

# Zimmer Biomet Knee Portfolio



**1976**

Oxford® Partial Knee  
(1<sup>st</sup> clinical use)

**1977**

Biomet founded

**1985**

AGC® Total Knee System

**1992**

Maxim® Total Knee System

**1996**

Ascent™ Total Knee System

**2000**

OSS™ Orthopedic  
Salvage System

**1927**

Zimmer founded

**1978**

Insall/Burstein®  
Knee System

**1983**

MG I Total  
Knee System

**1984**

M/G™ Uni Knee

**1986**

Natural-Knee®  
System

**1988**

Insall/Burstein® II  
Knee System

**1989**

MG II® Total  
Knee System

**1994**

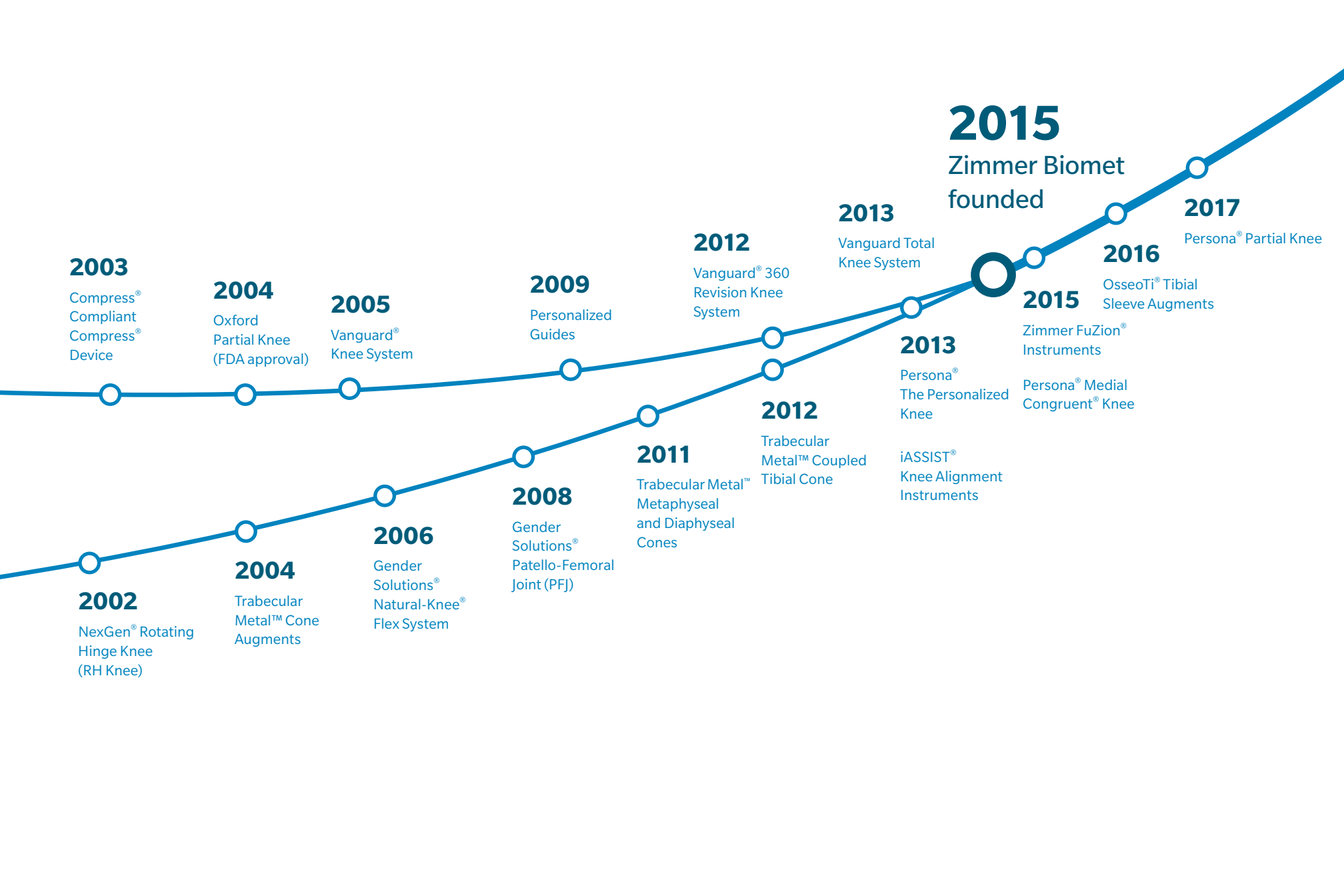
NexGen®  
Complete Knee  
Solution

**1995**

Natural-Knee® II  
System

**1997**

NexGen® Legacy®  
Constrained  
Condylar Knee  
(LCCK)



A close-up, high-angle photograph of a partial knee replacement joint. The image shows the intricate metal and plastic components of the prosthesis, including the femoral condyle and the tibial tray. The lighting is soft and clinical, highlighting the smooth surfaces and the precision of the engineering. The background is a plain, light-colored surface.

# Oxford<sup>®</sup> Partial Knee

The **most widely used**<sup>6</sup> and  
**clinically proven**<sup>7-8</sup> partial knee system in the world.<sup>1</sup>



Oxford Partial Knee



Oxford Fixed Lateral Partial Knee



Persona<sup>®</sup>  
Family

# The **Personalized Knee**®



Persona  
Cruciate Retaining Knee



Persona Partial



Persona Constrained  
Posterior Stabilized Knee



Persona  
Medial Congruent Knee



Persona  
Ultracongruent Knee



Persona  
Posterior Stabilized Knee



Persona Medial  
Congruent Trabecular Metal Knee



**NexGen<sup>®</sup>**  
**Complete Knee**  
**Solution**

# Proven.



NexGen  
