



PTR207 - OCT 16, 2017

Item # PTR207 was discontinued on October 16, 2017. For informational purposes, this is a copy of the website content at that time and is valid only for the stated product.

VYTRAN® FIBER RECOATERS WITH PROOF TESTERS



OVERVIEW&NBSP:

Features

- · Recoat Spliced Fibers to Restore the Flexibility of the Fiber
- · Integrated Linear or Rotary Proof Tester
- 50 mm Maximum Recoat Length
- · Fully Programmable with Push Button Operation
- Manual and Automatic Recoater Options
- Durable Quartz Mold Plate Capable of >10,000 Recoats
- Replacement Components Sold Separately Below

Thorlabs' Vytran® Fiber Recoaters with Proof Testers offer easy, integrated solutions to recoat and test fusion-spliced fibers. The recoating process uses a volumetric dispensing pump to inject the

recoat material into the mold cavity. This pump is available with an automatic injection system (Item #s PTR208, PTR206, and PTR207) or a manual injection system (Item #s PTR206B and PTR207B). The recoated fiber is then cured with an ultraviolet (UV) source. The manual injection system is required for applications using low-index recoat material. The fiber recoating process restores the buffer coating to a stripped fiber, giving it the same flexibility as when originally manufactured.

The recoaters offered here feature either an integrated Linear Proof Tester (Item #s PTR206, PTR206B, and PTR208) or Rotary Proof Tester (Item #s PTR207 and PTR207B). A linear tester can proof test each fiber up to 20 N (4.5 lbs) to ensure that it meets strength requirements for the required service load. The rotary tester can perform both linear and tension tests up to 88 N (20 lbs). Tension testing takes a fiber up to its breaking strength (4.6

Building a Complete Fiber Processing System?

To build a complete system, you will need to purchase a base unit plus additional components that are dependent upon the size of the fiber being processed. We recommend that you contact us prior to ordering for assistance with choosing a system and all the necessary components. This also allows us to install and factory-align all system components within the base unit prior to shipping, ensuring optimal performance out-of-the-box.

To take advantage of this assistance, please e-mail us directly at techsupport@thorlabs.com and a representative will contact you shortly.



Click to Enlarge Thorlabs' Fiber Recoater detailing the mold assembly, fiber block holders, and fiber block inserts.

tension tests up to 89 N (20 lbs). Tension testing takes a fiber up to its breaking strength (a destructive measurement) and then records the peak tension. Unlike standard heat shrink protection sleeves, a recoated fiber can be handled and coiled normally, without risking the fusion-spliced section of fiber.

Regardless of recoater type, the process starts with the fusion-spliced section of fiber being placed in the middle of the mold assembly (manual mold assemblies sold separately below). Once set in position, inserts (sold separately below) in the fiber blocks secure the spliced fiber in place. For the manual recoaters, the mold is closed by hand; automatic recoaters use a pneumatic mold assembly that automatically closes when the recoat process begins. Recoat material is pumped into the cavity (either manually or automatically, depending on the recoater in use) and then UV-cured. Due to their ability to restore a fusion-spliced fiber to near original condition, fiber recoaters are ideal for applications such as undersea optical fiber cables or submarine communication cabling. Additionally, they have research applications with devices such as fiber lasers or Distributed Bragg Reflector (DBR) lasers.

We offer two major types of recoaters, automatic and manual, with the major difference being the type of Injection Mold Assembly utilized in the device. Our manual recoaters use a hinged top that can be opened and closed by hand. Here, the recoat material is injected through a cross-channel in the top plate. Automatic recoaters, by contrast, utilize a pneumatic mold assembly, allowing for the direct injection of material into the mold cavity. Both the automatic and manual recoaters use a split-quartz mold, into which the recoat material is injected. The mold's surface is coated to prevent any recoat material that migrates between the plates from curing and forming imperfections on the finished recoat.

Mold Assemblies

The PTR208 automatic recoater comes standard with a mold assembly for \emptyset 430 μ m coated fibers; thus it is not necessary to choose a mold assembly for this recoater.

