INDUCTION FURNACE SYSTEM

For Large Diameter Preform Drawing
Preform Diameter Range
- NIF - 120 Body 80 - 120 mm
- NIF - 200 Body 120 - 200 mm
- NIF - 230 Body 150 - 230 mm

Typical Power Usage at 1800 m/min
- 120 mm Preform 31 kW
- 150 mm Preform 42 kW
- 200 mm Preform 70 kW
- 230 mm Preform 125 kW

Extension Tube Length 2500 mm
Maximum Operating Temperature 2250 °C

The Induction Furnace is designed for fast drawing of large diameter optical fiber preforms. Induction technology results in a simpler graphite design which is robust, easy to change and, with proper operating procedures, will give good furnace life.

The furnace body is vacuum tight and high purity Argon is used during operation. The bore gas flow is downward laminar flow, which ensures excellent control of fiber diameter variation.

The power supply is an industrial solid state power inverter based upon the latest in IGBT switching technology.

Dynamic iris provides sealing for uneven preforms. It is designed for preforms with large outer diameter variation along the preform length. Sealing elements can be used continuously.

Nextrom offers many options to customize every furnace system to specific customer products and needs.

OPTIONS
- Power Supply Sizes - 50 - 125 kW
- Furnace Body Size max. 120 mm or max. 230 mm
- Control Cabinet
- Top Seal Types
- Gas Purifier
- Water Recirculator
- Pyrometer
- Vacuum Purge System
- Dynamic Iris