



# U2™ Knee

Total Knee System



## U2 Knee –

The U2 Knee system is a comprehensive and organized total knee system designed to restore knee function throughout a full range of motion.

The U2 Knee system provides full interchangeability and multiple fixed-bearing insert options. In addition to the commonly used CR and PS type inserts, U2 Knee system offers ultracongruent insert options, in order to offer more extensive choices for broader patient morphological demands.

The tibial baseplate is available for varying levels of bony defects and fixation preferences in the following options – cemented type, augmentable type and TPS PLUS type.

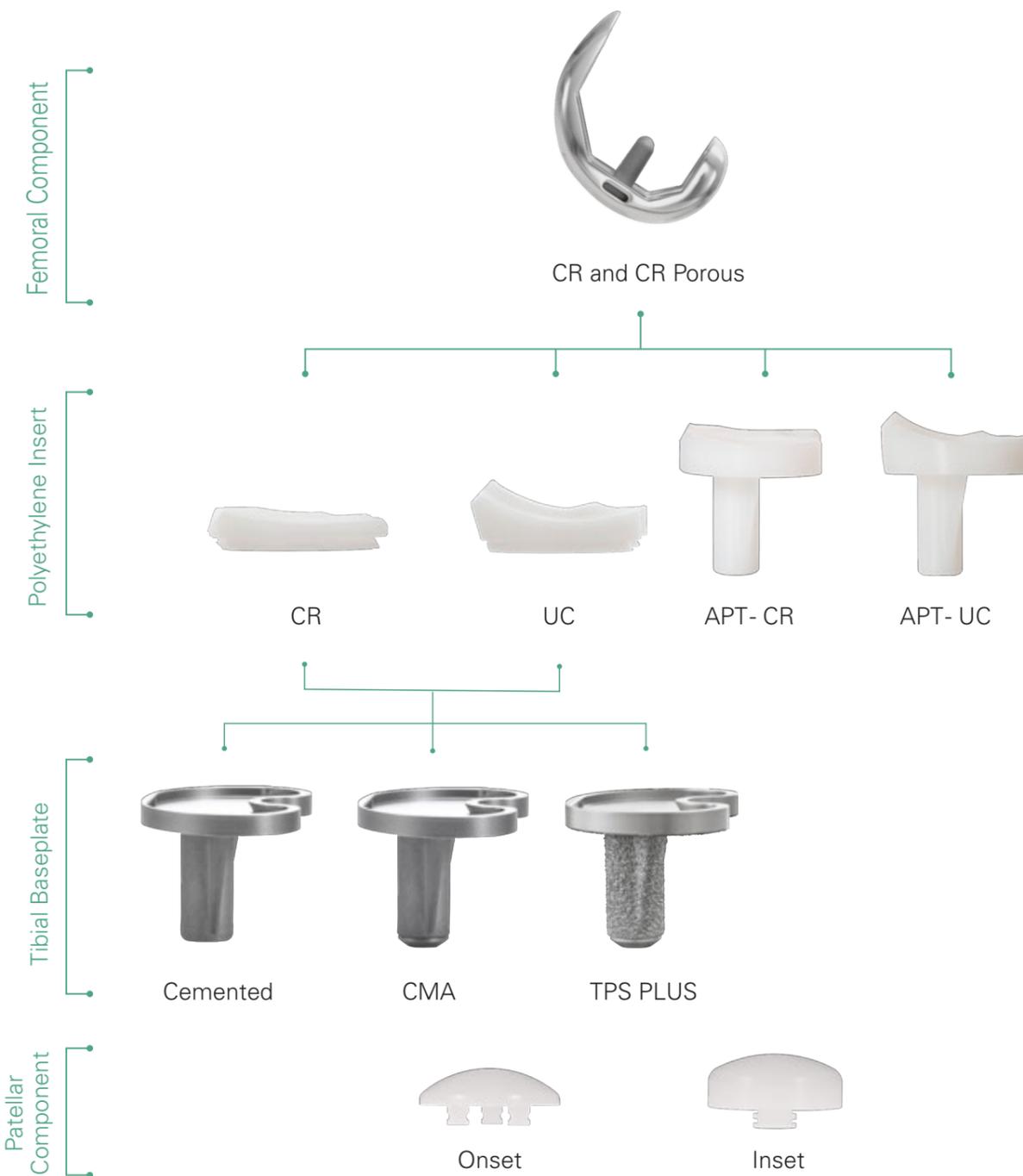
APT (All poly tibial component), which is made of polyethylene, provides surgeons with alternative options to accommodate different patient demands.



