

# POSEIDON™

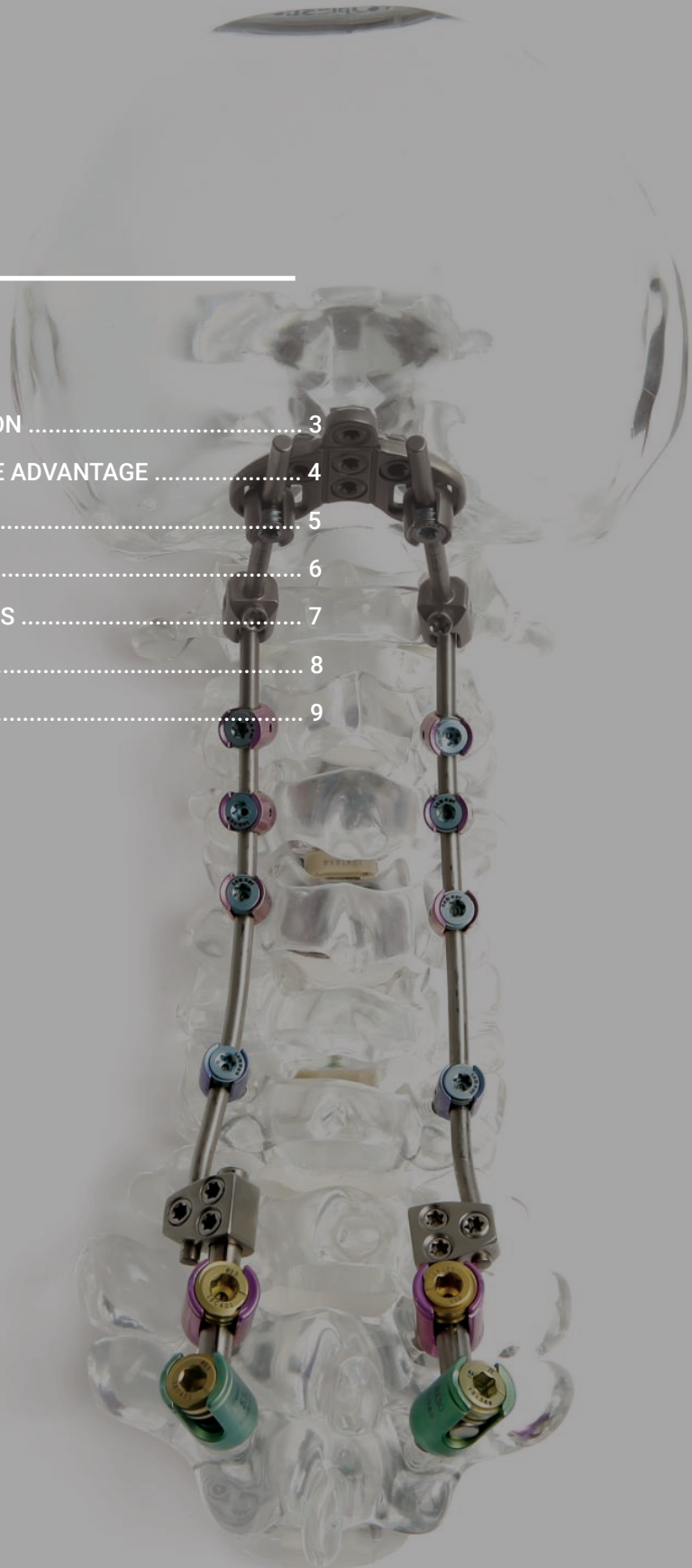
POSTERIOR OCCIPITO-CERVICO-THORACIC (OCT) SYSTEM



# CONTENTS

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|  |   |
|--|---|
| POSEIDON™ SYSTEM INTRODUCTION .....          | 3 |
| POSEIDON™ SYSTEM COMPETITIVE ADVANTAGE ..... | 4 |
| POSEIDON™ SCREWS .....                       | 5 |
| POSEIDON™ RODS .....                         | 6 |
| POSEIDON™ HOOKS & CONNECTORS .....           | 7 |
| POSEIDON™ OCP & CROSSLINKS .....             | 8 |
| POSEIDON™ INSTRUMENTS .....                  | 9 |



## INTRODUCTION

The POSEIDON™ Spinal Fixation System is designed to provide simple and comprehensive stabilization solutions for posterior spinal fixation of the Occipito-Cervico-Thoracic spine.

