GENUS UNI

Unicompartmental knee replacement

ADLER ORTHO

GENUS UNI Respect of the patients' anatomy.

- Main indications for unicompartmental knee arthroplasty
- Primary osteoarthritis of one compartment (medial or lateral).
- Good functionality of cruciate and collateral ligaments
- Not more than 15° of varus / valgus deformity and 10° of flexion deformity
- Absence of any degenerative disease of a progressive nature (eg Rheumatoid Arthritis)

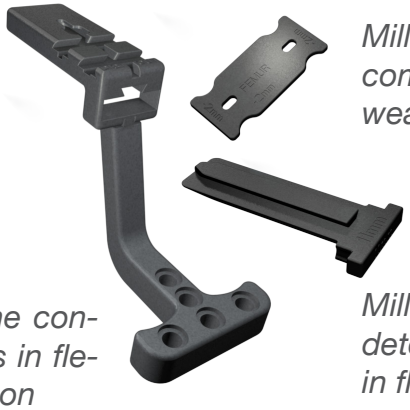
Genus UNI has been designed according to the following principles:

- Respect for the morphology and anatomy of the patient.
- Scrupulous respect for the ligamentous apparatus.
- Minimum bone sacrifice
- Logical, reproducible and minimally invasive surgical Technique.

Instruments

The Instrument set allows the accurate reconstruction of the joint thanks to a special system of spacers.

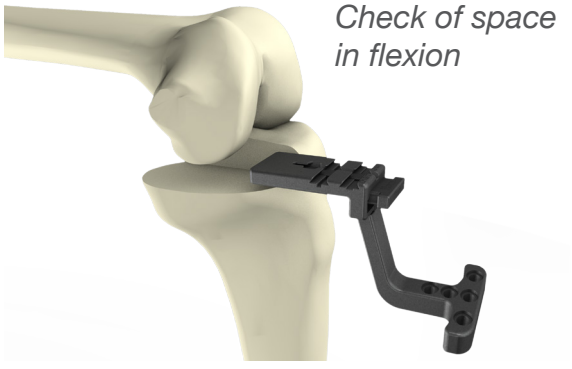
Millimetric spacers can be added to the handle in order to check extension and flexion spaces and calibrate the bone resection depending on the cartilage wear of the patient.



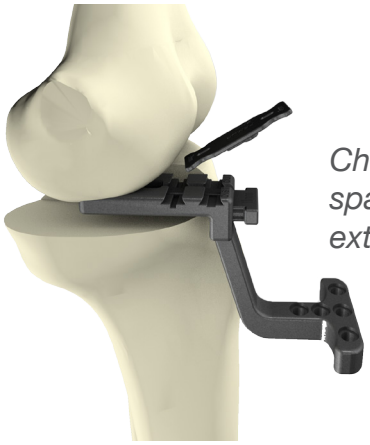
Millimetric spacer to compensate cartilage wear in extension.

Handle for the control of spaces in flexion / extension

Millimetric spacer to determine the space in flexion.



Check of space in flexion



Check of space in extension

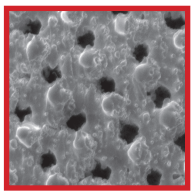
In this way we can avoid overcorrection, which is responsible for the failure of many unicompartmental knee replacements.

GENUS UNI Complete and Innovative.

Options.

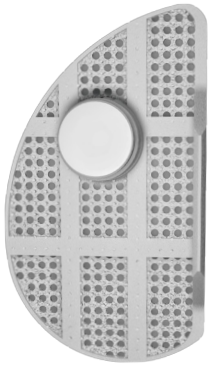
Two possible primary fixation
Both tibial and femoral components are available in cemented or cementless version.

Genus UNI cementless femur.
Manufactured using the powders technoogy, it features an HA coated three-dimensional Co-Por® monolithic surface.



Magnification of Ti-Por® Surface.

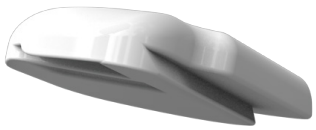
Genus UNI cemented femur.
It has been optimized with discharging compression of the cement in the anterior and posterior distal parts.



Genus UNI – cementless tibial component.
Manufactured using the powders technology.The bone fixation is guaranteed by the HAP coated three-dimensional Ti-Por® monolithic surface.

Genus UNI – Cemented tibial component.
There are anterior discharges for cementing in order to reduce the risk of leaving residual cement in the posterior part.
An All Poly tibial component is also available.

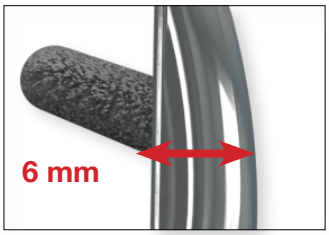
Six femoral and tibial sizes.
Each tibial and femoral component has been designed to improve the fit with the internal or external compartment that it will replace.