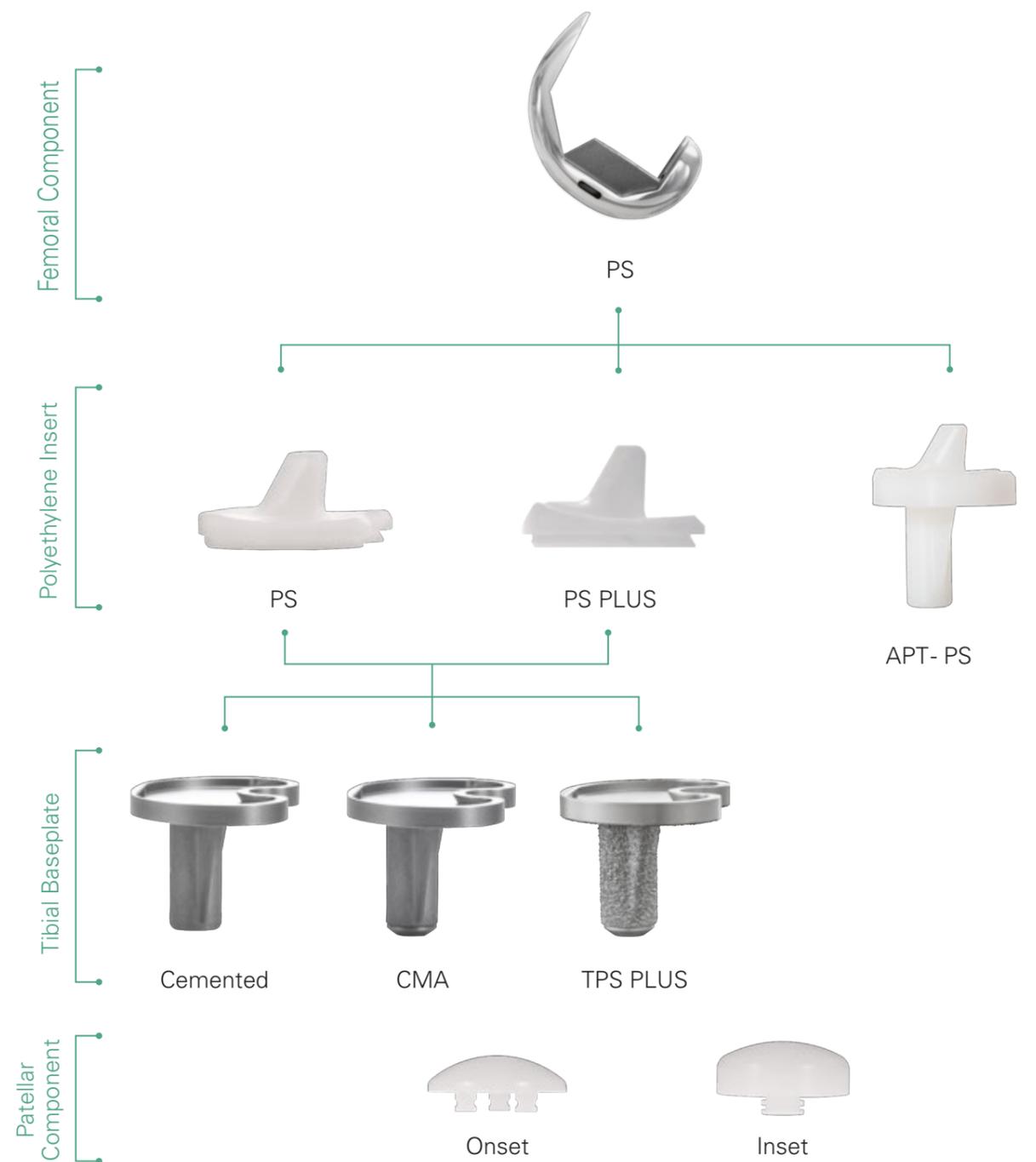
# Consistency in U2 Knee System over Time

Consistent condylar curvature and intercondylar width allows fully interchangeability between femoral and tibial components.

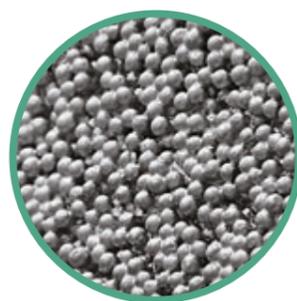
## Cruciate Retaining (CR)



## Posterior Stabilized (PS)



The PS (posterior stabilized) and CR (curciate retaining) femoral components have the same design features, including 2 mm A/P and M/L increments, extended patella groove, and consistent intercondylar width.



CR Porous with sintered CoCrMo beads coating supports secure cementless fixation.



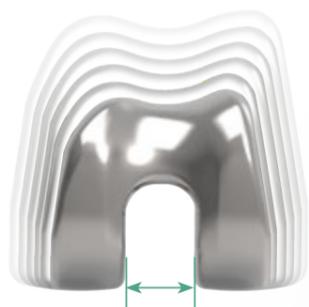
The extended patella groove is designed with increased contact area between the patella and femoral implants to allow for optimal patella tracking.



Smaller intercondylar bone removal together with rounded corners help avoid the risk of intercondylar fracture for PS box preparation.



The curved anterior insert post and PS femoral cam is designed to reduce potential for impingement, component failure and poly wear.



