



PTR206 - September 4, 2018

Item # PTR206 was discontinued on September 4, 2018. 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

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 cabing. 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 Ø430 µm 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 Ø900 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.

UV/Thermal Source 32 UV LEDs Four 10 W Tungsten-Halogen Lamps (Replacement Item # UVRB, Available Below) Recoat Injection Automatic Manual ^d Automatic Manual ^d Recoat Injection Automatic Manual ^d Automatic Manual ^d Recoat Injection Rate Programmable (µL) Manual Programmable (µL) Manual Recoat Injection Rate Programmable (≤1.8 µL/s) Manual Programmable (≤1.8 µL/s) Manual Lamp Delay Time ^a 5 s (Typical) Manual Programmable (≤1.8 µL/s) Manual Manual Lamp Delay Time ^a At Start Up And Shut Down ⁹ After Every Recoat Manual Distribute (200 mm × 178 mm × 127 mm) Mold Cleaning Requirement ⁴ At Start Up And Shut Down ⁹ Manual 20 (200 mm × 127 mm × 127 mm) Mol2:5* 7.0* × 5.0* (260 mm × 127 mm × 127 mm) AC Power 10.25* × 5.0* × 5.0* (260 mm × 127 mm × 127 mm) 10.25* × 7.0* × 5.0* (260 mm × 127 mm × 127 mm) AC Power 10.25* × 5.0* × 5.0* (260 mm × 127 mm × 127 mm) 10.25* × 7.0* × 5.0* (260 mm × 127 mm × 127 mm) Fiber Specifications Proof Tester Type Linear Rotary Rotary Rotary Rotary Rotary Rotary Rotary Rotary <	SPECS							
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Hold Time 0.00 s - 60.00 s, Programmable ^e N/A	Accuracy			±2%				
	Ramp Rate ⁱ	Prog	rammable, ≤22.2 N/s (5 l	bs/s)	Manual, ≤22.	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	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.

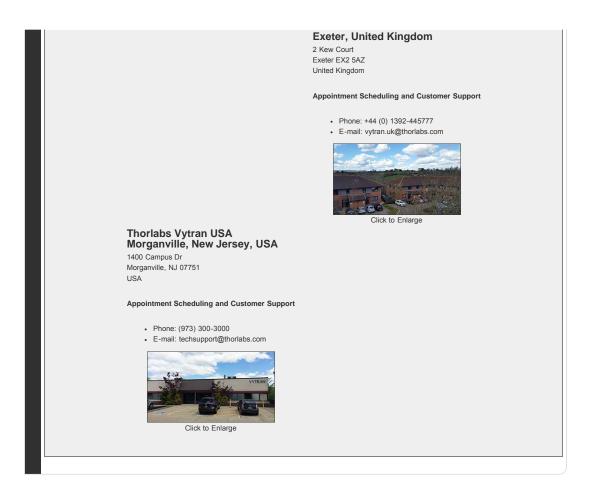
PRODUCT DEMOS

Vytran "Horlass

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!

