

Introduction

Rayzer's **Fiber Gyro Coil** is the core sensitive component of Fiber Optic Gyroscope (FOG). The quality of winding process directly determines the accuracy of FOG. With strong R&D capability and our own designed high performance **Fiber Coil Winding Machine ZKRZ-RHJ4.0**, we provide the design of the winding frame, Customized Fiber Coil, and also the fiber coil winding process service, according to customer's specific requirements.

Our Fiber Gyro Foil has the characteristics of low Shupe error, low thermal stress and high anti-vibration ability. The precision of the Fiber Coil made into the FOG has reached accuracy less than 0.0005°/h. They have been widely used in the fields of Fiber Optic Gyroscope, fiber Optic Hydrophone, radar and fiber optic currency transformer, with an annual production capability of 8000pcs.



Specification

Parameters	Unit	Values
Inner Diameter	mm	15mm-150mm
Fiber Coil Height	mm	5mm-55mm
Winding length	m	50m-5000m
Outer Diameter of Fiber	μ m	100 μ m, 135 μ m, 165 μ m, 250 μ m
Operating Wavelength	nm	1310nm\1550nm
Polarization Crosstalk@Room Temperature	dB/km	≤22dB/km
Insertion Loss	dB/km	≤0.8dB/km
Polarization Crosstalk Variation@Full Temperature	dB	≤2.5dB
Insertion Loss Variation@Full Temperature	dB/km	≤0.15dB/km
Operating Temperature	℃	-45-75
Storage Temperature	℃	-55-85
Winding Procedure		Singlepole / Quadrupole / Octupole Symmetrical
Customization is available!		

If you have any specific requirement, please do not hesitate!

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