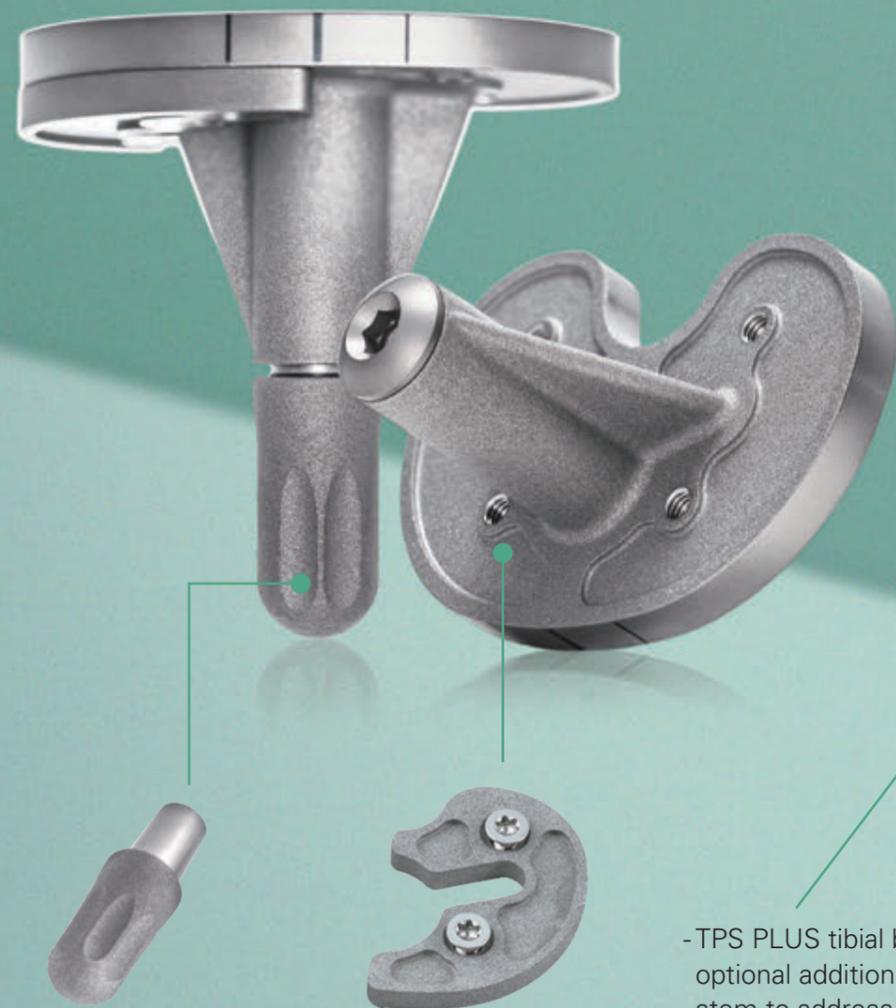
Consistent condylar curvature and standard intercondylar box width (in PS knee) allows full interchangeability between femoral and tibial components.



PS and CR femoral components are offered in 2 mm A/P and M/L increments to provide a comprehensive femoral sizing solution.



# Cemented Modular Augmentable (CMA)

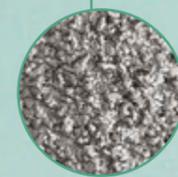


- CMA tibial baseplate allows the optional addition of 5 & 10 mm augments and 30 mm extension stem to address moderate tibial bone defects

# Titanium Plasma Spray PLUS (TPS PLUS)



- TPS PLUS tibial baseplate allows the optional addition 30 mm extension stem to address moderate tibial bone defects



- Titanium Plasma Spray PLUS coating designed to improve biological fixation

# Cemented



- Cemented tibial baseplate with rough surface and cement recess to promote optimal cement fixation

# PS and CR Inserts

5° posterior slope built into CR and PS tibial inserts for horizontal tibial resection.

All CR, PS, UC inserts are available in UHMWPE (Ultra High Molecular Weight Polyethylene), XPE (Highly Crosslinked Polyethylene) , E-XPE (Vitamin E Highly Crosslinked Polyethylene).



# UC Insert

Ultracongruent Design

- Accommodates CR femoral component
- The PCL sacrificing surgical technique allows for bone preservation and the potential for a less time consuming procedure
- Up to 14.5 mm prominent anterior lip and a more conforming articulating surface designed to provide joint stability



## Tibial baseplate "one up / one down" size pairing for UC insert

Insert	Tibial Baseplate	Femoral													
		#1	#1.5	#2	#2.5	#3	#3.5	#4	#4.5	#5	#5.5	#6	#6.5	#7	
#0	#0	●													
#1	#1	●	●	●											
#2	#2	●	●	●	●	●									
#3	#3			●	●	●	●	●							
#4	#4					●	●	●	●	●					
#5	#5							●	●	●	●	●			
#6	#6									●	●	●	●	●	
#7	#7											●	●	●	

