

Focus on Joint Health for **25** Years
Custom-Made Endoprostheses

To provide a full range of surgical solutions for doctors

Telephone: 010-8262 0220

Address: 19 Dongying Road, Zhaofeng Industrial Base, Zhaoquanying Town, Shunyi District, Beijing, China

Website: www.lidakang.com

Wechat Official Account: BJLDK98

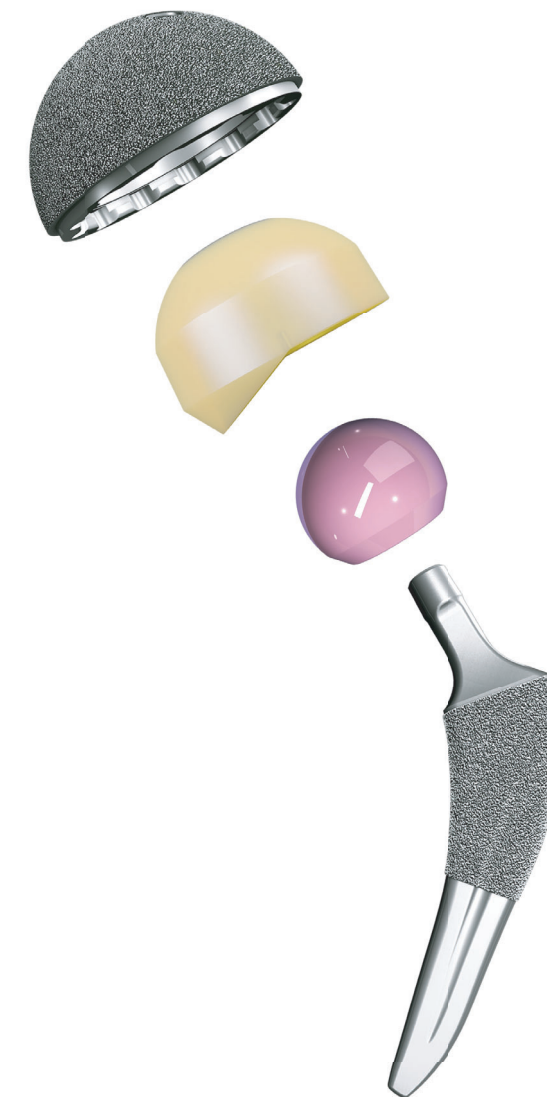
BEIJING LIDAKANG TECHNOLOGY CO., LTD.



PRODUCT MANUAL



BEIJING LIDAKANG TECHNOLOGY CO., LTD.



Established in 1998, Beijing Lidakang Technology Co., Ltd. is a professional company of joint stock system specially engaged in research, development, production and distribution of surgical implantation materials - joint prosthesis. This Company has been initiated by Yingchen Xu, an expert of old generation and senior engineer, who researched and developed joint prostheses in the former Iron and Steel Research Institute. At the early stage of its establishment, Xu developed domestic state-of-the-art joint prostheses, participated in the National Torch Plan projects and the 13th Five-Year Plan projects and won honors including small and medium-sized scientific and technological enterprise, the provincial science and technology progress award and Beijing science and technology research and development institution, and participated in the formulation of 3D printing medical device group standards initiated by China Association for Medical Devices Industry as a drafting unit, all of which laid a solid foundation for Lidakang to grow into a national brand emphasizing quality, research and technology.

After more than twenty years of accumulation, accretion and continuous progress, Lidakang has developed into a modernized high-tech manufacturer. It has the R&D department, manufacturing department, marketing center, quality control department, human resources and administration department, finance department and 3D printing center. The Company has the production license and business permit for Class III medical devices and registration certificates for various Class III, II and I products including hip joint, knee joint and combined prosthesis, and has passed CE certification and ISO 9001:2015 and ISO 13485:2016 quality system certification.

Since Ning Xu took over the chairman of the Company and started resource integration and departmental optimization and reorganization, he has inherited and continued the concept of "Lidakang's devotion to high technology and Kanghua's benefiting people". The scale of Lidakang has been expanding and its strength has been increasing day by day.

In 2015, Chairman Ning Xu established Lidakang Institute with the initiative of a number of top experts in orthopedics. The Lidakang Institute was established to provide tailor-made comprehensive, standardized and systematic education and training contents for medical workers, practitioners and patients in the orthopedic field, to build a broad and convenient communication platform, to strengthen cooperation with clinical experts, to realize complementary resource advantages, to take serving orthopedic clinicians as the belief, to contribute to the improvement of the diagnosis and treatment level of diseases in the joint field, to achieve the win-win situation and to boost the development of orthopedics in China.

In 2018, on the occasion of the twentieth anniversary of the Company's establishment, with the active promotion by Chairman Ning Xu and the strong support from the local government leadership, the production plant of Lidakang production and R&D base located in Zhaoquanying of Shunyi District was officially put into operation. The new production base, with a building area of more than 8,000 square meters, realizes an annual production capacity of 100,000 sets of joint products and is equipped with a surgical instrument production department, which satisfies the requirements for the production capacity of the Company in the future rapid development from the fundamental perspective.

The factory has the production workshop, purification and packaging workshop, inspection room and laboratory. The analysis room and fluorescence detection room are planned for construction. There are experts engaged in the research and development of joint prostheses for many years, professors having studied microporous materials for decades, and experienced experts in nano biomaterials. In addition, in recent years, it has absorbed and trained a number of young and promising managerial personnel and clinical service teams, and they are the most valuable wealth and backbone of the Company.

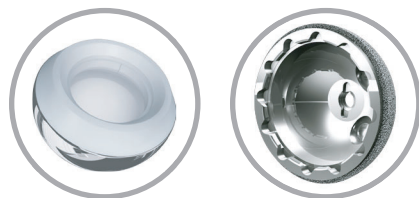
Over the years, with its own technical strength, the Company has cooperated with famous orthopedic experts and professors from many hospitals all over China to develop a variety of joint products suitable for Chinese people with advanced design concept, and accumulated a wealth of technical experience, especially in the R&D and manufacturing of cancer products. At present, Lidakang has a total of 31 licensed patents, including 3 patents for invention. There are also dozens of patents under application, of which 10 patents for invention have been published.

As one of the oldest artificial joint manufacturers in China, Lidakang attaches great importance to its social responsibilities. Over the years, it has continuously participated in various social public welfare undertakings, and has been recognized and praised by all parties for its excellent product quality and enthusiasm for serving patients.



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Tantalum Coated Cementless Femoral Stem



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Custom-Made Endoprotheses

Metallic Trabecular Acetabular Cup, VE Highly Cross-linked Polyethylene Acetabular Liner and Ceramic Femoral Head



1-

With the exclusive patented tantalum coating technology, this product fills the gap in the application of new materials of surface-active antibacterial biological coating in the orthopedic area in China.

2-

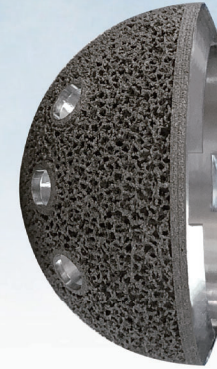
The steady, secure and reliable fixation effect is ensured, so that the prosthesis has high initial stability.

3-

The superior corrosion resistance and outstanding biocompatibility of tantalum provide excellent long-term stability.

4-

The reduced lateral shoulder protects the greater trochanter, allows minimally invasive surgeries, maximizes bone preservation, and creates unlimited possibilities for the future of young patients.



1-

The product is shaped all-in-one using the EBM technology, for which the metal particles are completely fused. The porous Ti-6Al-4V alloy produced by the AM-EBM technology is characterized by high specific strength as compared with other traditional metal bubbles under the equivalent specific modulus.

2-

The porous part is a new type of irregular structure mimicking human cancellous bone, which has a better bone ingrowth effect.

3-

High porosity: Pore size of 600-800 μm , porosity: 75%-80%.

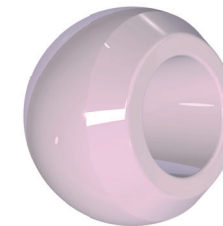


1-

Highly cross-linked polyethylene with super wear resistance can reduce the occurrence of osteolysis.

2-

The material is blended with vitamin E, which has outstanding oxidation resistance to improve the service life of the liner, and reduce the bacterial attachment.



1-

The fourth-generation BIOLOX[®] Delta zirconia reinforced high-purity alumina-based composite ceramic material is used, which is exceptionally hard with ultra-high fracture resistance and high wear resistance to provide excellent biocompatibility and good long-term stability.

2-

The product is of lower volumetric wear.