Cruciate Retaining Knee



NexGen LPS Flex Fixed  
and Mobile Bearing Knees



NexGen Legacy Constrained  
Condylar Knee (LCCK)



NexGen Rotating Hinge  
Knee (RH Knee)

A close-up photograph of the Vanguard Complete Knee System components. The image shows a polished metal femoral component on the left and a dark, textured tibial component on the right. The femoral component has a smooth, reflective surface, while the tibial component has a matte, porous appearance. The text "Vanguard® Complete Knee System" is overlaid in a large, semi-transparent white font across the center of the image.

**Vanguard®  
Complete Knee  
System**

# Surgical Simplicity.



Vanguard  
Cruciate Retaining Knee



Vanguard  
Anterior Stabilized Knee



Vanguard  
Posterior Stabilized Knee



Vanguard 360  
Revision Knee System



# Limb Salvage

# Continuous Innovation.



OSS Orthopedic Salvage System



Zimmer® Segmental System

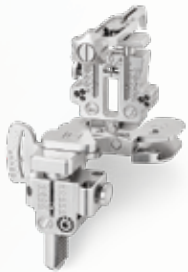


Compress Device



**Advanced  
Technologies**

# Zimmer Biomet holds over **600** patents for **knee** reconstruction devices, instrumentation, methods, and technology.<sup>2</sup>



Zimmer FuZion  
Instruments



OsseoTi  
Sleeve Augments



Trabecular Metal  
Cone Augments



CementON®  
Tibial Molds



StageOne™ Knee  
Cement Spacer Molds



Vivacit-E® Highly  
Crosslinked Polyethylene



# Personalized Solutions



More than **1 in 3** knee replacements  
implanted globally is a **Zimmer Biomet Knee.**<sup>3</sup>



Personalized Guides



iASSIST Knee Alignment Instruments

## Partial



Persona Partial Knee



Oxford Partial Knee



Oxford Fixed Lateral  
Partial Knee



Gender Solutions  
Patello-Femoral Joint (PFJ)