# APT

All Poly Tibial Component

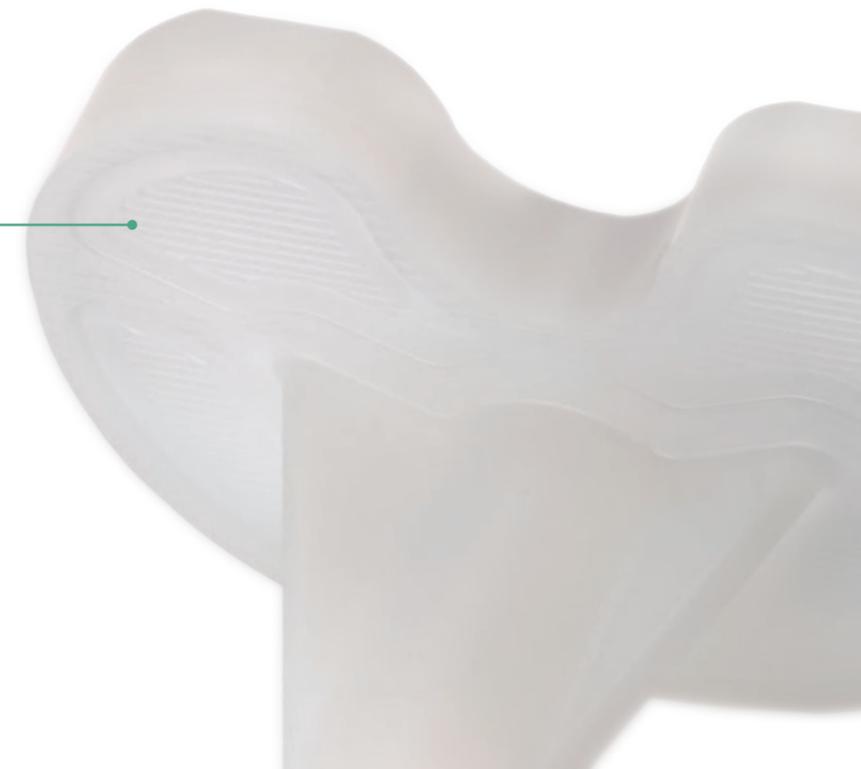
Durable, lower cost, elimination of backside wear, and designed for easier removal if necessary<sup>1,2</sup>.

Multiple articular selections: CR, PS, UC.



- Metal locating pin inside the APT component for X-ray image identification

- Deeper cement recess with rougher surface finishing to enhance cement fixation and anti-rotation



# E-XPE

Vitamin E Highly Crosslinked Polyethylene



CR Insert



UC Insert



Inset Patella



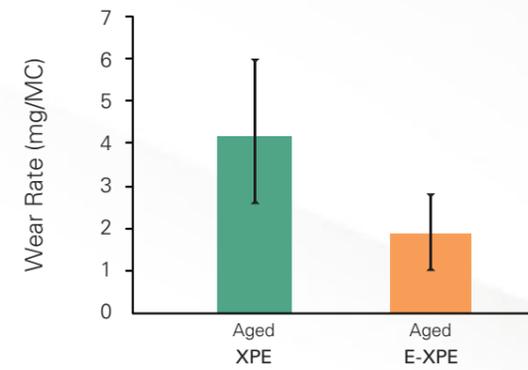
PS Insert



Onset Patella

# Advanced Bearing Technology

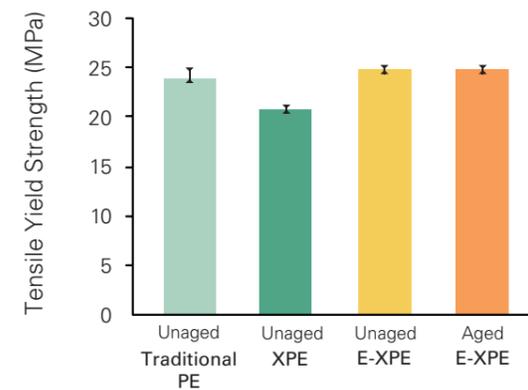
Wear Performance



### Extraordinary Wear Performance

E-XPE insert shows 60% reduction in gravimetric wear compared to XPE after accelerated aging<sup>[3]</sup>.

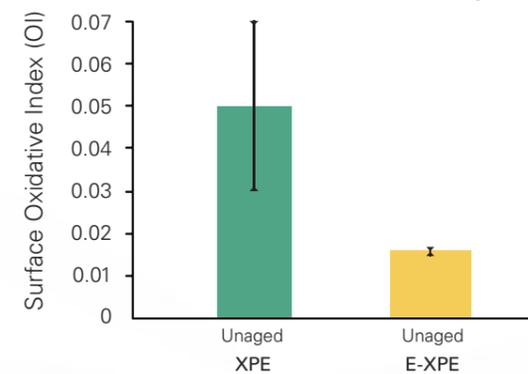
Mechanical Strength



### Enhanced Mechanical Strength

Heat treatment is not required after cross-linking process. Therefore, E-XPE shows a 20% tensile strength improvement as compared to highly cross-linked polyethylene<sup>[4]</sup>.

Oxidative Stability



### Superior Oxidative Stability

Surface oxidative index of E-XPE shows significant low oxidation after in vitro accelerated aging test<sup>[5]</sup>.

# Order Information

Special Order Items

## Femoral Component

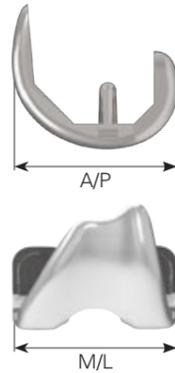
All components listed are CoCrMo alloy



CR



PS



	Cemented		Porous	
	Left	Right	Left	Right
#1	2103-1310	2103-1410	2103-1110	2103-1210
#1.5	2103-1315	2103-1415	2103-1115	2103-1215
#2	2103-1320	2103-1420	2103-1120	2103-1220
#2.5	2103-1325	2103-1425	2103-1125	2103-1225
#3	2103-1330	2103-1430	2103-1130	2103-1230
#3.5	2103-1335	2103-1435	2103-1135	2103-1235
#4	2103-1340	2103-1440	2103-1140	2103-1240
#4.5	2103-1345	2103-1445	2103-1145	2103-1245
#5	2103-1350	2103-1450	2103-1150	2103-1250
#5.5	2103-1355	2103-1455	2103-1155	2103-1255
#6	2103-1360	2103-1460	2103-1160	2103-1260
#6.5	2103-1365	2103-1465	2103-1165	2103-1265
#7	2103-1370	2103-1470	2103-1170	2103-1270

