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THORLABS

FPS300 - August 9, 2021

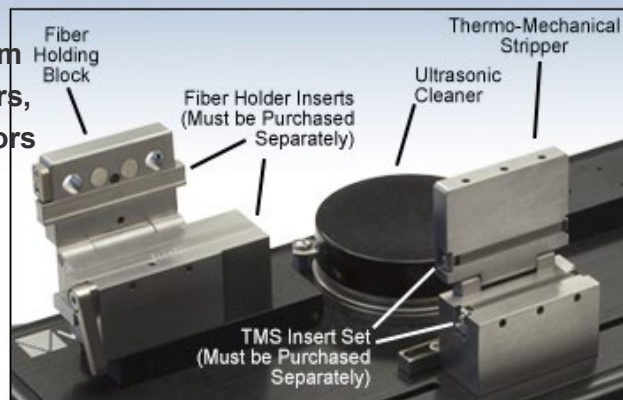
Item # FPS300 was discontinued on August 9, 2021. For informational purposes, this is a copy of the website content at that time and is valid only for the stated product.

VYTRAN® FIBER PREPARATION STATION: STRIPPING AND CLEANING

- ▶ Strip and Clean Fiber Prior to Cleaving and Splicing
- ▶ Accepts Fibers with Cladding Diameters from 80 to 400 μm
- ▶ Designed for Use with the LDC401 Series of Fiber Cleavers, LFS4100 Splicer, and GPX Series of Glass Fiber Processors



FPS300
Fiber Stripping and Cleaning Station



A Fiber Holding Block with a Fiber Holder Insert installed is positioned next to the ultrasonic cleaner. The TMS blade inserts can be seen inside of the open thermo-mechanical stripper module.

vytran®



[Hide Overview](#)

OVERVIEW

Features

- Compatible with Fibers with Cladding Diameters from 80 μm to 400 μm
- Thermo-Mechanical Stripper with Adjustable Heating Time
- End Strip up to 1.4" (35.6 mm) of Single or Dual Acrylate Coated Fiber
- Ultrasonic Cleaning Bath for Removing Particulates from Stripped Fiber
- Cleaning Bath Accepts User-Supplied Acetone or Isopropyl Alcohol
- Fiber Holding Blocks and Fiber Holder Inserts Shared with Other Vytran® Systems for Ease of Transfer Between Processes:
 - LDC401 Series of Cleavers
 - LFS4100 Fiber Splicer
 - GPX3400 and GPX3600 Automated Glass Processors
 - GPX3800 Series of Automated Glass Processors with Integrated Cleaver
 - GPX4000LZ CO₂ Laser Glass Processor
- Includes Handset Controller

Build Your System

- FPS300 Fiber Preparation Station for Fibers with Claddings from $\varnothing 80 \mu\text{m}$ to $\varnothing 400 \mu\text{m}$
- Choose from Seven Interchangeable Thermo-Mechanical Stripper Blade Insert Sets for up to $\varnothing 400 \mu\text{m}$ Claddings (One Required)
- Choose Top and Bottom Inserts (One Top Insert and One Bottom Insert Required; See *Fiber Holder Insert* Tab for More Information)

The Vytran FPS300 Fiber Preparation Station is designed to strip and clean fibers before transferring them to the LDC401 Series of Cleavers, LFS4100 Splicer, GPX4000LZ CO₂ Laser Glass Processor, GPX3400 and GPX3600 Automated Glass Processors, or GPX3800 Series of Automated Glass Processors with Integrated Cleaver for further processing. The thermo-mechanical stripper (TMS) uses a resistive heater located in its lower section to heat the fiber, softening the coating or buffer for stripping, and has an LED light to indicate when the heating process is complete. An internal vacuum applies pressure through holes in the bottom V-groove of the TMS, helping to gently seat the fiber in the groove.

To clean the fiber, the entire holding block can be moved from the stripping to the cleaning station by moving the fiber holding block, eliminating direct handling of the fiber at each step. After installing the holding block next to the ultrasonic cleaner, simply tilt it to dip the stripped end of the fiber into the solvent-filled ultrasonic cleaner, which can be filled with user-supplied acetone or isopropyl alcohol. An LED indicator light turns off when the cleaning process is complete. The cleaning process time can be set from 1 to 120 seconds using the included handset controller.