Five tibial thickness for each size.
Both "Metal-Back" and "All Poly" versions are available in 5 tibial thicknesses (9mm, 10mm, 11mm, 12mm and 14mm) to achieve a millimetric optimization of the joint stability.

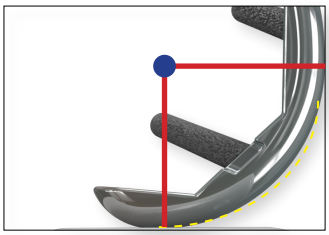
Femoral Component.

- Bone saving
- Balance of ligaments
- Flexion
- Anatomical
- Safety



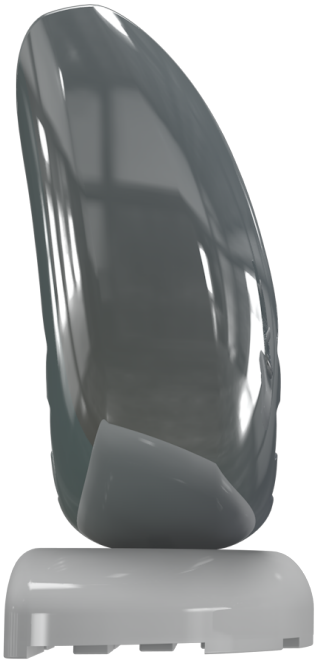
Bone saving

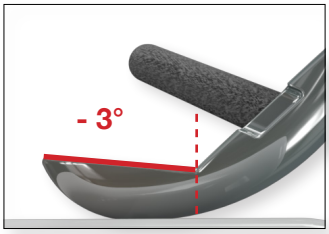
6mm constant thickness of the implant.
Better control of space in flexion and extension with minimal bone resection.



Balance of ligaments.

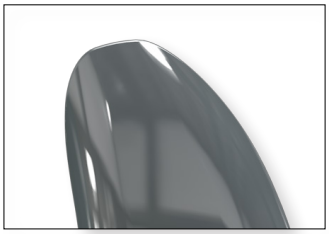
Rotation center at constant radius of flexion from **0 ° to 90 °**





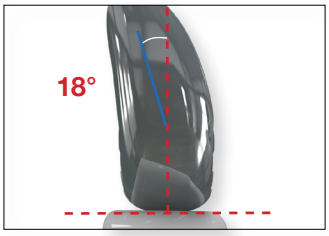
Flexion

The **3°** closure of the posterior condyle increases the range of motion and the stability of the system.

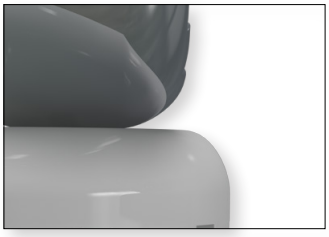


Anatomical

External distal apex blunted. Optimizes M/L positioning without risk of protrusion.



The prosthesis follows the anatomy of the medial and lateral condyles respecting the mechanical axis of the system.



Safety

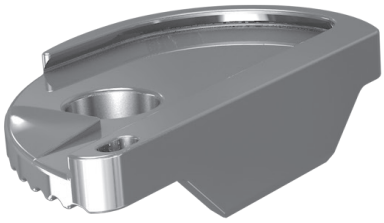
Outer edge with softened radius. Minimizes the risk of damage on polyethylene and tip effect.

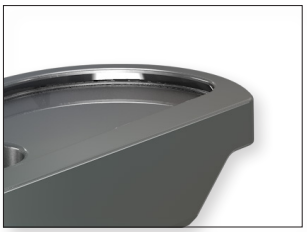
Tibial Component.

- Anatomical
- Safety
- Stability
- Enhanced insert

Anatomical

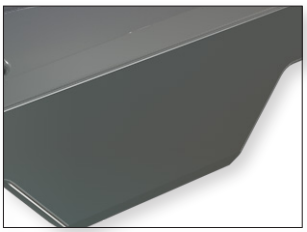
The shape and dimensions of the tibial component have been designed to adapt to both the medial and lateral compartment, maximizing the contact with the peripheral cortical bone.





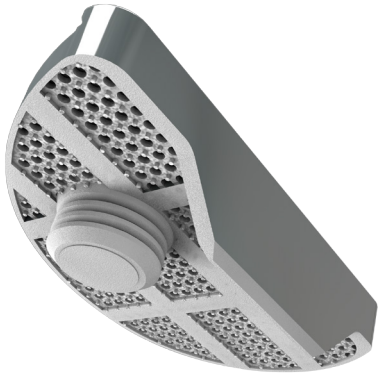
Safety

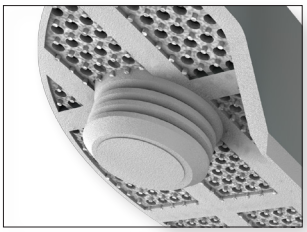
Dovetail implant blocking system to minimise micro-movements. Mirror finish to reduce the risk of generating polyethylene debris to a minimum.



