

STRENGTH

MatrixRIB®

FIXATION SYSTEM

R3

Strength.* In numbers.

The numbers tell the story.

1M

Number of respiratory cycles in 6 weeks (approximate bone healing time)

11.7N

Median load survived by KLS L1 Rib Plates for 1,000,000 cycles¹

21.2N

Median load survived by DePuy Synthes MatrixRIB Plates for 1,000,000 cycles¹

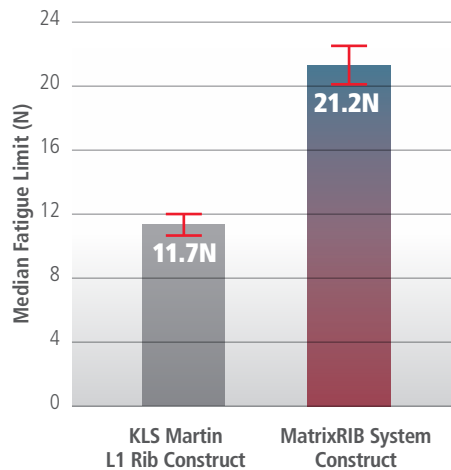
80%

MatrixRIB Plates survived 80% higher maximum load than KLS Martin L1 Rib Plates¹

.03%

Documented MatrixRIB Plate adverse event rate since 2008²

In 3rd party[†] biomechanical testing, DePuy Synthes MatrixRIB® Plates proved 80% stronger than KLS Martin L1 Rib Plates. (Error bars represent one standard deviation from median).



Fatigue testing

Test Setup

Plate affixed to test blocks and dynamically loaded in compression until failure

Test Goal

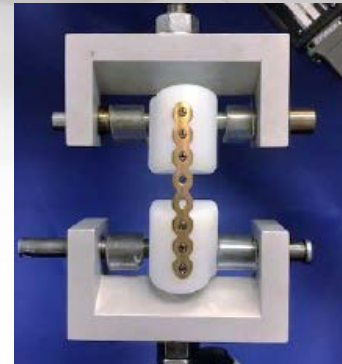
Survive 1,000,000 cycles (approximately 6 weeks of respiratory loading)

RESULT

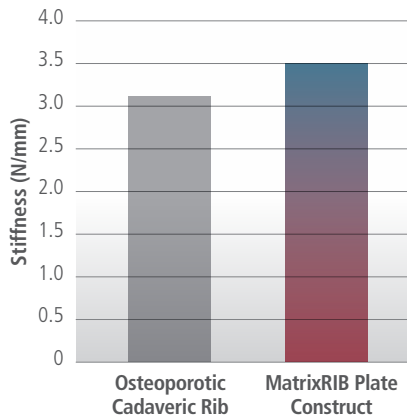
11.7N Maximum load survived by KLS L1 Rib Plates for 1,000,000 cycles

21.2N Maximum load survived by DePuy Synthes MatrixRIB® Plates for 1,000,000 cycles

80% MatrixRIB Plates survived 80% higher maximum load than KLS L1 Rib Plates



Bending stiffness of MatrixRIB Plate construct is comparable to intact cadaveric osteoporotic rib.³



*Strength, in terms of obtained construct stiffness, is defined as the Median Fatigue Limit/Testing Moment Arm, where MFLMATRIXRIB = 21.2N, MFLKLS = 11.7N, Testing Moment Arm = 27.0 mm.

Bench top test results are not indicative of clinical results.

1. DePuy Synthes MatrixRIB vs KLS Dynamic Construct Testing. 3/8/2019. Document #0000282967
2. DePuy Synthes Post market surveillance report. 3/11/2019. MatrixRIB Plates Occurrence Rate 2019-03
3. DePuy Synthes MatrixRIB Mechanical Testing Summary. 11/14/2014. Document #0000095555

† 3rd party biomechanical testing performed on behalf of DePuy Synthes

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