Accessories

The FPS300 requires one pair of Fiber Holder Inserts to be purchased separately. Our selection of top and bottom inserts are available below, listed with the maximum fiber sizes accepted by each insert. Two styles of bottom inserts are offered. The VHD series of standard inserts are shorter in length and sufficient if using the FPS300 as a standalone. The VHF Extended Bottom Inserts are longer, so that the end protrudes out of the side of the fiber holding block. This provides enough room for the VHT1 transfer clamp to be placed on the end of the insert, allowing the bottom insert, clamp, and fiber to be moved between other Vytran workstations without directly handling the fiber. The *Fiber Holder Inserts* tab has a selection guide to aid in choosing which pairs of fiber holder inserts are required based on the diameter of the fiber undergoing processing. Two fiber holding blocks are included with the FPS300, but fibers can only be processed on one side of each station at a time; therefore the system can be operated with a single holding block and fiber holder insert pair if desired. If planning to use both holding blocks, purchase two top inserts.

The blade sets used in the stripping station must be purchased separately. Standard wedge blades are available in four sizes that accommodate fibers with claddings from $\text{\O}80\ \mu\text{m}$ to $\text{\O}125\ \mu\text{m}$ and buffers up to $\text{\O}400\ \mu\text{m}$, while half-moon blades are available in three sizes that accommodate fibers with claddings from $\text{\O}200\ \mu\text{m}$ to $\text{\O}400\ \mu\text{m}$ and buffers up to $\text{\O}600\ \mu\text{m}$. Each wedge blade set consists of a top and bottom insert, and each insert has a flat blade at both ends. Each half-moon blade set has two top inserts and one bottom insert, and features semi-circular blades. Stripping is unidirectional and cannot be done from the left and right sides of the TMS station at the same time. Using the half-moon blades, the buffer can be stripped all the way around its perimeter in addition to the top and bottom. When a blade set is purchased with the FPS300, it will be installed in the system prior to shipping.

Compatible Vytran Fiber Processing Systems							
Fiber Preparation Station (Strip and Clean)	Large-Diameter Fiber Cleavers	Portable Large-Diameter Fiber Cleaver	Large-Diameter Fiber Splicer	CO ₂ Laser Glass Processing System (Splice and Taper)	Automated Glass Processing Systems with Integrated Cleaver (Cleave, Splice, and Taper)	Automated Glass Processing Systems (Splice and Taper)	Recoaters, Proof Testers, and Recoaters with Proof Testers

[Hide Specs](#)

S P E C S



FPS300 Specifications	
Accepted Fiber Buffer Diameters	Up to 600 μm
Accepted Fiber Cladding Diameters	80 μm to 400 μm^2
Accepted Fiber Types	SM, PM, MM, Specialty Fibers Including Photonic Crystal Fiber (PCF) and Non-Circular Fiber, and Capillary Tubes
Thermo-Mechanical Stripper	
Accepted Coating Materials	Single or Dual Acrylate
Maximum Stripping Temperature	~130 °F (54 °C)
Ultrasonic Cleaner	
Accepted Cleaning Solvents	Acetone or Isopropyl Alcohol
Cleaning Times	1 to 120 s
General	
Operating Temperature	0 to 40 °C (Non-Condensing)
Storage Temperature	-20 to 70 °C
Power	90 to 250 VAC (47 - 63 Hz)
Size (L x W x H)	10.14" x 5.39" x 6.76" (257.4 mm x 136.9 mm x 171.6 mm)
Weight	9 lbs (4 kg)

- a. Set by the TMS blade sets, which must be purchased separately. Please contact Tech Support if you require the TMS blade alignment to be set for a different cladding size. We will reset the blade height prior to shipping.

[Hide Fiber Holder Inserts](#)

FIBER HOLDER INSERTS

Fiber Holder Insert Selection Guide

Fiber Holder Inserts, which are designed to hold various sized fibers within the FPS300 Fiber Preparation Station, must be purchased separately. The bottom inserts have V-grooves to hold the fiber, while the top inserts each feature a recessed, flat surface that clamps the fiber against the V-groove in the bottom insert. Each top and bottom insert is sold individually, as the fiber diameter clamped by the left and right holding blocks may not be the same. One top insert and one bottom insert is required to operate the FPS300.

The table below indicates the maximum and minimum diameters that can be accommodated by different bottom inserts. During the stripping and cleaning processes, the fiber should always be clamped on the coating or buffer in order to avoid damaging the glass.

