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PTR203 - Mar. 16, 2017

Item # PTR203 was discontinued on Mar. 16, 2017. For informational purposes, this is a copy of the website content at that time and is valid only for the stated product.

- **Recoat Fusion-Spliced Fibers to Restore Flexibility**
- **50 mm or 100 mm Maximum Recoat Length**
- **Manual and Automatic Options**

PTR205
Automatic Fiber Recoater, Shown with Included Handset Controller

RM430
Mold Assembly for Manual Recoater (Sold Separately)

PTR204B
Manual Fiber Recoater with 100 mm Maximum Recoat Length (Handset Controller Not Shown)

VHH000
Top Fiber Block Insert (Sold Separately)

VHH500
Bottom Fiber Block Insert (Sold Separately)

Hide Overview

OVERVIEW

Features

- Recoat Spliced Fibers to Restore the Flexibility of the Fiber
- 50 mm or 100 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

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

Thorlabs' Vytran™ Fiber Recoaters restore the coating to a fusion-spliced fiber. 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 PTR205, PTR203, and PTR204) or a manual injection system (Item #s PTR203B and PTR204B). 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. 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 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 PTR205 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 PTR203, PTR203B, PTR204, and PTR204B), mold assemblies are available in three standard coating sizes: Ø280 µm, Ø430 µm, and Ø600 µm in both the standard 50 mm recoat length (for Item #s PTR203 and PTR203B) and the extra-large 100 mm recoat length (for Item #s PTR204 and PTR204B). 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. The inserts cover a range of fiber coatings from Ø125 µm to Ø900 µm; a total of four are necessary for each recoater, two top inserts and two bottom inserts.

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 PTR203B and PTR204B) 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 PTR203 and PTR204) can be customized to work with both the low- and high-index recoat material; please contact Tech Support for more information.

Hide Specs

SPECS

Item #	PTR205	PTR203	PTR203B	PTR204	PTR204B
Recoater Type	Automatic	Manual			
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")			100 mm (4")	
Recoat Material	High-Index UV Curable 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 Halogen Lamps (Replacement Item # UVRB, Available Below)			
Recoat Injection	Automatic		Manual[d]	Automatic	Manual
Recoat Volume	Programmable (µL)		Manual	Programmable (µL)	Manual
Recoat Injection Rate	Programmable (≤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 Every Recoat			
Total Cycle Time	45 s (Typical)	60 s (Typical)			
Dimensions (L × W × H)	10.25" × 5.0" × 5.0" (260 mm × 127 mm × 127 mm)				
AC Power	110 - 120 V / 200 - 240 V, 47-63 Hz				

- 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 these recoaters should be cleaned before the first recoating process of the day and then again after the last recoating process of the day.

Hide Product Demos

PRODUCT DEMOS

vytran a division of THORLABS

Product Demonstrations

Thorlabs has demonstration facilitates for the Vytran™ fiber glass processing systems offered on this page within our Morganville, New Jersey; Exeter, Devonshire; and Shanghai, China 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!

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Hide Selection Guide

SELECTION GUIDE

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**	**PTR203**	**PTR203B**	**PTR204**	**PTR204B**
Mold Assembly	RM280	N/A	Choose One	Choose One	Not Compatible	Not Compatible
	RM430					
	RM600					
	RM280L		Not Compatible	Not Compatible	Choose One	Choose One
	RM430L					
	RM600L					
Inserts	VHH Series	Choose 2 Top Inserts and 2 Bottom Inserts				
Recoat Material	High Index (Item # AB950200)	Compatible	Compatible	Compatible	Compatible	Compatible
	Low Index (Item # PC373)	Not Compatible	Not Compatible	Compatible	Not Compatible	Compatible