For our manual recoaters (Item #s PTR206, PTR206B, PTR207, and PTR207B), mold assemblies are available in three standard coating sizes: Ø280 µm, Ø430 µm, and Ø600 µm. When purchasing a Manual Fiber Recoater, choose the Mold Assembly that matches the desired fiber coating diameter; the assembly is then installed at the factory. Custom mold coating sizes are available up to Ø900 µm. Contact Tech Support for more information.

Inserts for Fiber Holding Blocks

In addition to the above, we offer a variety of inserts for use in the fiber holding blocks of the recoaters in order to support a wide range of fiber coating diameters. For recoaters with a rotary proof tester (Item #s PTR207 and PTR207B), the inserts are compatible with fiber coating diameters in a range from 125 µm to 900 µm. For recoaters with a linear proof tester (Item #s PTR206, PTR206B, and PTR208), the inserts cover a range for fiber coatings from Ø250 µm to 9900 µm.

Recoat Materials

Thorlabs offers both high-index (Item # AB950200) and low-index (Item # PC373) recoat materials for use in these recoaters. Recoaters with manual injection pumps (Item #s PTR206B and PTR207B) are compatible with both types of recoat material; all other recoaters are compatible with the high-index material only. Our manual recoaters with an automatic injection system (Item #s PTR206 and PTR207) can be customized to work with both the low- and high-index recoat material; please contact Tech Support for more information.

SPECS								
Item #	PTR208	PTR206	PTR206B	PTR207	PTR207B			
Recoater Type	Automatic		Mar	nual				
Recoater Mold	Pneumatic Split Quartz Plates ^a		Hinged Split Quartz Plates					
Recoat Diameter ^b	430 µm		280 μm, 430 μm, or 600 μm ^c					
Maximum Recoat Length		50 mm (2")						
Recoat Material	High- UV Curab	Index le Acrylate	High- or Low-Index UV Curable Acrylate	High-Index UV Curable Acrylate	High- or Low-Index UV Curable Acrylate			
UV/Thermal Source	32 UV LEDs		Four 10 W Tungste (Replacement Item # U					
Recoat Injection	Auto	matic	Manual ^d	Automatic	Manual ^d			
Recoat Volume	Programn	nable (µL)	Manual	Programmable (μL)	Manual			
Recoat Injection Rate	Programmab	le (≤1.8 μL/s)	Manual	Programmable (≤1.8 μL/s)	Manual			
Lamp Delay Time ^e	5 s (Typical)							
Cure Time ^e			17 s (Typical)					
Mold Cleaning Requirement ^f	At Start Up And Shut Down ^g		After Eve	ry Recoat				
Total Cycle Time	45 s (Typical)		60 s (T	ypical)				
Dimensions (L × W × H)	10.25" × 5.0"	× 5.0" (260 mm × 127 m	m × 127 mm)	,	60 mm × 178 mm × 127 m)			
AC Power		110 -	120 V / 200 - 240 V, 47-	63 Hz				
Proof Tester Specifications								
Proof Tester Type		Linear		Roi	tary			
Load Mechanism	1.5'	' (38 mm) Linear Fiber Cl	amp	Ø2" (50.8 mm) R	Rotating Mandrel ^h			
Fiber Spacing		2.9" (74 mm)		5" (12	7 mm)			
Minimum Fiber Length		6" (150 mm)		17" (43	32 mm)			
Maximum Load	235 kps	20 N (4.5 lbs) si (1.6 GPa) for a Ø125 μ	m Fiber	,	20 lbs) for a Ø125 μm Fiber			
Accuracy			±2%					
Ramp Rate ⁱ	Prog	rammable, ≤22.2 N/s (5 l	bs/s)	Manual, ≤22.2	2 N/s (5 lbs/s)			
Hold Time	0.00	s - 60.00 s, Programma	ble ^e	N	/A			
Display Units			lbs, kg, N, kpsi, and GPa					