	Cemented	
	Left	Right
#1	2103-3110	2103-3210
#1.5	2103-3115	2103-3215
#2	2103-3120	2103-3220
#2.5	2103-3125	2103-3225
#3	2103-3130	2103-3230
#3.5	2103-3135	2103-3235
#4	2103-3140	2103-3240
#4.5	2103-3145	2103-3245
#5	2103-3150	2103-3250
#5.5	2103-3155	2103-3255
#6	2103-3160	2103-3260
#6.5	2103-3165	2103-3265
#7	2103-3170	2103-3270

	A/P	M/L
#1	52	56
#1.5	54	58
#2	56	60
#2.5	58	62
#3	60	64
#3.5	62	66
#4	64	68
#4.5	66	70
#5	68	72
#5.5	70	74
#6	72	76
#6.5	74	78
#7	76	80

Unit:mm

\*CoCrMo is an abbreviation for cobalt chromium molybdenum.

# Order Information

Special Order Items

## Tibial Baseplate

All components listed are Titanium (Ti-6Al-4V) Alloy



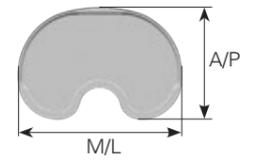
	Cemented
#1	2203-3010
#2	2203-3020
#3	2203-3030
#4	2203-3040
#5	2203-3050
#6	2203-3060



	CMA
#0	2203-3200
#1	2203-3210
#2	2203-3220
#3	2203-3230
#4	2203-3240
#5	2203-3250
#6	2203-3260
#7	2203-3270



	TPS PLUS
#0	2203-3400
#1	2203-3410
#2	2203-3420
#3	2203-3430
#4	2203-3440
#5	2203-3450
#6	2203-3460
#7	2203-3470



	A/P	M/L
#0	39.5	60
#1	42	63
#2	44.5	66
#3	47	69
#4	49.5	72
#5	52.5	76
#6	55.5	80
#7	58.5	84

Unit:mm

\*Ti-6Al-4V is an abbreviation for Titanium-6 Aluminum-4 Vanadium.

# Order Information

 Special Order Items

## Tibial Insert ( CR )



CR		#0	#1	#2	#3	#4	#5	#6	#7
UHMWPE	9 mm	2303-1201	2303-1211	2303-1221	2303-1231	2303-1241	2303-1251	2303-1261	2303-1271
	10 mm	2303-1206	2303-1216	2303-1226	2303-1236	2303-1246	2303-1256	2303-1266	2303-1276
	11 mm	2303-1202	2303-1212	2303-1222	2303-1232	2303-1242	2303-1252	2303-1262	2303-1272
	12 mm	2303-1207	2303-1217	2303-1227	2303-1237	2303-1247	2303-1257	2303-1267	2303-1277
	13 mm	2303-1203	2303-1213	2303-1223	2303-1233	2303-1243	2303-1253	2303-1263	2303-1273
	14 mm	2303-1208	2303-1218	2303-1228	2303-1238	2303-1248	2303-1258	2303-1268	2303-1278
	15 mm	2303-1204	2303-1214	2303-1224	2303-1234	2303-1244	2303-1254	2303-1264	2303-1274
	16 mm	2303-1209	2303-1219	2303-1229	2303-1239	2303-1249	2303-1259	2303-1269	2303-1279
	17 mm	2303-1200	2303-1210	2303-1220	2303-1230	2303-1240	2303-1250	2303-1260	2303-1270
18 mm	2303-1205	2303-1215	2303-1225	2303-1235	2303-1245	2303-1255	2303-1265	2303-1275	

XCR		#0	#1	#2	#3	#4	#5	#6	#7
XPE	9 mm	2303-1601	2303-1611	2303-1621	2303-1631	2303-1641	2303-1651	2303-1661	2303-1671
	10 mm	2303-1606	2303-1616	2303-1626	2303-1636	2303-1646	2303-1656	2303-1666	2303-1676
	11 mm	2303-1602	2303-1612	2303-1622	2303-1632	2303-1642	2303-1652	2303-1662	2303-1672
	12 mm	2303-1607	2303-1617	2303-1627	2303-1637	2303-1647	2303-1657	2303-1667	2303-1677
	13 mm	2303-1603	2303-1613	2303-1623	2303-1633	2303-1643	2303-1653	2303-1663	2303-1673
	14 mm	2303-1608	2303-1618	2303-1628	2303-1638	2303-1648	2303-1658	2303-1668	2303-1678
	15 mm	2303-1604	2303-1614	2303-1624	2303-1634	2303-1644	2303-1654	2303-1664	2303-1674
	16 mm	2303-1609	2303-1619	2303-1629	2303-1639	2303-1649	2303-1659	2303-1669	2303-1679
	17 mm	2303-1600	2303-1610	2303-1620	2303-1630	2303-1640	2303-1650	2303-1660	2303-1670
18 mm	2303-1605	2303-1615	2303-1625	2303-1635	2303-1645	2303-1655	2303-1665	2303-1675	