Thorlabs Vytran Europe



			Vytran [®] F	Fiber Recoa	ter and Pro	of Tester S	election Guid	le							
Component	Iter	n#	F	PTR205		PTR303	PTR	303B	PTR304	Р	TR304B				
	RM	280													
	RM	430				Choose One	Choos	e One	Not Compatil	ole Not	Compatible				
	RM	600	Mold A	Assembly for	r										
Mold Assembly	RM2	280L	Ø430 µm	Fibers Inclu	ded		1								
	RM4	430L			N	ot Compatibl	e Not Cor	npatible	Choose On	e Ch	oose One				
	RM	500L													
Inserts	VHH S	Series			C	hoose 2 Top	Inserts and 2	2 Bottom In	serts						
Recoat Material	High (Item # A	Index B950200)	Co	ompatible		Compatible	Comp	atible	Compatible	Co	ompatible				
Recoat Material	Low (Item #		Not (Compatible	N	ot Compatibl	e Comp	atible	Not Compatil	ole Co	ompatible				
Controller Type			F	Handset		Tablet	Ta	olet	Tablet		Tablet				
		e PTR series	to directly co	ompare the o	capabilities	across the w	hole line.								_
Item #		PTR series	to directly co	,	Vytran [®] PT	R Series Re	ecoater and F		er Selection G		PTR206B	PTR207	PTR207B	PTR201	I
Item #				PTR205	Vytran [®] PT PTR208			Proof Teste PTR304	PTR304B	uide ^a PTR206	PTR206B	PTR207	PTR207B	PTR201	
Item # Recoat Process		Auto	omatic	,	Vytran [®] PT	R Series Re PTR303	coater and F PTR303B	PTR304	PTR304B	PTR206	-	-	-	PTR201	
		Auto	omatic	PTR205	Vytran [®] PT PTR208	R Series Re	ecoater and F		1	PTR206		PTR207	PTR207B	-	
		Auto Ma Lir	omatic nual near	PTR205	Vytran [®] PT PTR208	R Series Re PTR303 -	coater and F PTR303B	PTR304	PTR304B	PTR206	- - -	- - -	- ✓	PTR201	
Recoat Process		Auto Ma Lir Ro	omatic nual near tary	PTR205	Vytran [®] PT PTR208	R Series Re PTR303 - - -	PTR303B	PTR304	PTR304B	PTR206 - ✓		- - -	-	-	
Recoat Process		Auto Ma Lir Ro Auto	omatic nual near tary omatic	PTR205	Vytran [®] PT PTR208	R Series Re PTR303 -	PTR303B	PTR304 - ✓ -	PTR304B	PTR206	- - - -	- - -	- - - -	-	
Recoat Process Proof Tester Recoat Injection P	ump	Auto Ma Lir Ro Auto Ma	omatic nual near tary	PTR205	Vytran [®] PT PTR208	R Series Re PTR303 - - - -	PTR303B	PTR304	PTR304B	PTR206	- - - - -	✓ ✓ ✓	- - - - -	· · · · · · · · · · · · · · · · · · ·	
Recoat Process Proof Tester	ump	Auto Ma Lir Ro Auto Ma 50	nual nual tary nual nual	PTR205	Vytran [®] PT PTR208	R Series Re PTR303 - - -	PTR303B	PTR304	PTR304B - - - - - - - - -	PTR206 - ✓	- - - -	- - - -	- - - -	-	
Recoat Process Proof Tester Recoat Injection P Maximum Recoat I	ump	Auto Ma Lir Ro Auto Ma 50 100 High	omatic nual near tary omatic nual mm	PTR205	Vytran [®] PT PTR208 ✓ · ·	R Series Re PTR303 - - - - -	PTR303B - ✓ - - - - ✓	PTR304	PTR304B	PTR206		✓ ✓ ✓ ✓		- - - - -	
Recoat Process Proof Tester Recoat Injection P	ump	Auto Ma Lir Ro Auto Ma 50 100 (Item # A Low	matic nual near tary matic nual mm lndex	PTR205 ✓	Vytran [®] PT PTR208 ✓ · · ·	R Series Re	PTR303B	PTR304	PTR304B - - - - - - - - -	PTR206 - ✓ - - - - - - -		✓ ✓ ✓ ✓	✓ ✓ ✓ ✓	- - - - -	
Recoat Process Proof Tester Recoat Injection P Maximum Recoat I Recoat Material	ump	Auto Ma Lir Ro Auto Ma 50 100 (Item # A Low (Item #	matic nual tear tary matic nual mm Index kB950200) Index	PTR205 ✓	Vytran [®] PT PTR208 ✓ · · ·	R Series Re	PTR303B - ✓ - - - - - - - - - - - - -	PTR304	PTR304B - - - - - - - - -	PTR206 - ✓ - - - - - - -		✓ ✓ ✓ ✓		- - - - -	
Recoat Process Proof Tester Recoat Injection P Maximum Recoat I	ump	Auto Ma Lir Ro Auto Ma 50 100 High (Item # A Low (Item # Har	matic nual tear tary matic nual mm Index KB950200) Index PC373)	PTR205 ✓	Vytran [®] PT PTR208 ✓ · · · · · ·	R Series Re PTR303 - - - - - - - - - - - - -	PTR303B - ✓ - - - - - - - - - - - - -	PTR304 - - - - - - - - -	PTR304B - - - - - - - - -	PTR206 ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓				- - - - - - - - - - - - - -	

PTR302

✓

-√ 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)
- 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 um; please contact Tech Support for more information.

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

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) · Manual Fiber Recoater with Integrated Proof Tester Location-Specific Power Cord Rotary: Proof and Tension Testing up to 89 Handset Controller N (20 lbs) Compatible with Mold Assemblies with Coating Must be Purchased Separately Diameters of 280 µm, 430 µm, or 600 µm · Mold Assembly (One Required) • Fiber Holder Top Inserts (Two Required) Recoats Fibers up to 50 mm in Length Compatible with High- and Low-Index Recoat Fiber Holder Bottom Inserts (Two Required) High- or Low-Index Recoat Material (One Bottle Required) Material Ideal for Low-Volume Manufacturing and R&D Optional Thorlabs' Manual Fiber Recoaters use a hinged mold assembly (sold below) to · Replacement UV Bulb form the mold cavity for recoating. This design allows the recoat material to be Replacement Manual Injector (PTR206B and PTR207B) injected through a cross-channel in the mold's top plate. Unlike the automatic Replacement Proof Test Grips (PTR207 and PTR207B) 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 µm, 430 µm, 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

