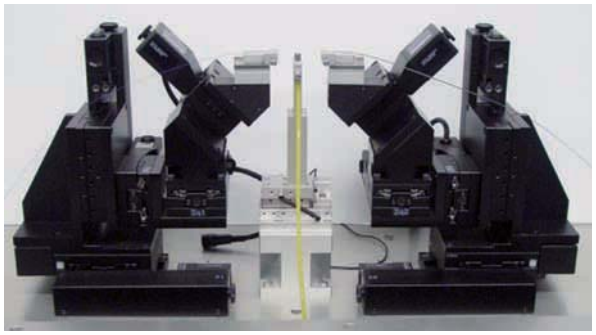
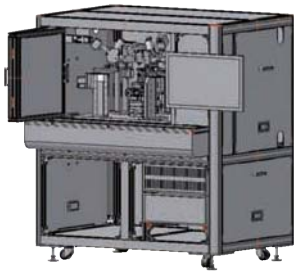
Fiber Alignment System

Combining a large selection of standard hardware components with a customizable software platform, custom alignment systems can be created quickly and cost effectively for a large variety of applications.

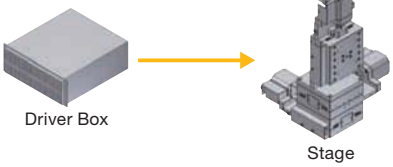
Automated Optical Fiber Alignment System



- Using various standard commands easily enables the creation and change of control programs optimally for the user's alignment process.
- Changes to pieces can be flexibly supported.
- A system can be easily constructed by combining GP-IB and I/O devices.
- Data from GP-IB devices can be used for controlling the alignment process.



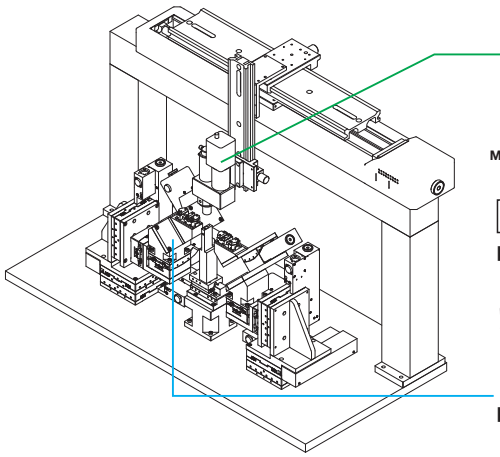
ASS-04



Software

Part Number	FASA-04
Number of Axis	Extensible up to 32 axis
Program Position Resolution	25nm
Adaptable Motor Type	Stepping motor / Servo motor
Operationg Commands	More than 91 different commands available
Programmable Step Sequence	1000 steps per 1 program.
Linear Interpolation	Available in arbitrary 2 or 3 axis
Circular Interpolation	Available in arbitrary 2 axis
Interface	GP-IB
A/D Data Input	16CH

12-axis fiber alignment stage unit



Microscope Lens Tube

SK-620BJ2
1/2-inch
Color CCD camera

SK-N63SCJ-C
1/3-inch
Color CCD camera

SK-TC202USB-AT
2 Mega-pixels
USB2.0 camera

SKDCE-3
2.0 Mega-pixels
USB2.0 camera

Device Holders

■Fiber Optic Holder

- Holds a bare fiber. Three different standard holders are available for different cladding and jacket diameter. An outer jacket or sheath holder can be also attached if required.

■Ferrule Holder

- Holds a bare fiber. Three different standard holders are available for different cladding and jacket diameter. An outer jacket or sheath holder can be also attached if required.

■FC Connector Holder

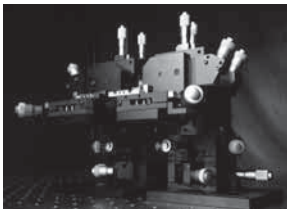
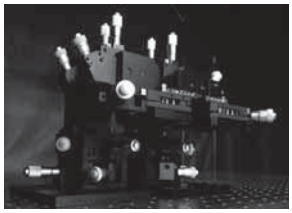
- Holds an FC type connector-attached optical fiber.
- An outer jacket or sheath holder can be also attached if required.

■Rotation Fiber Holder

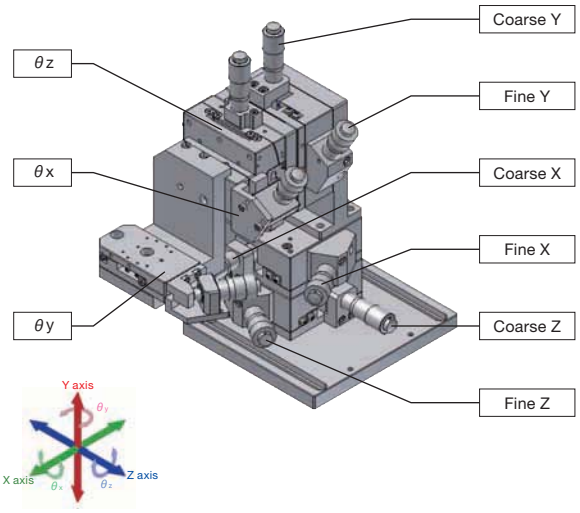
- Holds and rotates a bare polarization preserving fiber.
- Standard configurations are for jacket diameters of 250μm and 900μm.

