

# NEPTUNE 5.5 MIS PLUS

MIS Fenestrated Pedicle Screw System



# INTRODUCTION

The NEPTUNE™ 5.5 MIS Plus Fenestrated Pedicle Screw System is Posterior Multi-Level Percutaneous Fixation System with cement augmentation. It is designed to allow surgeons to place percutaneous screws and rods over multiple levels without the need for significant exposure. The screws are cannulated with a fenestration along the shank for targeted cement dispersion to enhance fixation within the vertebral body in indicated advanced stage tumor patients.

The NEPTUNE™ 5.5 MIS Plus Fenestrated Pedicle Screw System is intended to provide immobilization and stabilization of the spinal segments in the treatment of acute and chronic instabilities or deformities of the thoracic and lumbar spine in patients with diminished bone quality (e.g. osteoporosis, osteopenia, metastatic disease). It is intended to provide temporary internal support and fixation while fusion mass is consolidating or a fracture is healing, or for the palliative reconstruction of the tumor patients. The implants are manufactured from surgical grade titanium alloy (Ti-6Al-4V).

## System Features

### Negative-angled Buttress-thread Closure Mechanism

Minimizes head splay and cross-threading.

### True Percutaneous Access

The system provides a bulletted percutaneous rod and th option for percutaneous delivery.

### Unique Dual Core Screw Design

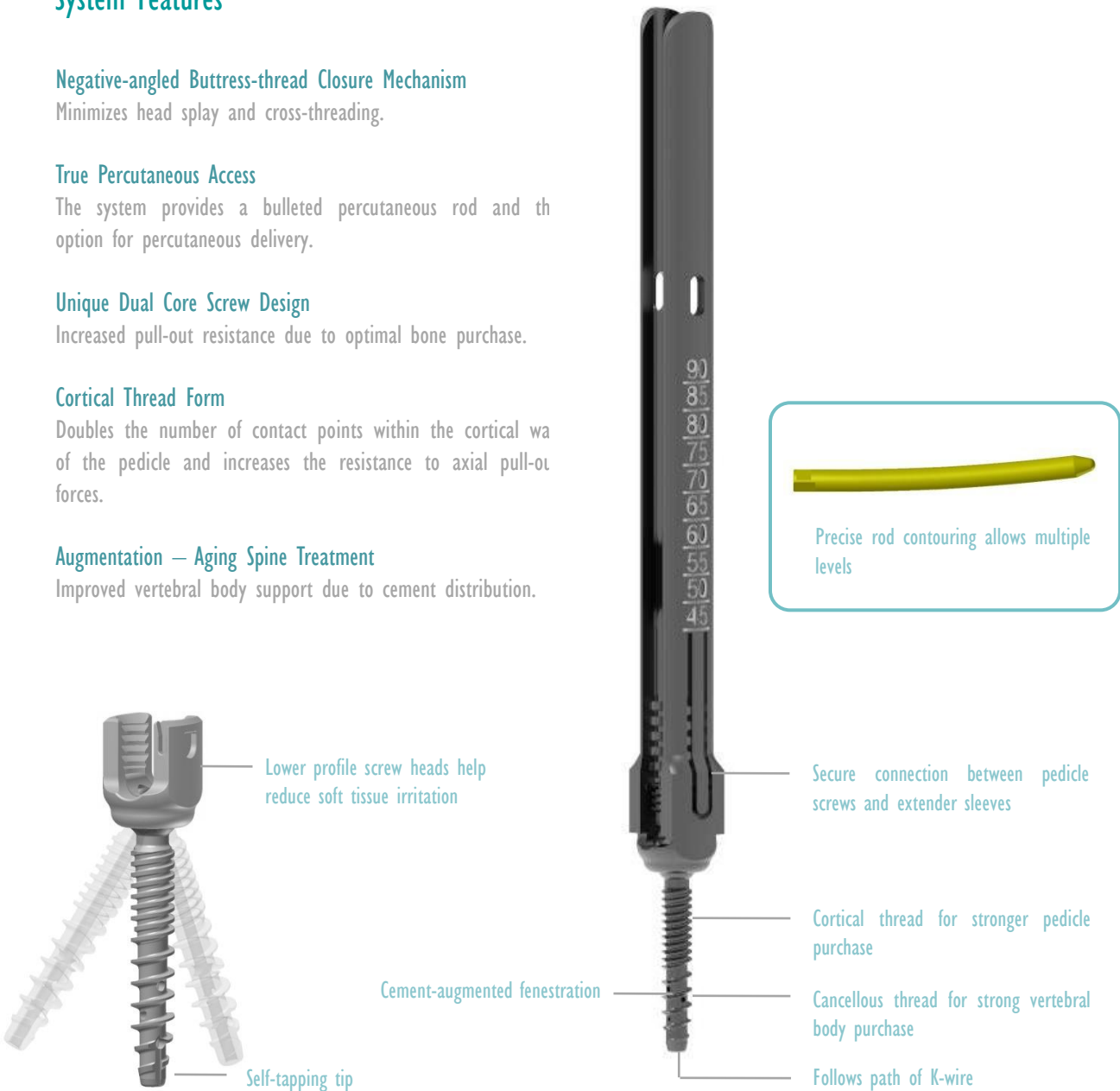
Increased pull-out resistance due to optimal bone purchase.

