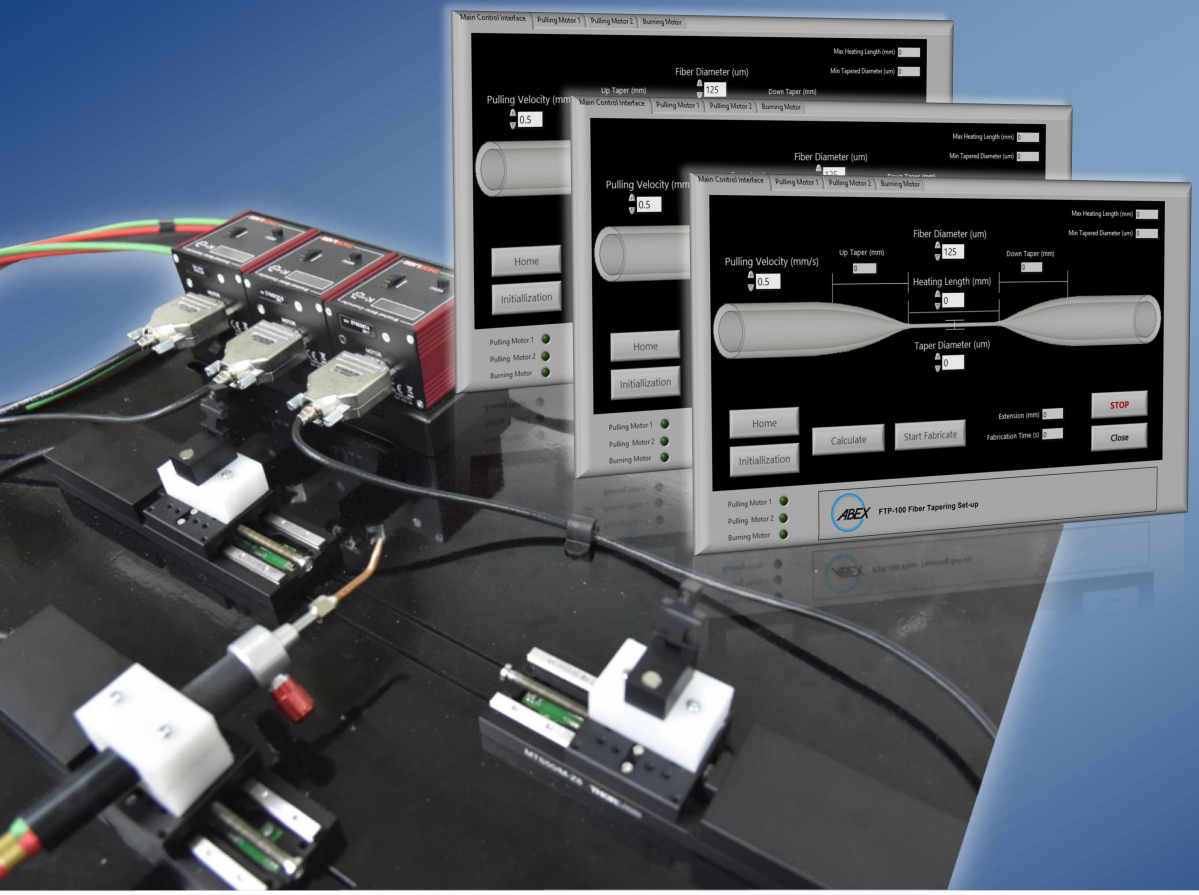


# FTP-100

# Automated Fiber Tapering Set-up

## DESCRIPTION

The FTP-100 fiber tapering system is designed to fabricate fiber taper with total maximum heating length up to 40mm and minimum taper diameter down to 1µm. In the standard configuration of the FTP-100 fiber tapering set-up, the brushing flame was lit-up by fusion of the LPG and oxygen gas. To ease the fabrication operation, a user friendly GUI is provided that the desired tapered diameter and length could be manipulated in the automation program.

A fiber taper can be fabricated by gently stretching an optical fiber while it is flame-brushed, such that the glass becomes soft. This procedure makes the fiber thinner over some length of e.g. a few millimeters or centimeters.

## APPLICATION

- Mode Matching
- Mode Filtering
- Fiber Coupler
- Tapered fibers with few-micron taper regions are interesting for a number of applications, such as supercontinuum generation, fiber optic sensors, or acousto-optic fiber modulators

## ORDERING INFORMATION

| | |
|---|---|
| **FTP-100** | **Automated Tapering Set-Up** |

## SPECIFICATIONS

| | |
|---|---|
| **Drawing precision (min)** | 3 um |
| **Drawing speed** | 25 - 10,000 um/s |
| **Drawing distance (max)** | 100 mm |
| **Holding fiber diameter** | 0.1 - 0.5 mm |
| **Heating Unit Torch scanning range** | 0 - 20 mm |
| **Moving speed** | 0 - 4 mm/s |
| **Gas used** | Oxygen and LPG |

## STANDARD ACCESSORIES

| | |
|---|---|
| **AC power cord** | 1 Unit |
| **Power Adapter** | 1 Unit |
| **USB communication cord** | 1 Unit |
| **Motor controller** | 1 Unit |
| **Brushing Motor** | 3 Units |
| **Stepping motor** | 2 Units |
| **Fiber Holder** | 2 Units |
| **Flame torch with two regulators** | 1 Unit |
| **Oxygen gas tank** | 1 Unit |
| **LPG gas tank** | 1 Unit |

*Customizations are available upon request*

Model Available

| | |
|---|---|
| **FTP-200** | To profile the diameter along the fiber taper with 1um stepping size |

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