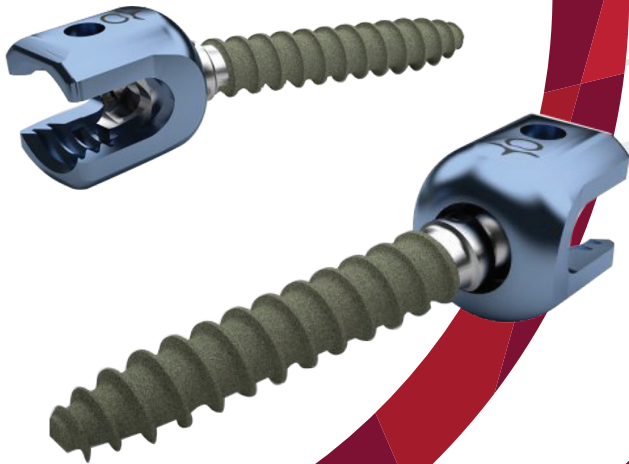




ARTHOS

Porous Coated Screw



**Rigid
Rapid
Effective
fusion**

ARTHOS HIGHLIGHTS

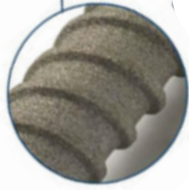
- ✓ Titanium Plasma Coated Screw
- ✓ The latest advancement in pedicle screw fixation, reduction, osteosynthesis and long term stability
- ✓ Rigid, Rapid, Effective Fusion
- ✓ Perfect bone fusion
- ✓ Good adhesion
- ✓ Good biocompatibility
- ✓ Strongest biomechanical stability
- ✓ Durable against axial,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





ARTHOS

Porous Coated Screw



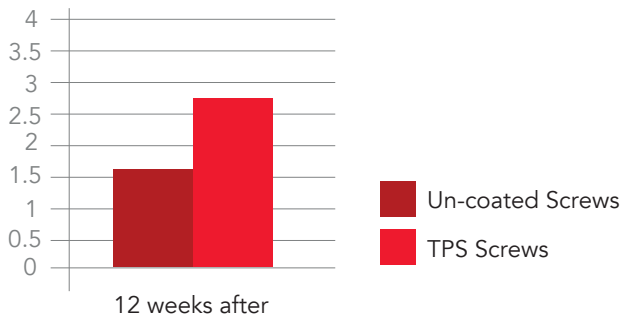
"Titanium plasma coating allows surgeons to excel with rapid and rigid fusion, good biocompatibility and provides optimum solution for osteoporotic patients."

TPS (Titanium plasma spray) Coating Thickness

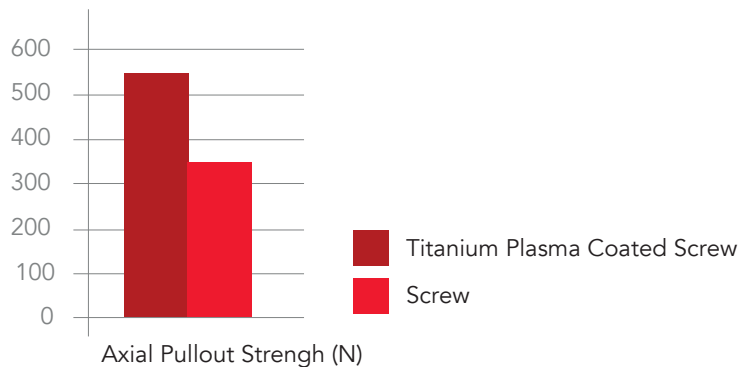
TPS coating layer cohesive strength is high at high layer thickness and benefits of the Titanium materials in coated implants have been widely acknowledged

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.



Pull out strength TIPS coated screws vs un-coated screws



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 arthritis
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