### Cortical Thread Form

Doubles the number of contact points within the cortical wa of the pedicle and increases the resistance to axial pull-ou forces.

### Augmentation — Aging Spine Treatment

Improved vertebral body support due to cement distribution.



## Indications for Use

The NEPTUNE™ 5.5 MIS Plus Fenestrated Pedicle Screw System is intended to provide immobilization and stabilization of spinal segments in skeletally mature patients as an adjunct to fusion for degenerative disc disease, spondylolisthesis, trauma, spinal stenosis, deformities, tumor, and/or pseudoarthrosis.

## IMPLANT INFORMATION

[Material in Titanium Alloy (Ti-6Al-4V)]



MIS Fenestrated Pedicle Screw, 5.5

DIA (MM)	LENGTH (MM)	REF (TIT)
5.0	30	MOI 37166030
5.0	35	MOI 37166035
5.0	40	MOI 37166040
5.0	45	MOI 37166045
5.0	50	MOI 37166050
5.0	55	MOI 37166055
5.5	30	MOI 37167030
5.5	35	MOI 37167035
5.5	40	MOI 37167040
5.5	45	MOI 37167045
5.5	50	MOI 37167050
5.5	55	MOI 37167055
6.0	30	MOI 37168030
6.0	35	MOI 37168035
6.0	40	MOI 37168040
6.0	45	MOI 37168045
6.0	50	MOI 37168050
6.0	55	MOI 37168055
6.5	30	MOI 37169030
6.5	35	MOI 37169035
6.5	40	MOI 37169040
6.5	45	MOI 37169045
6.5	50	MOI 37169050
6.5	55	MOI 37169055
7.0	30	MOI 37170030
7.0	35	MOI 37170035
7.0	40	MOI 37170040
7.0	45	MOI 37170045
7.0	50	MOI 37170050
7.0	55	MOI 37170055



Set Screw

SIZE	REF (TIT)
5.5	MOI 37137055



MIS Curved Rod, 5.5

DIA (MM)	LENGTH (MM)	REF (TIT)
5.5	35	MOI 37174035
5.5	40	MOI 37174040
5.5	45	MOI 37174045
5.5	50	MOI 37174050
5.5	55	MOI 37174055
5.5	60	MOI 37174060
5.5	65	MOI 37174065
5.5	70	MOI 37174070
5.5	75	MOI 37174075
5.5	80	MOI 37174080
5.5	85	MOI 37174085
5.5	90	MOI 37174090
5.5	100	MOI 37174100
5.5	120	MOI 37174120



MIS Straight Rod, 5.5

DIA (MM)	LENGTH (MM)	REF (TIT)
5.5	35	MOI 37173035
5.5	40	MOI 37173040
5.5	45	MOI 37173045
5.5	50	MOI 37173050
5.5	55	MOI 37173055
5.5	60	MOI 37173060
5.5	65	MOI 37173065
5.5	70	MOI 37173070
5.5	75	MOI 37173075
5.5	80	MOI 37173080
5.5	85	MOI 37173085
5.5	90	MOI 37173090
5.5	100	MOI 37173100
5.5	120	MOI 37173120

## Contraindications

- In fractures and tumors with severe anterior vertebral body disruption, an additional anterior support or column reconstruction is required.
- Osteoporosis when used without augmentation
- Severe osteoporosis



| **SPINE**

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