Fiber Alignment System

Manual Optical Fiber Alignment Systems

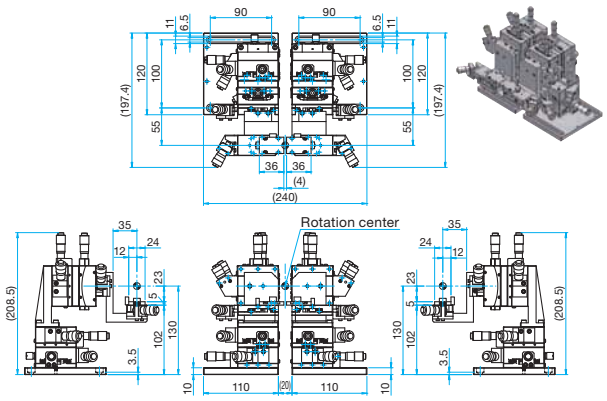
- Manual Coupling unit for Fiber Alignment
- Assembly of high resolution tilt stage and new feature XYZ stage
- Performance-proven TSD series guide is adopted
- Device holders adopted magnetic feature are assured of simple and firm attachment/detachment
- Expansion in application can be made by switching holder when device has been changed.



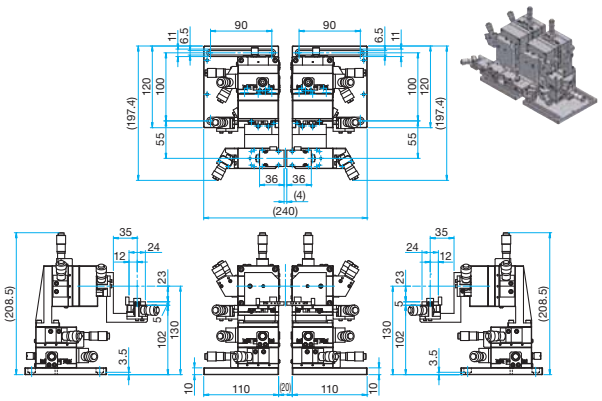
Manual Fiber Alignment Stage Unit

	Part Number			X	Y	Z	θx	θy	θz
12-axis (6-axis)	FASM-080M-L FASM-080M-R	Travel		±6.5mm	±6.5mm	±6.5mm	±2.5°	±2.5°	±5°
		Resolution	Coarse	0.01mm	0.01mm	0.01mm	about 27.8	about 27.8	about 26.8
			Fine	0.0005mm	0.0005mm	0.0005mm			
10-axis (5-axis)	FASM-070M-L FASM-070M-R	Travel		±6.5mm	±6.5mm	±6.5mm	±2.5°	±2.5°	—
		Resolution	Coarse	0.01mm	0.01mm	0.01mm	about 27.8	about 27.8	—
			Fine	0.0005mm	0.0005mm	0.0005mm			
8-axis (4-axis)	FASM-060M-L FASM-060M-R	Travel		±6.5mm	±6.5mm	±6.5mm	—	—	±5°
		Resolution	Coarse	0.01mm	0.01mm	0.01mm	—	—	about 26.8
			Fine	0.0005mm	0.0005mm	0.0005mm			
6-axis (3-axis)	FASM-050M-L FASM-050M-R	Travel		±6.5mm	±6.5mm	±6.5mm	—	—	—
		Resolution	Coarse	0.01mm	0.01mm	0.01mm	—	—	—
			Fine	0.0005mm	0.0005mm	0.0005mm			

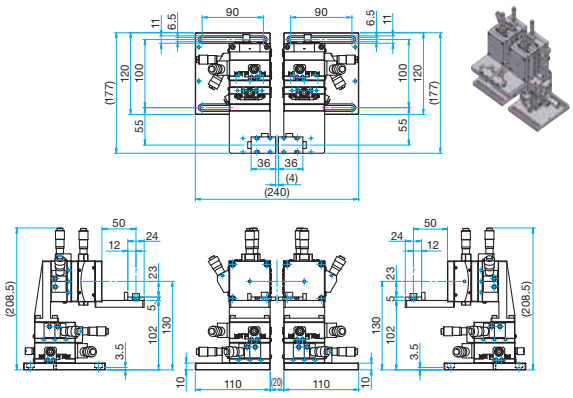
Manual 12-axis fiber alignment stage unit



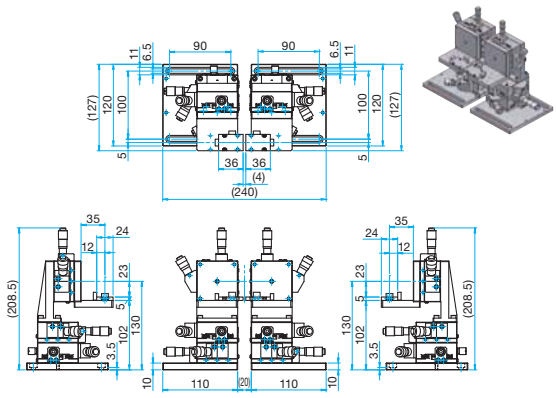
Manual 10-axis fiber alignment stage unit



Manual 8-axis fiber alignment stage unit



Manual 6-axis fiber alignment stage unit



Application Systems
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Optical & Mirror Holder
F A Parts
Measurement &Control
FA Electrical Parts
Tool & Measure
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X Axis
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