This unique system combines simplicity and versatility allowing the surgeon to design constructs which are responsive to the unique anatomy and the requirements of the pathology being treated

- 3.5mm Rods system
- 3.5mm/4.0mm Poly Axial Screws Diameter
- Lateral Mass Screws, Pedicles Screws, Smooth Shank Screws available
- Reduction Screws also available
- Straight, pre-bending Rods from 30mm to 400mm
- Transition Rods available from  $\varnothing$ 3.5mm rod with  $\varnothing$ 4.5/5.5/6.0mm
- Wide range of connectors  
( $\varnothing$ 3.5mm rod to  $\varnothing$ 3.5/4.5/5.0/5.5/6.0/6.35mm rods )

## INDICATIONS

The POSEIDON™ Spinal Fixation System is used for Instabilities In the upper cervical and in the occipitocervical region:

- Degenerative Disc Disease
- Spondylolisthesis
- Spinal stenosis
- Fracture and dislocation
- Atlantoaxial fracture with instability
- Occipito-cervical dislocation
- Revision of previous cervical spine surgery
- Tumors

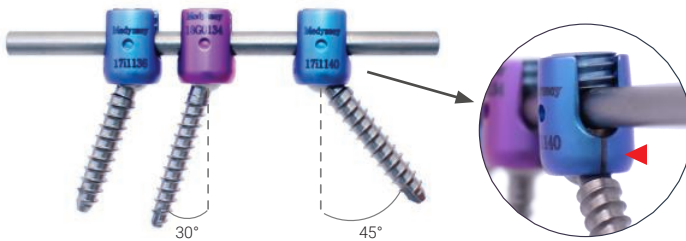
## CONTRAINDICATIONS

- Severe osteoporosis
- Previous history of infection
- Excessive local inflammation
- Open wounds
- Obesity
- Patients having inadequate tissue coverage of the operative site
- Pregnancy, a condition of senility, mental illness, or substance abuse
- Foreign body sensitivity

\*For more details, please refer to the POSEIDON™ IFU.



## POSEIDON™ SYSTEM COMPETITIVE ADVANTAGE



### • Biased Angle

The POSEIDON™ Poly Axial Screw has a 60° cone of angulation with an additional 15° biased in one direction. The black laser line on the housing indicates that this side of screw has a 45° angulation while the other side has 30°. This additional biased angulation (on the black laser line) allows optimal contact with the posterior elements in situation where the patients presents with challenging anatomy.



### • Smooth Shank Screw

The POSEIDON™ Smooth Shank Poly Axial screws are available in diameter of 4.0mm. The Smooth Shank Screw has a non-threaded shank to potentially avoid nerve root or tissue irritation.



### • Reduction Screw

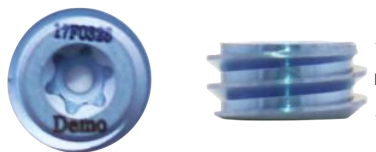
The POSEIDON™ reduction screws are available in both poly Axial screws and smooth shank screws. The reduction screw provides extra reach when the rod is further away from the screw head. It becomes a normal poly axial screw after reduction tabs have been removed.