- Requires an 80 120 psi Dry Compressed Air Source
- Custom sizes available; contact Tech Support.
- Depends on the Mold Assembly (See the Mold Assembly Presentation Below)
- Replacement Item # PTRRRM, Available Separately Below
- Programmable with the Handset Controller; Mold Size and Recoat Material Dependent
- The mold should be cleaned with either acetone or isopropyl alcohol, applied with a cotton swab. If the mold has an accumulation of cured material stuck on the plates, allow the cleaning solution (preferably acetone) about 60 90 seconds to soften and lift the material from the surface.
- The mold assembly of this recoater should be cleaned before the first recoating process of the day and then again after the last recoating process of the day.
- Check the minimum short-term bend radius of the fiber to be tested to ensure its compatibility with the Ø2" mandrel.
- The ramp rate is the rate at which the load is applied to the fiber.

PRODUCT DEMOS



Product Demonstrations

Thorlabs has demonstration facilitates for the Vytran® fiber glass processing systems offered on this page within our Morganville, New Jersey and Exeter, Devonshire offices. We invite you to schedule a visit to see these products in operation and to discuss the various options with a fiber processing specialist. Please schedule a demonstration at one of our locations below by contacting technical support. We welcome the opportunity for personal interaction during your visit!

Exeter, United Kingdom

2 Kew Court Exeter EX2 5AZ United Kingdom

Appointment Scheduling and Customer Support

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- Phone: (973) 300-3000
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The table below outlines the products and accessories necessary to purchase in order to construct a fully functioning fiber recoater system.

Vytran® Fiber Recoater and Proof Tester Selection Guide								
Component	Item #	PTR205	PTR303	PTR303B	PTR304	PTR304B		
Mold Assembly	RM280							
	RM430		Choose One	Choose One	Not Compatible	Not Compatible		
	RM600	Mold Assembly for						
	RM280L	Ø430 µm Fibers Included	Not Compatible	Not Compatible	Choose One			
	RM430L					Choose One		
	RM600L							
Inserts	VHH Series		Choose 2 Top Inserts and 2 Bottom Inserts					
Recoat Material	High Index (Item # AB950200)	Compatible	Compatible	Compatible	Compatible	Compatible		
Recoat Material	Low Index (Item # PC373)	Not Compatible	Not Compatible	Compatible	Not Compatible	Compatible		
Controller Type		Handset	Tablet	Tablet	Tablet	Tablet		

The table below outlines the entire PTR series to directly compare the capabilities across the whole line.

		,	Vytran [®] PT	R Series Re	ecoater and F	Proof Tester	Selection G	uide ^a					
Item #		PTR205	PTR208	PTR303	PTR303B	PTR304	PTR304B	PTR206	PTR206B	PTR207	PTR207B	PTR201	PTR302
Recoat Process	Automatic	✓	✓	-	-	-	-	-	-	-	-	-	-
	Manual	-	-	✓	✓	✓	✓	✓	✓	✓	✓	-	-
Proof Tester	Linear	-	✓	-	-	-	-	✓	✓	-	-	✓	-
	Rotary	-	-	-	-	-	-		-	✓	✓	-	1
Recoat Injection Pump	Automatic	✓	✓	✓	-	✓	-	✓	-	✓	-	-	-
	Manual	-	-	-	✓	-	✓	-	✓	-	✓	-	-
Maximum Recoat Length	50 mm	✓	✓	✓	✓	-	-	✓	✓	✓	✓	-	-
Waxiiiuiii Recoat Lengtii	100 mm	-	-	-	-	✓	✓	-	-	-	-	-	-
Recoat Material	High Index (Item # AB950200)	1	1	1	✓	1	✓	1	✓	1	✓	-	-
Recoat Material	Low Index (Item # PC373)	-	-	-	✓	-	✓	-	✓	-	✓	-	-
Controller Type	Handset	✓	✓	-	-	-	-	✓	✓	✓	✓	1	-
Controller Type	Tablet	-	-	✓	✓	✓	✓	-	-	-	-	-	✓
Mold Cleaning Requirement Daily ^b						After Every F	Recoat Proce	ess			N	//A	

- . These recoaters are designed to be used with high- or low-index recoater material. Thorlabs also offers the PRL201, which is designed for polyimidecoated fibers.
- . The mold assembly of these recoaters should be cleaned before the first recoating process of the day and then again after the last recoating process of the day.