Two styles of bottom inserts are offered. The VHD series of standard inserts are shorter in length and sufficient if using the FPS300 as a standalone. The VHF Transfer Inserts are longer, so that the end protrudes out of the side of the fiber holding block. This provides enough room for the VHT1 transfer clamp to be placed on the end of the insert, allowing the bottom insert, clamp, and fiber to be moved between other Vytran® workstations without directly handling the fiber.

All of the V-Groove Inserts compatible with the FPS300 have vacuum holes, designed to aid in aligning small fiber within the groove. The FPS300 has an internal vacuum pump that provides a small holding force via these holes, keeping small fibers in place as the clamps are lowered.

Fiber Holder Insert Selection Chart

1. **First, select the bottom insert that matches your fiber size most closely.**

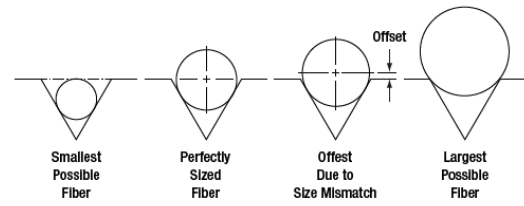
Example: For a $\varnothing 200 \mu\text{m}$ fiber, the VHD160 or VHF160 insert is the closest match, since it is only $40 \mu\text{m}$ smaller. The next larger size is $250 \mu\text{m}$, which is $50 \mu\text{m}$ too large.

2. **The lower set of numbers in each cell shows the range of offsets that can be expected for any given combination of top and bottom inserts.**

Example: If we choose a VHD160 bottom insert and a VHA00 top insert, we can use fiber as small as $112 \mu\text{m}$, in which case the center of the fiber would sit $49 \mu\text{m}$ below the surface of the bottom insert. Alternatively, we can clamp a fiber as large as $208 \mu\text{m}$, in which case the center of the fiber would sit $48 \mu\text{m}$ above the surface of the bottom insert. We could interpolate to find the offset experienced by our hypothetical $200 \mu\text{m}$ fiber, but it turns out that in a 60° V-groove, the offset is equal to the diameter difference. So in our example, that means that the center of our fiber is going to sit $40 \mu\text{m}$ above the bottom insert surface, since it is $40 \mu\text{m}$ larger than the fiber that the bottom insert was designed for ($200 - 160 = 40$).

Top Insert Item #		VHA00 ^a	
Accepted Diameter (Nominal)		$\leq 320 \mu\text{m}$	$400 \mu\text{m}$
Bottom Insert Item #	Accepted Diameter (Nominal)	Min / Max Accepted Fiber Diameter (μm) Min / Max Fiber Offset (μm)	
VHD080	$80 \mu\text{m}$	57 / 100 -23 / 21	-
VHD125	$125 \mu\text{m}$	88 / 161 -37 / 36	-
VHD160 or VHF160 ^b	$160 \mu\text{m}$	112 / 208 -49 / 48	-
VHD250 or VHF250 ^b	$250 \mu\text{m}$	177 / 320 -73 / 69	275 / 323 25 / 74
VHD400 or VHF400 ^b	$400 \mu\text{m}$	279 / 519 -122 / 119	377 / 517 -23 / 117

- a. The VHA00 is double sided. One side has a flat surface for extra clamping force when securing the smallest fiber coating diameters, and the other has a recessed flat surface so that fibers with coatings up to $\varnothing 400 \mu\text{m}$ can be properly clamped.
- b. These are transfer inserts. When used with the VHT1 transfer clamp, they allow the fiber to be transferred from the FPS300 to cleaving, cleaning, splicing, and tapering machines without losing registration of the fiber tip location relative to the edges of the fiber holding block.



Each V-groove can accommodate a range of fiber sizes.

Legend	
	Best Fit
	Second Best Fit: Try these options if the best fit does not incorporate your fiber sizes.
	Third Best Fit: Try these options if the other two categories do not incorporate your fiber sizes.

[Hide Product Demos](#)

PRODUCT DEMOS

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Product Demonstrations

Thorlabs has demonstration facilities for the Vytran® fiber glass processing systems offered on this page within our Morganville, New Jersey office. 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 by contacting technical support. We welcome the opportunity for personal interaction during your visit!