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

Vytran™ PTR Series Recoater and Proof Tester Selection Guide[a]													
Item #		**PTR205**	**PTR208**	**PTR203**	**PTR203B**	**PTR204**	**PTR204B**	**PTR206**	**PTR206B**	**PTR207**	**PTR207B**	**PTR201**	**PTR202**
Recoat Process	Automatic	✓	✓	-	-	-	-	-	-	-	-	-	-
	Manual	-	-	✓	✓	✓	✓	✓	✓	✓	✓	-	-
Proof Tester	Linear	-	✓	-	-	-	-	✓	✓	-	-	✓	-
	Rotary	-	-	-	-	-	-		-	✓	✓	-	✓
Recoat Injection Pump	Automatic	✓	✓	✓	-	✓	-	✓	-	✓	-	-	-
	Manual	-	-	-	✓	-	✓	-	✓	-	✓	-	-
Maximum Recoat Length	50 mm	✓	✓	✓	✓	-	-	✓	✓	✓	✓	-	-
	100 mm	-	-	-	-	✓	✓	-	-	-	-	-	-
Recoat Material	High Index (Item # AB950200)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	-	-
	Low Index (Item # PC373)	-	-	-	✓	-	✓	-	✓	-	✓	-	-
Mold Cleaning Requirement		Daily[b]		After Every Recoat Process								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 polyimide-coated 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.

Hide Automatic Fiber Recoaters

Automatic Fiber Recoaters

- Automatic Fiber Recoaters
- Available Standard for Ø430 µm Coatings
- Recoats Fibers up to 50 mm in Length
- Compatible with High-Index Recoat Material
- Ideal for Medium- to High-Volume Manufacturing

Thorlabs' Automatic Fiber Recoater completely automates the fiber recoat process; 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 PTR205 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 PTR205 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. It 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).

Components

Included

- Automatic Fiber Recoater
- Pneumatic 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

A handset controller, which comes standard with the PTR205, allows the user to control and program fully the unit. All recoat 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
PTR205	**Automatic Fiber Recoater**	**$25,575.00**	**Today**

Hide Manual Fiber Recoaters

Manual Fiber Recoaters

- Compatible with Mold Assemblies with Coating Diameters of 280 µm, 430 µm, or 600 µm

Components

Included

- Recoats Fibers up to 50 mm or 100 mm in Length
- Compatible with High- and Low-Index Recoat Material
- 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 appropriately sized fiber holding block inserts (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 and maximum recoating lengths of 50 mm (for Item #s PTR203 and PTR203B) or 100 mm (for Item #s PTR204 and PTR204B). Customized recoat diameters up to 900 µm are also available; please contact Tech Support for more information.

These manual recoaters have two options for the recoat material injection system: manual pump or automatic pump. For the manual injection system (Item #s PTR203B and PTR204B), 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). An automatic injection system (Item #s PTR203 and PTR204), which is only compatible with high-index recoat material (sold below), 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.

- Manual Fiber Recoater
- Location-Specific Power Cord
- Handset Controller

Must be Purchased Separately

- 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)

Optional

- Replacement UV Bulb
- Replacement Manual Injector (PTR203B Only)

Click to Enlarge
The PTR204B Manual Fiber Recoater has a maximum recoat length of 100 mm.

A handset controller, which comes standard with each recoater, allows the user to program and control the unit. All recoat parameters can be set through this controller.

Older models of the PTR203B and PTR204B (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 (replacement 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
PTR203	**Manual Fiber Recoater with Automated Pump, 50 mm Max Fiber Recoat Length**	**$5,950.00**	**Today**
PTR203B	**Manual Fiber Recoater with Manual Pump, 50 mm Max Fiber Recoat Length**	**$4,714.00**	**Today**
PTR204	**Manual Fiber Recoater with Automated Pump, 100 mm Max Fiber Recoat Length**	**$10,225.00**	**Today**
PTR204B	**Manual Fiber Recoater with Manual Pump, 100 mm Max Fiber Recoat Length**	**$9,000.00**	**Today**

Hide Mold Assemblies - One Required for Manual Fiber Recoaters

Mold Assemblies - One Required for Manual Fiber Recoaters

- Mold Assemblies Compatible with Thorlabs' Manual Fiber Recoaters
- Three Available Mold Coating Sizes: Ø280 µm, Ø430 µm, and Ø600 µm
- 50 mm or 100 mm Maximum Recoat Length
- Comes Installed from Factory when Purchased with Manual Recoater

