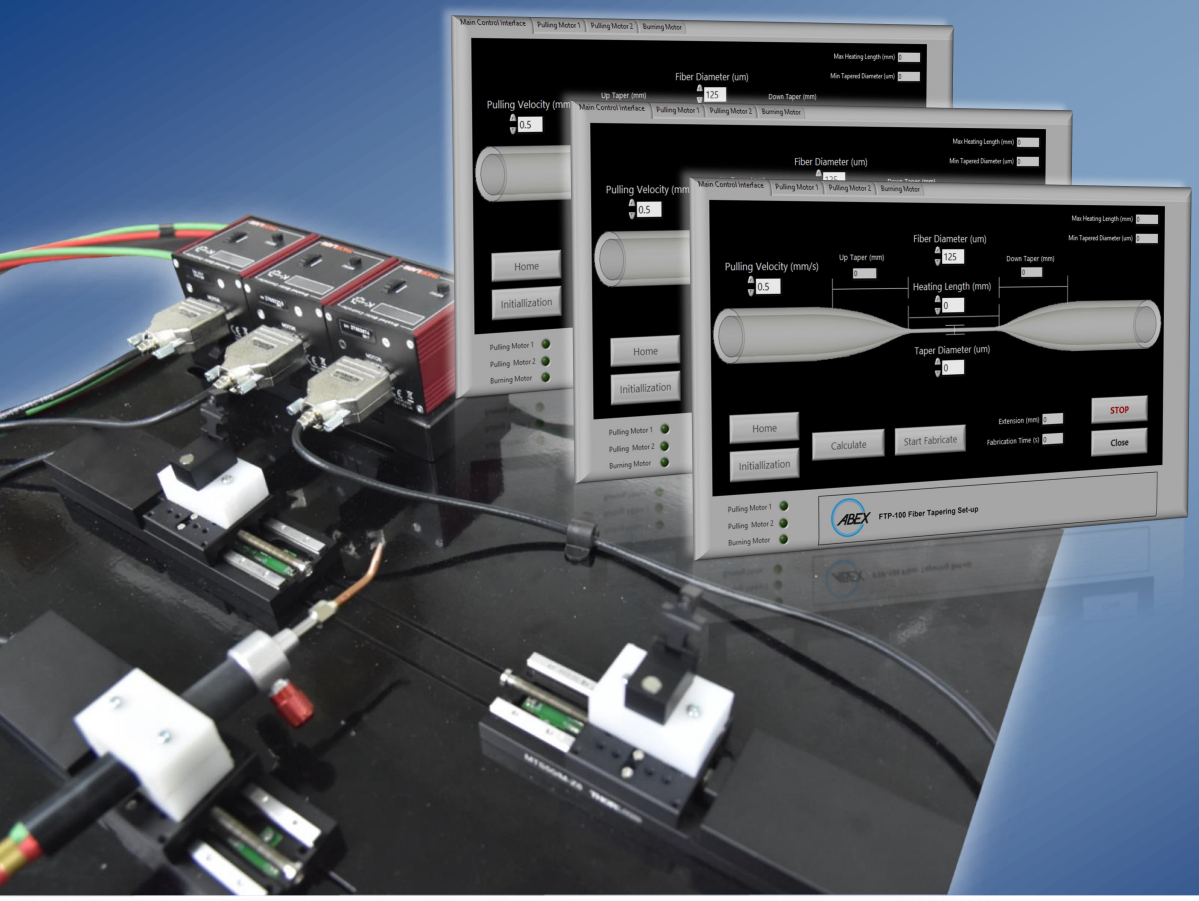

FTP-100

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 um
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

KUMPULAN ABEX SDN BHD (167376-M)

+6(03) 5192 2898 +6(03) 5192 2633 sales@kabex.com.my www.kabex.com.my