The benefits of a Rotating Platform Knee

Unlike traditional knee implants (known as fixed-bearing knees), the Rotating Platform Knee has a special insert that helps your knee move more like it did before your knee replacement. In other words, it accommodates bending and rotation. It was the first knee available in the United States designed to accommodate this type of natural rotation.

The ability of the Rotating Platform Knee to rotate may help reduce wear on your knee by as much as 94%. Just as important, patients followed for several years in a DePuy Orthopaedics multi-surgeon study reported a 97% satisfaction rating with their Rotating Platform Knee five years after surgery.

Important safety information

As with any medical treatment, individual results may vary. The performance of a knee replacement depends on your age, weight, activity level and other factors. There are potential risks, and recovery takes time. People with conditions limiting rehabilitation should not have this surgery. Only an orthopaedic surgeon can tell you if knee replacement is right for you.

References

2. Estimates of degrees of bending and rotation based on an experienced orthopaedic surgeon’s opinion.

To learn more about the Rotating Platform Knee and knee replacement surgery, including recovery information, visit www.kneereplacement.com.

This information is intended only for patients in the United States.
An implant that bends and rotates—
to promote more natural movement

When you’re considering knee replacement surgery, it’s
only natural to want your knee implant to move more
like your original knee. You already know your knee
moves back and forth like a hinge, but did you know it
also rotates?

How much does your knee rotate?

As you bend your knee, it naturally rotates to the right
or left by as much as 15°, depending on the activity
you’re doing. In general, the more you bend your
knee, the more it rotates, as shown below:

<table>
<thead>
<tr>
<th>Activity</th>
<th>Angle of bending</th>
<th>Degrees of rotation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Walking</td>
<td>57°</td>
<td>6°</td>
</tr>
<tr>
<td>Climbing Stairs</td>
<td>60°</td>
<td>8°</td>
</tr>
<tr>
<td>Squatting/Kneeling</td>
<td>162°</td>
<td>15°</td>
</tr>
<tr>
<td>Biking</td>
<td>90°-100°</td>
<td>11°</td>
</tr>
<tr>
<td>Driving</td>
<td>75°-80°</td>
<td>9°</td>
</tr>
</tbody>
</table>

When the knee rotates, stress is placed on the joint.
Rotating Platform Knees are designed to accommodate
these stresses to help increase the implant’s longevity.

DePuy Orthopaedics offers High
Flexion implant options
which may accommodate
for medium to deep
knee flexion.

About the Rotating Platform Knee

The Rotating Platform Knee is a
type of mobile-bearing knee. This
revolutionary technology was
pioneered by DePuy Orthopaedics
30 years ago. Rotating Platform
Knees bend and rotate in a way
that more closely matches natural
movement when compared to
traditional knee replacements.³
DePuy Orthopaedics was
the first company to receive
FDA approval on mobile-
bearing technology in the
United States.

To date, more than 1 million
mobile-bearing knees have been
chosen by surgeons and patients
around the world.⁴ DePuy’s knee
replacements are available in a
wide range of sizes, shapes and
materials, so that the fit will have a
more natural feel and movement.

Your surgeon will choose the best option for you
based on your age, weight, activity levels and other
specific needs.

If you have any questions about Rotating Platform Knee
technology—or knee replacement surgery—talk to your
orthopaedic surgeon.

The benefits of rotation:
• Less wear on your implant
• Provides for more natural movement
• Addresses your anatomical need
  for rotation⁵

Porocoat® Porous Coating

Total weight
Approximately one pound

Femoral component
Height: 2.4", Width: 2.6"*  
Material: Cobalt chromium alloy

Rotating Platform Insert
Size: Varies according to your surgeon’s
assessment of your knee
Material: Medical-grade polyethylene
(hard plastic)

Tibial component
Height: 1.8", Width: 2.8"  
Material: Cobalt chromium alloy

The tibial component can be uncoated (as
shown in photo) or coated with Porocoat®
Porous Coating, (as shown in inset), a
three-dimensional, beaded coating that
allows natural tissues to grow into the implant
without the use of bone cement for added
strength and stability.

* Actual size varies based on patient physiology. 
DePuy knee replacements are available in a
wide range of sizes and are designed to provide
a more natural feel and movement.