## Primary

### Cruciate Retaining



Persona Medial  
Congruent Knee



Persona Cruciate  
Retaining Knee



Vanguard Cruciate  
Retaining Knee



Vanguard Anterior  
Stabilized Knee



NexGen Cruciate  
Retaining Knee



Gender Solutions  
Natural-Knee Flex Femur



Persona TM Tibia  
with Medial Congruent Knee

## Primary

### Cruciate Sacrificing



Persona Medial Congruent Knee



Persona Ultracongruent Knee



Vanguard Anterior Stabilized Knee



Persona Medial Congruent Trabecular Metal Knee

## Primary

### Posterior Stabilized



Persona Posterior Stabilized Knee



Persona Constrained Posterior Stabilized Knee



Vanguard Posterior Stabilized Knee  
(Vanguard Posterior Stabilized + Knee not shown)



NexGen LPS Flex Fixed and Mobile Bearing Knees

## Revision Knees



Vanguard 360  
Revision Knee System



NexGen Legacy  
Constrained Condylar Knee (LCCK)



NexGen Rotating Hinge Knee  
(RH Knee)

## Limb Salvage



OSS Orthopedic Salvage System



Zimmer® Segmental System



Compress Device

## Advanced Technologies



Zimmer FuZion  
Instruments



OsseoTi  
Sleeve Augments



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Cone Augments



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Cement Spacer Molds



Vivacit-E Highly  
Crosslinked Polyethylene

## Personalized Solutions



Personalized Guides



iASSIST Knee Alignment Instruments

**280** clinical papers published on  
the **Oxford Partial Knee System**<sup>5</sup>

Over **5,000,000**  
NexGen Knee replacements performed, **globally**<sup>4</sup>

Every  
**90 seconds** a patient  
receives a **NexGen Knee**<sup>3</sup>

Vanguard Knee -  
**10** years  
of clinical usage

Over  
**750,000**  
**Oxford Partial Knees**

Oxford Partial Knee -

**40 years**  
of global clinical usage

Over **900,000** Zimmer Biomet Knees  
implanted **globally** in 2015<sup>3</sup>

Over **1,000,000**  
Vanguard Knee replacements performed, **globally**<sup>4</sup>

Every **30 seconds** a patient receives a  
**Zimmer Biomet Knee**<sup>3</sup>

NexGen Knee -  
**20 years**  
of clinical usage

implanted<sup>4</sup>



It's not just what **we make...**  
it's what we make **possible**®



## References

1. Price, A and Svard, U. A Second Decade Lifetable Survival Analysis of the Oxford Unicompartmental Knee Arthroplasty. *Clinical Orthopedics and Related Research*. 469: 174-179. 2011.
2. Patent data available at Zimmer Biomet.
3. 2015 Global sales data available at Zimmer Biomet.
4. Historical sales data available at Zimmer Biomet.
5. Information available with the Clinical Evidence Group at Zimmer Biomet.
6. Data on file at Zimmer Biomet. Based on Market Analysis and Registry Data, gathered September 2017.
7. Price, A. and Svard, U. A Second Decade Lifetable Survival Analysis of the Oxford Unicompartmental Knee Arthroplasty. *Clinical Orthopaedics and Related Research*. Published Online 13 August 2010.
8. Pandit *et al*. The clinical outcome of minimally invasive phase 3 Oxford unicompartmental knee arthroplasty. *Bone Joint J* 2015;97-B:1493–1500.

The Oxford Partial Knee is intended for use in individuals with osteoarthritis or avascular necrosis limited to the medial compartment of the knee and is intended to be implanted with bone cement. The medial Oxford Knee is not indicated for use in the lateral compartment or for patients with ligament deficiency. The Vanguard XP Total Knee is indicated for pain and disability due to osteoarthritis, rheumatoid or traumatic arthritis, correction of varus, valgus, or post traumatic deformity, or unsuccessful osteotomy, arthrodesis, or failure of previous joint replacement procedure. The NexGen LPS-Flex Mobile and LPS-Mobile Bearing Knee System is indicated for patients with severe knee pain and disability due to osteoarthritis, primary and secondary traumatic arthritis, avascular necrosis of the femoral condyle or moderate valgus, varus or flexion deformities and is intended for cemented use only. Potential risks include, but are not limited to, loosening, dislocation, fracture, wear, and infection, any of which can require additional surgery.

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0518.2-US-en-REV0819