E-XCR		#0	#1	#2	#3	#4	#5	#6	#7
E-XPE	9 mm	2303-1801	2303-1811	2303-1821	2303-1831	2303-1841	2303-1851	2303-1861	2303-1871
	10 mm	2303-1806	2303-1816	2303-1826	2303-1836	2303-1846	2303-1856	2303-1866	2303-1876
	11 mm	2303-1802	2303-1812	2303-1822	2303-1832	2303-1842	2303-1852	2303-1862	2303-1872
	12 mm	2303-1807	2303-1817	2303-1827	2303-1837	2303-1847	2303-1857	2303-1867	2303-1877
	13 mm	2303-1803	2303-1813	2303-1823	2303-1833	2303-1843	2303-1853	2303-1863	2303-1873
	14 mm	2303-1808	2303-1818	2303-1828	2303-1838	2303-1848	2303-1858	2303-1868	2303-1878
	15 mm	2303-1804	2303-1814	2303-1824	2303-1834	2303-1844	2303-1854	2303-1864	2303-1874
	16 mm	2303-1809	2303-1819	2303-1829	2303-1839	2303-1849	2303-1859	2303-1869	2303-1879
	17 mm	2303-1800	2303-1810	2303-1820	2303-1830	2303-1840	2303-1850	2303-1860	2303-1870
18 mm	2303-1805	2303-1815	2303-1825	2303-1835	2303-1845	2303-1855	2303-1865	2303-1875	

\*UHMWPE is an abbreviation for ultra-high molecular weight polyethylene.  
 \*XPE is an abbreviation for highly crosslinked polyethylene.  
 \*E-XPE is an abbreviation for vitamin E highly crosslinked polyethylene.

# Order Information

 Special Order Items

## Tibial Insert ( UC )



XUC		#0	#1	#2	#3	#4	#5	#6	#7
XPE	9 mm	2303-1401	2303-1411	2303-1421	2303-1431	2303-1441	2303-1451	2303-1461	2303-1471
	10 mm	2303-1406	2303-1416	2303-1426	2303-1436	2303-1446	2303-1456	2303-1466	2303-1476
	11 mm	2303-1402	2303-1412	2303-1422	2303-1432	2303-1442	2303-1452	2303-1462	2303-1472
	12 mm	2303-1407	2303-1417	2303-1427	2303-1437	2303-1447	2303-1457	2303-1467	2303-1477
	13 mm	2303-1403	2303-1413	2303-1423	2303-1433	2303-1443	2303-1453	2303-1463	2303-1473
	14 mm	2303-1408	2303-1418	2303-1428	2303-1438	2303-1448	2303-1458	2303-1468	2303-1478
	15 mm	2303-1404	2303-1414	2303-1424	2303-1434	2303-1444	2303-1454	2303-1464	2303-1474
	16 mm	2303-1409	2303-1419	2303-1429	2303-1439	2303-1449	2303-1459	2303-1469	2303-1479
	17 mm	2303-1400	2303-1410	2303-1420	2303-1430	2303-1440	2303-1450	2303-1460	2303-1470
18 mm	2303-1405	2303-1415	2303-1425	2303-1435	2303-1445	2303-1455	2303-1465	2303-1475	



E-XUC		#0	#1	#2	#3	#4	#5	#6	#7
E-XPE	9 mm	2303-1701	2303-1711	2303-1721	2303-1731	2303-1741	2303-1751	2303-1761	2303-1771
	10 mm	2303-1706	2303-1716	2303-1726	2303-1736	2303-1746	2303-1756	2303-1766	2303-1776
	11 mm	2303-1702	2303-1712	2303-1722	2303-1732	2303-1742	2303-1752	2303-1762	2303-1772
	12 mm	2303-1707	2303-1717	2303-1727	2303-1737	2303-1747	2303-1757	2303-1767	2303-1777
	13 mm	2303-1703	2303-1713	2303-1723	2303-1733	2303-1743	2303-1753	2303-1763	2303-1773
	14 mm	2303-1708	2303-1718	2303-1728	2303-1738	2303-1748	2303-1758	2303-1768	2303-1778
	15 mm	2303-1704	2303-1714	2303-1724	2303-1734	2303-1744	2303-1754	2303-1764	2303-1774
	16 mm	2303-1709	2303-1719	2303-1729	2303-1739	2303-1749	2303-1759	2303-1769	2303-1779
	17 mm	2303-1700	2303-1710	2303-1720	2303-1730	2303-1740	2303-1750	2303-1760	2303-1770
18 mm	2303-1705	2303-1715	2303-1725	2303-1735	2303-1745	2303-1755	2303-1765	2303-1775	

