

Motorized Optics Holders

- Five-phase stepper motor
- 360 degree continuous motion
- Positional repeatability to ≤ 0.02 degrees
- Compact design

The SGSP Series motorized optics holders utilize the unique Five-phase stepping motor and high-precision actuators to provide precise controlled stepping movements. The motorized optics holders offers smooth continuous 360 degree movement and positional repeatability to within 0.02 degrees. These features make them suitable for many laboratory and OEM applications.

The motorized optics holders are available in Glan-Thompson prisms, wave plates and variable ND filters versions. The Glan-Thompson and wave plate mounted versions can control the polarization of light by automating the rotation of the polarizers.

The variable ND filter wheels are convenient tools for adjustment of beam intensity. They can be mounted in an optical path and rotated to increase or decrease the beam attenuation. The filters have a 0.04-2.7 variation in optical density over the full rotation. There are two types offered, BK7 and synthetic fused silica.

For further information about Glan-Thompson prisms, wave plates or variable ND filters please refer to the optics section in this catalog. If you would like assistance in selecting the most appropriate optical components and positioning device please contact our experienced Applications Engineers.

Specifications & Tolerances

Dimensions: ± 0.3 mm

Positional Repeatability: ≤ 0.02 degrees



Motorized Optics Holders

Footprint	Positional Repeatability	Travel	Load Capacity	Maximum Travel Speed	Optic Included	Price	Stage	PART NUMBER
73mm x 61mm	0.02 degrees	360 deg. continuous	2kg	30 deg/sec	066-0130	\$ 2,400.00	SGSP-60-GTPC	513-1010
73mm x 61mm	0.02 degrees	360 deg. continuous	2kg	30 deg/sec	068-1230	\$ 1,800.00	SGSP-60-WPQ	513-1020
73mm x 61mm	0.02 degrees	360 deg. continuous	2kg	30 deg/sec	078-1130	\$ 2,200.00	SGSP-60-ND	513-1030
73mm x 61mm	0.02 degrees	360 deg. continuous	2kg	30 deg/sec	078-1230	\$ 2,400.00	SGSP-60-NDU	513-1040

Piezo Stages

Linear Stages

Rotation Stages

ZF Stages

Motorized Optics Holders

Goniometers

GS Closed Loop Stages

Controllers & Drivers

Cables & Accessories

Software