



NATURAL BRIDGE™
LOW PROFILE

Launch Packet



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LP (LOW PROFILE)



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INTRODUCTION

Welcome to K2M and the NATURAL BRIDGE™ LP Transverse Connectors. Your feedback has helped determine the needs of your surgeons, and ultimately, the development of this system.

The NATURAL BRIDGE LP Transverse Connectors, named after the natural formation where a rock arch forms as a narrow ridge, providing a natural connection between two solid walled structures. This innovative, low-volume, and ultra low-profile transverse connector provides optimal torsional stabilization in the thoracolumbar spine. The system incorporates both adjustable and semi-adjustable designs for use with the RANGE™ family of pedicle screw systems, to include, MESA™ and DENALI™ .

The NATURAL BRIDGE LP implant possesses several innovative features to facilitate more efficient intra-operative use of the system. The transverse connectors feature polyaxial heads that snap onto the rod allowing for easier introduction and simultaneously offering tactile feedback. The telescoping design ensures optimal fit, and the ultra low-profile design pairs seamlessly with MESA's no profile above the rod design.

The NATURAL BRIDGE LP has been designed by the K2M Board of Scientific Advisors and Lumbar Silo Members with the ultimate objective of providing the surgeon with a superior system focusing on both the implant and instrument design. We are very excited about this system, and will continue to introduce superior products into the market.

Should you have any questions, please feel free to contact me at 703.777.3155 or at mmacdonald@K2M.com.

Thanks again for you interest and support in K2M.

Sincerely,



Megan MacDonald
Associate Product Manager
K2M, Inc.



Michael Barrus
Senior Project Engineer
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SYSTEM OVERVIEW

The NATURAL BRIDGE LP Transverse Connectors are innovative, low-volume, and ultra low-profile connectors that provide optimal torsional stabilization in the thoracolumbar spine.

Features and Benefits

Implants

- Optimal Anatomical Implant Design
 - Low Volume
 - Low Profile
- Polyaxial Snap-On Heads
 - Ease of Introduction
 - Offers Tactile Feedback
 - Full Range of Motion
- Distinct Color-Coded Implants
- Multiple Styles
 - Adjustable
 - Semi-Adjustable

Instruments

- Single Screwdriver for All Adjustments
- Caliper to Ensure Optimal Implant Selection
- Connector Holder for Easy Insertion

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MARKETING MATERIALS

In addition to this Launch Packet, we have created detailed and informative marketing materials intended to aid in selling this superior system with confidence. The materials included are as follows:

NATURAL BRIDGE LP Sales Flyer

The NATURAL BRIDGE LP Transverse Connectors Sales Flyer highlights key features of the implant design.

NATURAL BRIDGE LP Launch Flyer

The NATURAL BRIDGE LP Launch Flyer highlights key features of the implant and the launch of the new system.

NATURAL BRIDGE LP Surgical Technique Manual

The NATURAL BRIDGE LP Surgical Technique manual details the surgical steps recommended to perform the procedure.

NATURAL BRIDGE LP Flip Chart

The NATURAL BRIDGE LP Flip Chart is a tool that will allow you to easily demonstrate the tips and tricks of the NATURAL BRIDGE LP Transverse Connectors to your surgeons. The Flip Chart is located at the back of this Launch Packet.

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FREQUENTLY ASKED QUESTIONS

1. What is the torque on the LP Torque Driver?

35 in-lbs

2. What size is the LP Driver Shaft?

The driver shaft is a Size 20 Hexalobe.

3. What is the range of the Adjustable Connectors?

- Small: 38 mm - 43 mm
- Medium: 42 mm - 50 mm
- Large: 49 mm - 63 mm
- Extra Large: 62 mm - 90 mm*

4. Why aren't there connector benders in the set?

Polyaxial heads eliminate the need to bend the implant prior to implantation.

5. Can you use the old NATURAL BRIDGE driver with the LP Implants?

No. You cannot use the same instrumentation for either system.

6. How are the implants measured?

The Caliper measures the implant center to center of the rod.

7. What is the run on the rod of the implant?

7.6 mm

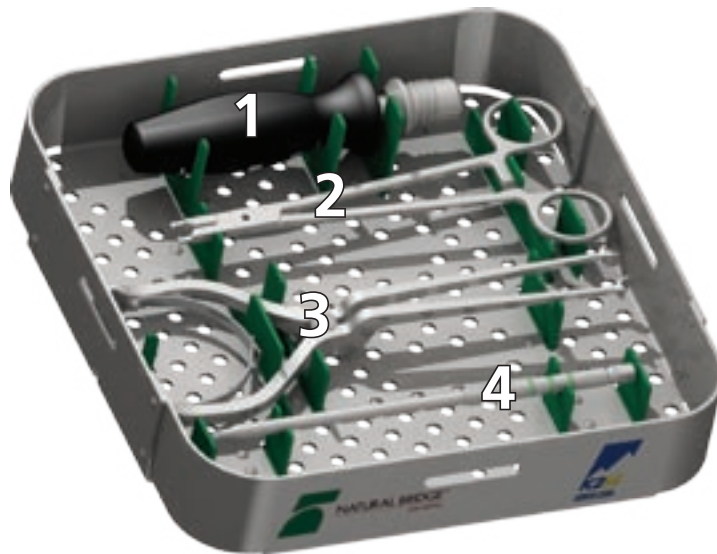
8. What degree of angulation is provided by the polyaxial head?

