



MIS Z-Pedicle Screw System

PRECISION - READY FOR SURGERY

The MIS Z-Pedicle Screw System offering surgeons an ideal solution for their indication specific needs. It includes pre-sterilized implants, only one instrument set and an innovative screw design enabling surgeons to efficiently and cost effectively address the most common pathologies. The pedicle screws with lengthening shaft in combination with the patented SnapOff-technique provide a rigid connection between the shaft and the implant and offer the possibility of a direct manipulation without an assembly of additional instruments. Z-Medical implants stand for precision, are single sterile packaged and ready for surgery.

Product Features

MIS Z-Pedicle Screws

The MIS Z-Pedicle Screws are color coded and available in different diameter, length and axialities: Polyaxial, Quattroaxial for fractures and Quattroaxial trans. for scoliosis application.

1. Slim multifunctional lengthening shaft

with only 12mm diameter. All screw types are preloaded and rigidly connected to the implant. With and through this, all surgical steps are performed. The rod can be inserted along the long guiding notch or through a separate incision.

2. Pre-assembled Ini (set screw)

With the pre-assembled Ini (set screw), all manipulations are performed. A reduction of the rod, uprighting in fractures, or derotation of deformities is achieved directly with the Ini and the long reduction thread without additional instruments.

3. Screw Geometry

All screws are self-drilling and self-tapping due to it's unique tip and thread design. A multi conical double thread design increases stability in the pedicle and offers ease of insertion.

4. Patented Z-SnapOff-Technique

A secure and burr-free separation from the lengthening shaft is

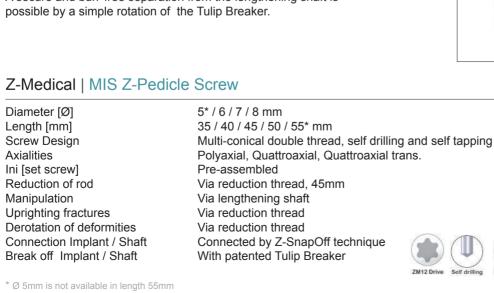
















Indications

MIS Z-PEDICLE SCREW SYSTEM

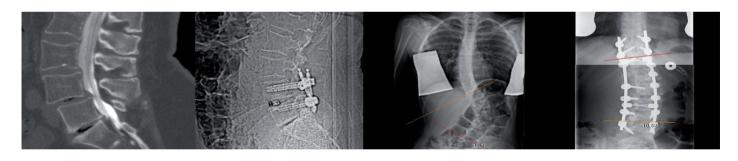
The MIS Z-Pedicle Screw System is intended to provide immobilization and stabilization of spinal segments for posterior, non-cervical pedicle fixation in skeletally mature patients as an adjunct to fusion for the following indications:

- degenerative disc disease (DDD) (defined as back pain of discogenic origin with degeneration of the disc confirmed by history and radiographic studies)
- spondylolisthesis (grade 3 and 4) at L5-S1
- trauma (e.g. fracture or dislocation)
- · spinal stenosis
- curvatures (e.g. scoliosis, kyphosis, and/or lordosis)
- tumor
- pseudoarthrosis
- · failed previous fusion

See IFU and the surgical technique before you use the implants and instruments!

Case Example

DEGENERATIVE / TRAUMA / DEFORMITY / TUMOR



The reduction in fracture- and the derotation in scoliosis treatments are achieved directly with the pre-assembled set screw, the long reduction thread and the especially designed quattroaxial and quattroaxial trans. pedicle screws respectively.

MIS Z-Pedicle Screw | Special Screws for Fracture and Deformity Treatments

Quattroaxial Pedicle Screw (Fracture)



The quattroaxial screws have the mobility of a polyaxial screw in the medial-lateral direction and of a monoaxial screw in the cranio-caudal direction.

This additional degree of freedom facilitates the rod insertion and minimizes undesired tension offering the surgeon the possibility of direct reduction.

Quattroaxial trans. Pedicle Screw (Deformity)



The quattroaxial trans. screws have the mobility of a polyaxial screw in the cranio-caudal direction and of a monoaxial screw in the medial-lateral direction.

This additional degree of freedom facilitates the rod insertion and minimizes undesired tension offering the surgeon the possibility for derotation of the vertebrae.