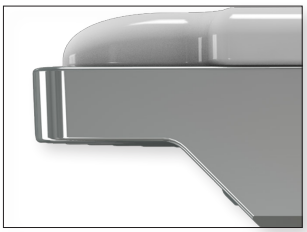
Stability

Stabilization keel to contrast varus / valgus stress.



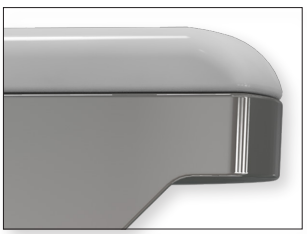


Anchoring pin for primary stabilization of the tibial tray. Can be used as a path for the insertion of a fixing screw (cementless option)



Enhanced Insert.

Anterior chamfer to avoid potential patellar conflicts.



Outer edge rounded to cover the Metal Back, to avoid potential conflicts between metal and soft parts.

Flat articular surface to facilitate a linear contact with the condyle and better distribute the loading forces.

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B0022-00 06-2019

Femoral Components

SIZE	Ref. Codes Cemented		Ref.Codes Cementless (*)	
	RM/LL	LM/RL	RM/LL	LM/RL
1	1182001	1182011	1115001	1115011
2	1182002	1182012	1115002	1115012
3	1182003	1182013	1115003	1115013
4	1182004	1182014	1115004	1115014
5	1182005	1182015	1115005	1115015
6	1182006	1182016	1115006	1115016

Tibial Bases

SIZE	Ref. Codes Cemented		Ref.Codes Cementless (*)	
	RM/LL	LM/RL	RM/LL	LM/RL
1	1784001	1784011	1735001	1735011
2	1784002	1784012	1735002	1735012
3	1784003	1784013	1735003	1735013
4	1784004	1784014	1735004	1735014
5	1784005	1784015	1735005	1735015
6	1784006	1784016	1735006	1735016

(*) Ingrowth Surface Ti-Po+ HA Coating

Tibial Screws

CODE	DESCRIPTION	length(mm)
1710020	Genus Uni Tibial Screw	20
1710025	Genus Uni Tibial Screw	25
1710030	Genus Uni Tibial Screw	30
1710035	Genus Uni Tibial Screw	35
1710040	Genus Uni Tibial Screw	40
1710045	Genus Uni Tibial Screw	45
1710050	Genus Uni Tibial Screw	50

(*) Available on request

All Poly tibial components

SIZE	Ref.CodeS H9		Ref.CodeS H10		Ref.CodeS H11		Ref.CodeS H12		Ref.CodeS H14	
	RM/LL	LM/RL	RM/LL	LM/RL	RM/LL	LM/RL	RM/LL	LM/RL	RM/LL	LM/RL
1	1740901	1740911	1741001	1741011	1741101	1741111	1741201	1741211	1741401	1741411
2	1740902	1740912	1741002	1741012	1741102	1741112	1741202	1741212	1741402	1741412
3	1740903	1740913	1741003	1741013	1741103	1741113	1741203	1741213	1741403	1741413
4	1740904	1740914	1741004	1741014	1741104	1741114	1741204	1741214	1741404	1741414
5	1740905	1740915	1741005	1741015	1741105	1741115	1741205	1741215	1741405	1741415
6	1740906	1740916	1741006	1741016	1741106	1741116	1741206	1741216	1741406	1741416

Inserts

SIZE	Ref.CodeS H9		Ref.CodeS H10		Ref.CodeS H11		Ref.CodeS H12		Ref.CodeS H14	
	RM/LL	LM/RL	RM/LL	LM/RL	RM/LL	LM/RL	RM/LL	LM/RL	RM/LL	LM/RL
1	1850901	1850911	1851001	1851011	1851101	1851111	1851201	1851211	1851401	1851411
2	1850902	1850912	1851002	1851012	1851102	1851112	1851202	1851212	1851402	1851412
3	1850903	1850913	1851003	1851013	1851103	1851113	1851203	1851213	1851403	1851413
4	1850904	1850914	1851004	1851014	1851104	1851114	1851204	1851214	1851404	1851414
5	1850905	1850915	1851005	1851015	1851105	1851115	1851205	1851215	1851405	1851415
6	1850906	1850916	1851006	1851016	1851106	1851116	1851206	1851216	1851406	1851416

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