3-

Large-diameter (28 mm, 32 mm and 36 mm) ceramic femoral heads are available to increase the range of motion and reduce the risk of dislocation.

Microporous Titanium Alloy Stem (HA Coated)
(Coarse Titanium Coated)



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Microporous Titanium Alloy Stem (HA Coated)
(Coarse Titanium Coated)
(JX T1103E JX T1103D) Main Technical Parameters

1-

The product is designed with a 12/14 standard taper and a narrowed neck to increase the range of motion of the joint.

2-

The proximal trapezoidal cross section provides axial and rotational stability.

3-

Three types of femoral stems with HA coating, rough titanium coating and double spray coating are available.

4-

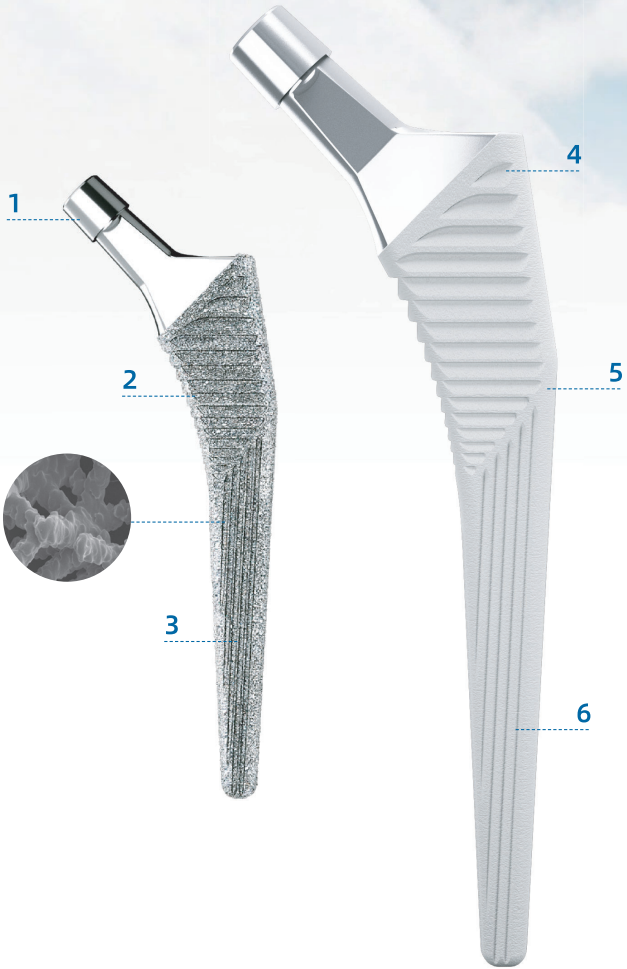
The product is designed with a lateral slopping shoulder and is easy to implant to reduce the risk of intraoperative greater trochanter fracture.

5-

The proximal stepped design, in which the shear force is converted into compressive stress during prosthesis implantation, not only enhances the initial stability during prosthesis implantation, but also increases the contact area with cancellous bone and improves the bone ingrowth effect.

6-

The longitudinal grooves and coatings provide anti-rotational stability and prevent the distal thigh pains.



- Cancellous bone is preserved as much as possible.
- It can be applied to a wide range of indications.

Microporous Titanium Alloy Stem (HA Coated) (Coarse Titanium Coated) (JX T1103E) (JX T1103D) Unit (mm)

Product Model	Specification	Neck-shaft Angle	Neck Length	Stem Length	Eccentric distance
S41701	1 #	135°	31	120	32.5
S41702	2 #	135°	34	130	35.5
S41703	3 #	135°	38.5	140	39.5
S41704	4 #	135°	38.5	145	40
S41705	5 #	135°	38.5	150	41
S41706	6 #	135°	38.5	155	41.5
S41707	7 #	135°	38.5	160	42
S41708	8 #	135°	38.5	165	43
S41709	9 #	135°	38.5	170	43.5
A4109D01	1 #	135°	31	120	32.5
A4109D02	2 #	135°	34	130	35.5
A4109D03	3 #	135°	38.5	140	39.5
A4109D04	4 #	135°	38.5	145	40
A4109D05	5 #	135°	38.5	150	41
A4109D06	6 #	135°	38.5	155	41.5
A4109D07	7 #	135°	38.5	160	42
A4109D08	8 #	135°	38.5	165	43
A4109D09	9 #	135°	38.5	170	43.5

Microporous Titanium Alloy Stem (DAA Stem)



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Microporous Titanium Alloy Stem (DAA Stem)
(JX F1104D) Main Technical Parameters

1-

The product is designed with a narrowed neck to increase the range of motion of the joint.

2-

The reduced lateral shoulder protects the greater trochanter and allows minimally invasive surgeries.

3-

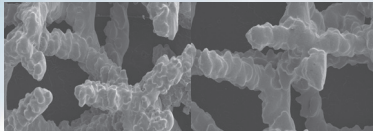
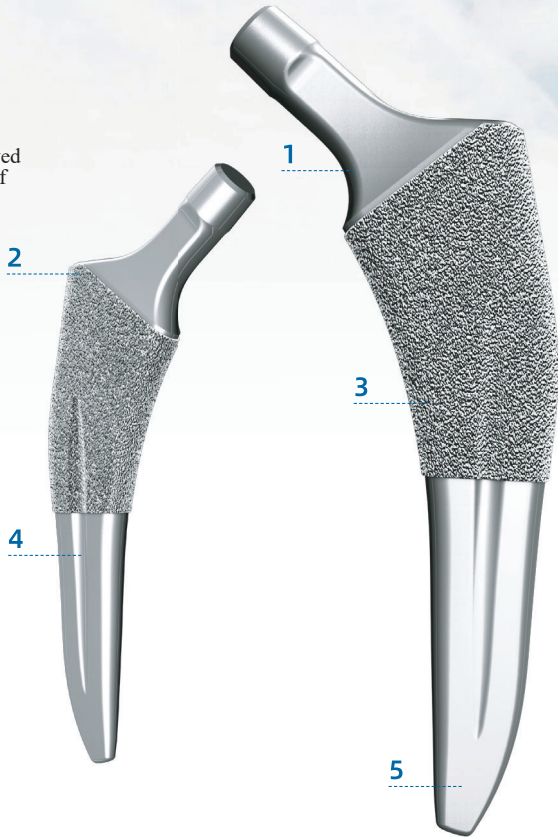
The rough titanium coating assures an excellent bone ingrowth effect.

4-

The distal grooves provide channels for blood and debris during implantation.

5-

An arc-shaped distal end is provided to avoid distal lateral bone impingement.



■ Based on an original metaphyseal fixation principle, the maximum bone quantity is preserved on the basis of ensuring stability, safety, and long-term use, creating unlimited possibilities for the future of young patients.

■ The slender A/P size allows preserving bone quantity while providing excellent anti-rotational stability.

■ A full range of prosthesis models and dimensions are available, with a consistent variation between prosthesis dimensions, which helps to optimize the matching of the femoral medullary cavity and the reconstruction of the limb length.

Microporous Titanium Alloy Stem - (DAA Stem) (JX F1104D)

Unit (mm)

Product Model	Specification	Neck-shaft Angle	Neck Length	Stem Length	Eccentric distance
S41401	1 #	130°	30	116	36
S41402	2 #	130°	30	118	36
S41403	3 #	130°	32	120	38
S41404	4 #	130°	32	122	38
S41405	5 #	130°	33	124	40
S41406	6 #	130°	33	126	40
S41407	7 #	130°	35	128	42
S41408	8 #	130°	35	130	42
S41409	9 #	130°	37	132	44

Microporous Titanium Alloy Stem



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Microporous Titanium Alloy Stem
(JX M1102A) \ (JX T1102D) Main Technical Parameters

1-

The product is designed with a 12/14 standard taper.

2-

The highly polished shoulder and neck design minimizes wear particles produced from the prosthesis impingement during joint motion.

3-

The neck is geometrically designed to increase the range of motion of the joint.

4-

The vacuum plasma titanium spraying technique is used for the proximal surface, the appropriate thickness and porosity of which are favorable for bone ingrowth and provide the optimal long-term fixation strength.



5-

The stepped shallow groove structure converts the shear force into compressive stress during prosthesis implantation, not only enhancing the initial stability during prosthesis implantation, but also increasing the contact area with cancellous bone to facilitate bone ingrowth and provide a good biological fixation effect.

6-

The surface of the middle segment is subject to highly coarse sandblasting to create a complete and natural stem transition and facilitate the balanced transmission of stress on the stem.

7-

The highly polished bullet tip design at the distal end prevents thigh pains due to stress concentration.