Item #	Coating Size	Maximum Recoat Length	Compatible Recoaters
RM280	Ø280 µm	50 mm	PTR203, PTR203B
RM430	Ø430 µm		
RM600	Ø600 µm		
RM280L	Ø280 µm	100 mm	PTR204, PTR204B
RM430L	Ø430 µm		
RM600L	Ø600 µm		

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 and in maximum fiber recoat lengths of 50 mm (compatible with Item #s PTR203 and PTR203B) and 100 mm (compatible with Item #s PTR204 and PTR204B). 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 PTR203, PTR203B, PTR204, and PTR204B); the automatic recoater (Item # PTR205) is sold with its own assembly already installed.

Part Number	Description	Price	Availability
RM280	**Recoater Mold Assembly for PTR & FFS Series, Ø280 µm Coating, 50 mm Max Recoat Length**	**$4,039.00**	**Today**
RM430	**Recoater Mold Assembly for PTR & FFS Series, Ø430 µm Coating, 50 mm Max Recoat Length**	**$4,039.00**	**Today**
RM600	**Recoater Mold Assembly for PTR & FFS Series, Ø600 µm Coating, 50 mm Max Recoat Length**	**$4,039.00**	**Today**
RM280L	**Recoater Mold Assembly for PTR204 & PTR204B, Ø280 µm Coating, 100 mm Max Recoat Length**	**$6,100.00**	**Today**
RM430L	**Recoater Mold Assembly for PTR204 & PTR204B, Ø430 µm Coating, 100 mm Max Recoat Length**	**$6,100.00**	**Today**
RM600L	**Recoater Mold Assembly for PTR204 & PTR204B, Ø600 µm Coating, 100 mm Max Recoat Length**	**$6,100.00**	**Today**

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

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

- Fiber Block Inserts for Thorlabs' Fiber Recoaters

Compatible Fiber Buffer/Coating Diameters & Recoaters					

- Compatible with Fiber Coating Diameters from 90 µm to 990 µm
- Choose Two Top Inserts and Two Bottom Inserts

For all the recoaters sold above, the proper set of inserts needs 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. These inserts are compatible with fiber coatings ranging from Ø90 µm to Ø990 µm.

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

Item #	Top or Bottom	Nominal Diameter	Minimum Diameter	Maximum Diameter	Compatible Recoaters
VHH000	Top	-	90 µm	660 µm	PTR205, PTR203, PTR203B, PTR204, & PTR204B
VHH900[a]	Top	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	
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
VHH000	**Top Insert for FHB1 and PTR Series, Flat**	**$159.00**	**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**
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**

Hide Recoat Materials - Choose Appropriate Material

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 low-index (Item # PC373) material in 1 oz bottles. The high-index material can be used in all recoaters (except the PRL201), whereas the low-index material can only be used in recoaters with the manual injection pump option.

Item #	Recoat Material	Compatible Recoaters
AB950200	High Index	PTR203, PTR203B, PTR204, PTR204B, & PTR205
PC373	Low Index	PTR203B & PTR204B

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**

Hide Replacement UV Bulb for Manual Recoaters

Replacement UV Bulb for Manual Recoaters

- Replacement UV Bulbs for Manual Recoaters* Listed to the Right
- 10 W Tungsten-Halogen Lamp
- Four Bulbs Used in Each Manual Recoater; Replacements Sold Individually

The UVRB is a replacement bulb for the Vytran™ fiber recoaters listed to the right. Each of these systems is shipped with the four bulbs required for operation.

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 each base unit Item #).

Compatible Systems

- PTR203, PTR203B*, PTR204, and PTR204B* 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

Please note that any fingerprints on the surface of the bulb will shorten the bulb's life; avoid handling the glass envelope of the bulb. If the envelope is touched, clean with a soft lens tissue wetted with acetone or alcohol.

*Older models of the PTR203B, PTR204B, PTR206B, and PTR207B (sold before 2015) used two different types of UV bulbs (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 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**

Hide Replacement Injector for Manual Recoaters

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

Compatible Systems

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

rotation.

Click to Enlarge
The PTRRRM is mounted to a recoater via two 4-40 mounting screws.

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 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**