACLE size analysis report 2013.
5. Campbell B. Containerizing Orthopaedic instrument sets save labor, money and time. Reprinted from January 1, 2005. Aesculap, Inc.
6. SurgicalProductsMag.com. Going from Blue to Green. April, 2011. Retrieved from: http://www.carefusion.com/pdf/Surgical_Instrumentation/genesis-going-green-article.pdf.

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