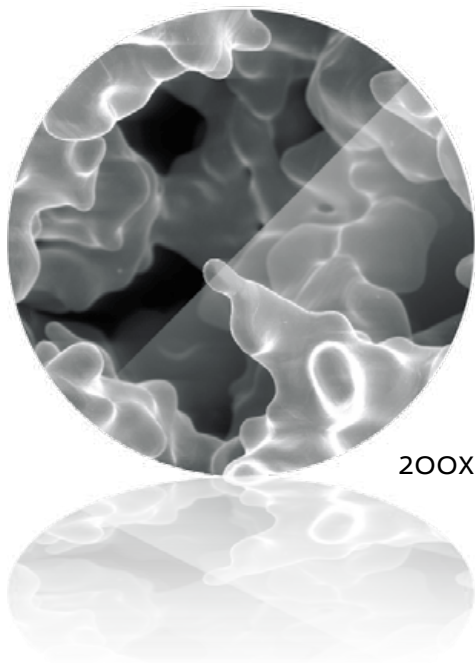


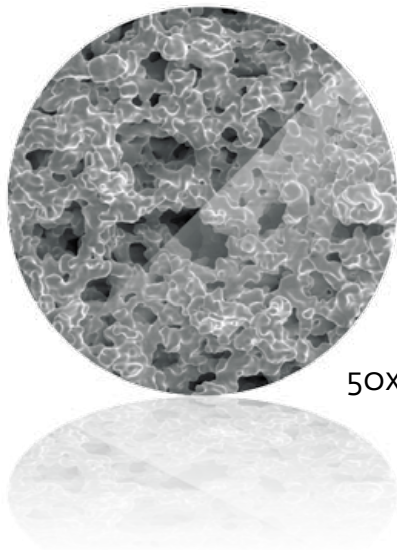
*djosurgical*<sup>™</sup>

**P<sup>2</sup>**<sup>™</sup>

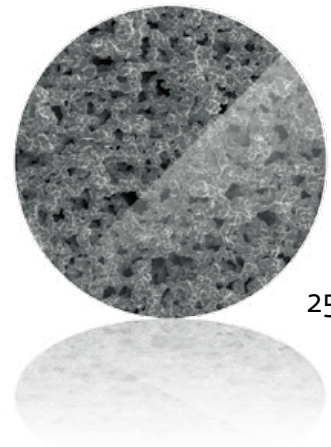
# P<sup>2</sup><sup>TM</sup>



200X



50X



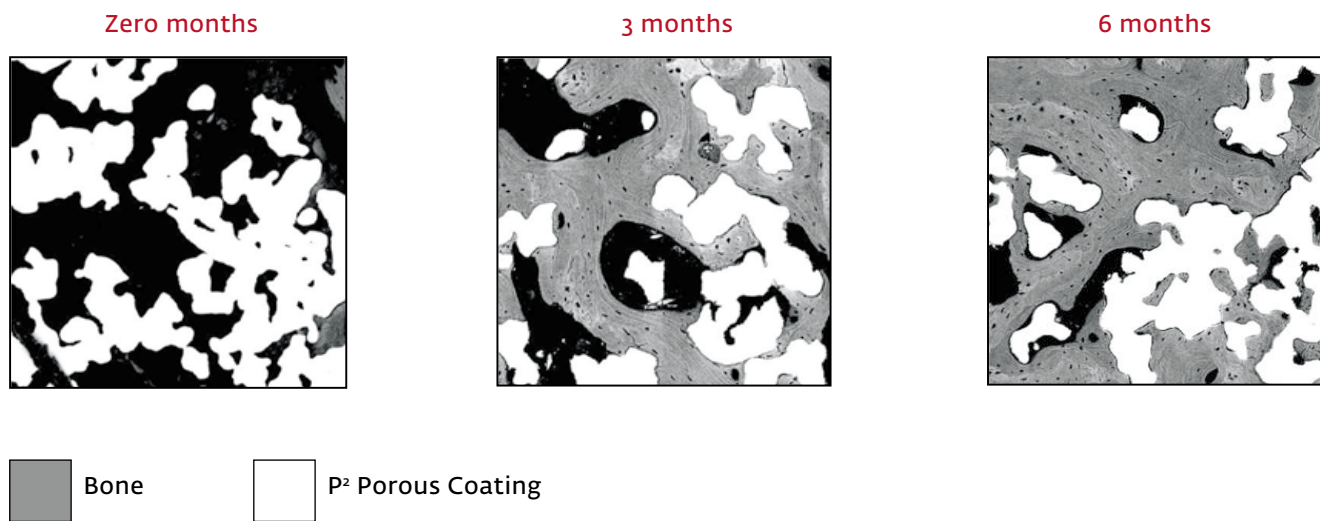
25X

P<sup>2</sup>, a new proprietary **Titanium Porous** coating by DJO Surgical, is the first *porous* porous coating in the world wherein the non-spherical bead itself is also porous – giving it its name, P-Squared (P<sup>2</sup>). Consisting of variability in pore sizes, very similar to a “lava rock” type of structure, P<sup>2</sup> aids in the apposition of bone for superior in-growth results.



