

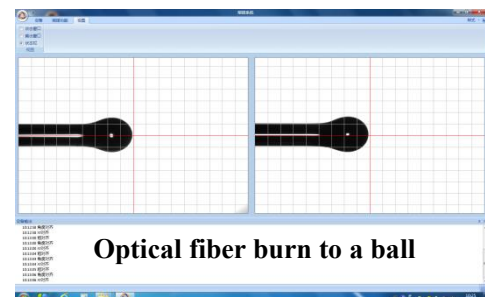
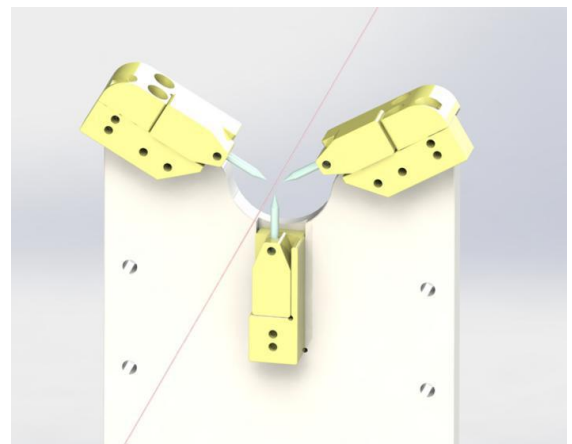
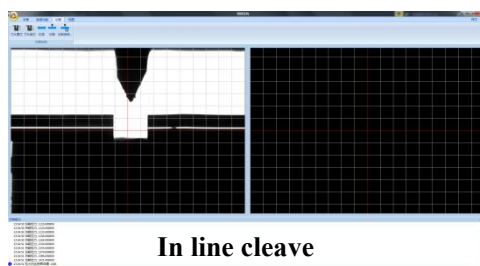
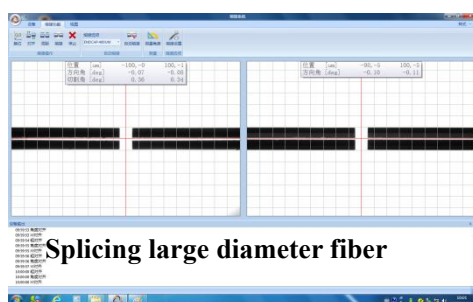
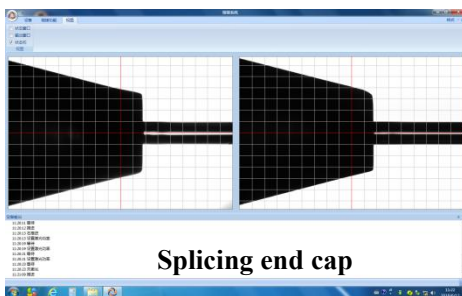
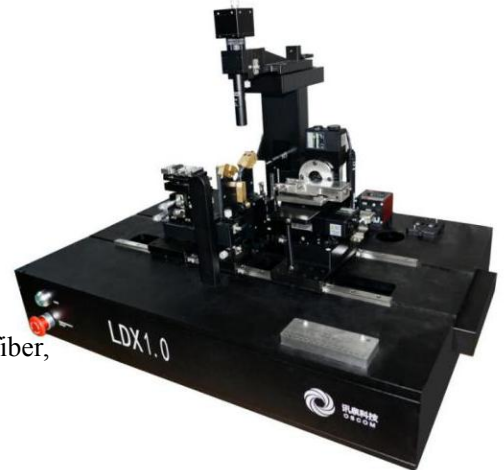
Large Diameter Splicing System LDX1.0 (XQ7230)

Product Description:

XQ7230 is a large diameter optical fiber splicing system that based on three electrodes ring of fire arc as heat source, and it is researched and developed by OSCOM independently. The splicing system can splicing fibers from 50-2500um with fast, accurate and stable way, OSCOM large diameter splicing system is suitable for making high power combiner, fiber end-caps and single taper fiber. The system is stable and reliable, easy to use, and the application is flexible.

Features:

- Three electrodes ring of fire arc heat source
- Fabrication of Nx1、(6+1)X1 optical fiber combiner
- Tapering single fiber, producing MFA
- Manufacture high power laser cable, such as QBH、SMAQ
- Splicing 50~2500μm fiber and glass
- Splicing cylinder and cone end cap
- Splicing Single mode fiber, multi mode fiber, double cladding fiber, and sapphire
- Splicing photonic crystal fibers with no collapse
- In-line cleave fiber and fiber bundle



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Technical Specifications:

| | | |
|---|---|--|
| End cap | Splicing End Cap | Round End cap (large end face diameter \leq 20mm, small end face diameter \leq 2.5mm) Cylinder end cap (end face diameter \leq 2.5mm) |
| | End Cap Clamp | Quartz Capillary Vacuum Adsorption Clamping and Special Fixture Clamping |
| The function of three electrodes and optical fiber splicing | Three electrodes | Three electrodes arc ring of fire technical Motor with low cost, easy to clean and maintain |
| | Motor gas protection | No need |
| | Temperature field | Lowest 800°C, Highest 1800°C |
| | Area of temperature field | Three electrodes surrounded an equilateral triangle, the cross-sectional area is nearly a hundred times that of the traditional two electrodes |
| | Stability of temperature field | $\pm 5^{\circ}\text{C}$ |
| | Cladding diameter | 50~2500 μm |
| | Splice PM optical fibers | No |
| | Splicing photonic crystal fiber | The length of porosity collapse is less than 50%, and the outside diameter of the fiber can realize no collapse fusion |
| | Silicone carbide and sapphire fibers welding | High Temperature Splicing |
| | Adjust the veidoo | Ten Veidoos of dynamic adjustment and feedback alignment (Left/Right Fibers X/Y/Z/ Depression Angle and Elevation Alignment, Left/Right Declination Alignment) |
| Depression angle elevation alignment and Left/Right declination alignment | $\pm 15^{\circ}$ Adjustable Range 0.01°Adjust the Resolution (1 Rad/S) | |
| Optical fiber alignment and imaging functions | Z-Axis travel | Distance : 86mm Resolution 1 μm |
| | X/Y-Axis travel | Distance : 12mm Resolution 0.1 μm |
| | Three electrodes arc | Distance : 40mm Resolution 6 μm |
| | X/Y-Axis Side Imaging | Independent X/Y-Axis Side Imaging |
| | Optical imaging system | 2 Times /3 Times Telecentric Lens/Other Multiple Lenses are Available |
| | Tapering length | 150mm |
| | Tapering ratio | Standard Taper Ratio 10:1 |

| | | |
|--|----------------------------|--|
| The function of fiber taper and fiber combiner | Bidirectional tapering | Scanning of circular arc Z Tapering ratio 50:1 (500μm diameter optical fibers tapered to 10μm diameter) |
| | Tapering needle | 10um Diameter Fiber Needle (Original Fiber Diameter125um) |
| | Fiber combiner | Manufacture of 3x1、7x1、(6+1)x1 or 19x1 fiber combiner |
| In line cleave | Function of in line cleave | The cladding diameter of optical fibers or pyramidal quartz is 40~500μm |
| | In line cleave precision | Axial cleave position is controlled by +-50um |
| Power supply | Voltage | AC100~240V/50~60Hz/5A |
| Dimension | L * W * H | 740x540x630mm |
| Weight | KG | 80 |