Automatic Fiber Recoater with Proof Tester

- ▶ Automatic Fiber Recoater with Linear Proof Tester
- Available Standard for Ø430 μm Coatings
- Recoats Fibers up to 50 mm in Length
- Compatible with High-Index Recoat Material
- Ideal for Medium- and High-Volume Manufacturing

Thorlabs' Automatic Fiber Recoater completely automates the fiber recoat process and features an integrated linear proof tester. Fully programmable, it can be operated either through the handset controller (which gives full programming capabilities) or via buttons on the top of the machine

Our PTR208 Automatic Fiber Recoater uses a pneumatic mold assembly to control the mold plates. This design allows the recoat material to be directly injected into the mold cavity, eliminating any excess material, which would require cleaning after every recoat. Additionally, once the fiber is secured in the fiber holding blocks, the entire recoat process is performed automatically. This clean, automated process makes the PTR208 ideal for high-volume manufacturing. This recoater is designed for fiber coatings of Ø430 μm and requires the purchase of fiber block inserts (sold below). Choose the inserts that match the coating diameter of the fiber being used.

Components Included

- · Automatic Fiber Recoater with Integrated Proof Tester
- Pnuematic Mold Assembly for Ø430 μm Coatings
- Quick Snap-On Connectors for Compressed Air Source
- · Location-Specific Power Cord
- Handset Controller

Must be Purchased Separately

- · Fiber Holding Block Top Inserts (Two Required)
- · Fiber Holding Block Bottom Inserts (Two Required)
- High-Index Recoat Material (One Bottle Required)

· Manual Fiber Recoater with Integrated Proof Tester

· Location-Specific Power Cord

· Mold Assembly (One Required) Fiber Holder Top Inserts (Two Required)

· Fiber Holder Bottom Inserts (Two Required) High- or Low-Index Recoat Material (One Bottle Required)

Replacement Manual Injector (PTR206B and PTR207B)

Replacement Proof Test Grips (PTR207 and PTR207B)

Handset Controller

Must be Purchased Separately

· Replacement UV Bulb

Optional

· 80 - 120 psi Compressed Air/Gas Source (Not Available from Thorlabs)

Optional

· Replacement UV Bulb

The PTR208 is compatible with high-index recoat material only (sold below). The pneumatic design of the mold assembly requires an external 80 - 120 psi compressed air source (not available from Thorlabs).

This recoater comes with an integrated linear proof tester. The proof tester takes the fiber up to a predetermined load (≤20 N) and then releases it. The testing process is fully programmable, allowing the user to select parameters such as the load, the rate at which the load is applied, and the hold time. To ensure the longterm reliability of the fiber, the proof test level should be about three times higher than the applied service load for the spliced fiber.

A handset controller, which comes standard with the PTR208, allows the user to control and program fully the unit; all recoat and proof test parameters can be set through this controller.

Customized mold sizes for recoat diameters up to 900 µm; please contact Tech Support for more information.

Part Number	Description	Price	Availability
PTR208 Automatic Fiber Recoater with Linear Proof Tester		\$28,650.00	Today

Manual Fiber Recoaters with Proof Testers

- ▶ Manual Fiber Recoaters with Linear or Rotary Proof Components Included Tester
 - Linear: Proof Testing up to 20 N (4.5 lbs)
 - Rotary: Proof and Tension Testing up to 89 N (20 lbs)
- Compatible with Mold Assemblies with Coating Diameters of 280 μm , 430 μm , or
- Recoats Fibers up to 50 mm in Length
- Compatible with High- and Low-Index Recoat
- ▶ Ideal for Low-Volume Manufacturing and R&D

Thorlabs' Manual Fiber Recoaters use a hinged mold assembly (sold below) to form the mold cavity for recoating. This design allows the recoat material to be

injected through a cross-channel in the mold's top plate. Unlike the automatic version sold above, the manual recoaters require cleaning between each recoat process. However, the mold assemblies can be easily swapped out and the

process parameters can be easily changed, providing a level of flexibility and adaptability that automatic recoaters cannot provide. Because of this, they are ideal for low-volume manufacturing and research & development applications.