## POSEIDON™ SCREWS (FOR Ø3.5MM ROD)

| Head Diameter(mm) = 8.5 |         | POLY AXIAL SCREW |           | SMOOTH SHANK SCREW |           |   |
|-------------------------|---------|------------------|-----------|--------------------|-----------|---|
| D(mm)                   | L (mm)  | POLY             | REDUCTION | SMOOTH SHANK       | REDUCTION |   |
| 3.5                     | 10      | PP03510          | RPP3510   | -                  | -         |   |
|                         | 12      | PP03512          | RPP3512   | -                  | -         |   |
|                         | 14      | PP03514          | RPP3514   | -                  | -         |   |
|                         | 16      | PP03516          | RPP3516   | -                  | -         |   |
|                         | 18      | PP03518          | RPP3518   | -                  | -         |   |
|                         | 20      | PP03520          | RPP3520   | -                  | -         |   |
|                         | 22      | PP03522          | RPP3522   | -                  | -         |   |
|                         | 24      | PP03524          | RPP3524   | -                  | -         |   |
|                         | 26      | PP03526          | RPP3526   | -                  | -         |   |
|                         | 28      | PP03528          | RPP3528   | -                  | -         |   |
|                         | 30      | PP03530          | RPP3530   | -                  | -         |   |
|                         | 32      | PP03532          | RPP3532   | -                  | -         |   |
|                         | 34      | PP03534          | RPP3534   | -                  | -         |   |
|                         | 36      | PP03536          | RPP3536   | -                  | -         |   |
|                         | 4.0     | 10               | PP04010   | RPP4010            | -         | - |
|                         |         | 12               | PP04012   | RPP4012            | -         | - |
| 14                      |         | PP04014          | RPP4014   | -                  | -         |   |
| 16                      |         | PP04016          | RPP4016   | -                  | -         |   |
| 18                      |         | PP04018          | RPP4018   | -                  | -         |   |
| 20                      |         | PP04020          | RPP4020   | PPOS4020           | RPPS4020  |   |
| 22                      |         | PP04022          | RPP4022   | PPOS4022           | RPPS4022  |   |
| 24                      |         | PP04024          | RPP4024   | PPOS4024           | RPPS4024  |   |
| 26                      |         | PP04026          | RPP4026   | PPOS4026           | RPPS4026  |   |
| 28                      |         | PP04028          | RPP4028   | PPOS4028           | RPPS4028  |   |
| 30                      |         | PP04030          | RPP4030   | PPOS4030           | RPPS4030  |   |
| 32                      |         | PP04032          | RPP4032   | PPOS4032           | RPPS4032  |   |
| 34                      | PP04034 | RPP4034          | PPOS4034  | RPPS4034           |           |   |
| 36                      | PP04036 | RPP4036          | PPOS4036  | RPPS4036           |           |   |

### \* SET SCREW



| CODE  | Dia Ø  | L     |
|-------|--------|-------|
| SA070 | Ø7.0mm | 3.2mm |

# POSEIDON™ ROD(TITANIUM ALLOY)

\* 4.0mm Rods also available

## STRAIGHT TI ROD



| CODE   | Dia Ø  | L     |
|--------|--------|-------|
| R35030 | Ø3.5mm | 30mm  |
| R35040 |        | 40mm  |
| R35050 |        | 50mm  |
| R35060 |        | 60mm  |
| R35080 |        | 80mm  |
| R35090 |        | 90mm  |
| R35100 |        | 100mm |
| R35120 |        | 120mm |
| R35140 |        | 140mm |
| R35160 |        | 160mm |
| R35180 |        | 180mm |
| R35200 |        | 200mm |
| R35240 |        | 240mm |
| R35260 |        | 260mm |

## TRANSITION ROD



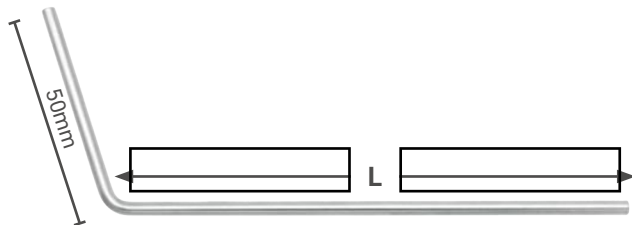
| CODE    | Dia Ø         | L     |
|---------|---------------|-------|
| DR3545  | Ø3.5 X Ø4.5mm | 200mm |
| DR3555  | Ø3.5 X Ø5.5mm | 200mm |
| DR3560  | Ø3.5 X Ø6.0mm | 200mm |
| DR3545L | Ø3.5 X Ø4.5mm | 400mm |
| DR3555L | Ø3.5 X Ø5.5mm | 400mm |
| DR3560L | Ø3.5 X Ø6.0mm | 400mm |

## OCP ROD



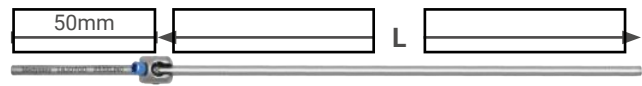
| CODE    | Dia Ø  | L     |
|---------|--------|-------|
| OR35120 | Ø3.5mm | 120mm |
| OR35240 |        | 240mm |

## OCP PRE-BENDING ROD



| CODE    | Dia Ø  | L     |
|---------|--------|-------|
| BR35120 | Ø3.5mm | 120mm |
| BR35220 |        | 220mm |

## HINGE ROD



| CODE    | Dia Ø  | L     |
|---------|--------|-------|
| HR35120 | Ø3.5mm | 120mm |
| HR35240 |        | 240mm |