40°

* Available upon request.

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TRAY LAYOUT

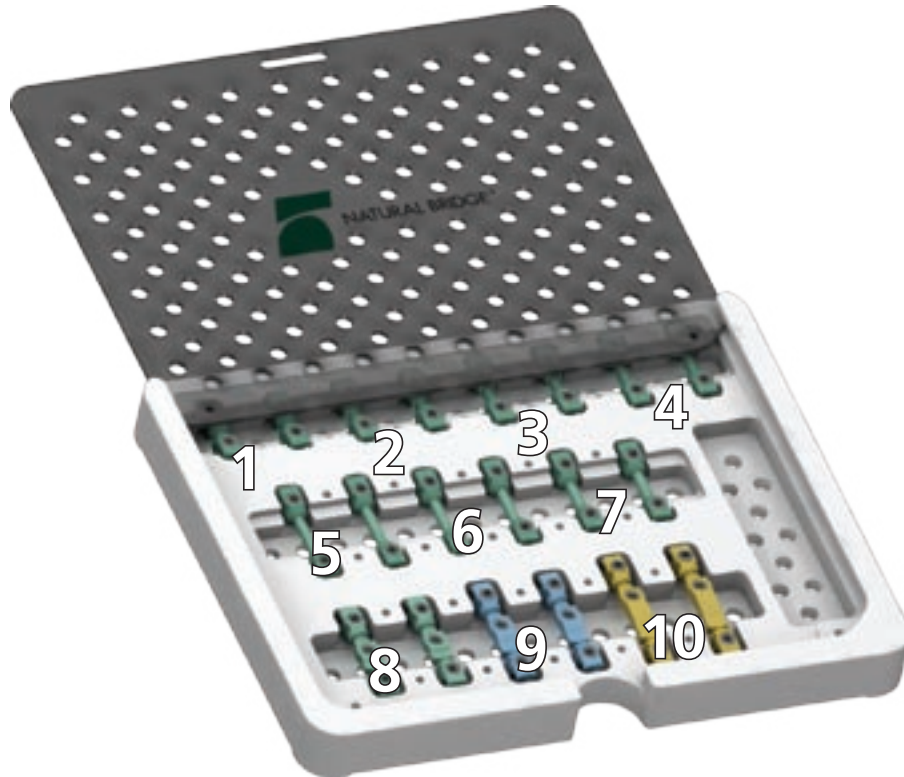


CASE 1, TRAY 1

Number:	Instrument:	Catalog Number:
1	LP Handle	101-90213
2	LP Connector Holder	101-90220
3	LP Caliper	101-90281
4	LP Driver Shaft	101-90278

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TRAY LAYOUT



CADDY 1

Number:	Implant:	Catalog Number:
1	NATURAL BRIDGE LP Semi-Adjustable, 21 mm	801-70021A
2	NATURAL BRIDGE LP Semi-Adjustable, 24 mm	801-70024A
3	NATURAL BRIDGE LP Semi-Adjustable, 27 mm	801-70027A
4	NATURAL BRIDGE LP Semi-Adjustable, 30 mm	801-70030A
5	NATURAL BRIDGE LP Semi-Adjustable, 33 mm	801-70033A
6	NATURAL BRIDGE LP Semi-Adjustable, 36 mm	801-70036A
7	NATURAL BRIDGE LP Semi-Adjustable, 39 mm	801-70039A
8	NATURAL BRIDGE LP Adjustable, Small	801-73040
9	NATURAL BRIDGE LP Adjustable, Medium	801-74050
10	NATURAL BRIDGE LP Adjustable, Large	801-75060



