OSIMPLANT
Spine Restoration Technology

ARTHOS
Porous Coated Screw

Rigid
Rapid
Effective
fusion

Sizing

Screw Sizes

Ø 4.5 from 25 to 45mm with 5mm increments

Ø 5.5 from 30 to 50mm with 5mm increments.

Ø 6.5 from 30-55 mm with 5mm increments

Ø 7.5 from 35 to 55mm with 5mm increments

Ø 8.5 from 40 to 60mm with 5mm increments + 70mm & 80mm

Ø 9.5 from 60 to 80mm with 10mm increments

Rod Diameter

5.5mm

ARTHOS HIGHLIGHTS

- Titanium Plasma Coated Screw
- The latest advancement in pedicle screw fixation, reduction, osteosynthesis and long term stability
- Rigid, Rapid, Effective Fusion
- Perfect bone fusion
- Good adhesion
- Good biocompatibility
- Strongest biomechanical stability
- Durable against axial, rotational and torsion impact
- Enables 3 column fixation of the spine
- Good pull-out strength

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Obtained thickness - 76±9 mμ

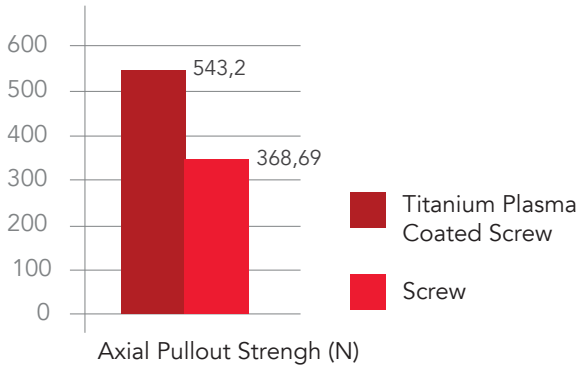
"Titanium plasma coating allows surgeons to excel with rapid and rigid fusion, good biocompatibility and provides optimum solution for osteoporotic patients."

TPS (Titanium plasma spray) Coating Thickness

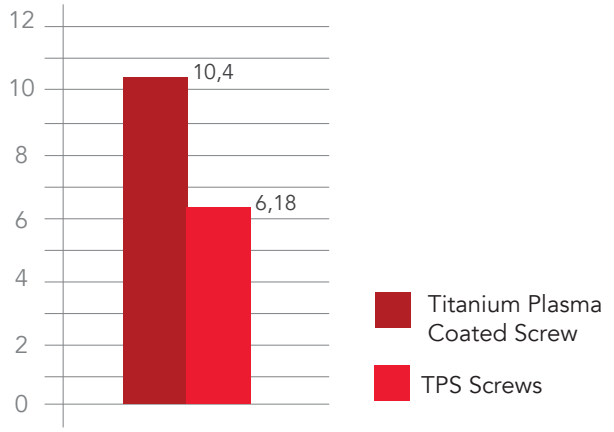
TPS coating layer cohesive strength is high at high layer thickness and benefits of the Titanium materials in coated implants have been widely acknowledged

Mechanical Consistency

Enhance early implant fixation by ingrowth of the bone into pores and rough surface Good early stages of osseointegration between bone and implants surface.



Axial Pullout Strengh (N)



Ultimate Torque (Nm)

Indications

- Single-stage surgery for trauma patients Tumor surgery
- Lateral mass hypoplasia
- For fixation or fusion after laminectomy
- Applicable for cases with poor bone tissue quality such as rheumatoid arthisis
- Kyphotic deformity fractures
- Osteopathic patients

Advantages

- Importance of Stable Primary Fixation and
- Following Osteointegration
- Mechanically and biologically more stable primary
- fixation for the early postoperative periods
- Long-term stability of pedicle screw fixation
- Employed to maximize bone formation and rapid stabilization

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