# POSEIDON™ HOOKS & CONNECTORS

## LAMINA HOOK(FOR 3.5MM ROD)



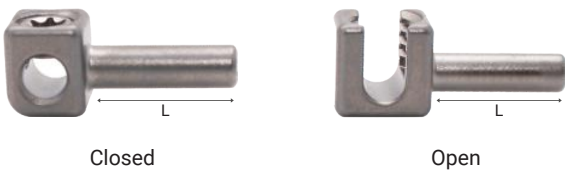
| CODE  | Dia Ø | L     |
|-------|-------|-------|
| PLH54 | 5mm   | 4.5mm |
| PLH56 | 5mm   | 6mm   |
| PLH74 | 7mm   | 4.5mm |
| PLH76 | 7mm   | 6mm   |

## OFFSET LAMINA HOOK (FOR 3.5MM ROD)



| CODE  | W     |
|-------|-------|
| OLH4R | 4.5mm |
| OLH6R | 6mm   |
| OLH4L | 4.5mm |
| OLH6L | 6mm   |

## LATERAL OFFSET CONNECTOR (FOR 3.5MM ROD)



| Closed | Open  | L    |
|--------|-------|------|
| LOC08  | LNC08 | 8mm  |
| LOC10  | LNC10 | 10mm |
| LOC12  | LNC12 | 12mm |
| LOC14  | -     | 14mm |

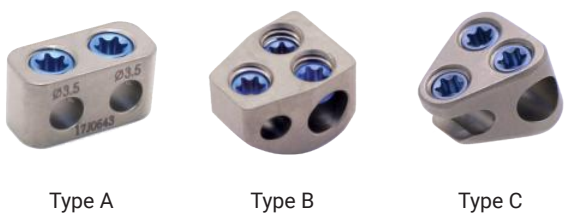
## ROD TO ROD CONNECTOR



|          | CODE      | Dia Ø         | L   |
|----------|-----------|---------------|-----|
| Standard | RC755358  | Ø3.5 X Ø5.5mm | 7mm |
|          | RC760358  | Ø3.5 X Ø6.0mm |     |
| Angle    | RCA755358 | Ø3.5 X Ø5.5mm |     |
|          | RCA760358 | Ø3.5 X Ø6.0mm |     |

\*Length is from 7mm up to 16mm

## ROD TO ROD CONNECTOR

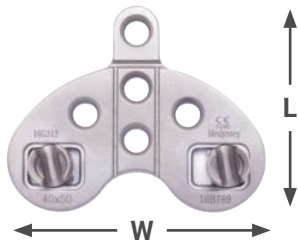


| Type A | Type B | Type C   | Dia Ø         |
|--------|--------|----------|---------------|
| PC3535 | -      | -        | Ø3.5 X Ø3.5mm |
| -      | PC3545 | -        | Ø3.5 X Ø4.5mm |
| -      | PC3550 | -        | Ø3.5 X Ø5.0mm |
| -      | PC3555 | PCOC3555 | Ø3.5 X Ø5.5mm |
| -      | PC3560 | PCOC3560 | Ø3.5 X Ø6.0mm |

# POSEIDON™ OCP & CROSSLINKS

## OCCIPITAL PLATE AND SCREW (FOR 3.5MM)

### 5 Hole Occipital Plate



| CODE    | W    | L    |
|---------|------|------|
| OCP540  | 40mm | 30mm |
| OCP550  | 50mm | 40mm |
| LOCP540 | 40mm | 30mm |
| LOCP550 | 50mm | 40mm |

### Occipital Screw



| CODE    | L    |
|---------|------|
| OCB4506 | 6mm  |
| OCB4507 | 7mm  |
| OCB4508 | 8mm  |
| OCB4509 | 9mm  |
| OCB4510 | 10mm |
| OCB4511 | 11mm |

\*Length available up to 18mm

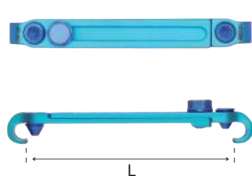
## CROSSLINKS (FOR 3.5MM)

### Round Type (Adjustable)



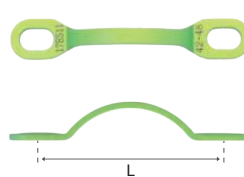
| CODE   | L    |
|--------|------|
| CLP18R | 18mm |
| CLP21R | 21mm |
| CLP25R | 25mm |
| CLP33R | 33mm |
| CLP49R | 49mm |