[Hide Fiber Preparation Station with Stripper and Cleaner](#)

Fiber Preparation Station with Stripper and Cleaner

- Accepts Fiber with Cladding Diameters from 80 to 400 μm
- Strip Single or Dual Acrylate Coatings up to $\text{\O}600 \mu\text{m}$
- Stripping and Cleaning Station

Components

Included

- Thermo-Mechanical Stripping
- Ultrasonic Cleaning Bath
- Includes Fiber Holding Blocks
- Includes Handset Controller
- Fiber Holder Inserts and TMS Blade Inserts Available Separately Below (Required for Operation)

- FPS300
- Handset Controller
- 12 V Power Supply
- Location-Specific AC Power Cord
- DC Power Cord
- Tool Kit with 0.035", 0.050", and 3/32" Hex Keys

This Vytran Fiber Stripping and Cleaning Station is designed to strip the coating and/or buffer off of fibers with cladding sizes from Ø80 µm to Ø400 µm. The thermo-mechanical stripper can remove single or dual acrylate coatings, and an ultrasonic cleaning bath is included to remove any particulates from the stripped fiber before transferring it to a cleaving or splicing station. The FPS300 is designed to be used with the LDC401 Series of Cleavers, LFS4100 Splicer, GPX3400 and GPX3600 Automated Glass Processors, GPX3800 Series of Automated Glass Processors with Integrated Cleaver, and GPX4000LZ CO₂ Laser Glass Processor; all of these units use the same fiber holding

blocks and transfer inserts, allowing the fiber to be moved from station to station with minimal direct handling of the fiber and while maintaining co-registration on each machine.

Fiber Holder Inserts and TMS Blade Inserts for a variety of fiber sizes are sold separately below. One top fiber holder insert, one bottom fiber holder insert, and one TMS blade insert set are required to operate the FPS300, dependent on the size(s) of fiber to be processed. More information can be found on the *Fiber Holder Insert* tab above.

A handset controller is included for setting the thermo-mechanical stripper heating time and ultrasonic cleaner run time. Each unit is shipped with a power supply and location-specific power cord.

Must be Purchased Separately

- TMS Blade Sets (One Required)
- Fiber Holder Top Inserts (One Required)
- Fiber Holder Bottom Inserts (One Required)

Part Number	Description	Price	Availability
FPS300	Fiber Preparation Station with Stripper and Cleaner for Ø80 µm to Ø400 µm Cladding	\$9,392.79	Lead Time

[Hide Thermo-Mechanical Stripper Blade Insert Sets - One Required](#)

Thermo-Mechanical Stripper Blade Insert Sets - One Required

- Thermo-Mechanical Stripper (TMS) Blade Insert Sets for FPS300 Fiber Stripping and Cleaning Station
- Blade Sets Include:
 - Standard Wedge: One Top and One Bottom Insert
 - Half-Moon: Two Top Inserts and One Bottom Insert
- For Fibers with Claddings from Ø80 µm to Ø400 µm and Buffers Up to Ø600 µm
- Pre-Installed if Ordered with the FPS300 Station
- Interchangeable by the User

Item #	Accepted Cladding Diameter		Max Buffer Diameter	Blade Type
	End 1	End 2		
	CST080180	80 µm	80 µm	180 µm
CSTM080125	80 µm	125 µm	250 µm	Wedge
CST125250	125 µm	125 µm	250 µm	Wedge
CST125400	125 µm	125 µm	400 µm	Wedge
CST200400U	200 µm	200 µm	400 µm	Half-Moon
CST250400U	250 µm	250 µm	400 µm	Half-Moon
CST400600U	400 µm	400 µm	600 µm	Half-Moon

- a. For different cladding diameters than those listed here, please contact Tech Support. TMS blade insert sets are available for cladding diameters up to Ø400 µm as a special.

Thorlabs offers seven sets of blades for stripping fiber. The maximum buffer diameter is limited by the size of the channel in the insert. When ordered with the FPS300, Thorlabs will install the TMS blade set in the thermo-mechanical stripper prior to shipping. Each wedge blade set consists of a top and bottom insert, and each insert has a flat blade at both ends. Each half-moon blade set has two top inserts and one bottom insert, and features semi-circular blades.

Except for the CSTM080125*, the blade sets are designed to strip the same size cladding on both the left and right ends, and can be interchanged by the user if necessary. For easy identification, the maximum buffer diameter is engraved on the blade inserts. We offer seven inserts from stock to accommodate standard and larger fiber sizes. TMS blade insert sets are available for cladding diameters up to Ø400 µm as a special by contacting Tech Support.

