

## Optical Fiber Drawing Tower

### Quartz Series Optical Fiber Drawing Tower

Quartz series optical fiber drawing towers are used to manufacture polarization-maintain optical fiber, large diameter core optical fiber, metal-coated optical fiber, Anti-radiation optical fiber, and also to manufacture quartz capillary tube for photoelectric parts. Drawing tower consists of tower frame, preform feeding unit, graphite heating furnace, diameter gauge, auxiliary capstan, coating applicator, curing furnace, fiber tension gauge, capstan, take-up and electrical control system.

Item	Unit	Technical data
Preform size	mm	$\phi 50 \times 1500$
Temperature of heating furnace	$^{\circ}\text{C}$	$\leq 2200$
Speed of drawing	m/min	600
Diameter of product & accuracy	$\mu\text{m}$	1250~2000 $\pm$ 60

### Plastic Optical Fiber Drawing Tower

Plastic optical fiber drawing tower is used to draw gradual index plastic optical fiber (GI-POF), and also to draw special optical fiber which intensioning temperature is below 400 $^{\circ}\text{C}$ . Drawing tower consists of tower frame, preform feeding unit, heating furnace, diameter gauge, auxiliary capstan (optional), coating applicator (optional), curing furnace (optional), capstan, tension dancer, take-up and electrical control system. Our company can design and manufacture special optical fiber drawing tower depending on custom requirements.

Item	Unit	Technical data
Height of tower	m	6.5
Preform size	mm	$\phi 30 \times 1500$
Temperature of heating furnace	$^{\circ}\text{C}$	400、800、1200
Speed of drawing	m/min	$\leq 150$
Diameter of product & accuracy	mm	0.5-2 $\pm$ 0.06