# Order Information

 Special Order Items

## Tibial Insert ( PS )



PS		#0	#1	#2	#3	#4	#5	#6	#7
UHMWPE	9 mm	2303-3001	2303-3011	2303-3021	2303-3031	2303-3041	2303-3051	2303-3061	2303-3071
	10 mm	2303-3006	2303-3016	2303-3026	2303-3036	2303-3046	2303-3056	2303-3066	2303-3076
	11 mm	2303-3002	2303-3012	2303-3022	2303-3032	2303-3042	2303-3052	2303-3062	2303-3072
	12 mm	2303-3007	2303-3017	2303-3027	2303-3037	2303-3047	2303-3057	2303-3067	2303-3077
	13 mm	2303-3003	2303-3013	2303-3023	2303-3033	2303-3043	2303-3053	2303-3063	2303-3073
	14 mm	2303-3008	2303-3018	2303-3028	2303-3038	2303-3048	2303-3058	2303-3068	2303-3078
	15 mm	2303-3004	2303-3014	2303-3024	2303-3034	2303-3044	2303-3054	2303-3064	2303-3074
	16 mm	N/A	2303-3019	2303-3029	2303-3039	2303-3049	2303-3059	2303-3069	2303-3079
	17 mm	N/A	2303-3010	2303-3020	2303-3030	2303-3040	2303-3050	2303-3060	2303-3070
18 mm	N/A	2303-3015	2303-3025	2303-3035	2303-3045	2303-3055	2303-3065	2303-3075	

XPS		#0	#1	#2	#3	#4	#5	#6	#7
XPE	9 mm	2303-3601	2303-3611	2303-3621	2303-3631	2303-3641	2303-3651	2303-3661	2303-3671
	10 mm	2303-3606	2303-3616	2303-3626	2303-3636	2303-3646	2303-3656	2303-3666	2303-3676
	11 mm	2303-3602	2303-3612	2303-3622	2303-3632	2303-3642	2303-3652	2303-3662	2303-3672
	12 mm	2303-3607	2303-3617	2303-3627	2303-3637	2303-3647	2303-3657	2303-3667	2303-3677
	13 mm	2303-3603	2303-3613	2303-3623	2303-3633	2303-3643	2303-3653	2303-3663	2303-3673
	14 mm	2303-3608	2303-3618	2303-3628	2303-3638	2303-3648	2303-3658	2303-3668	2303-3678
	15 mm	2303-3604	2303-3614	2303-3624	2303-3634	2303-3644	2303-3654	2303-3664	2303-3674
	16 mm	N/A	2303-3619	2303-3629	2303-3639	2303-3649	2303-3659	2303-3669	2303-3679
	17 mm	N/A	2303-3610	2303-3620	2303-3630	2303-3640	2303-3650	2303-3660	2303-3670
18 mm	N/A	2303-3615	2303-3625	2303-3635	2303-3645	2303-3655	2303-3665	2303-3675	



E-XPS		#0	#1	#2	#3	#4	#5	#6	#7
E-XPE	9 mm	2303-3801	2303-3811	2303-3821	2303-3831	2303-3841	2303-3851	2303-3861	2303-3871
	10 mm	2303-3806	2303-3816	2303-3826	2303-3836	2303-3846	2303-3856	2303-3866	2303-3876
	11 mm	2303-3802	2303-3812	2303-3822	2303-3832	2303-3842	2303-3852	2303-3862	2303-3872
	12 mm	2303-3807	2303-3817	2303-3827	2303-3837	2303-3847	2303-3857	2303-3867	2303-3877
	13 mm	2303-3803	2303-3813	2303-3823	2303-3833	2303-3843	2303-3853	2303-3863	2303-3873
	14 mm	2303-3808	2303-3818	2303-3828	2303-3838	2303-3848	2303-3858	2303-3868	2303-3878
	15 mm	2303-3804	2303-3814	2303-3824	2303-3834	2303-3844	2303-3854	2303-3864	2303-3874
	16 mm	N/A	2303-3819	2303-3829	2303-3839	2303-3849	2303-3859	2303-3869	2303-3879
	17 mm	N/A	2303-3810	2303-3820	2303-3830	2303-3840	2303-3850	2303-3860	2303-3870
18 mm	N/A	2303-3815	2303-3825	2303-3835	2303-3845	2303-3855	2303-3865	2303-3875	

# Order Information

 Special Order Items

## PS PLUS Tibial Insert options



XPS		#0	#1	#2	#3	#4	#5	#6	#7
XPE	9 mm	2303-3501	2303-3511	2303-3521	2303-3531	2303-3541	2303-3551	2303-3561	2303-3571
	10 mm	2303-3506	2303-3516	2303-3526	2303-3536	2303-3546	2303-3556	2303-3566	2303-3576
	11 mm	2303-3502	2303-3512	2303-3522	2303-3532	2303-3542	2303-3552	2303-3562	2303-3572
	12 mm	2303-3507	2303-3517	2303-3527	2303-3537	2303-3547	2303-3557	2303-3567	2303-3577
	13 mm	2303-3503	2303-3513	2303-3523	2303-3533	2303-3543	2303-3553	2303-3563	2303-3573
	14 mm	2303-3508	2303-3518	2303-3528	2303-3538	2303-3548	2303-3558	2303-3568	2303-3578
	15 mm	2303-3504	2303-3514	2303-3524	2303-3534	2303-3544	2303-3554	2303-3564	2303-3574
	16 mm	N/A	2303-3519	2303-3529	2303-3539	2303-3549	2303-3559	2303-3569	2303-3579
	17 mm	N/A	2303-3510	2303-3520	2303-3530	2303-3540	2303-3550	2303-3560	2303-3570
18 mm	N/A	2303-3515	2303-3525	2303-3535	2303-3545	2303-3555	2303-3565	2303-3575	