Microporous Titanium Alloy Stem (Titanium Coated) (JX T1102D)

Unit (mm)

Product Model	Specification	Neck-shaft Angle	Neck Length	Stem Length	Distal Diameter
S40401	1 #	130°	35	141	7
S40402	2 #	130°	37	147	8
S40403	3 #	130°	37	152	9
S40404	4 #	130°	39	157	10
S40405	5 #	130°	39	162	11
S40406	6 #	130°	41	168	12
S40407	7 #	130°	41	174	13

Note: Corresponding to the microporous titanium alloy stem 12/14 (Ti coated)

Microporous Titanium Alloy Stem (ground) (JX M1102A)

Unit (mm)

Product Model	Specification	Neck-shaft Angle	Neck Length	Stem Length	Distal Diameter
S40301	1 #	130°	35	141	7
S40302	2 #	130°	37	147	8
S40303	3 #	130°	37	152	9
S40304	4 #	130°	39	157	10
S40305	5 #	130°	39	162	11
S40306	6 #	130°	41	168	12
S40307	7 #	130°	41	174	13

Note: Corresponding to the microporous titanium alloy stem 12/14 (ground surface)

RWH CONE Cementless Femoral Stem

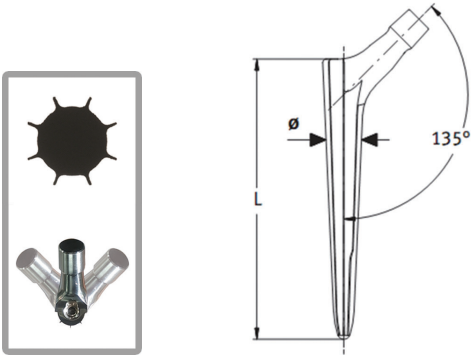
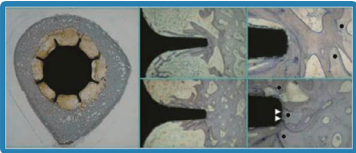


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RWH CONE Cementless Femoral Stem
(JX F1105A) Main Technical Parameters

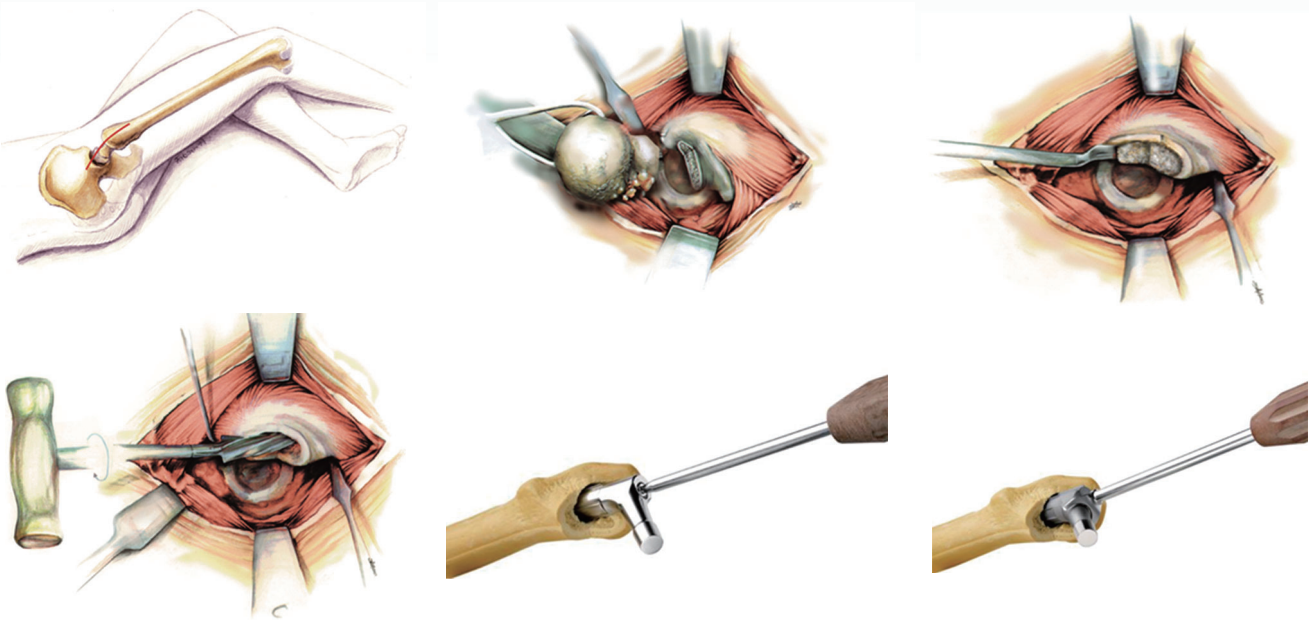


- 1- Eight longitudinal ridges on the stem body effectively anchor the bone cortex and increase the surface area of the stem body, which is conducive to the prosthesis stability and provides optimal rotational stability and axial stability.
- 2- The conical stem body is convenient for anteversion angle adjustment.
- 3- The stem body has a 5-degree taper, which is conducive to the implantation of the prosthesis in a very fine pulp cavity and can effectively prevent subsidence;
- 4- The tapered geometric shape provides for the secure fixation of the stem body and minimizes the possibility thigh pains.



RWH CONE Cementless Femoral Stem (JX F1105A) Unit (mm)

Specification and Dimensions	1#	2#	3#	4#	5#	6#	7#	8#	9#	10#
Diameter	13	14	15	16	17	18	19	20	21	22
Stem Length	120	125	126	126	126	126	127	127	127	127



RCH Cemented Femoral Stem



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RCH Cemented Femoral Stem
(JX 1401H) (JX 1402G) (JX 1403H) Main Technical Parameters

1-

Standard and elongated femoral stems are available, and they are suitable for primary and revision surgeries.

2-

The neck is geometrically designed to increase the range of motion of the joint.

3-

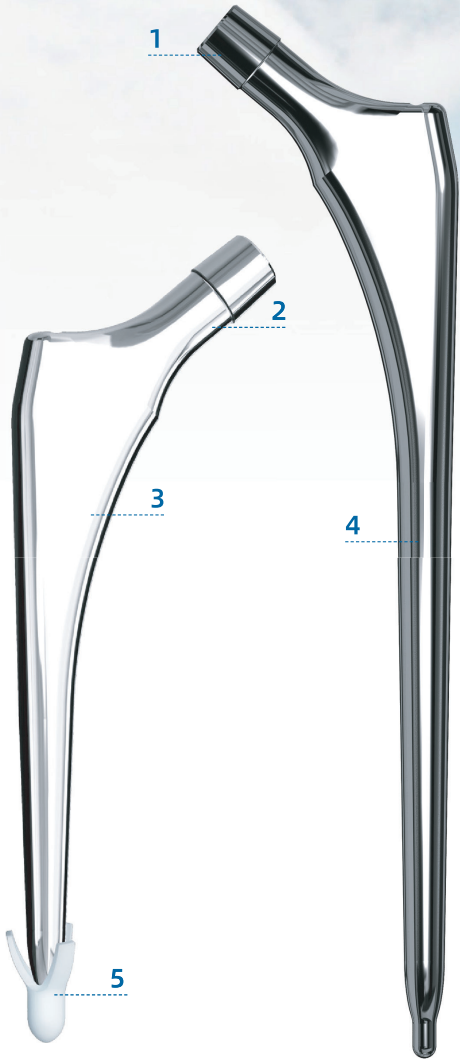
Collarless, three-dimensional tapered design, increasing tightness during natural subsidence, thus creating autogenous locking.

4-

The highly polished surface minimizes the wear between the prosthesis and the bone cement sheath.

5-

The distal centralizer is provided with a receptacle design, which not only ensures the centralization effect of the prosthesis in the bone cement, but also provides a certain space for the natural subsidence of the femoral stem.



Smooth-surface stem (Type I) (JX 1401H)

Unit (mm)

Product Model	Specification	Neck-shaft Angle	Neck Length	Stem Length	Distal Diameter
SC40505	1#	130°	35	120	6.8
SC40506	2#	130°	37	125	7.2
SC40507	3#	130°	37	130	7.5
SC40508	4#	130°	39	140	8
SC40509	5#	130°	39	145	8.5
SC405010	6#	130°	41	150	9.3
SC405011	7#	130°	41	155	10

Smooth-surface stem (Type II) (JX 1402G)

Unit (mm)

Product Model	Specification	Neck-shaft Angle	Neck Length	Stem Length	Distal Diameter
S40505	1#	130°	35	120	6.8
S40506	2#	130°	37	125	7.2
S40507	3#	130°	37	130	7.5
S40508	4#	130°	39	140	8
S40509	5#	130°	39	145	8.5
S40510	6#	130°	41	150	9.3
S40511	7#	130°	41	155	10

Smooth-surface stem (Type III for revision) (JX 1403H)

Unit (mm)

Product Model	Specification	Neck-shaft Angle	Neck Length	Stem Length	Distal Diameter
SC40507L	3#	130°	37	180	8
SC40508L	4#	130°	39	190	8
SC40509L	5#	130°	39	200	8.5
SC405010L	6#	130°	41	210	9
SC405011L	7#	130°	41	220	9

RWH Integrated Cementless Femoral Stem



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RWH Integrated Cementless Femoral Stem
(JX F1103A) Main Technical Parameters

1-

It is an integrated tapered stem made of forging titanium alloy.