50° / 5°



SURC

Z-Medical | Patented Pedicle Screws

MIS Z-Pedicle Screw with pre-assembled set screw (Ini) and innovative SnapOff-technique provide a rigid connection between the shaft and the implant and offer the possibility of a direct manipulation without an assembly of additional instruments.



- * Polyaxial Pedicle Screw for degeneration
- * Quattroaxial Pedicle Screw for fractures
- * Quattroaxial trans. Pedicle Screw for deformities



Z-Medical | Instrument Set

Only one instrument set and an innovative screw design enable surgeons to efficiently and cost effectively address the most common pathologies.



- * Optimal intra-operative control
- * Reduction of surgical steps
- * Extension & revision surgeries



Z-Medical | Who we are

Z-Medical GmbH + Co. KG is a privately held and financed medical device company that designs, develops, manufactures and markets innovative implants and surgical instruments in the section of spine, hand & foot and arthroscopy. The company's U.S. subsidary is based in Atlanta, Georgia.



INNOVATION

- * Own developments
- * In-house production
- * Fulfilling international standards
- * Patented internationally



INTEGRITY

- * Professional
- * Faithful with our customers and business partners



TECHNOLOGY

- * CAD-Software including FEM-simulation
- * High-Tech CNC-technology
- * Implant assembly under controlled conditions
- * Made in Tuttlingen, Germany



PRECISION

- * Engineered and manufactured
- * Single sterile packaged
- * Immediately available for surgery





Z-Medical | Indications

The implant and instrument system was designed for a minimally-invasive approach for less tissue disruption, blood loss and trauma.



- * Minimally invasive and open surgeries
- * Approved for Degeneration, Deformity, Trauma and Tumor



Z-Medical | Sterile Packaging

All Z-Implants are single sterile packaged and ready for surgery. Surgeons / OR staff get more flexibility and additionally achieve a maximum of safety for themselves, the hospital and the patient.



- * Reduces rate of infection
- * Cost effective
- * Meets compliance requirements



WebOps | Service and Logistic Partner

WebOps Logistics offers Z-Medical Warehousing, Distribution and Inventory Management solution as well as a web-based software platform to help streamline order initiation, asset tracking, inventory visibility and operations processes which ultimately leads to a high level of customer service for Z-Medical clients.



CUSTOMER SERVICE

- * Obtain Purchase Orders
- * Create Replenishments
- * Manage Inventory
- * Bookkeeping and Invoicing



INVENTORY MANAGEMENT

- * Inventory Traceability
- * Barcoding
- * Instrumentation Kit Assembly
- * Cycle Counts



DISTRIBUTION SERVICES

- * Shipping and Receiving
- * Order Fulfillment
- * Kit/Set Management
- * Instrument Inspection and Light Cleaning



STORAGE & SHIPPING

- * Climate Controlled Facility
- * Secure 24/7
- * Scalable storage space
- * International and Domestic Shipping



MIS Z-Pedicle Screws

STERILE, TITANIUM

| Ø L | Polyaxial 50° | Quattroaxial 5°/50° | Quattroaxial trans. 50°/5° | |
|--------|-------------------------|------------------------|----------------------------|--|
| 5 x 35 | A06 051_US | A06 151_US | A06 451_US | |
| 5 x 40 | A06 052_US | A06 152_US | A06 452_US | |
| 5 x 45 | A06 053_US | A06 153_US | A06 453_US | |
| 5 x 50 | A06 054_US | A06 154_US | A06 454_US | |
| 6 x 35 | A06 061_US | A06 161_US | A06 461_US | |
| 6 x 40 | A06 062_US | A06 162_US | A06 462_US | |
| 6 x 45 | A06 063_US | A06 163_US | A06 463_US | |
| 6 x 50 | A06 064_US | A06 164_US | A06 464_US | |
| 6 x 55 | A06 065_US | A06 165_US | A06 465_US | |
| 7 x 35 | A06 071_US | A06 171_US | A06 471_US | |
| 7 x 40 | A06 072_US | A06 172_US | A06 472_US | |
| 7 x 45 | A06 073_US | A06 173_US | A06 473_US | |
| 7 x 50 | A06 074_US | A06 174_US | A06 474_US | |
| 7 x 55 | A06 075_US | A06 175_US | A06 475_US | |
| 8 x 35 | A06 091_US | A06 191_US | A06 491_US | |
| 8 x 40 | A06 092_US | A06 192_US | A06 492_US | |
| 8 x 45 | A06 093_US | A06 193_US | A06 493_US | |
| 8 x 50 | A06 094_US | A06 194_US | A06 494_US | |
| 8 x 55 | A06 095_US | A06 195_US | A06 495_US | |