# Order Information

## All Poly Tibial Component



APT-CR		#1	#2	#3	#4	#5	#6	#7
UHMWPE	9 mm	2203-1011	2203-1021	2203-1031	2203-1041	2203-1051	2203-1061	2203-1071
	11 mm	2203-1012	2203-1022	2203-1032	2203-1042	2203-1052	2203-1062	2203-1072
	13 mm	2203-1013	2203-1023	2203-1033	2203-1043	2203-1053	2203-1063	2203-1073
	15 mm	2203-1014	2203-1024	2203-1034	2203-1044	2203-1054	2203-1064	2203-1074
	18 mm	2203-1015	2203-1025	2203-1035	2203-1045	2203-1055	2203-1065	2203-1075



APT-UC		#1	#2	#3	#4	#5	#6	#7
UHMWPE	9 mm	2203-1411	2203-1421	2203-1431	2203-1441	2203-1451	2203-1461	2203-1471
	11 mm	2203-1412	2203-1422	2203-1432	2203-1442	2203-1452	2203-1462	2203-1472
	13 mm	2203-1413	2203-1423	2203-1433	2203-1443	2203-1453	2203-1463	2203-1473
	15 mm	2203-1414	2203-1424	2203-1434	2203-1444	2203-1454	2203-1464	2203-1474
	18 mm	2203-1415	2203-1425	2203-1435	2203-1445	2203-1455	2203-1465	2203-1475

# Order Information

## All Poly Tibial Component

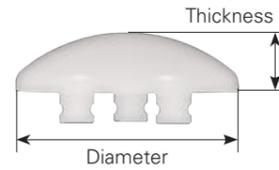


APT-PS		#1	#2	#3	#4	#5	#6	#7
UHMWPE	9 mm	2203-1211	2203-1221	2203-1231	2203-1241	2203-1251	2203-1261	2203-1271
	11 mm	2203-1212	2203-1222	2203-1232	2203-1242	2203-1252	2203-1262	2203-1272
	13 mm	2203-1213	2203-1223	2203-1233	2203-1243	2203-1253	2203-1263	2203-1273
	15 mm	2203-1214	2203-1224	2203-1234	2203-1244	2203-1254	2203-1264	2203-1274
	18 mm	2203-1215	2203-1225	2203-1235	2203-1245	2203-1255	2203-1265	2203-1275

# Order Information

Special Order Items

## Patellar Component

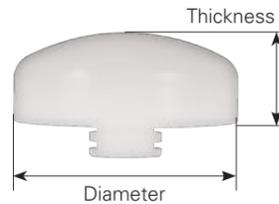


**Onset Patella**

	XS	S	M	L	XL	XXL	EL
<b>UHMWPE</b>	2403-1010	2403-1020	2403-1030	2403-1040	2403-1050	2403-1060	2403-1070
<b>XPE</b>	2403-3210	2403-3220	2403-3230	2403-3240	2403-3250	2403-3260	2403-3270
<b>E-XPE</b>	2403-5210	2403-5220	2403-5230	2403-5240	2403-5250	2403-5260	2403-5270

<b>Thickness</b>	7	8	8.5	9	9.5	10	10.5
<b>Diameter</b>	26	29	32	35	38	41	44

Unit : mm



**Inset Patella**

	S	M	L	XL
<b>UHMWPE</b>	2401-1010	2401-1020	2401-1030	2401-1040
<b>XPE</b>	2403-3010	2403-3020	2403-3030	2403-3040
<b>E-XPE</b>	2403-5010	2403-5020	2403-5030	2403-5040

<b>Thickness</b>	8	10	10	10
<b>Diameter</b>	22	25	28	32

Unit : mm

# Order Information

Special Order Items

## Extensions (CMA)



**Augment**

Made with Titanium (Ti-6Al-4V) Alloy



**Straight Stem**

Made with Titanium (Ti-6Al-4V) Alloy

Ø14 x 30 mm  
2703-5003

	#0	#1	#2	#3	#4	#5	#6	#7
<b>5 mm</b>	2803-5201	2803-5211	2803-5221	2803-5231	2803-5241	2803-5251	2803-5261	2803-5271
<b>10 mm</b>	2803-5202	2803-5212	2803-5222	2803-5232	2803-5242	2803-5252	2803-5262	2803-5272

**Reference**

- [1] All-Polyethylene Versus Metal-Backed Tibial Components—An Analysis of 27,733 Cruciate-Retaining Total Knee Replacements from the Swedish Knee Arthroplasty Register. Asgeir Gudnason, Nils P. Hailer, Annette W-Dahl, Martin Sundberg, Otto Robertsson., J Bone Joint Surg Am. 2014
- [2] The role of the cemented all-polyethylene tibial component in total knee replacement: a 30-year patient follow-up and review of the literature. Thomas J. Blumenfeld, Richard D. Scott., Knee. 2010
- [3] Data held on file. United Orthopedic Corporation
- [4] Data held on file. United Orthopedic Corporation
- [5] Data held on file. United Orthopedic Corporation

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