When selecting one of these recoaters, both a mold assembly and inserts for the fiber holding blocks (two top and two bottom, sold below) must be chosen. The mold assemblies are available for coating diameters of 280 μ m, 430 μ m, and 600 µm. Customized recoat diameters up to 900 µm are also available; please contact Tech Support for more information The type of insert is dependent upon the type of integrated proof tester. The PTR206 and PTR206B are compatible with the VHJ series inserts, while the PTR207 and PTR207B are compatible with the VHH series inserts

These manual recoaters have two options for the recoat material injection system; manual or automatic. For the manual injection system (Item #s PTR206B and PTR207B), the user is required to dispense the recoat material into the mold

Click to Enlarge The PTR206B Manual Fiber Recoater shown with the included Handset Controller

cavity. The manual injection system is compatible with both low- and high-index recoat material (sold below) and a replacement manual injector is also available below.. An automatic injection system (Item #s PTR206 and PTR207), which is only compatible with high-index recoat material, uses a pump to inject the recoat material. An add-on unit that can use both low- and high-index recoat materials is available; please contact Tech Support for more information. The amount of material dispensed by the automatic injector is controlled by hand via the top-mounted "inject" button or programmed into the machine by the handset controller

The PTR206 and PTR206B Manual Fiber Recoaters come with an integrated linear proof tester, which takes the fiber up to a predetermined load (<20 N) and then releases it. The testing process is fully programmable, allowing the user to select parameters such as the load, the rate at which the load is applied, and the hold time. To ensure the long-term reliability of the fiber, the proof test level should be about three times higher than the applied service load for the spliced fiber.

The PTR207 and PTR207B Manual Fiber Recoaters come with an integrated rotary proof tester, which can perform both proof and tension tests (≤89 N). Tension testing takes the fiber up to its breaking point, and the peak tension is recorded in units of tension (pounds, kilograms, or Newtons) or in units of stress (kpsi or GPa). The testing processes of the rotary proof testers are also fully programmable. One set of proof test grips is included; replacement proof test grips are available below in packs of 10.

Each recoater comes with a handset controller (see image to the right) that allows the user to control and program fully the unit; all recoat and proof test parameters can be set through this controller.

Older models of the PTR206B and PTR207B (sold before 2015) used two different types of UV lamps (high or low power) for curing the recoat material, depending on whether low- or high-index material was being used. All current models use the high-power UV lamp (Item # UVRB, available below), which can be programmed for high- or low-powered output. For help with replacing the older, low-power lamp or to order systems that still use this lamp, please contact Tech Support.

Part Number	Description	Price	Availability
PTR206	Manual Fiber Recoater with Linear Proof Tester and Automated Pump	\$12,850.00	Lead Time
PTR206B	Manual Fiber Recoater with Linear Proof Tester and Manual Pump	\$11,575.00	Lead Time
PTR207	Manual Fiber Recoater with Rotary Proof Tester and Automated Pump	\$13,225.00	Lead Time
PTR207B	Manual Fiber Recoater with Rotary Proof Tester and Manual Pump	\$12,200.00	Lead Time

Mold Assemblies - One Required for Manual Fiber Recoaters

- Compatible with Manual Fiber Recoaters
- Three Available Mold Coating Sizes: Ø280 μm, Ø430 μm, and Ø600 μm
- Recoats Fibers up to 50 mm in Length
- Comes Installed from Factory when Purchased with Manual Recoater

Item # Coating Size		Compatible Recoaters
RM280	Ø280 µm	
RM430	Ø430 µm	PTR206, PTR206B PTR207, & PTR207B
RM600	Ø600 µm	111207, 01 112075

The Mold Assemblies are composed of split quartz mold plates which, when closed, form the cylindrical mold cavity around the exposed section of the fiber being recoated. Recoat material (sold below) is injected into the mold assembly by either an automatic or manual injection system. Then, UV light cures the recoat material. Cure times are dependent on the mold size and recoat material, but they range from approximately 12 - 15 seconds for the RM280 mold assembly with high-index AB950200 recoat material to 30 - 60 seconds with the low-index PC373 recoat material. When choosing a manual recoater (sold directly above), a mold assembly must also be ordered. They are available for Ø280 µm, Ø430 µm, or Ø600 µm fiber coatings. Custom mold sizes up to Ø900 µm are available; please contact Tech Support for more information.