Instruments

STERILE, STAINLESS STEEL Ø 1.5

| Art. No. | Description | Q |
|-----------|---|---|
| A06 081 S | Z-Guide Wire, round / round, single use | 2 |

- L. = Length in mm
 Ø = Diameter in mm
 Art. No. = Article Number
 Q = Packaging unit

Z-Rods

STERILE, TITANIUM, Ø 5.5 mm

| L. | pre-bent | L. | pre-bent |
|----|------------|-----|------------|
| 30 | A06 350_US | 85 | A06 361_US |
| 35 | A06 351_US | 90 | A06 362_US |
| 40 | A06 352_US | 95 | A06 363_US |
| 45 | A06 353_US | 100 | A06 364_US |
| 50 | A06 354_US | 110 | A06 366_US |
| 55 | A06 355_US | 120 | A06 368_US |
| 60 | A06 356_US | | |
| 65 | A06 357_US | | |
| 70 | A06 358_US | | |
| 75 | A06 359_US | | |
| 80 | A06 360_US | | |

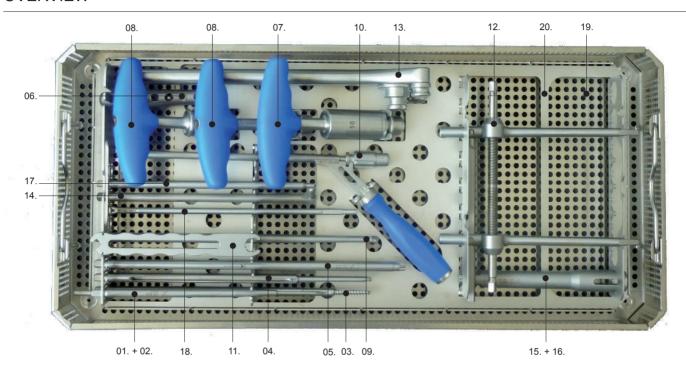
| L. | straight |
|-----|------------|
| 130 | A06 390_US |
| 140 | A06 391_US |
| 150 | A06 392_US |
| 160 | A06 393_US |
| 180 | A06 394_US |
| 200 | A06 395_US |
| 220 | A06 396_US |
| 240 | A06 397_US |
| 260 | A06 398_US |
| 280 | A06 399_US |
| 300 | A06 400_US |

L. = Length in mm
Ø = Diameter in mm
Art. No. = Article Number
Q = Packaging unit



Instrument Set

OVERVIEW



| Basic Instruments | | Art. No. | Quantity |
|-------------------|--|----------|----------|
| 01. | Awl | A06 383 | 2 |
| 02. | Awl Inner Part | A06 309 | 2 |
| 03. | Thread Drill | A06 380 | 1 |
| 04. | Screwdriver Pedicle Screw | A06 006 | 2 |
| 05. | Screwdriver Ini | A06 005 | 2 |
| 06. | Screwdriver Handle | C07 909 | 1 |
| 07. | T-handle with Torque Limiter | A06 007 | 1 |
| 08. | T-handle with Ratchet | A06 374 | 2 |
| 09. | Tulip Breaker | A06 370 | 2 |
| 10. | Rodinserter | A06 300 | 2 |
| 11. | Counter Support | A06 373 | 2 |
| 12. | Distraction- and Compression Instrument (Dico) | A06 500 | 1 |
| 13. | Rodbender | A06 381 | 1 |
| Revis | sion Instruments | | |
| 14. | Screwdriver Revision | A06 310 | 1 |
| 15. | Tulipadapter | A06 306 | 1 |
| 16. | Clamping Tube | A06 389 | 1 |
| 17. | Revision Instrument Inner Part | A06 384 | 1 |
| 18. | Chuck Rod | A06 385 | 1 |
| Conta | ainer | | |
| 19. | Rack | A06 508 | 1 |
| 20. | Perforated Container | A06 488 | 1 |
| | | | |



Warehousing, Distribution and Inventory Management





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