* The CSTM080125 blade set is designed to strip Ø80 µm cladding fiber on one end and Ø125 µm cladding fiber on the other. When ordered with the FPS300, it will be installed by default with the blades for Ø80 µm claddings (End 1) on the left and the blades for Ø125 µm claddings (End 2) on the right. If installing a CSTM080125, be sure to keep the Ø80 µm end of the bottom and top inserts aligned on the same side of the TMS stripper. If the Ø80 µm cladding blade is aligned with the Ø125 µm cladding blade when installed in the stripper, the system will not properly strip and the fiber may be damaged.

Part Number	Description	Price	Availability
CST080180	TMS Blade Insert Set for Ø80 µm Cladding, up to Ø180 µm Buffer	\$1,549.59	Today
CSTM080125	TMS Blade Insert Set for Ø80 µm and Ø125 µm Claddings, up to Ø250 µm Buffer	\$1,549.59	Today
CST125250	TMS Blade Insert Set for Ø125 µm Cladding, up to Ø250 µm Buffer	\$1,549.59	Today
CST125400	TMS Blade Insert Set for Ø125 µm Cladding, up to Ø400 µm Buffer	\$1,549.59	Today
CST200400U	TMS Blade Insert Set for Ø200 µm Cladding, up to Ø400 µm Buffer	\$2,866.04	Today
CST250400U	TMS Blade Insert Set for Ø250 µm Cladding, up to Ø400 µm Buffer	\$2,866.04	Lead Time
CST400600U	TMS Blade Insert Set for Ø400 µm Cladding, up to Ø600 µm Buffer	\$2,866.04	Lead Time

[Hide Fiber Holder Top Insert - One Required](#)

Fiber Holder Top Insert - One Required

- One is Required to Use the FPS300
- Flat, Recessed Surface Clamps the Fiber Against the V-Groove in the Bottom Insert (Sold in the Next Section)
- Designed for Fiber Outer Diameters from 57 µm to 970 µm
- Compatible with Other Vytran Systems
 - LDC401 Series of Cleavers
 - LFS4100 Fiber Splicer
 - GPX3400 and GPX3600 Automated Glass Processors
 - GPX3800 Series of Automated Glass Processors with Integrated Cleaver
 - GPX4000LZ CO₂ Laser Glass Processor

Top Fiber Holder Insert		
Item #	Side 1 Min/Max Accepted Diameter	Side 2 Min/Max Accepted Diameter
VHA00	57 µm / 759 µm ^a	275 µm / 970 µm

a. This side of the VHA00 is flat to provide additional clamping force for fibers with very small diameters.

The FPS300 fiber preparation station requires a pair of Top and Bottom Fiber Holder Inserts to be placed in each fiber holding block in order to clamp the fiber during processing. This top insert consists of a bar that has a recessed area on one side, designed to clamp the fiber against the V-groove in a bottom insert. The other side of the insert is flat and can be used to provide additional clamping force for fibers with very small diameters. The insert sits in the top section of the fiber holding block and can be paired with one of the bottom inserts (available below) to accommodate fibers with coating diameters in the 80 to 400 µm range supported by the FPS300.

Top inserts are sold individually and one top insert is required to use the FPS300. Two fiber holding blocks are included with the FPS300, but fibers can only be processed on one side of each station at a time; therefore the system can be operated with a single holding block and fiber holder insert pair if desired. If planning to use both holding blocks, purchase two top inserts.

Part Number	Description	Price	Availability
VHA00	Dual-Sided Fiber Holder Top Insert, Ø57 µm - Ø970 µm	\$172.06	Today

[Hide Fiber Holder Transfer Bottom Inserts - One Required if Using with Other Compatible Stations](#)

Fiber Holder Transfer Bottom Inserts - One Required if Using with Other Compatible Stations

- One is Required if Using the FPS300 with Other Compatible Vytran Systems
 - LDC401 Series of Cleavers
 - LFS4100 Fiber Splicer
 - GPX3400 and GPX3600 Automated Glass Processors
 - GPX3800 Series of Automated Glass Processors with Integrated Cleaver
 - GPX4000LZ CO₂ Laser Glass Processor
- Transfer Inserts Can be Used with Transfer Clamps to Move Fiber Between Compatible Systems While Maintaining Registration
- Vacuum Suction to Aid in Positioning Fibers when Used in the FPS300
- Can Accept Graphite Tips that Provide Extra Support to the Fiber Tip in Splicing and Tapering Applications