When purchasing a manual fiber recoater for the first time, it is necessary to choose a mold assembly that is appropriate for the desired fiber coating diameter. Additional mold assemblies may also be purchased and swapped out by the user. The assembly simply screws to the top of the device, making the removal and install simple and easy. Because of this, our manual recoaters are adaptable and flexible in the field and can be modified to accept varying diameters of fiber quickly.

It is also necessary to order the proper inserts (sold below) that best match the fiber diameter being used, whether purchasing a fiber recoater for the first time or updating a current recoater for a different fiber diameter.

Please note that these mold assemblies are only for the manual recoaters (Item #s PTR206, PTR206B, PTR207, and PTR207B); the automatic recoater (Item # PTR208) is sold with its own assembly already installed.

Part Number	Description	Price	Availability
RM280	Recoater Mold Assembly, Ø280 µm Coating, 50 mm Max Recoat Length	\$4,039.00	Today
RM430	Recoater Mold Assembly, Ø430 µm Coating, 50 mm Max Recoat Length	\$4,039.00	Today
RM600	Recoater Mold Assembly, Ø600 µm Coating, 50 mm Max Recoat Length	\$4,039.00	Today

Inserts for Fiber Holding Blocks - Two Top and Two Bottom Required

- ► Fiber Block Inserts for Thorlabs' Fiber Recoaters
- Two Types:
 - VHJ Series for Recoaters with Linear Proof Testers
 - VHH Series for Recoaters with Rotary Proof Testers
- Choose Two Top Inserts and Two Bottom Inserts

For all the recoaters sold above, the proper set of inserts need to be selected. A total of four inserts (two top and two bottom) are required for a full unit. The inserts are seated in and secured to the fiber holding blocks. They can easily be swapped out for different sizes, allowing our recoaters to adapt quickly should different fiber coating sizes be desired.

We offer two types of inserts to meet the needs of the two styles of integrated proof testers featured in the recoaters sold on this page. The VHJ Series inserts are designed for recoaters with linear proof testers (Item #s PTR206, PTR206B, and PTR208). They are compatible with fiber coating sizes ranging from Ø80 µm to Ø1000 µm. The VHH Series inserts are designed for recoaters with a rotary proof tester (Item #s PTR207 and PTR207B) and offer a compatibility range from Ø90 µm to Ø990 µm.

Custom sizes are available; please contact Tech Support for additional information.

	Compatible	Fiber Buffer	/Coating Diam	eters & Recoa	ters	
Item #	Top or Bottom	Nominal Diameter	Minimum Diameter	Maximum Diameter	Compatible Recoaters	
VHJT	Тор	-	80 µm	700 µm		
VHJT900 ^a	Тор	900 µm	700 µm	1000 µm	PTR206.	
VHJ250	Bottom	250 µm	80 µm	375 μm	PTR206B, &	
VHJ500	Bottom	500 µm	375 µm	700 µm	PTR208	
VHJ900S ^a	Bottom	900 µm	700 µm	1000 µm		
VHH000	Тор	-	90 µm	660 µm		
VHH900 ^a	Тор	900 µm	810 µm	990 µm		
VHH100	Bottom	100 µm	90 µm	110 µm		
VHH125	Bottom	125 µm	113 µm	137 µm		
VHH160	Bottom	160 µm	144 µm	176 µm		
VHH250	Bottom	250 µm	225 µm	275 µm	PTR207 & PTR207B	
VHH300	Bottom	300 µm	250 μm	350 µm	1 1112075	
VHH400	Bottom	400 µm	350 µm	450 µm		
VHH500	Bottom	500 μm	450 μm	550 µm		
VHH600	Bottom	600 µm	540 µm	660 µm		
VHH900S ^a	Bottom	900 µm	810 µm	990 µm		

 Custom mold sizes are available for Ø900 µm fiber coatings for both our automatic and manual fiber recoaters. Please contact Tech Support for more information.