## Rapid Bone In-growth

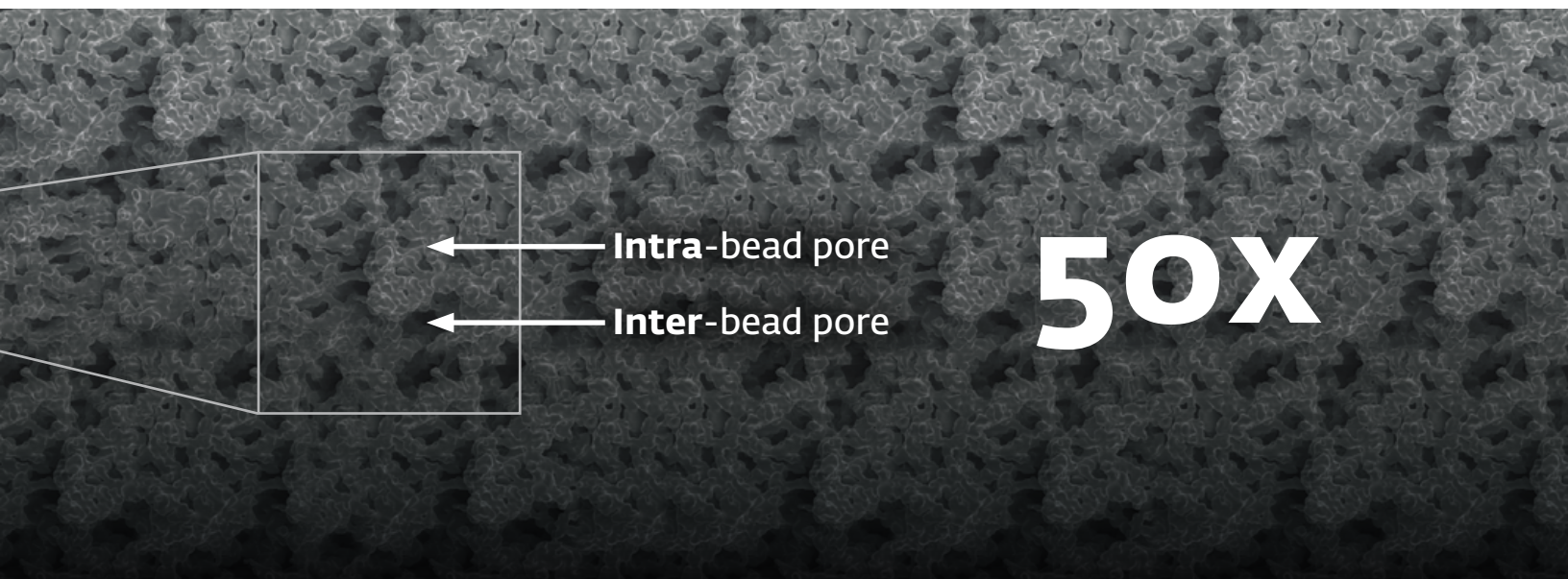
P<sup>2</sup>, backed by the largest porous coating animal study in the world, is able to create instant micro-fractures in the trabeculae upon initial bite to the bone, which causes an instantaneous bone in-growth reaction.<sup>3</sup> By measuring the axial pull-out force required, P<sup>2</sup> demonstrated a minimum 250 pounds of force needed to dissociate the implant from the bone upon immediate implantation at time zero.<sup>4</sup>