Fiber Holder Transfer Bottom Inserts ^a		
Item #	Min/Max Accepted Diameter	Vacuum Holes
VHF160	112 µm / 208 µm	Yes
VHF250	177 µm / 320 µm	Yes
VHF400	279 µm / 519 µm	Yes
VHF500	346 µm / 795 µm	Yes
VHF750	516 µm / 1047 µm	Yes

a. Please see the *Fiber Holder Insert* tab for information on how to select appropriate bottom inserts.

- Interchangeable by the User

The FPS300 fiber preparation station requires Fiber Holder Inserts to be placed in the fiber holding blocks in order to clamp the fiber during the cleaning process. These extended inserts sit in the bottom section of the fiber holding blocks and come with a variety of groove sizes. They are compatible with the VHT1 transfer insert, which clamps over the fiber on the length of the insert that protrudes from the fiber holding block, allowing the fiber to be transferred between stations while maintaining coarse alignment. The extended inserts also accept graphite tips (available below) that provide additional support for fibers with coating diameters up to 400 μm when the FPS300 is used in conjunction with the LFS4100 Splicer, GPX4000LZ CO₂ Laser Glass Processor, GPX3400 and GPX3600 Automated Glass Processors, or GPX3800 Series of Automated Glass Processors with Integrated Cleaver. See the *Fiber Holder Insert* tab above for a comparison of the available insert types and sizes.

Inserts are sold individually and one transfer bottom insert and VHT1 transfer clamp (available below) are needed if using the FPS300 to support a compatible Vytran station. Be sure to order a sufficient quantity of inserts to support your fiber processing needs (e.g., two transfer inserts and two transfer clamps are required for splicing applications). More information can be found in the web presentations for compatible stations (see links above). Please note that when using the FPS300 to support the LDC401A fiber cleaver, the extended inserts are only compatible with the cleaver's left fiber holding block.

Two fiber holding blocks are included with the FPS300, but fibers can only be processed on one side of each station at a time; therefore the system can be operated with a single holding block and fiber holder insert pair if desired. If planning to use both holding blocks, purchase two bottom inserts.

Part Number	Description	Price	Availability
VHF160	Fiber Holder Transfer Bottom Insert, $\varnothing 112 \mu\text{m}$ - $\varnothing 208 \mu\text{m}$	\$320.31	Today
VHF250	Fiber Holder Transfer Bottom Insert, $\varnothing 177 \mu\text{m}$ - $\varnothing 320 \mu\text{m}$	\$320.31	Today
VHF400	Fiber Holder Transfer Bottom Insert, $\varnothing 279 \mu\text{m}$ - $\varnothing 519 \mu\text{m}$	\$320.31	Today
VHF500	Fiber Holder Transfer Bottom Insert, $\varnothing 346 \mu\text{m}$ - $\varnothing 795 \mu\text{m}$	\$320.31	Today
VHF750	Fiber Holder Transfer Bottom Insert, $\varnothing 516 \mu\text{m}$ - $\varnothing 1047 \mu\text{m}$	\$320.31	Today

[Hide Fiber Transfer Clamp and Graphite V-Grooves - Required for VHF Transfer Bottom Inserts](#)

Fiber Transfer Clamp and Graphite V-Grooves - Required for VHF Transfer Bottom Inserts

- One Transfer Clamp and One Graphite Tip Required for Fiber Holder Transfer Bottom Inserts
- Transfer Clamps for Use with VHF Inserts to Transfer Fibers Between Compatible Vytran Systems
 - LDC401 Series of Cleavers
 - LFS4100 Splicer
 - GPX3400 and GPX3600 Automated Glass Processors
 - GPX3800 Series of Automated Glass Processors with Integrated Cleaver
 - GPX4000LZ CO₂ Laser Glass Processor
- Graphite V-Grooves for Supporting Smaller Fibers During Splicing or Tapering
- V-Grooves Accept Diameters from 80 μm to 400 μm

Graphite V-Grooves	
Item #	Accepted Diameter (Min / Max)
VHG125L	80 μm / 125 μm
VHG200	150 μm / 200 μm
VHG250	200 μm / 250 μm
VHG300	250 μm / 300 μm
VHG350	300 μm / 350 μm
VHG400	350 μm / 400 μm

These Transfer Clamps and V-Grooves are used with the VHF Transfer Bottom Inserts sold directly above to move a single fiber between various Vytran systems with minimal loss of alignment. For example, a fiber can be placed in a transfer insert and cleaved using the LDC401. Then, the entire transfer insert and fiber can be moved to a glass processor for splicing.