2-

The 2-degree taper of the stem body effectively prevents subsidence and allows the anteversion angle adjustment.

3-

Eight longitudinal ridges are designed to improve the initial stability and anti-rotational effect.

4-

The length varies between 190 mm and 265 mm.

- Simple and accurate tools.
- Similar stem products have shown excellent clinical outcomes for more than 20 years, and the Swedish Hip Arthroplasty Register recommends the revision stem as the first choice.



RWH Integrated Cementless Femoral Stem (JX F1103A) Unit (mm)

Product Model	Specification	Neck-shaft Angle	Diameter	Specification
42314-190L	1#/190	135°	Φ14	190
42315-190L	2#/190	135°	Φ15	190
42316-190L	3#/190	135°	Φ16	190
42317-190L	4#/190	135°	Φ17	190
42318-190L	5#/190	135°	Φ18	190
42319-190L	6#/190	135°	Φ19	190
42320-190L	7#/190	135°	Φ20	190
42321-190L	8#/190	135°	Φ12	190
42322-190L	9#/190	135°	Φ13	190
42314-225L	1#/225	135°	Φ14	225
42315-225L	2#/225	135°	Φ15	225
42316-225L	3#/225	135°	Φ16	225
42317-225L	4#/225	135°	Φ17	225
42318-225L	5#/225	135°	Φ18	225
42319-225L	6#/225	135°	Φ19	225
42320-225L	7#/225	135°	Φ20	225
42321-225L	8#/225	135°	Φ21	225
42322-225L	9#/225	135°	Φ22	225

RWH Integrated Cementless Femoral Stem (JX F1103A) Unit (mm)

Product Model	Specification	Neck-shaft Angle	Diameter	Specification
42314-265L	1#/265	135°	Φ14	265
42315-265L	2#/265	135°	Φ15	265
42316-265L	3#/265	135°	Φ16	265
42317-265L	4#/265	135°	Φ17	265
42318-265L	5#/265	135°	Φ18	265
42319-265L	6#/265	135°	Φ19	265
42320-265L	7#/265	135°	Φ20	265
42321-265L	8#/265	135°	Φ21	265
42322-265L	9#/265	135°	Φ22	265
42323-265L	10#/265	135°	Φ23	265

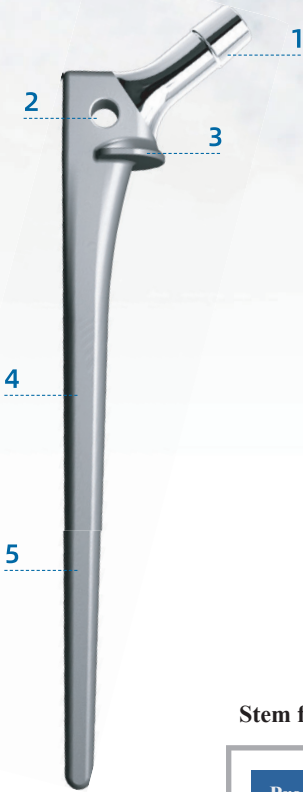
Stem for Intertrochanteric Fracture



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Press-fit Acetabular Cup

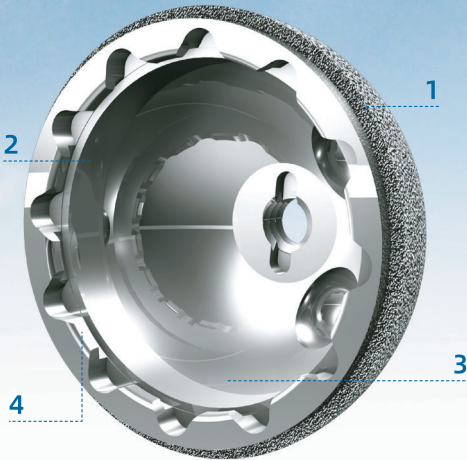
- 1-
- The product is designed with a 12/14 standard taper.
- 2-
- The thru-hole design of the proximal end of the stem body facilitates the reconstruction of the greater trochanter fracture and maximizes the preservation of the function of the abductor muscle group.
- 3-
- Different models of proximal prostheses may be selected based on the calcar defect.
- 4-
- The combination with the current bone cement application technique can provide the optimal fixation technique.
- 5-
- Co-Cr-Mo alloy material.



Stem for Intertrochanteric Fracture (JX 1201A) Unit (mm)

Product Model	Proximal Length	Distal Length
41125-180	25	180
41135-160	35	160
41145-160	45	160

- 1-
- The microporous coarse titanium coating with high friction coefficient provides high initial stability and excellent long-term bone ingrowth effect.
- 2-
- The polished interior surface minimizes the liner wear.
- 3-
- The liner and cup cone are locked securely.
- 4-
- The slot locking structure is designed to prevent the liner from dislocation.



Press-fit Acetabular Cup (JX 2701D) (JX 3701) Unit (mm)

Product Model	Specification	Acetabular Diameter	Inner Sphere Diameter of Acetabulum
C2144	44#	Φ44	Φ28
C2146	46#	Φ46	Φ28
C2148	48#	Φ48	Φ28
C2150	50#	Φ50	Φ28
C2152	52#	Φ52	Φ32
C2154	54#	Φ54	Φ32
C2156	56#	Φ56	Φ32
C2158	58#	Φ58	Φ32
C2160	60#	Φ60	Φ32
C2162	62#	Φ62	Φ32
C2164	64#	Φ64	Φ32

Press-fit Acetabular Liner and Femoral Head



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Femoral Head and Semi-hip Double-acting Head

1-

The 10-degree high edge is designed to prevent dislocation.

2-

The design of edge convex point increases the anti-rotation effect and reduces the abrasion of inner wall when the liner is used in combination with the cup cone.



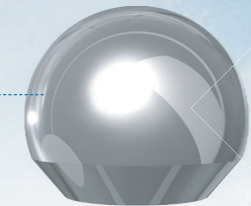
Femoral Head (JX 4301)

Unit (mm)

Product Model	Specification	Head Diameter
NH1032S	32S	Φ32
NH1032M	32M	Φ32
NH1032L	32L	Φ32
NH1032XL	32XL	Φ32

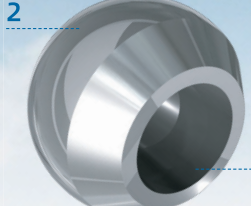
Head

1



1-

Forging Co-Cr-Mo alloy is used.



2-

The highly polished surface leads to a low coefficient of friction.

3-

With the 12/14 standard taper, a variety of diameters and lengths are available for clinical use.

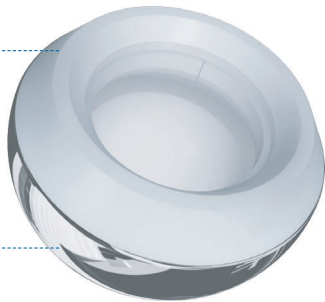
Head (Type I) (JX 4301)

Unit (mm)

Product Model	Specification	Head Diameter
NH1022S	22S	Φ22
NH1022M	22M	Φ22
NH1022L	22L	Φ22
NH1028S	28S	Φ28
NH1028M	28M	Φ28
NH1028L	28L	Φ28
NH1028XL	28XL	Φ28

Semi-hip Double-acting Head

1



1-

Due to its unique locking mechanism, it is safe, stable and reliable, and convenient for intraoperative installation.

2-

The cup is made of Co-Cr-Mo alloy, and its surface is provided with supermirror finishing to reduce abrasion as much as possible.