## Advanced Porous Coating

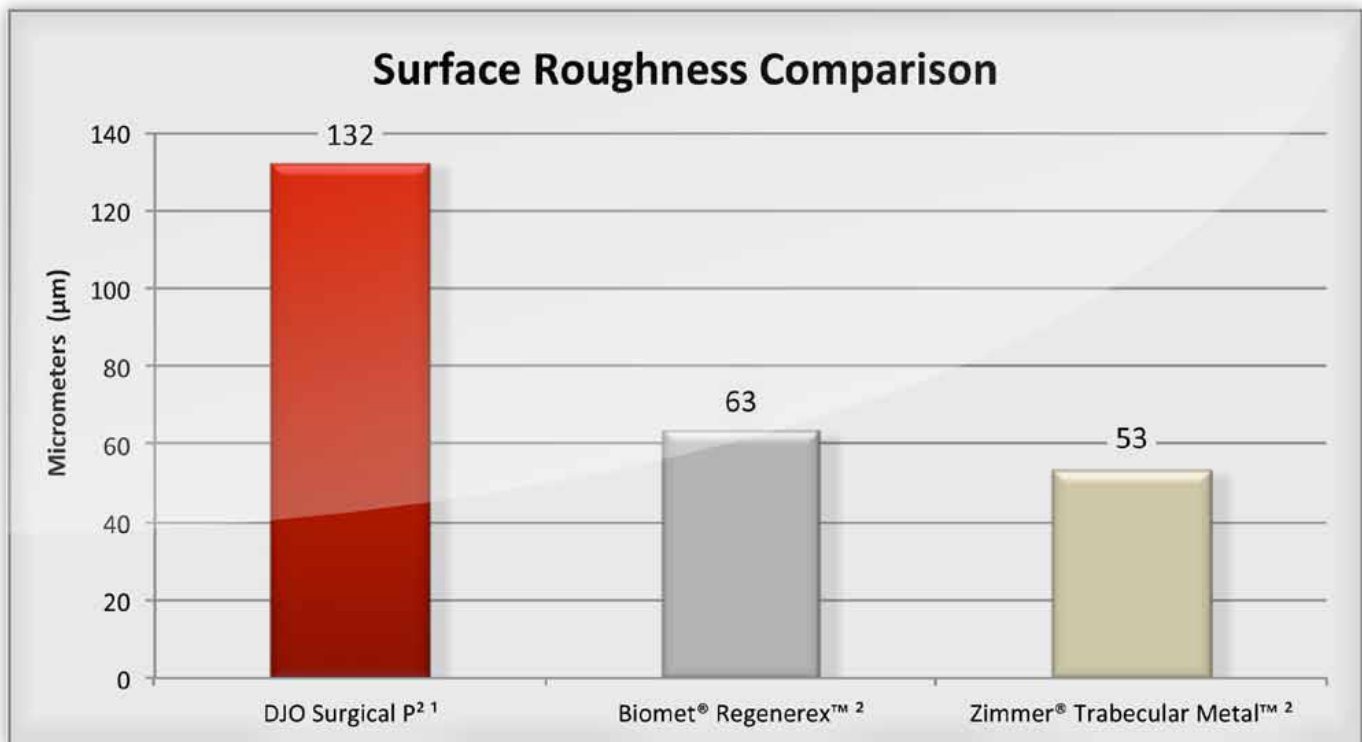
P<sup>2</sup> consists of two ranges of pore sizes – Inter-and Intra-bead. This variability in pore size range is what gives P<sup>2</sup> a distinct advantage in accommodating rapid bone in-growth.

- **Inter**-bead pore size: pore size between each non-spherical bead = 200-525 microns (μm)<sup>1</sup>
- **Intra**-bead pore size: pore size within each non-spherical bead = 25-65 microns (μm)<sup>1</sup>
- Average porosity of 60%<sup>1</sup>



# Superior Surface Structure & Texture

With the unique structure & material characterization, P<sup>2</sup> porous coating has a higher surface roughness than spherical beads and/or newer generations of non-spherical beads, providing for more bone apposition and percent bone in-growth.<sup>1,2</sup> The average P<sup>2</sup> tensile strength exceeds the minimum tensile strength set forth by the FDA by three times.<sup>1,5</sup>



## References

1. Data on file at DJO Surgical.
2. Competitive data retrieved from competitors website.
3. Beck, J.P. et al. Bone Response to Load Bearing Percutaneous Osseointegrated Implants for Amputees: A Sheep Amputation Model. 56th Annual Meeting of the Orthopaedic Research Society. Poster #2085, March 2010.
4. Shelton, T.J. et al. Percutaneous, Osseointegrated Implants: Attachment Strength in a 12 Month Ovine Amputation Model. 57th Annual Meeting of the Orthopaedic Research Society. Poster #1055, January 2011.
5. Bachus, K.N. et al. Bone Ingrowth and Mechanical Stability of Percutaneous, Osseointegrated Implants. 56th Annual Meeting of the Orthopaedic Research Society. Poster #650, March 2010.



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*Together in Motion™*

**CAUTION:** Federal Law (USA) restricts this device to sale by or on the order of a physician.

See package insert for a complete listing of indications, contraindications, warnings, and precautions.