The VHT1 clamp secures transfer inserts with a magnetic lid that prevents axial movement of the fiber and can be used to hold the insert during transport without touching the fiber itself. For fibers with diameters $\leq 400 \mu\text{m}$, a graphite V-groove is available to support the fiber when splicing (please see the size table to the right for more information). The graphite V-grooves are secured by tightening the two setscrews on the transfer insert.

Part Number	Description	Price	Availability
VHG125L	Extended Graphite V-Groove, $\varnothing 80 \mu\text{m}$ - $\varnothing 125 \mu\text{m}$, 0.594" Length	\$154.75	Today
VHG200	Graphite V-Groove, $\varnothing 150 \mu\text{m}$ - $\varnothing 200 \mu\text{m}$, 0.313" Length	\$143.92	Today
VHG250	Graphite V-Groove, $\varnothing 200 \mu\text{m}$ - $\varnothing 250 \mu\text{m}$, 0.313" Length	\$143.92	Today
VHG300	Graphite V-Groove, $\varnothing 250 \mu\text{m}$ - $\varnothing 300 \mu\text{m}$, 0.313" Length	\$143.92	Today
VHG350	Graphite V-Groove, $\varnothing 300 \mu\text{m}$ - $\varnothing 350 \mu\text{m}$, 0.313" Length	\$143.92	Today
VHG400	Graphite V-Groove, $\varnothing 350 \mu\text{m}$ - $\varnothing 400 \mu\text{m}$, 0.313" Length	\$143.92	Today

VHT1	Transfer Clamp with Magnetic Lid for Fiber Holder Transfer Inserts	\$248.89	Today
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[Hide Fiber Holder Bottom Inserts - One Required if Using a Stand-Alone FPS300](#)

Fiber Holder Bottom Inserts - One Required if Using a Stand-Alone FPS300

- One is Required to Use the FPS300
- V-Groove Bottom Fiber Holder Inserts
- Clamp Fiber Outer Diameters from 57 µm to 519 µm when Used with Top Inserts (Sold Above)
- Vacuum Suction to Aid in Positioning Fibers when Used in the FPS300
- Interchangeable by the User

The FPS300 fiber preparation station requires one pair of Top and Bottom Fiber Holder Inserts to be placed in one of the fiber holding blocks in order to clamp the fiber during processing. Each insert is a bar with a V-Groove on one side and includes holes for vacuum suction to aid in positioning the fiber when used with the FPS300.

These inserts sit in the bottom section of the fiber holding blocks and come with a variety of groove sizes, outlined in the table to the right. See the *Fiber Holder Insert* tab above for a comparison of the available insert types and sizes.

Bottom inserts are sold individually, and one is required to use the FPS300. Two fiber holding blocks are included with the FPS300, but fibers can only be processed on one side of each station at a time; therefore the system can be operated with a single holding block and fiber holder insert pair if desired. If planning to use both holding blocks, purchase two bottom inserts.

Fiber Holder Bottom Inserts ^a		
Item #	Min/Max Accepted Diameter	Vacuum Holes
VHD080	57 µm / 100 µm	Yes
VHD125	88 µm / 161 µm	Yes
VHD160	112 µm / 208 µm	Yes
VHD250	177 µm / 320 µm	Yes
VHD400	279 µm / 519 µm	Yes

- a. Please see the *Fiber Holder Insert* tab for information on how to select appropriate bottom inserts.

Part Number	Description	Price	Availability
VHD080	Fiber Holder Bottom Insert, Ø57 µm - Ø100 µm	\$215.34	Today
VHD125	Fiber Holder Bottom Insert, Ø88 µm - Ø161 µm	\$215.34	Today
VHD160	Fiber Holder Bottom Insert, Ø112 µm - Ø208 µm	\$215.34	Today
VHD250	Fiber Holder Bottom Insert, Ø177 µm - Ø320 µm	\$215.34	Today
VHD400	Fiber Holder Bottom Insert, Ø279 µm - Ø519 µm	\$215.34	Today