Semi-hip Double-acting Head (JX 4701)

Unit (mm)

Product Model	Specification	Diameter of Double-acting Head
H3038B	38	Φ38
H3040B	40	Φ40
H3042B	42	Φ42
H3044B	44	Φ44
H3046B	46	Φ46
H3048B	48	Φ48
H3050B	50	Φ50
H3052B	52	Φ52
H3054B	54	Φ54

Acetabular Cup and Acetabular liner



Focus on Joint Health
Custom-Made Endoprosthesis

Acetabular Cup and Acetabular Liner

1-

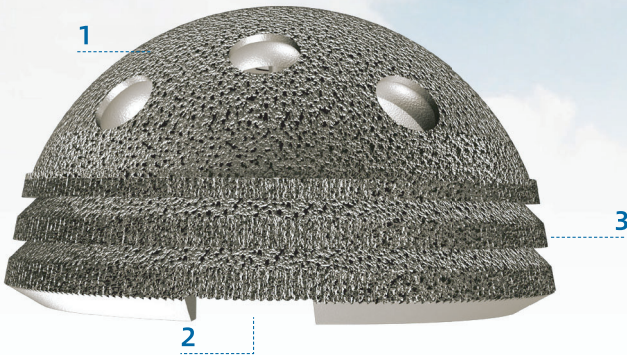
Vacuum plasma TI is sprayed onto the microporous surface to provide an optimal interface for bone ingrowth.

2-

The low-end 4 equally divided groove design of metal cup is convenient for intra-articular adjustment of the liner angle.

3-

The convex design of the outer edge of acetabular cup facilitates the force fit between the prosthesis and the acetabular fossa. The longitudinal rack design is to increase the anti-rotational stability of the prosthesis.



1-

The inlaid liner structure and the cutting treatment of inner edge expand the range of motion of the joint and reduce the wear debris due to impingement.

2-

Ultra-high molecular weight polyethylene acetabular liner is made of the material imported from Germany.



Main Technical Parameters of Acetabular Cup (JX 2102 A)/(JX 2102 D)

Main Technical Parameters of Acetabular Liner (JX 3102)

Unit (mm)

Product Model			Specification	Acetabular Diameter	Inner Sphere Diameter of Acetabulum	Surface
J X2102 A	J X2102 D	JX 3102				
C 3044B	C 2044B	C 3044BF	44#	Φ44	Φ28	JX2102 A Roughly sandblasted surface
C 3046B	C 2046B	C 3046BF	46#	Φ46	Φ28	
C 3048B	C 2048B	C 3048BF	48#	Φ48	Φ28	
C 3050B	C 2050B	C 3050BF	50#	Φ50	Φ28	
C 3052B	C 2052B	C 3052BF	52#	Φ52	Φ28	JX2102 D Titanium coating
C 3054B	C 2054B	C 3054BF	54#	Φ54	Φ28	
C 3056B	C 2056B	C 3056BF	56#	Φ56	Φ28	
C 3058B	C 2058B	C 3058BF	58#	Φ58	Φ28	
C 3060B	C 2060B	C 3060BF	60#	Φ60	Φ28	

Acetabular Frame



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R-CUP Porous Acetabular Cup

Indications: Acetabular marginal defect and mixed defect.

1-

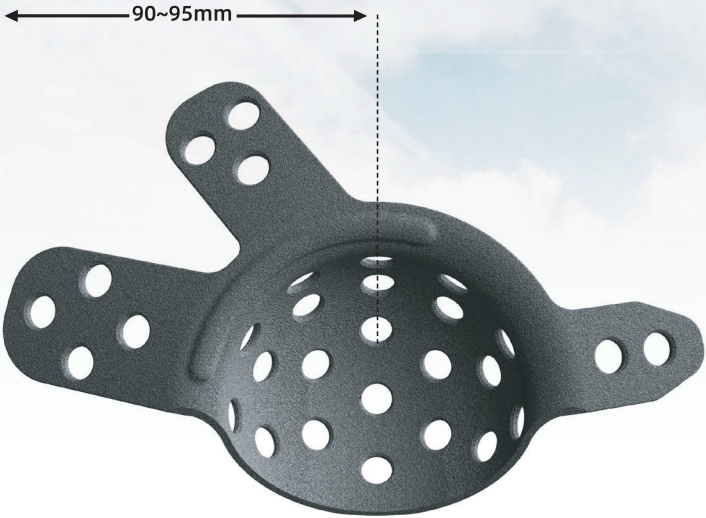
The acetabular frame is divided into the left, right and upper wings fixed to the ilium, and the lower wing fixed to the ischium, which can be remodeled during a surgery.

2-

The bone cement buttress enhances the support of the bone cement, and the outer edge with the groove design allows the prosthesis to better attach to the outer edge of acetabulum.

3-

The distance from the center to the edge of the wing is 90 mm/up to 95 mm.



Main Technical Parameters of Acetabular Frame (JX 2901A)
Unit (mm)

Product Model	Specification	Acetabular Diameter
SH4052L	52MML	Φ52
SH4054L	54MML	Φ54
SH4056L	56MML	Φ56
SH4058L	58MML	Φ58
SH4060L	60MML	Φ60
SH4062L	62MML	Φ62

Unit (mm)

Product Model	Specification	Acetabular Diameter
SH4052R	52MMR	Φ52
SH4054R	54MMR	Φ54
SH4056R	56MMR	Φ56
SH4058R	58MMR	Φ58
SH4060R	60MMR	Φ60
SH4062R	62MMR	Φ62



1-

A cup is designed with multiple liners to provide multiple friction interface choices: metal-on-polyethylene, metal-on-VE and metal-on-ceramic interfaces can be achieved, fully meeting the dimensional requirements of ceramic liner components, and matching heads with various diameters.

2-

The liner is press-fitted to the taper of acetabular cup. PE liner and VE liner have the taper annular groove locking mechanism, which facilitates advance and prevents retreat, and the anti-rotational structure of the petal edge provides triple locking, which produces a good fixation effect.

3-

The full-dome mono-hemispheric design reduces wear of polyethylene liner.

4-

The reverse triangular screws are positioned 360-degree uniformly, and the nailing position is reasonable and reliable, providing a broader bone coverage.

5-

The standard coarse titanium coating has a better bone ingrowth effect.

Porous Acetabular Cup JX 2801D			Porous Acetabular Liner JX 3801		
Specification	Product Code	Number of holes	Specification	Product Code	Inner Sphere Diameter
48#	A4555-48	8	48/28	A4555-4828	28
50#	A4555-50		50/28	A4555-5028	28
52#	A4555-52		52/32	A4555-5232	32
54#	A4555-54	10	54/32	A4555-5432	32
56#	A4555-56		56/32	A4555-5632	32
58#	A4555-58		58/32	A4555-5832	32
60#	A4555-60	12	60/32	A4555-6032	32
62#	A4555-62		62/32	A4555-6232	32
64#	A4555-64		62/32	A4555-6232	32
66#	A4555-66		62/32	A4555-6232	32
68#	A4555-68		62/32	A4555-6232	32
70#	A4555-70		62/32	A4555-6232	32
72#	A4555-72		62/32	A4555-6232	32
74#	A4555-74		62/32	A4555-6232	32

XU Unicompartmental Knee Prosthesis



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XU Unicompartmental Knee Prosthesis (DK01 DT01) Main Technical Parameters

1-

Anatomically contoured design matches the patient's bone structure perfectly.

2-

The curves with multiple radiuses at the condyle of femur provides better postoperative feelings for patients

3-

The extended posterior condylar surface results in a better rollback motion and the increased stability in high flexion.

4-

The low-constraint articular surface limits the knee motion to a less extent so that the knee moves more freely.

5-

The three fixation columns below the tibial tray provide a stable placement platform for the prosthesis and simplify the surgical procedure.

6-

More specifications of prostheses are available to satisfy the individual variations among patients.



Main Technical Parameters of Femoral Condylar Unicompartmental Type I DK01
Unit (mm)

Specification and Dimensions	1#	2#	3#	4#	5#
ML	15	17	19	21	23
AP	40	43	46	50	55

Main Technical Parameters of Tibial Tray Unicompartmental Type I DT01
Unit (mm)

Specification and Dimensions	S1#	1#	2#	3#	4#	5#
ML	23	25	27	29	31	33
AP	40	44	46	49	52	56

Main Technical Parameters of Tibial Insert Unicompartmental Type I DD01
Unit (mm)

Specification and Dimensions	S1#	1#	2#	3#	4#	5#
ML	23	25	27	29	31	33
AP	37	40	44	46	49	52

X5 Total Knee Arthroplasty System



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X5 Total Knee Arthroplasty System

1-

The optimized sagittal physiological curve is more in line with the characteristics of knee motion and effectively reduces postoperative discomfort.

2-

Semi-open intercondylar box ensures stable prosthesis installation and minimum osteotomy.

3-

The posterior condylar curves with optimized graduated radiuses lead to the safe high-flexion angles up to 150 degrees.

4-

The optimized patellar articular surface, deeper patellar groove and wider Q angle range guarantee that the patella has a better track of motion to effectively prevent patellar dislocation.