### Straight Type (Adjustable)



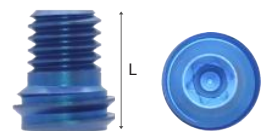
| CODE   | L    |
|--------|------|
| CLP18A | 18mm |
| CLP21A | 21mm |
| CLP25A | 25mm |
| CLP33A | 33mm |
| CLP49A | 49mm |

### Head to Head Type



| CODE   | L    |
|--------|------|
| CLP21H | 21mm |
| CLP28H | 28mm |
| CLP35H | 35mm |
| CLP42H | 42mm |
| CLP49H | 49mm |















### Head to Head Type Bolt & Nut

















| CODE   | L     |
|--------|-------|
| SA070L | 7.7mm |
| SA070N | 3mm   |



# POSEIDON™ INSTRUMENTS

|   |  |  |  |
|---|--|--|--|
|    | <p><b>AWL</b><br/>PNAW-001</p>   |    | <p><b>Drill Guide</b><br/>PNDG-001</p>   |
|    | <p><b>Probe</b><br/>PNPR-001</p>   |    | <p><b>Poly screw Driver</b><br/>PNPD-H01</p>   |
|   | <p><b>Tester</b><br/>PNTS-002</p>  |   | <p><b>Quick Handle</b><br/>APQH-101</p>  |
|  | <p><b>Depth Gauge</b><br/>PNDP-001</p>   |  | <p><b>Starter(Double), T15</b><br/>PNST-001</p>  |
|  | <p><b>Pedicle Marker</b><br/>Left            PNPM-L01<br/>Right          PNPM-R01</p>  |  | <p><b>Set Screw Driver, T15</b><br/>Standard        PNSD-001<br/>Long type        PNSD-002</p> |
|  | <p><b>Drill Bit</b><br/>Ø2.0            PNDB-020<br/>Ø2.5            PNDB-025<br/>Ø3.0            PNDB-030</p>                                 |  | <p><b>Anti-Torque</b><br/>PNAT-001</p>   |
|  | <p><b>Taps</b><br/>Ø3.5            PNTP-035<br/>Ø4.0            PNTP-040<br/>Ø4.5            PNTP-045<br/>* Non Sleeve Taps also available</p> |  | <p><b>Torque Wrench</b><br/>PNTW-H3.8</p>  |

# POSEIDON™ INSTRUMENTS

|   |  |  |  |
|---|--|--|--|
|    | <p><b>Hook Finder</b><br/>PNHF-001</p>                                       |    | <p><b>Compressor</b><br/>PNCO-001</p>  |
|    | <p><b>Rod Holder</b><br/>PNRH-001</p>  |    | <p><b>Distractor</b><br/>PNDR-001</p>  |
|   | <p><b>Rod Template</b><br/>PNTE-110<br/>PNTE-240</p>                         |   | <p><b>Hook Holder</b><br/>PNHH-001</p>   |
|  | <p><b>Rod Bender</b><br/>PNRB-001</p>  |  | <p><b>Crosslink Holder</b><br/>PNCH-001</p>  |
|  | <p><b>Bending Irons</b><br/>Right      PNBI-R01<br/>Left        PNBI-L01</p> |  | <p><b>Crosslink Driver</b><br/>Hex 5.01      PNCD-001<br/>Hex 8.01      PNCD-002</p> |
|  | <p><b>Rod Derotator</b><br/>PNRD-001</p>                                     |  | <p><b>Rod Fork</b><br/>PNRF-001</p>  |
|  | <p><b>Rod Cutter</b><br/>PNRC-001</p>  |  | <p><b>Rod Pusher</b><br/>PNRP-001</p>  |

# POSEIDON™ INSTRUMENTS



## Alignment Tool

PNAL-001



## Persuader

PNPS-001



## Tab Remover

SPTR-001



## OCP Drill Guide

16 or 14mm PNDG-011  
12 or 10mm PNDG-021  
8 or 6 mm PNDG-031



## OCP Joint Drill Bit (Ø3.0)

PNJD-D30



## OCP Joint Screw Driver, T15

PNJD-S01



## OCP Joint Tap (Ø4.5)

PNJD-T45



## OCP Straight Drill Bit(Ø3.0)

SPDB-030



## OCP Anti-Torque

PNAT-011



## OCP Straight Tap(Ø4.5)

SPST-045



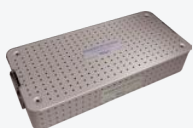
## Screw Caddy

MPO-001



## Connector Caddy

MPO-CC1



## Instrument Tray

NOP-001

\*More Special Instruments available



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by Japan Patent Numbers : 3148465