

# MPO Motorized Test System

ARRAYEDFIBEROPTICS

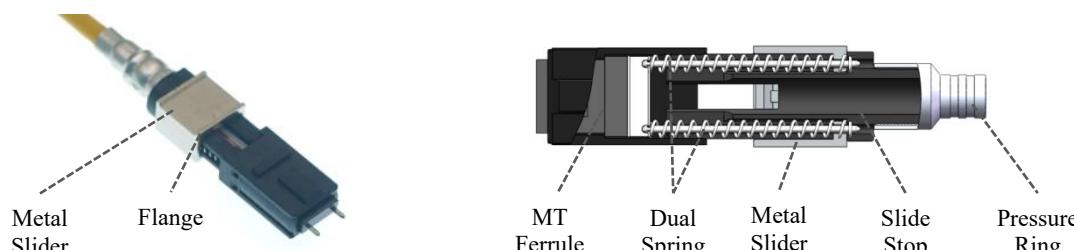
Prevents MPO end-face damage from collisions

莱塔思光学  
Litas Optical Technologies

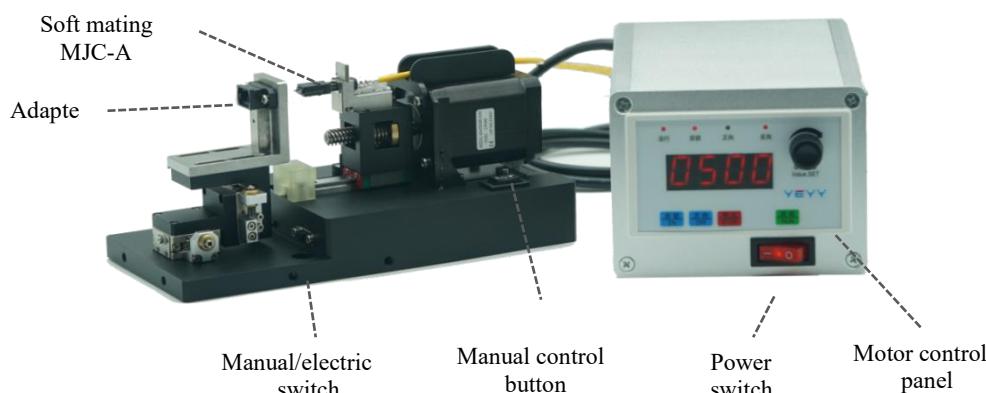
End-face scratching during MPO connector mating is a major industry pain point. In the manufacturing process, MPO optical performance testing is typically performed via manual mating. This method faces many problems:

- 1) It is easy to cause damage to the optical fiber end faces of the two connected MPOs, with a damage rate as high as 10%-20%.
- 2) It requires high professional skills from the operator.
- 3) The test results are unstable, and the data fluctuates greatly.
- 4) The low efficiency of testing has become a bottleneck in the production process.

To address these challenges, our company has developed a high-performance motorized MPO test station. Leveraging our patented soft-mating technology and precision stepper motor drive, the station delivers accurate, reliable, and high-speed testing of MPO connectors.



Soft mating MJC-A connector



MPO Motorized Test System

The MPO motorized test station includes the MJC-A connector test line section and a motor section

The MJC-A connector is a soft-mating MPO connector that does not include a self-locking mechanism. Its slider features a flange, allowing easy attachment to a quick-release fixture. When the MJC-A test cable is mounted in the fixture, the dual springs start in a loose state. A precision stepper motor then drives the adapter or optical module into position, compressing the springs and establishing the connection. The motor maintains the springs in their compressed state, ensuring stable and reliable engagement.

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Revised on October 30, 2025, V3 by Wenhua Zhao

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## Product Feature

- Soft-mating MJC-A test lines minimize MPO ferrule end-face damage.
- Motorized testing is more stable and delivers more repeatable data than manual docking.
- Prolongs MPO test line lifespan and lowers testing costs.
- No skilled operators required, lowering labor expenses.
- Improved insertion loss stability during testing.
- Supports non-contact connectors to prolong test line life.

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