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

Controller injection system (Item #s PTR206B and PTR207B), the user is required to dispense the recoat material into the mold 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, 	Item #	Coating Size	Compatible Recoaters
Ø430 μm, and Ø600 μm	RM280	Ø280 µm	
Recoats Fibers up to 50 mm in Length	RM430	Ø430 µm	PTR206, PTR206B PTR207, & PTR207B
Comes Installed from Factory when Purchased	RM600	Ø600 µm	1 11207, 01 112075

with Manual Recoater

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 wust 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

Fiber Block Inserts for Thorlabs' Fiber Recoaters	Compatible Fiber Buffer/Coating Diameters & Recoaters					
Two Types: VHJ Series for Recoaters with Linear	Item #	Top or Bottom	Nominal Diameter	Minimum Diameter	Maximum Diameter	Compatib Recoater
Proof Testers	VHJT	Тор	-	80 µm	700 µm	
VHH Series for Recoaters with	VHJT900 ^a	Тор	900 µm	700 µm	1000 µm	PTR206.
Rotary Proof Testers	VHJ250	Bottom	250 µm	80 µm	375 µm	PTR206B,
Choose Two Top Inserts and Two Bottom Inserts	VHJ500	Bottom	500 µm	375 µm	700 µm	PTR208
	VHJ900S ^a	Bottom	900 µm	700 µm	1000 µm	
or all the recoaters sold above, the proper set of inserts need to be elected. A total of four inserts (two top and two bottom) are required for a	VHH000	Тор	-	90 µm	660 µm	
Il unit. The inserts are seated in and secured to the fiber holding blocks.	VHH900 ^a	Тор	900 µm	810 µm	990 µm	
ney can easily be swapped out for different sizes, allowing our recoaters to lapt quickly should different fiber coating sizes be desired.	VHH100	Bottom	100 µm	90 µm	110 µm	
	VHH125	Bottom	125 µm	113 µm	137 µm	
e offer two types of inserts to meet the needs of the two styles of tegrated proof testers featured in the recoaters sold on this page. The VHJ	VHH160	Bottom	160 µm	144 µm	176 µm	
eries inserts are designed for recoaters with linear proof testers (Item #s	VHH250	Bottom	250 µm	225 µm	275 µm	PTR207 PTR207
TR206, PTR206B, and PTR208). They are compatible with fiber	VHH300	Bottom	300 µm	250 µm	350 µm	FIR207
ating sizes ranging from Ø80 µm to Ø1000 µm. The VHH Series inserts e designed for recoaters with a rotary proof tester (Item #s PTR207 and	VHH400	Bottom	400 µm	350 µm	450 µm	
IR207B) and offer a compatibility range from Ø90 µm to Ø990 µm.	VHH500	Bottom	500 µm	450 µm	550 µm	
	VHH600	Bottom	600 µm	540 µm	660 µm	
ustom sizes are available; please contact Tech Support for additional formation.	VHH900S ^a	Bottom	900 µm	810 µm	990 µm	

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

Item #	Recoat Material	Compatible Recoaters			
AB950200	High-Index	PTR206, PTR206B, PTR207, PTR207B, & PTR208			
PC373	Low-Index PTR206B & PTR207E				

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 u

Thorlabs offers UV-curable acrylate recoat materials to be used in our PTR

used in all recoaters (except the PRL20), whereas the low-index materia	can only be used in recoaters wit	h the manual injection pump option.
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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 Right
- 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 each base unit Item #).

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 highhandling 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.

			, crana and a string
UVRB Replacement Recoat Bulb for Manual Fiber	Recoaters, Qty. 1	\$51.00	Today

Replacement Injector for Manual Recoaters

rotation.

- 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.

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

Compatible Systems



screw

Click to Enlarge

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

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

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

PTR303B Manual Fiber Recoater

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

proof testers listed to installed. Proof test grips may levels. After the proo calibrated; please co	est Grips are designed as replacements for the Vytran rotary of the right. Each system is sold with a set of these grips need to be replaced when the fiber slips at high tension of test grips are replaced the system will need to be intact Tech Support for details. Instructions for replacing the rovided in each system's manual.	Compatible Systems PTR302 Fiber Rotary Proof Tester PTR207 and PTR207B Manual Fiber FFS2000PT Fiber Preparation and Sp FFS2000WS Fiber Preparation, Splicit 	licing Worksta	tion
				A
Part Number	Description	วท	Price	Availability



PTR206 Shown with Accessories