Part Number	Description	Price	Availability
VHJT	Top Insert for PTR201, PTR206, & PTR208, Flat	\$102.00	Today

VHJT900	Top Insert for PTR201, PTR206, & PTR208, for Use with VHJ900S Only	\$133.00	Today
VHJ250	Bottom Guide Insert for PTR201, PTR206, & PTR208, Ø80 µm - Ø375 µm Coating	\$189.00	Today
VHJ500	Bottom Guide Insert for PTR201, PTR206, & PTR208, Ø375 μm - Ø700 μm Coating	\$189.00	Today
VHJ900S	Bottom Guide Insert for PTR201, PTR206, & PTR208, Ø700 µm - Ø1000 µm Coating	\$133.00	Today
VHH000	Top Insert for FHB1 and PTR Series, Flat	\$50.00	Today
VHH900	Top Insert for Use with VHH900S	\$159.00	Today
VHH100	Bottom V-Groove Insert for FHB1 and PTR Series, Ø90 μm - Ø110 μm Coating	\$159.00	Today
VHH125	Bottom V-Groove Insert for FHB1 and PTR Series, Ø113 μm - Ø137 μm Coating	\$159.00	Today
VHH160	Bottom V-Groove Insert for FHB1 and PTR Series, Ø144 µm - Ø176 µm Coating	\$159.00	Today
VHH250	Bottom V-Groove Insert for FHB1 and PTR Series, Ø225 μm - Ø275 μm Coating	\$159.00	Today
VHH300	NEW! Bottom V-Groove Insert for FHB1 and PTR Series, Ø250 μm - Ø350 μm Coating	\$159.00	Today
VHH400	NEW! Bottom V-Groove Insert for FHB1 and PTR Series, Ø350 μm - Ø450 μm Coating	\$159.00	Today
VHH500	Bottom V-Groove Insert for FHB1 and PTR Series, Ø450 µm - Ø550 µm Coating	\$159.00	Today
VHH600	Bottom V-Groove Insert for FHB1 and PTR Series, Ø540 µm - Ø660 µm Coating	\$159.00	Today
VHH900S	Bottom V-Groove Insert for FHB1 and PTR Series, Ø810 µm - Ø990 µm Coating	\$159.00	Today

Recoat Materials - Choose Appropriate Material

- AB950200: High-Index Recoat Material
- PC373: Low-Index Recoat Material

Thorlabs offers UV-curable acrylate recoat materials to be used in our PTR series fiber recoaters. We offer both high-index (Item # AB950200) and lowindex (Item # PC373) material in 1 oz bottles. The high-index material can be

Item #	Recoat Material	Compatible Recoaters
AB950200	High-Index	PTR206, PTR206B, PTR207, PTR207B, & PTR208
PC373	Low-Index	PTR206B & PTR207B

used in all recoaters (except the PRL201), whereas the low-index material can only be used in recoaters with the manual injection pump option.

Part Number	Description	Price	Availability
AB950200	High-Index Recoat Material, 1 oz	\$266.00	Today
PC373	Low-Index Recoat Material, 1 oz	\$388.00	Today

Replacement UV Bulb for Manual Recoaters

- Replacement UV Bulbs for Manual Recoaters Listed to the Riaht
- ▶ 10 W Tungsten-Halogen Lamp
- Replacements Sold Individually
 - Four Bulbs Used in 50 mm Length Recoaters
 - ▶ Eight Bulbs Used in 100 mm Length Recoaters

The UVRB is a replacement bulb for the Vytran fiber recoaters listed to the right. Recoaters with a 50 mm recoat length are shipped with the four bulbs required for operation and recoaters with a 100 mm recoat length are shipped with eight bulbs

Based on a schedule of 2000 recoats per month with 15 seconds per recoat, we recommend replacing the bulbs monthly. Instructions for bulb replacement are provided in the manual for each recoater or workstation (available from our website by clicking the red Docs icon next to *Older models of the PTR203B, PTR204B, PTR206B, and PTR207B

Please note that any fingerprints on the surface of the bulb will shorten the bulb's life; avoid high-index material was being used. All current models use the high-index material was being used. All current models use the high-index material was being used. handling the glass envelope of the bulb. If the envelope is touched, clean with a soft lens tissue wetted with acetone or alcohol.