5-

The optimized articular surfaces of the femoral condyle and tibial insert increase the contact area between each other to effectively reduce the contact stress and the polyethylene wear.

6-

The section curvature changing with the specification and the center distance of the section arc leads to more steady matching to the femoral condyle and a low wear extent.



1-

The dovetail-type central press-fit locking improves the safety of insert locking and minimizes the possibility of micromotion with the back of the insert.

2-

Anatomically contoured design better matches the anatomical structure of Chinese patients, and covers the osteotomy section more completely to reduce the occurrence of platform subsidence due to insufficient coverage.

3-

Fourteen tibial plateau specifications are available for surgeons to find the prosthesis best matching the patient.

4-

For the highly polished surface, the roughness Ra is less than 1 μm so that the wear of the polyethylene insert is reduced to a greater extent.

5-

The hyperboloid design of the tibial insert post assures the safety during large-angle flexion and makes for more stable and free flexion movements.



X5 Total Knee Arthroplasty System



Focus on Joint Health
Custom-Made Endoprosthesis

X5 Total Knee Arthroplasty System



Main Technical Parameters of Femoral Condyle (Replacement Type III) (RY A203) Left-right (L/R) Unit (mm)

Specification and Dimensions	1#	M2#	2#	M3#	3#	M4#	4#	M5#	5#	6#	7#
ML	57	58	60	61	63	64	66	67.5	69.5	73	77
AP	52	55.5	55.5	58.5	58.5	61.5	61.5	64.5	64.5	67.5	71



Main Technical Parameters of Tibial Tray (Fixation Type III) (RY B403) Left-right (L/R) Unit (mm)

Specification and Dimensions	M1#	M2#	M3#	M4#	M5#	M6#	M7#
ML	57.5	60.5	63.5	66.5	69.5	72.5	75.5
AP	39	41	43	45	47	49	51

Main Technical Parameters of Tibial Insert (Fixation Type III) (RY C403) Left-right (L/R) Unit (mm)

Specification and Dimensions	M1#	1#	M2#	2#	M3#	3#	M4#	4#	M5#	5#	M6#	6#	M7#	7#
ML	57.5	59	60.5	62	63.5	65	66.5	68	69.5	71	72.5	74	75.5	77
AP	39	40	41	42	43	44	45	46	47	48	49	50	51	52

X4 Total Knee Arthroplasty System



Focus on Joint Health
Custom-Made Endoprotheses

X4 Total Knee Arthroplasty System

1-

The anterior condyle of the femoral prosthesis is provided with reduced width and thickness to decrease the anterior condyloid pressure and quadriceps tension. The same sagittal geometry and the smooth curvature allow the patella not to increase the force of the quadriceps femoris when the knee stretches and flexes. In combination with the deep patellar trochlear groove, it can be ensured that the patella is stable and in the groove even in high flexion without dislocation, and steady contact between the patella and femoral prosthesis is maintained at all times.

2-

The femoral prosthesis is designed with a slightly curved coronal plane to maximize the contact area so as to reduce peak pressure on the polyethylene insert. The point-to-point edge bearing is eliminated during the varus-valgus rotation of the knee, so that the tibiofemoral joint always maintains face-to-face contact.

3-

The anterior patellar notch of the polyethylene insert reduces the additional pressure and tension on the quadriceps femoris during high flexion.

4-

The posterior condylar curvature is increased. The tibiofemoral articular surface remains surface contact rather than point contact when flexion is up to 135 degrees.



5-

Open intercondylar fossa design: The intercondylar osteotomy is reduced, and the bone is preserved to the greatest extent for the patient.

6-

Optimized cam-post structure: The cam is still maintained at the base of the column while the knee is in high flexion, preventing the occurrence of cervical dislocation during high flexion to a limited extent.

7-

A unique insert locking mechanism is provided. The secondary fixation with metal anchors can eliminate the fretting wear between the two.

8-

The tri-wing structure prevents rotation and avoids stress concentration.

X4 Total Knee Arthroplasty System



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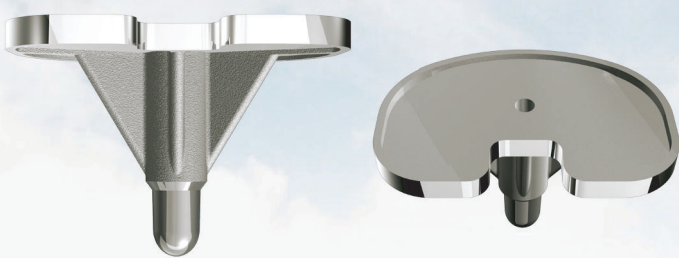
X4 Total Knee Arthroplasty System



Main Technical Parameters of Femoral Condyle (Replacement Type I)
(RY A201)

Unit (mm)

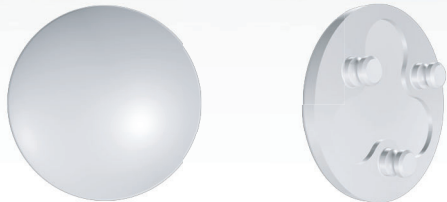
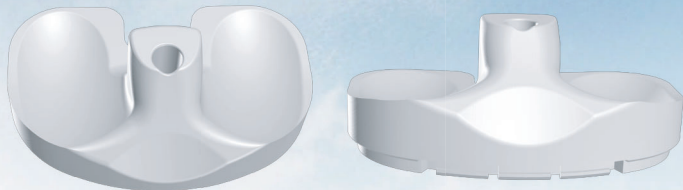
Product Model	Specification	Transverse Diameter	AP Diameter
50111P	1L	57	53
50112P	2L	60	56
50113P	3L	63	59
50114P	4L	66	62
50115P	5L	71	66
50116P	1R	57	53
50117P	2R	60	56
50118P	3R	63	59
50119P	4R	66	62
50120P	5R	71	66



Main Technical Parameters of Tibial Tray (Fixation Type I) (RY B401)

Unit (mm)

Product Model	Specification	Transverse Diameter	AP Diameter
50126	1#	61	41
50127	2#	64	43
50128	3#	67	45
50129	4#	71	47
50130	5#	76	51



Main Technical Parameters of Patella (Fixation Type I)
(RY C401)

Unit (mm)

Product Model	Specification	Transverse Diameter	Thickness
50147B- 8	φ30 /8	Φ 30	8
50141B- 8	φ32 /8	Φ 32	8
50141B- 10	φ32 /10	Φ 32	10
50142B- 8	φ35 /8	Φ 35	8
50142B- 10	φ35 /10	Φ 35	10
50143B- 10	φ38 /10	Φ 38	10

Main Technical Parameters of Tibial Insert (Fixation Type I) (RY C401)

Unit (mm)

Product Model	Specification	Transverse Diameter	AP Diameter
50136P-9	1# / 9mm	61	41
50136P-11	1# / 11mm	61	41
50136P-13	1# / 13mm	61	41
50136P-15	1# / 15mm	61	41
50137P-9	2# / 9mm	64	43
50137P-11	2# / 11mm	64	43
50137P-13	2# / 13mm	64	43
50137P-15	2# / 15mm	64	43
50138P-9	3# / 9mm	67	45
50138P-11	3# / 11mm	67	45
50138P-13	3# / 13mm	67	45
50138P-15	3# / 15mm	67	45
50139P-9	4# / 9mm	71	47
50139P-11	4# / 11mm	71	47
50139P-13	4# / 13mm	71	47
50139P-15	4# / 15mm	71	47
50140P-9	5# / 9mm	76	51
50140P-11	5# / 11mm	76	51
50140P-13	5# / 13mm	76	51
50140P-15	5# / 15mm	76	51

XCKK Total Knee Revision System



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XCKK Total Knee Revision System

- 1-
- The XCKK constrained condylar knee is from the same product platform as the primary knee prosthesis;
The femoral and tibial components can be used completely alternatively to help the surgeon adapt to a variety of surgical conditions:
Ease in handling complex primary surgeries:

 - Varus and valgus deformities,
 - Flexion contracture deformity,
 - Poor ligament function,
 - Bone defects, etc.

