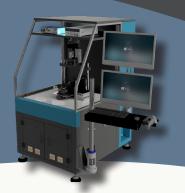
## **AXISTEC**

# **Aligner Series**





#### **Highly Reliable and Ultra-Accurate Aligner**

The Axis-Tec Engineering Aligner is a standalone platformbased machine. It caters for Active Alignment in Single Mode Fiber or Fiber Array, and supports Passive Alignment with machine vision.

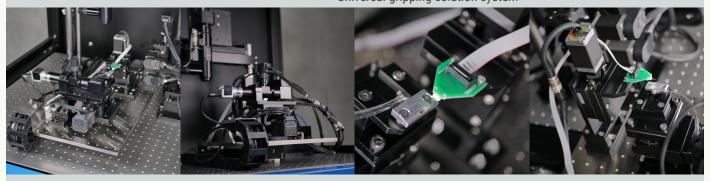
It is compatible with both Active and Passive application alignment, that can improve flexibilities in customers' processes.

## **Applications**

- Active Alignment in Single Mode Fiber or Fiber Array
- · Passive Alignment with Machine Vision

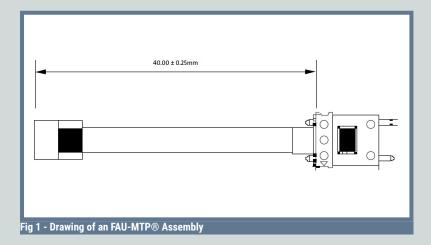
### Advantages

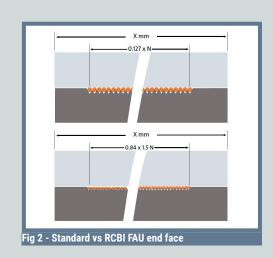
- Customized center stage
- High resolution top camera for micro-meter field level
- Adjustable height and angle
- Automated motion for precise handling and alignment testing
- · Universal gripping solution system



#### **◊** Specifications

XYZ Motorized Axis Stage for 6-Axis (Left) & 6-Axis (Right) (Optical)	
Resolution	.0.1
	<0.1 μm
Travel	>50 mm
Speed	>10 mm/s
Repeatability	<+/-1 μm
θ XYZ Motorized Rotational Stage (Left) & (Right)	
Travel	<+/-5°
Resolution	<0.00001 degree/pulse (Full)
Repeatability	<+/- 0.001°
Center Device Positioning Stage	
Travel	50 mm
Resolution	+/- 0.025 μm
Repeatability	+/- 3 μm
Auto Stage XYZ for Probe (3-axis)	
Resolution	0.1 μm
Repeatability	2 μm
Gantry XYZ for pick up for DIE and Camera (3-axis)	
Resolution	0.1 μm
Repeatability	2 µm
Vision Camera	
Lens	High Resolution Telecentric Lens Magnification
Working distance	>100 mm
Resolution	20 MP

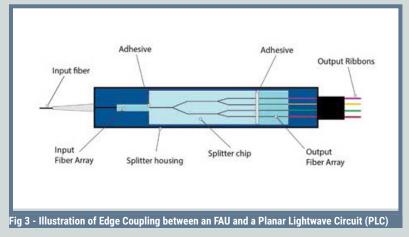




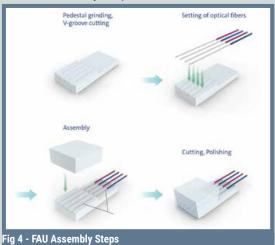


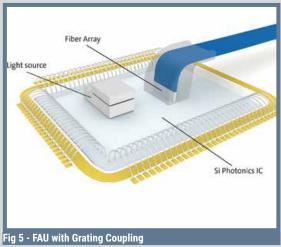
#### Main Coupling Methods for FAU

1. Edge coupling with our conventional FAUs: These FAUs can easily be used to bond with a customer's PLC waveguide from the edge.



2. Grating coupling with Corning 90-degree light-turn FAUs: With low-loss, high-reliability 90-degree light-turn FAUs, the signal light can be conveniently coupled from and to the PIC via a diffractive grating.

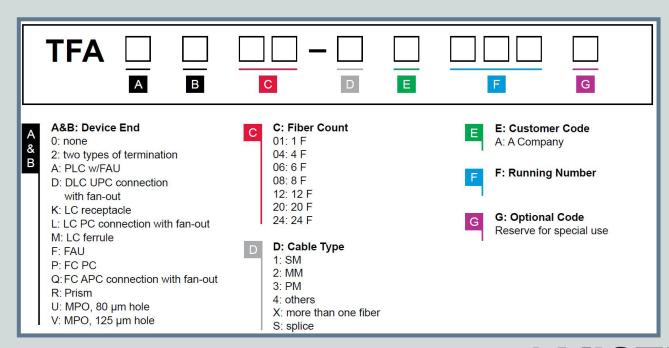




#### **FAU for Data Center**

Axis Tec offers a wide variety of FAUs to put inside transceivers and connect to a PIC.

#### **Ordering Information**



#### **♦ FAU for Long-Haul and Metro Networks**

An FAU can be put inside a reconfigurable optical add-drop multiplexer (ROADM) and function as an optical transmission for the wavelength selective switch (WSS) to switch traffic remotely from a wavelength division multiplexing (WDM) system at the wavelength layer.

There are other functions within long-haul and metro networks that require FAUs, and they are amplifier/CP module, coherent mixer, multiport wavelength switch, multicast switch, and optical channel monitor.

#### **Ordering Information**

