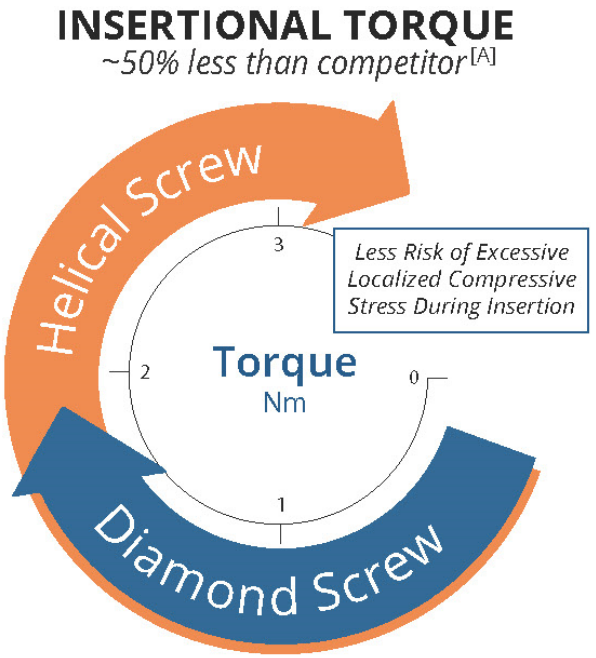
DIAMOND ORTHOPEDIC

Facet Technology Demo Kit

DEMONSTRATION

- **Low Insertional Torque**
- **Tactile Feel**



PROCESS

Locate two unused holes

1) Insert both screws side by side
2) Thread screws 3 turns equally into block
3) Turn non-faceted screw halfway into block
4) Turn faceted screw at least as far
5) Return to non-faceted; compare tactile feel

WHY FACETED THREADFORMS MATTER

- ✓ Better pullout → 61% greater at two weeks post surgery
- ✓ Lower torque to advance screw → potentially less damage to bone
- ✓ Less compressive stress to surrounding tissue → lowers necrosis potential
- ✓ Lower bone counter-rotation and less likely to split bone
- ✓ Product differentiation

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BROCHURE

VIDEO

PULLOUT STRENGTH

In an in vivo ovine study, the Diamond Orthopedic faceted screw demonstrated 61% greater pullout strength compared to the leading helical screw two weeks after surgery[A]

0 Weeks Post-Op [N/mm^3]

2 Weeks Post-Op [N/mm^3]

[A] Based on in vivo ovine testing conducted at OrthoKinetic Testing Technologies as compared to market leading helical screw with same profile. Additional validation testing has been performed in non-biological substrates. Data on file.

TORQUE CONVERSION

The Diamond Orthopedic faceted screw demonstrated 50% greater torque conversion than competitor at 3.5 Nm[B]