



Spherical Osteotomy and DomeSaw<sup>®</sup>

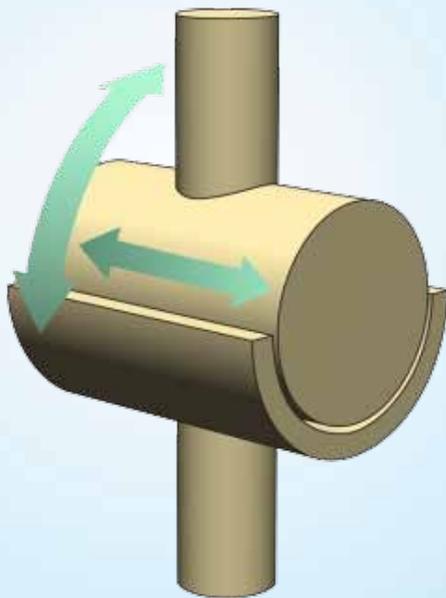
[www.matrixorthopedics.com](http://www.matrixorthopedics.com)

# True Spherical Osteotomy Method and the DomeSaw<sup>®</sup>

*3D Correction with three rotational degrees  
of freedom & unlimited adjustability*

# SPHERICAL OSTEOTOMY

**Dome osteotomy** has been a misnomer for decades in orthopedic surgery. The term has been used to refer to crescentic, barrel vault, or part cylindrically shaped osteotomies. The crescentic blade or similar pattern drill methods create osteotomies that function like a hinge joint with only two degrees of freedom - one rotational and one translational degree of freedom.



The field of orthopedic surgery dealing with angular deformity correction and corrective osteotomy has lacked a simple, economical, and accurate method and corresponding device to accomplish a true **Spherical Osteotomy (SO)**. That is until now. We have spent a decade to develop an accurate, predictable device and method to perform precise spherical osteotomies using the 3D CORA.

**DOMESAW®**

# Matrix Orthopedics, Inc.

is proud to introduce the:

## **DomeSaw®**



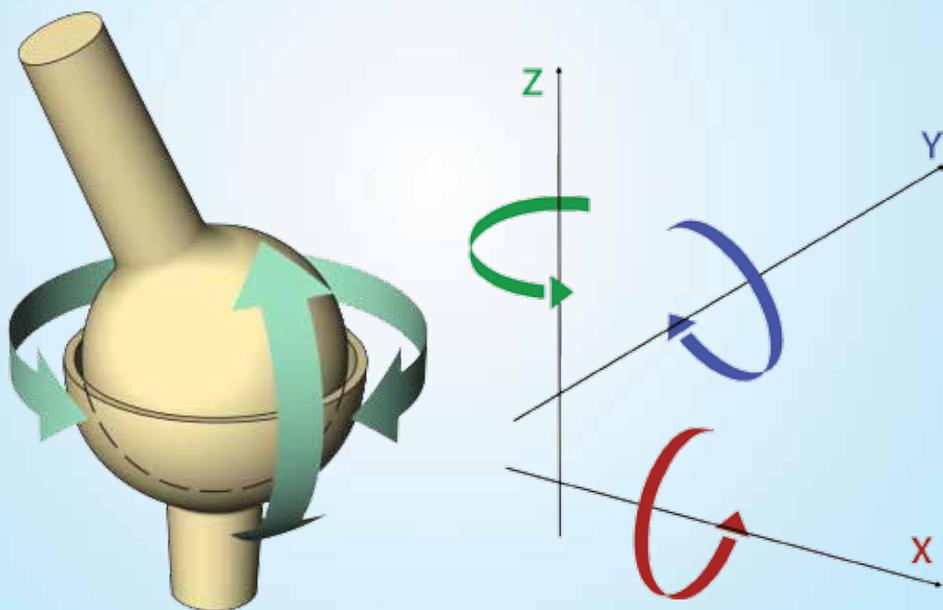
An oscillating blade bit that used together with the:

## **Spherical Osteotomy Method**

will open up possibilities that previously didn't exist for easy, fast, and accurate correction of angular deformities without the need for external fixation devices. Using 3D imaging and reference points from the 3D CORA, the surgeon is able to plan the surgery, produce a solid model, practice, and select the best implant before the actual procedure.

# SPHERICAL OSTEOTOMY

The **DomeSaw®** with the **Spherical Osteotomy** method creates an osteotomy that follows the principles of a universal ball and socket joint, resulting in matching spherical dome (concave and convex) surfaces, that allow surgeons to correct complex deformities involving malalignment and malorientation by rotating about each axis, enabling **correction with three rotational degrees of freedom**, and **unlimited adjustability** - rotate and swivel from side to side in any direction.



# DOMESAW®

The **DomeSaw®** is customizable as far as blade length and width to perfectly match bone sizes for any given orthopedic procedure. Please let us know about your needs.

Currently there are four different sizes available in two different optimized configurations: 12 mm, 18 mm, 24 mm, and 30 mm.



## Benefits

- Made of a surgical stainless steel carbide alloy for exceptional rigidity, strength, hardness, cutting edge sharpness, and repeat sterilization
- Each blade is manufactured using a single piece of stainless steel, no seems or no welds for homogeneous alloy structure
- Cuts 3D laser-verified true spherical shape
- It is self-guiding and balanced to withstand very high oscillating RPMs
- It will not wedge and it is designed to minimize thermal damage to the bone and surrounding soft tissue

# DOMESAW®

DomeSaw® size selection – blade size should closely match the bone diameter.

12 mm



Pricing information online at [www.matrixorthopedics.com](http://www.matrixorthopedics.com)

18 mm



Pricing information online at [www.matrixorthopedics.com](http://www.matrixorthopedics.com)

24mm



Pricing information online at [www.matrixorthopedics.com](http://www.matrixorthopedics.com)

30 mm



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# SPHERICAL OSTEOTOMY

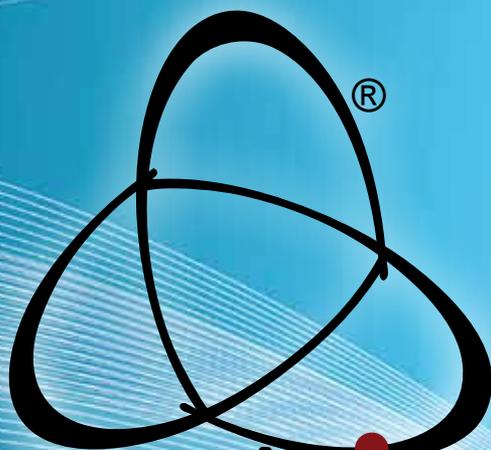


For more information about the DomeSaw®, uses, and prices, or if you have specific questions, contact us at

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or visit our website:

[www.matrixorthopedics.com](http://www.matrixorthopedics.com)



**matrix**  
Orthopedics, Inc.

Spherical Osteotomy and DomeSaw®

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U.S. and international patents pending – DomeSaw® blade;  
spherical osteotomy method as it relates to the use of the  
DomeSaw® and Sphero® blades