

COMPARISON STUDY BETWEEN MED FIBERS, BSC FLEXIVA™ AND FORTEC LASER FIBERS

S-E-E™
Safe-Efficient-Effective



MED FIBERS, Inc. COMPARISON STUDY

BENCH DATA

MED FIBERS LASER FIBER DIMENSIONS	CORE	CLADDING	OUTER DIMENSION (OD)	POWER RATING (WATT)	HERTZ RATING
MF 150 HHZ™	150	180	350	35	Up to 100 Hz
MF 200 HHZ™	200	240	400	50	Up to 100 Hz
MF 200 DH™	200	240	400	50	Up to 60 Hz
MF 230 HHZ™	230	276	400	50	Up to 100 Hz
MF 242 HHZ™	242	290	450	50	Up to 100 Hz
MF 272 HHZ™	272	300	450	60	Up to 100 Hz
MF 272 FLEXX TRAK™	272	300	450	50	Up to 60 Hz
MF 272 DH™	272	300	450	50	Up to 60 Hz
MF 365 HHZ™	365	400	580	150	Up to 100 Hz
MF 550 HHZ™	550	600	750	300	Up to 100 Hz
MF 1000 HHZ™	1000	1100	1450	300	Up to 100 Hz

BOSTON SCIENTIFIC LASER FIBER	CORE	CLADDING	OUTER DIMENSION (OD)	POWER RATING (WATT)	HERTZ RATING
Flexiva™ TracTip™	242	n/a	450	50	n/a
Flexiva 200	242	n/a	450	50	n/a
Flexiva 365	365	n/a	600	100	n/a
Flexiva 550	550	n/a	800	100	n/a
Flexiva 1000	1000	n/a	1400	100	n/a

FORTEC FIBER LASER FIBER DIMENSIONS	CORE	CLADDING	OUTER DIMENSION (OD)	POWER RATING (WATT)	HERTZ RATING
ForTec 200	272	300	450	45	n/a
ForTec 365	365	400	700	80	n/a
ForTec 550	550	605	780	80	n/a
ForTec 1000	1000	1100	1500	80	n/a

PERFORMANCE

MED FIBERS products exactly match the highest standards of optical specifications, such as spot size, laser beam focal point for the existing laser families on the worldwide market.

RELIABILITY

MED FIBERS Laser Fiber devices are guaranteed compatible for safe and effective use with all FDA approved lasers systems on the market (excluding those with RFID connectors). All devices are FDA cleared.

- FDA 510(k): K 124003
- ISO 13485:2016
- CE 0459

QUALITY

MED FIBERS Laser Fiber delivery systems are manufactured to provide optimum performance and 100% quality inspected before leaving production. Our products are made in the USA.

**QUALITY ENFORCEMENT
IS OUR MOTTO!!**





DESIGN & ENGINEERING

MED FIBERS laser delivery devices are 100% German designed and engineered. Core, cladding and jacket materials have been selected for their biocompatible properties.

MANUFACTURING

MED FIBERS laser delivery devices are produced in our State of the Art facility in Arizona, with 0% tolerance of failure rates and the devices have the tightest tolerances on concentricity on small diameter fibers on the market.

TURNKEY SOLUTIONS

MED FIBERS experienced team, with more than 50 years of combined optical fiber knowledge, will support you in all of your projects and assists you in less than 24 hours response time. Your and our idea and our quick product solution, can help you to introduce your next product quicker into the market.

For more information on any of our products or services please visit us on the web at:

WWW.MED-FIBERS.COM

MED FIBERS, INC LASER FIBERS VS. BSC FLEXIVA™ LASER FIBERS VS FORTEC LASER FIBERS

MED FIBERS, Inc. DURABILITY AND FLEXIBILITY

On the Bench, the MED FIBERS Fiber demonstrated an ability to **withstand the tightest bend without fiber failure** or even fracture that the BSC Flexiva Fiber or the ForTec Fiber.

The MED FIBERS Fiber was **designed for higher power input** and tight bend radiuses in combination with its Dark Hole connector™ and HHZ connector™ design. The materials including the coatings used, can withstand a < than 1.0 cm bend radius at 60 Watt.

TRACKABILITY AND INSERTION FORCE

The Dome Tip™ and FlexxTrak™ Fiber in combination with the Dark Hole connector™ and or HHZ connector™ design has the ability to pass through a 270 degree deflected ureteroscope and is in that matter substantial equivalent to the Flexiva™ TracTip™ Fiber, while the ForTec 200 SmartScope™ Fiber was unable to pass through a 180 degree deflected scope.

Insertion Fore Bend Performance: (Fore in millinewton)

MED FIBERS DOME TIP™, BALL TIP and FLEXX TRAK™ LASER FIBER

90 Degree Bend	n/a
180 Degree Bend	90
270 Degree Bend	195

Boston Scientific Flexiva™ TracTip™ Holmium Laser Fiber	
90 Degree Bend	60
180 Degree Bend	100
270 Degree Bend	220

ForTec	
90 Degree Bend	130
180 Degree Bend	Failed to pass through
270 Degree Bend	Failed to pass through

DATA FOR THE BSC PRODUCTS USED IN THIS BENCH TEST COMPARISON AND FOR THE FORTEC FIBERS, ARE TAKEN FROM THE BSC MARKETING LITERATURE.

MED FIBERS INC. IS THE LEADER FOR THE NEXT GENERATION OF SURGICAL LASER FIBERS

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MF-272/300 HHZ
DOME TIP™ FLEXX-
TRAK™ AND BALL TIP

0%
FRACTURED @
.05 CM AND
1.0CM

Flexiva 200
Flexiva™ TracTip™

0%
Fractured @
1.0cm and
1.5cm

ForTec 200
SmartScope™

33%
Fractured @
1.5cm

ForTec 200
SmartScope™

100%
Fractured @
1.0cm



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