

UMF Equipment – Silica Optical Fibre Draw Tower

Nextrom OFS20

The Nextrom OFS20 Silica Optical Fiber Drawing Tower is a flexible machine for production of specialty Silica optical fibers. Several different diameter measurement gauges, noncontact tension measurement systems and coating concentricity monitor together with Nextrom's advanced process control and data logging system guarantee the quality of the produced fiber.

The Nextrom fiber draw tower is suitable for drawing a range of specialty fibers such as single-mode fibers, multi-mode fibers, Bragg Fiber, Laser Fiber, Holey Fiber, etc.

- Features:
- High-temperature furnace.
 - Two furnace systems with different sizes (diameters) for cane and fiber drawing.
 - Dynamic size-tuning iris for preforms with outer diameter variations.
 - Several different diameter measurement gauges.
 - Non-contact tension measurement systems.
 - A variety of start-up and master capstans.
 - Fiber take up system for fiber winding.
 - UV-curing system for Acrylic coating.
 - Heat-curing system for polyimide coating.
 - Advanced process control and data logging system.

Please refer to supplier information page: <http://www.rosendahlnextrom.com/fiber-optics/> for further details of the system.

For inquiries, please contact Ms. Pandy Ho (pandy.ho@polyu.edu.hk).

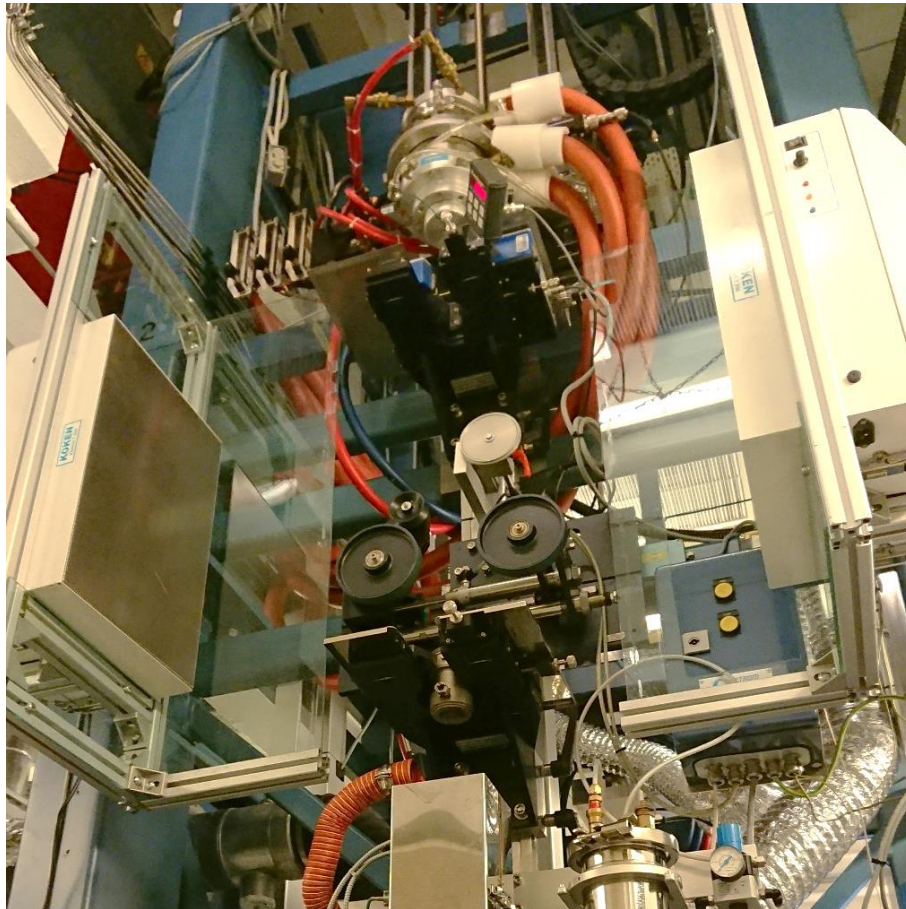


Figure 1. Nextrom OFS20 Silica Optical Fiber Drawing Tower

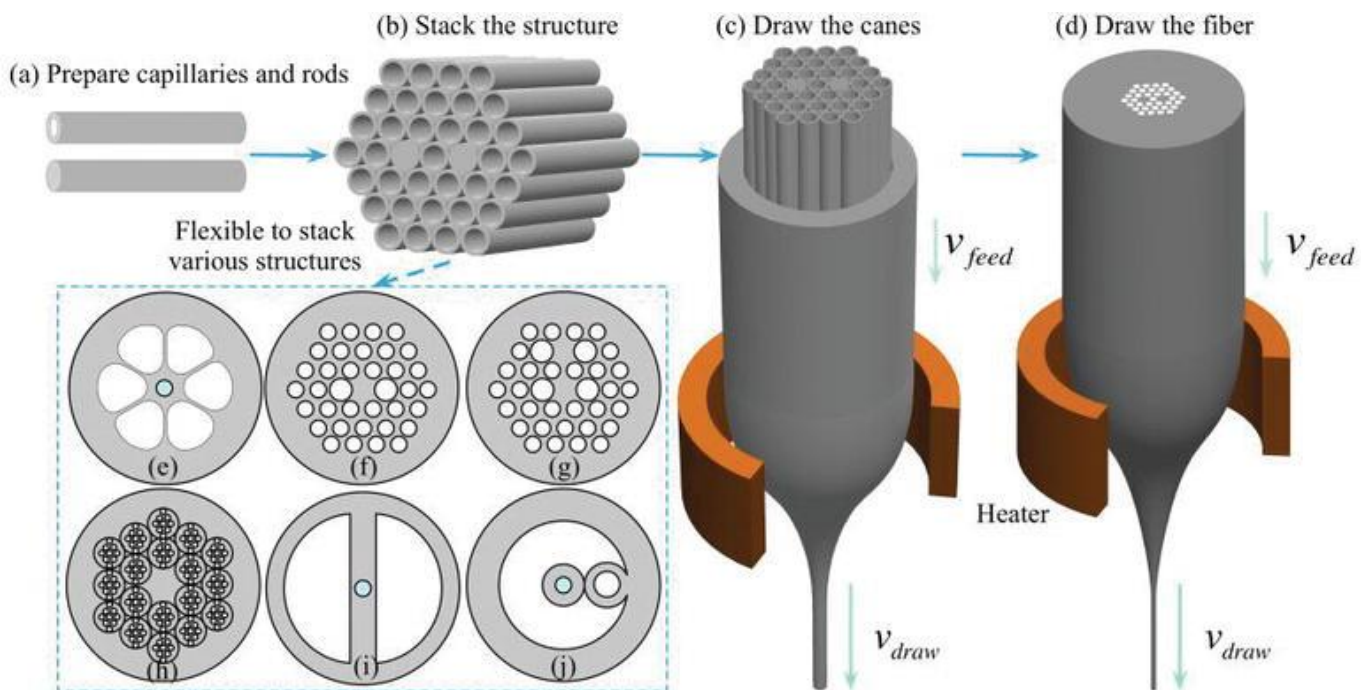


Figure 2. Illustration of the stack-and-draw method used in microstructured optical fibers (MOFs) fabrication (“Fabrication and Sensing Applications of Special Microstructured Optical Fibers” By Zhengyong Liu and Hwa-Yaw Tam. Published: December 20th 2017. DOI: 10.5772/intechopen.70755)