Compatible Systems

- PTR303, PTR303B, PTR304, and PTR304B Manual Fiber Recoaters
- PTR206, PTR206B*, PTR207, and PTR207B* Manual Fiber Recoaters with Proof Testers
- FFS2000 and FFS2000PT Fiber Preparation and Splicing Workstations
- FFS2000PM and FFS2000WS Fiber Preparation, Splicing, and Proof Testing Workstations
- · Discontinued PTR203, PTR203B*, PTR204, and PTR204B* Recoaters

(sold before 2015) used two different types of UV bulbs (high or low power) for curing the recoat material, depending on whether low- or power UVRB, which can be programmed for high- or low-powered output. For help with replacing the older, low-power bulb, please contact Tech Support.

Part Number	Description	Price	Availability
UVRB	Replacement Recoat Bulb for Manual Fiber Recoaters, Qty. 1	\$51.00	Today

Replacement Injector for Manual Recoaters

- Replacement Manual Injector for Dispensing Recoat Material into the Mold
- Compatible with Select Vytran Manual Recoaters and PC373 and AB950200 Recoat Materials

The PTRRRM is a replacement manual injector for the Vytran fiber recoaters listed to the right. Each of these systems is shipped with a manual injector required for operation.

The manual injector can be mounted to compatible fiber recoaters via the 4-40 screws on the recoater housing (see photo to the right). Use a 3/32" hex key to secure the injector prior to use. To connect the PTRRRM to the recoater mold, tighten the connector at the end of the green plastic tubing, then loosen by a 1/4 turn to allow for

The injector is equipped with a distribution valve and two-position selection lever for directing the flow of recoat material. A knurled dispensing screw with an internal plunger acts as a syringe for the recoat material. To fill the syringe, point the lever downward (i.e., toward the recoat bottle), then rotate the knurled dispensing screw

Compatible Systems

- PTR303B Manual Fiber Recoater
- · PTR206B and PTR207B Manual Fiber Recoaters with Proof Tester
- · Discontinued PTR203B Recoater





counterclockwise until it spins freely to fill the syringe (shown in the photo to the right). Then, to inject the recoat material into the mold, point the lever horizontally (i.e., facing the knurled screw) and rotate the screw clockwise until near the end of the travel range is reached. Avoid bottoming out the dispenser as this may damage the internal plunger; also take care when re-engaging the threads to avoid cross threading the dispensing screw. Several fill/inject steps may be needed until air is displaced within the system. Use lens tissue and an acetone or alcohol cleaning solution to collect any excess recoat material that flows from the mold.

Part Number	Description	Price	Availability
PTRRRM	Replacement Injector for Manual Fiber Recoaters	\$1,227.00	Today

Replacement Proof Test Grips for Fiber Rotary Proof Testers

The PG200 Proof Test Grips are designed as replacements for the Vytran rotary

Compatible Systems proof testers listed to the right. Each system is sold with a set of these grips

Proof test grips may need to be replaced when the fiber slips at high tension levels. After the proof test grips are replaced the system will need to be calibrated; please contact Tech Support for details. Instructions for replacing the proof test grips are provided in each system's manual.

- PTR302 Fiber Rotary Proof Tester
- PTR207 and PTR207B Manual Fiber Recoaters with Proof Testers
- FFS2000PT Fiber Preparation and Splicing Workstation
- FFS2000WS Fiber Preparation, Splicing, and Proof Testing Workstation

Part Number	Description	Price	Availability
PG200	Replacement Proof Test Grips for Rotary Proof Testers, Qty. 10	\$51.00	Today



PTR207 Shown with Accessories