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# PTR-200-PRL
# POLYIMIDE RECOATER



## High Temperature Recoat Protection and Linear Proof Testing

Strip Clean Cleave Splice Recoat Test

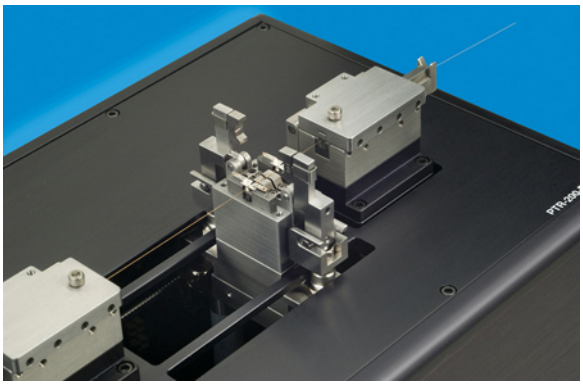


# PTR-200-PRL

The PTR-200-PRL is a stand-alone optical fiber recoating system designed for the application of polyimide coatings. A “drawing” process applies the polyimide resin which is then thermally cured to form a hard, high-temperature recoat. A single layer application takes around 60 seconds and results in an approximate thickness of 3-10 $\mu$m per pass, depending on the coating material. Multiple layers can be applied for higher reliability and increased coating diameters. The resulting recoat has mechanical and thermal properties similar to the original polyimide-coated fiber.

## Fully Automated Process

The section of fiber to be recoated is located between two fiber holding blocks. Once the recoat process is initiated, the polyimide resin is automatically pumped to a drawing head via a volumetric pump. The drawing head, which consists of dual dies and dual heaters, automatically makes the user-specified number of “passes” along the section of fiber. Each “pass” applies a coating of resin, followed by a low-temperature bake to remove volatiles and then a high-temperature bake to imidize and harden the coating. The integral linear proof tester ensures that proper tension is applied to the fiber during the recoating process and allows for proof testing of the recoated section of fiber.



## Specifications

| | |
|---|---|
| Overall Size | H: 5.0″ (127 mm), W: 10.25″ (260 mm), D: 7.0″ (178 mm) |
| Weight | 14.0 lbs (6.4 kg) |
| Power | 48 VDC, 10A (provided by external power supply) |
| Gas Supply | 80-120 psi, dry compressed air or gas supply |
| Vacuum Supply | External vacuum pump provided |
| **Recoating** | |
| Recoat Material | Thermal cure polyimide |
| Recoat Dies | Standard size for 125 micron fiber with 155 micron coating (other sizes available) |
| Recoat Diameter | Programmable based on number of layers (approx 3-10 $\mu$m per layer, depending on coating material) |
| Recoat Length | 50 mm max |
| Thermal Source | Dual filament heaters |
| Recoat Injection | Automatic direct from 1 oz. bottle |
| Total Cycle Time | 2-7 minutes, depending on number of layers |
| **Proof Testing** | |
| Load Application | Linear fiber clamp |
| Clamp Length | 1.5″ (38 mm) |
| Clamp Spacing | 3.7″ (94 mm) |
| Max. Load | 4.5 lbs, 2.1 kg, 235 kpsi (1.6 GPa) for 125 micron fiber |
| Accuracy | +/- 2% |
| Ramp Rate | Programmable, up to 5 lbs/s (2.3 kg/s) |
| Hold Time | Programmable |

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