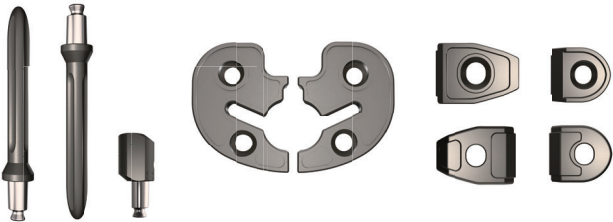
- 2-
- The extension rod with 360-degree eccentricity has the advantages as follows:

 - Ensuring that the extension rod is in the center of the medullary cavity
 - Ensuring that the optimal bone coverage is achieved for the femoral condylar prosthesis and tibial plateau prosthesis;
 - Helping the surgeon avoid excessive reaming in the medullary cavity to ensure high bone coverage;

- 3-
- The excellent repair spacer block can better cope with the bone defect on the femoral and tibial sides, and improve the stability of the implanted prosthesis

Extension rod: Column type
Length: 30 mm, 80 mm and 120 mm
Diameter: 15 mm, 10 mm-18 mm

Connecting sleeve with 360-degree eccentric distance
Eccentric length: 2 mm, 4 mm and 6 mm
Length: 25 mm



Main Technical Parameters of Femoral Condyle (Replacement Type II) (RY A202) Unit (mm)

Specification and Dimensions	1#	2#	3#	4#	5#	6#
ML	57	60	63	66	71	74
AP	53	56	59	62	66	69

Main Technical Parameters of Tibial Tray (Fixation Type II) (RY B402) Unit (mm)

Specification and Dimensions	1#	2#	3#	4#	5#	6#
ML	61	64	67	71	76	79
AP	41	43	45	47	51	54

Main Technical Parameters of Tibial Insert (Fixation Type II) (RY C402) Unit (mm)

Specification and Dimensions	1#	2#	3#	4#	5#	6#
ML	61	64	67	71	76	79
AP	41	43	45	47	51	54

Modular Hip Prosthesis



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Custom-Made Endoprosthesis

Modular Knee Prosthesis

1-

Tendon suture holes are reserved at the greater and lesser trochanters of the prosthesis to maximize the recovery of tendon function.

2-

Secure fixation is achieved with a tapered press-fit locking mechanism between the prosthetic components.

3-

The components can be randomly assembled and flexibly installed during surgeries to achieve precise osteotomy.

4-

The distal medullary cavity is provided in multiple models to provide the surgeon with the optimal choice.

5-

The prosthesis is packaged aseptically and thus is more safe and reliable for use.



1-

This prosthesis is indicated for bone defects due to tumor, comminuted fracture or other reasons at the knee joint.

2-

The knee prosthesis has flexion and rotation functions so as to reduce the rotational stress of broaches and avoid prosthesis loosening.

3-

Secure fixation is achieved between the prosthesis components by means of a tapered press-fit locking mechanism.

4-

The distal broach of the prosthesis is provided in multiple models, such as curved handle and straight handle, to provide the optimal choice for the surgeon.

5-

According to the needs of clinicians, components can be assembled into various artificial joint prostheses including distal femur, proximal tibia, femorotibial joint and total femur.



Artificial Total Femoral Prosthesis



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Artificial Proximal Femoral Hip Prosthesis (XF 1202 and XF 1303)

1-

This joint prosthesis is indicated for the extensive tumors of the femur.

2-

The porous fixation at the proximal end of the prosthesis facilitates the reconstruction of the surrounding soft tissues.

3-

The components can be randomly assembled and can be flexibly installed during an operation.

4-

The extension connector of the total femoral prosthesis has a 15-degree anteversion, which is divided into left and right parts.



1-

It is indicated for the proximal femoral bone defect due to other reasons such as proximal femoral tumor, comminuted fracture and revision.

2-

Different dimensions of joint prostheses may be customized according to the extent of disease and bone defect of any patient.

3-

Porous design is taken at the greater and lesser trochanter reconstruction points, which is favorable for the reconstruction of surrounding soft tissues.

4-

Anatomically contoured femoral broach matches the medullary cavity perfectly to reduce loosening.



Segmental Prostheses (XF 1501 and XF 1502)



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Integrated Knee Prosthesis (Type I) (XR P01)

1-

They are characterized by segmental design, secure locking and simple combination.

2-

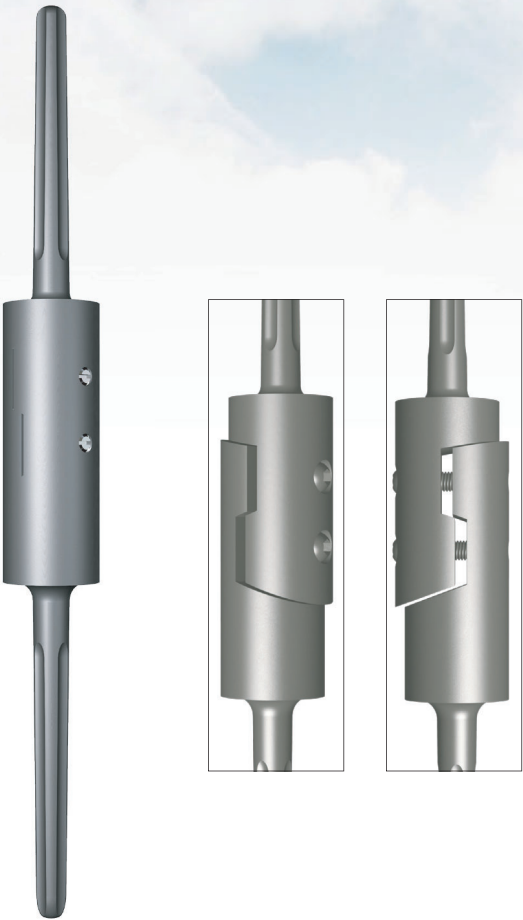
It is indicated for small tumors in the middle segment of long bones, for example, metastatic cancer.

3-

Different dimensions of joint prostheses are customized according to the different conditions of patients.

4-

It can be used with a steel plate to meet the needs of special cases and improve the fixation effect between the prosthesis and the human bone.



1-

The physiological curvature of the femoral lateral broach band is close to the human bone morphology, ensuring uniform thickness of the bone cement.

2-

It has the flexion and rotation function of human natural knee joint, relieves the torque of broach, and makes the prosthesis and bone form an integrated fixation.

3-

The joint surface of femoral-and-tibial plateau contact parts is designed with a press-fit combination of wear-resistant Co-Cr-Mo alloy and ultra-high molecular weight polyethylene to reduce wear and prolong the joint service life.



Integrated Knee Prosthesis (Type II) (XR P02)



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Custom-Made Endoprotheses

Pelvic System (JX 5101)

1-

It is indicated for tumors or comminuted fracture at tibial site of the knee joint. Different dimension and specifications may be customized according to the different conditions of patients and different bone characteristics.

2-

The femoral hemicondylar design preserves more bone.

3-

The six-hole tibial tray and bone graft design are conducive to patellar ligament reconstruction.



1-

The joint prostheses with different dimensions can be customized according to the different conditions of patients.

2-

The assembling of different sizes of accessories facilitates intraoperative angle adjustment.

3-

For lesions in different zones, iliac tray and sacral tray may be provided, and the ultra-radius design of the liner reduces the postoperative dislocation risk.

Pediatric Adjustable Hinge Knee Prosthesis



3D Printed Knee Prostheses with Femoral Condyle Reserved

1-

Extendable microporous hinge knee prosthesis at distal femur of titanium alloy.

2-

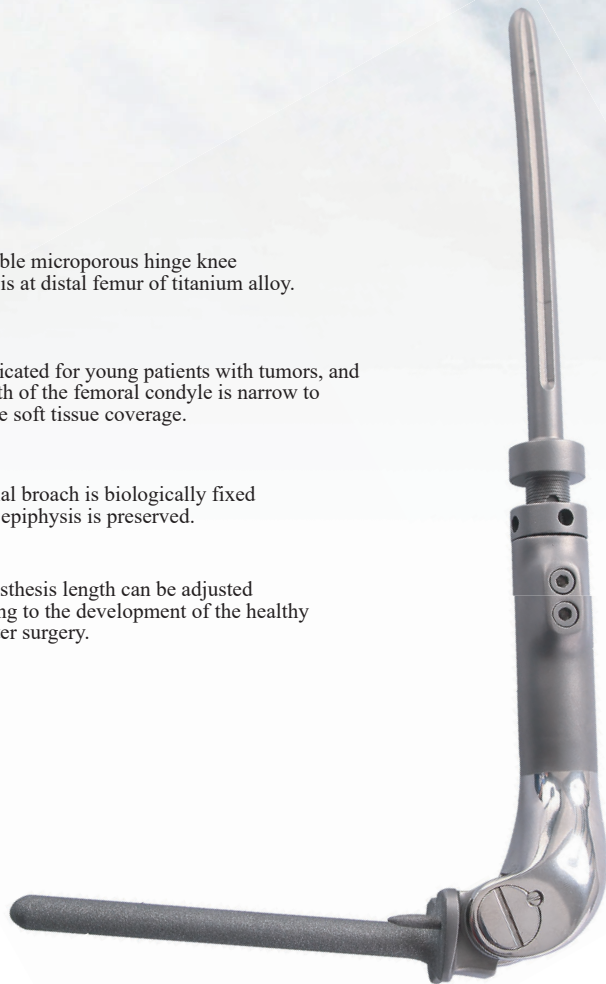
It is indicated for young patients with tumors, and the width of the femoral condyle is narrow to facilitate soft tissue coverage.