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PRODUCT CATALOG

Catalog Number	Description	Set Quantity
Implants		
801-70021A	NATURAL BRIDGE LP Semi-Adjustable, 21 mm	2
801-70024A	NATURAL BRIDGE LP Semi-Adjustable, 24 mm	2
801-70027A	NATURAL BRIDGE LP Semi-Adjustable, 27 mm	2
801-70030A	NATURAL BRIDGE LP Semi-Adjustable, 30 mm	2
801-70033A	NATURAL BRIDGE LP Semi-Adjustable, 33 mm	2
801-70036A	NATURAL BRIDGE LP Semi-Adjustable, 36 mm	2
801-70039A	NATURAL BRIDGE LP Semi-Adjustable, 39 mm	2
801-73040	NATURAL BRIDGE LP Adjustable, Small	2
801-74050	NATURAL BRIDGE LP Adjustable, Medium	2
801-75060	NATURAL BRIDGE LP Adjustable, Large	2
Instruments		
101-90220	NATURAL BRIDGE LP Connector Holder	1
101-90213	NATURAL BRIDGE LP Handle	1
101-90278	NATURAL BRIDGE LP Driver Shaft	1
101-90281	NATURAL BRIDGE LP Caliper	1
Cases, Trays, Caddies, & Cradles		
101-90286	NATURAL BRIDGE LP Tray	1
101-90238	NATURAL BRIDGE LP Lid	1
101-90239	NATURAL BRIDGE LP Caddy	1
101-90240	NATURAL BRIDGE LP Caddy Lid	1



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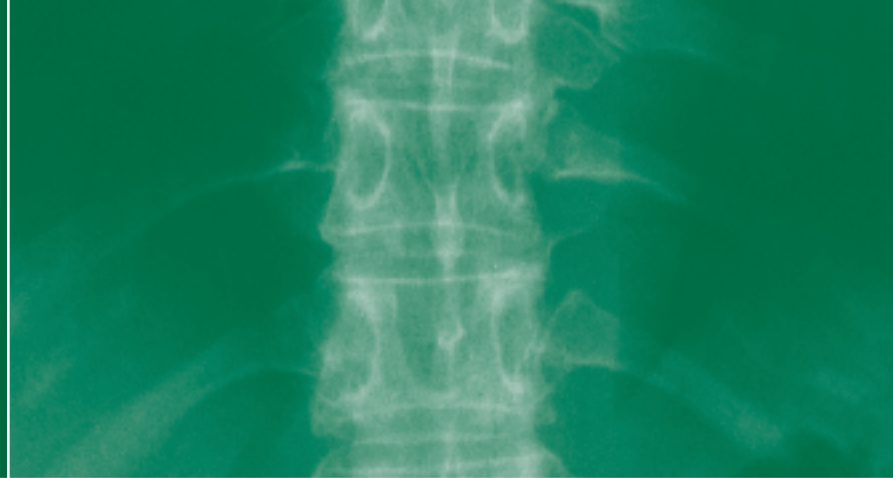
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K2-01-7026-01 Rev. 0
U.S. Patents Pending

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NATURAL BRIDGE™
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LP (LOW PROFILE)



COMPLEX SPINE
INNOVATIONS™

System Overview

- Innovative, low-volume, and ultra low-profile transverse connectors
- Provides optimal torsional stabilization in the thoracolumbar spine
- Offered in Adjustable and Semi-Adjustable designs for use with the RANGE™ family of pedicle screw systems, to include, MESA™ and DENALI™