3-

The tibial broach is biologically fixed and the epiphysis is preserved.

4-

The prosthesis length can be adjusted according to the development of the healthy limb after surgery.



1-

Customization can be achieved.

2-

This type of prosthesis has a bone trabecula structure with biomimetically designed porosity.

3-

Computer simulation may be used to assist in surgical planning.

4-

The patient's own joint and soft tissue function are preserved.





- 1- Customization can be achieved.
- 2- This type of prosthesis has a bone trabecula structure with biomimetically designed porosity.
- 3- Computer simulation may be used to assist in surgical planning.
- 4- Morphological bionics is more helpful to functional reconstruction.

Main Technical Parameters of Femoral Condylar (Modular Type I) (XR A301) (Unit: mm)

Product Model	Specification	Transverse Diameter	Transverse Diameter
51501-1	1#L	52	45
51501-2	2#L	60	54
51501-3	1#R	52	45
51501-4	2#R	60	54

Main Technical Parameters of Tibial Tray (Modular Type I) (XR B301) (Unit: mm)

Product Model	Specification	Transverse Diameter	Transverse Diameter
51402-1	1#	55	42
51402-2	2#	60	44
51402-3	3#	65	46
51402-4	4#	70	48
51402-5	5#	75	50

Main Technical Parameters of Femoral Condylar (Modular Type II) (XR A302) (Unit: mm)

Product Model	Specification	Transverse Diameter	Transverse Diameter
51401-1	1#L	60	54
51401-2	2#L	65	56
51401-3	3#L	70	59
51401-4	1#R	60	54
51401-5	2#R	65	56
51401-6	3#R	70	59

Main Technical Parameters of Tibial Tray (Modular Type II) (XR B302) (Unit: mm)

Product Model	Specification	Transverse Diameter	Transverse Diameter	Remarks
51502-1	1#	55	42	Revision
51502-2	2#	60	44	
51502-3	3#	65	46	
51506-1	1#	55	42	Revision with bone grafting
51506-2	2#	60	44	
51506-3	3#	65	46	

Parameters of Modular Tumor Joint Prosthesis



Parameters of Modular Tumor Joint Prosthesis

Main Technical Parameters of Tibial Insert (Modular) (XR C301)
(Unit: mm)

Product Model	Specification	Transverse Diameter	AP Diameter
51401-1-11	1#/11mm	55	42
51401-1-13	1#/13mm	55	42
51401-1-16	1#/16mm	55	42
51401-2-11	2#/11mm	60	44
51401-2-13	2#/13mm	60	44
51401-2-16	2#/16mm	60	44
51401-3-11	3#/11mm	65	46
51401-3-13	3#/13mm	65	46
51401-3-16	3#/16mm	65	46
51401-4-11	4#/11mm	70	48
51401-4-13	4#/13mm	70	48
51401-4-14	4#/16mm	70	48

Main Technical Parameters of Universal Shaft (Type I) (XR F01)
(Unit: mm)

Product Model	Specification	Transverse Diameter
51404-51	51mm	51mm
51404-61	61mm	61mm

Main Technical Parameters of Extension Segment of Diaphysis(Type I)
(XR M01)
(Unit: mm)

Product Model	Length
51504-030	30mm
51504-040	40mm
51504-050	50mm
51504-060	60mm
51504-070	70mm
51504-080	80mm
51504-100	100mm
51504-120	120mm
51504-140	140mm
51504-160	160mm
51504-180	180mm
51504-200	200mm

Main Technical Parameters of Extension Segment of Diaphysis (Type II)
(XR M02)
(Unit: mm)

Product Model	Length
51802-080L	80mm
51802-080R	80mm
51803-090L	90mm
51803-090R	90mm

Main Technical Parameters of Medullary Stem Extension (Type I)
(XR D01)
(Unit: mm)

Product Model	Diameter	Length
51503-01	9mm	110mm
51503-02	10mm	125mm
51503-03	11mm	120mm
51503-04	12mm	150mm
51503-05	13mm	150mm
51503-06	14mm	150mm
51503-07	11mm	150mm
51503-08	12mm	120mm

Main Technical Parameters of Medullary Stem Extension(Type II)
(XR D02)
(Unit: mm)

Product Model	Diameter	Length
51409-01	10mm	90mm
51409-02	11mm	100mm
51409-03	12mm	110mm
51409-04	13mm	120mm

Main Technical Parameters of Medullary Stem Extension (Type III)
(XR D03)
(Unit: mm)

Product Model	Diameter	Length
51505-01	9mm	110mm
51505-02	10mm	125mm
51505-03	11mm	120mm
51505-04	12mm	150mm
51505-05	13mm	150mm
51505-06	14mm	150mm
51505-07	11mm	180mm
51505-08	12mm	180mm
51505-09	13mm	180mm
51505-010	14mm	180mm
51505-011	11mm	150mm
51505-012	12mm	120mm
51505-013	13mm	120mm

Main Technical Parameters of Shaft Pin (Type II) (XR G02) (Unit: mm)

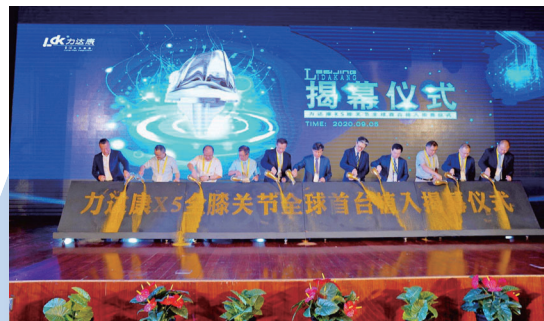
Product Model	Specification	Transverse Diameter
51407-52	52mm	52mm
51407-64	64mm	64mm

LIDAKANG INSTITUTE



Twenty-two years of wind and rain, twenty-two years of innovation and diligence.

From the sailing of the once flat boat to the breaking of the wind and waves in the ocean of medical devices in China nowadays, all the Lidakang people unite and struggle to practice their mission. During the past 22 years, they have always been sticking to the beginner's mind of "Lidakang's devotion to high technology and Kanghua's benefiting people" and actively opened up the road of deep ploughing in the orthopedic industry. Lidakang Institute, one of its subordinates, also continuously cooperates with senior orthopedic experts and hospitals to collect and deposit big data on clinical care and set up excellent courses to establish an important training base for excellent orthopedic talents. Lidakang Institute actively develops the combination between medical science and engineering to promote the domestication of medical devices. It has carried out the love projects and targeted poverty alleviation projects to provide public assistance for poor patients in remote areas, guards the health of patients and serves the future of doctors.



Since its establishment, the collaborative innovation between hospitals and enterprises and the cooperation in building a teaching base have been conducted to vigorously promote the information sharing within the joint prosthesis industry and the popularization of the latest medical technologies and concepts:

Peking University People's Hospital	Beijing Jishuitan Hospital
Chinese PLA General Hospital (Beijing 301 Hospital)	The First Affiliated Hospital of Zhejiang Chinese Medical University
The Second Affiliated Hospital of Xi'an Jiaotong University	Xiangya Hospital Central South University
The First Affiliated Hospital of Guangxi Medical University	Anhui Provincial Hospital
Henan Provincial Orthopaedic Hospital	Guizhou Provincial People's Hospital
Sichuan Provincial People's Hospital	Shanghai Sixth People's Hospital
China-Japan Union Hospital of Jilin University	The First Affiliated Hospital of Harbin Medical University

As of June 2018



Lidakang Institute focuses on building a high-quality expert team in the field of orthopedics, and its expert resources integrate excellent domestic experts and representatives with outstanding contributions in the field of orthopedics, which is also the core resource that Lidakang Institute is proud of. Through the continuous development of academic exchange mode and medical industry project, Lidakang Institute not only establishes close contact with experts to provide multi-faceted solutions, but also sinks expert resources to the grassroots level to improve the academic and practical levels of grassroots doctors, which contributes to the development of joint surgery in China.

With *Made in China 2025* sounding the bugle for domestication of medical devices and stimulating the innovative passion of medical device manufacturers, Lidakang will also continuously accelerate its exploration paces, keep up with the innovation and development of medical ecology, resonate with the leapfrog development of "Made in China", base on a new starting point and cast another new brilliance!



Expert Team of Lidakang Institute