Features and Benefits: Implants

Optimal anatomical implant design

- Low volume
- Low profile

Polyaxial snap-on heads

- Ease of introduction
- Offers tactile feedback
- Full range of motion

Distinct color-coded implants

Multiple styles

- Adjustable
- Semi-Adjustable



Features and Benefits: Implants

Semi-Adjustable

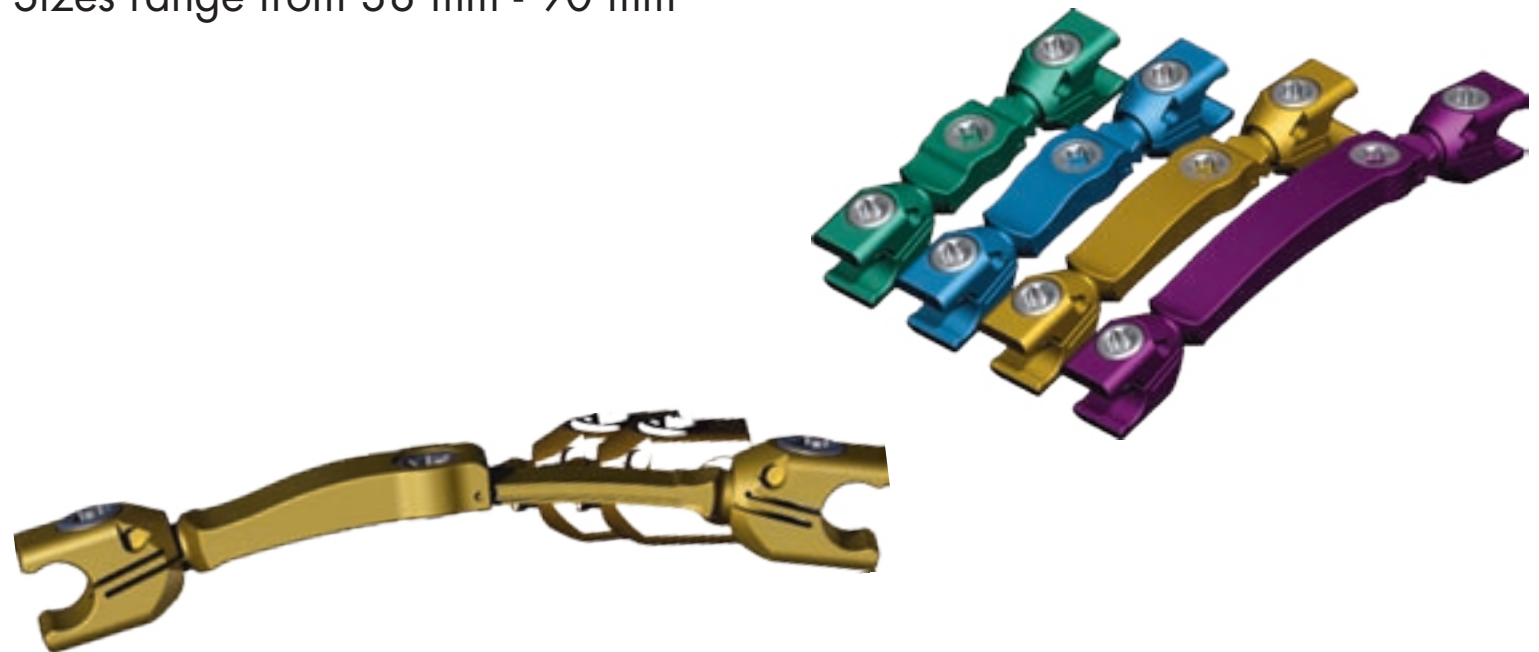
- Combines the rigid center body of a fixed connector with a polyaxial head
- Eliminates the need for bending the connector prior to implantation
- Sizes range from 21 mm - 39 mm



Features and Benefits: Implants

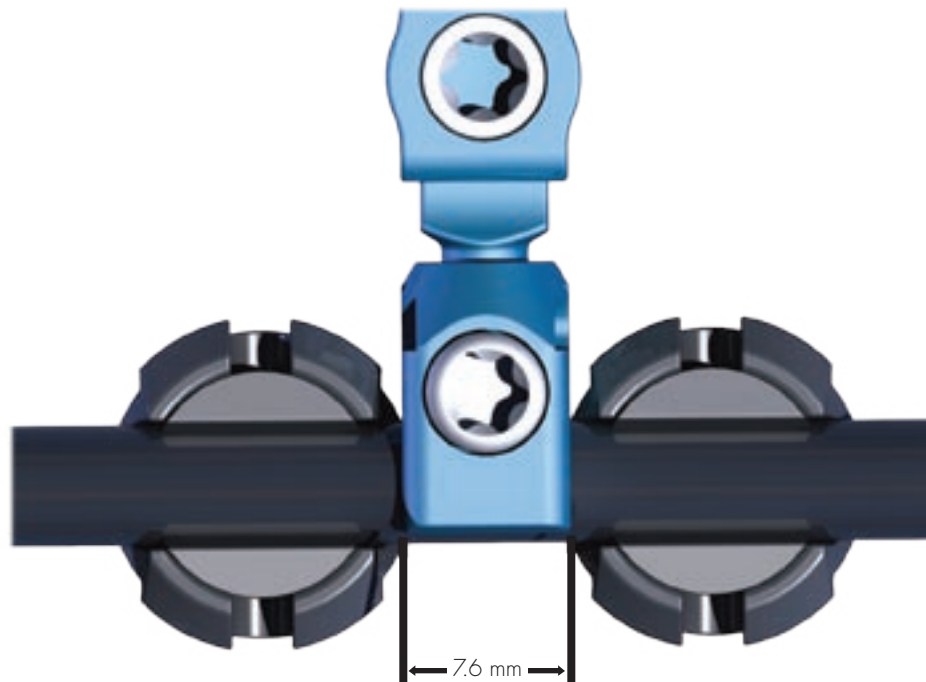
Adjustable

- Telescoping design ensures optimal fit
- Distinct color-coding to aid in easy identification
- Sizes range from 38 mm - 90 mm



Features and Benefits: Implants

Dimensions and Specifications



Run on the rod is 7.6 mm



40° angulation provided by polyaxial head

Features and Benefits: Instruments

- Single screwdriver for all adjustments
- Caliper to ensure optimal implant selection
- Connector holder for easy insertion

