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CleanBlast™ System—Bench-top

Advanced Fiber Optic Connector End Face Cleaning System



CleanBlast System—Bench-top
with Optional FBP Probe Microscope

Key Features

- **Provides rapid, controlled, and repeatable cleaning and removal of contamination from fiber end faces**
- **Uses a precise non-contact *air-solvent-air* mixture/ sequence to blast and remove contamination particles**
- **Cleans faster, more effectively, and more economically per clean than conventional methods**
- **Offers a comprehensive selection of precision cleaning tips and adapters**
- **Input for FBP probe microscope and 6.4-inch LCD display for fiber inspection capability**

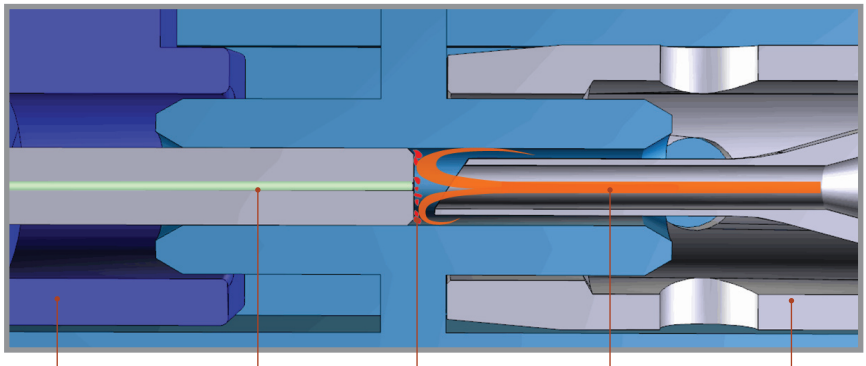
Applications

- Clean various types of both *male* (patch cord) and *female* (bulkhead) connector ends, including SC, FC, LC, ST, E2000, MPO, MTP®, MPX, MT, and SMA
- Quickly and easily remove contamination, dust, lint, oil, and other forms of debris from fiber optic end faces
- Clean multiple configurations and connector types with interchangeable precision cleaning tips and adapters

CleanBlast System

The patented JDSU CleanBlast fiber end face cleaning systems provide a fast, effective, and cost-efficient solution for removing dirt and debris from connectors in most common applications. CleanBlast is a non-contact system that uses a highly filtered stream of pressurized gas with a vacuum circuit to create a high flow rate jet across the surface of the fiber. A 30-µl cleaning solvent is injected into the airflow, and the contamination from the end face along with the solvent are then removed through the retrieval circuit. **The precise, highly efficient non-contact *air-solvent-air* stream blasts and removes contamination with nearly 100-percent effectiveness.**

Non-Contact Cleaning Illustration



Benefits

- Fast, repeatable, more effective, and more cost-efficient per clean than other cleaning methods
- Eliminates user sensitivity and error
- Removes, rather than spreading or smearing, loose debris from fiber end faces with a push of a button
- Input for FBP probe microscope and 6.4-inch LCD enable fiber inspection capability
- Optional USB 1.1 output enables operation with basic FiberChek fiber analysis software

FCLT Cleaning Tips

JDSU offers a complete selection of precision cleaning tips and adapters for every connector and application, including SC, FC, ST, LC, MU, E2000, and MPO/MTP connectors.

Overview

The JDSU Bench-top CleanBlast systems include a base unit and a handset connected to a 5-ft umbilical for reaching various application areas. Precision cleaning tips are available for both male (patch cord) and female (bulkhead) connectors for various connector types, including SC, LC, FC, ST, E2000, MPO, MPX, MT, and SMA. All models include an input port for a separate probe microscope for fiber inspection capabilities, and a video output for connecting to an external monitor or to a mounted liquid crystal display (LCD). Digital systems feature an additional universal serial bus (USB) output for viewing the fiber image on a PC/laptop.

The system's cleaning solvent reservoir holds enough solution for at least 8,000 cleaning cycles. The solvent refill process is simple and spill-resistant. A built-in safety feature prevents the handset from accidentally triggering the system. It also monitors solvent levels and the safety switch, and it features a series of light emitting diodes (LEDs) to indicate system status.

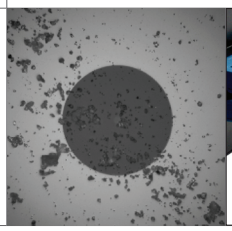
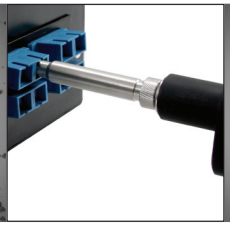
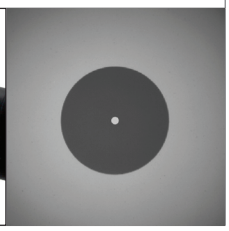
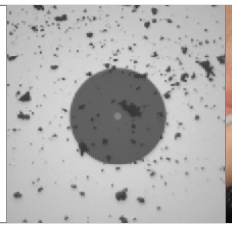
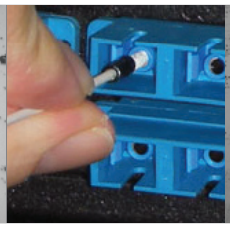
Bulkhead Cleaning



Patch Cord Cleaning



CleanBlast vs. Traditional Swab/Stick

	Before	Clean	After
CleanBlast			
Swab/Stick			

Components and Functions





CleanBlast System—Bench-top with Optional Transceiver Module

CleanBlast—Bench-top Specifications

Dimensions	40 x 33 x 18 cm (16 x 13 x 7 in)
Weight	9.5 kg (21 lbs)
Power requirements	100–240VAC, 2Amp
Air source	External or nitrogen, regulated output 40 psi.
Solvent consumption	At least 8,000 cleaning cycles per refill
Maintenance	100,000 cycles per air filter change, 2 x 0.01 micron air filters required
Video output	NTSC (BNC) or DIN connector to optional LCD
Digital output	Optional USB 1.1 output (includes USB cable and FiberChek software)
Cleaning cycle time	1 second

Ordering Information

FCL-B1000	CleanBlast–bench-top with 5-ft umbilical bulkhead handset; universal 2.5 mm cleaning tip
FCL-B1000-22	CleanBlast–bench-top with 22-ft umbilical bulkhead handset; universal 2.5 mm cleaning tip
FCL-B1000-EU	CleanBlast–bench-top with 5-ft umbilical bulkhead handset; universal 2.5 mm cleaning tip; EU power supply
FCL-B1000-UK	CleanBlast–bench-top with 5-ft umbilical bulkhead handset; universal 2.5 mm cleaning tip; UK power supply
FCL-B1100	CleanBlast–bench-top with 5-ft umbilical bulkhead handset; USB 1.1 output; universal 2.5 mm cleaning tip
FCL-B1100-EU	CleanBlast–bench-top with 5-ft umbilical bulkhead handset; USB 1.1 output; universal 2.5 mm cleaning tip; EU power supply
FCL-B1100-UK	CleanBlast–bench-top with 5-ft umbilical bulkhead handset; USB 1.1 output; universal 2.5 mm cleaning tip; UK power supply
FCL-B2000	CleanBlast–bench-top with 5-ft umbilical 90-degree bulkhead handset; universal 2.5 mm cleaning tip
FCL-B2000-22	CleanBlast–bench-top with 22-ft umbilical 90-degree bulkhead handset; universal 2.5 mm cleaning tip
FCL-B2100	CleanBlast–bench-top with 5-ft umbilical 90-degree bulkhead handset; USB 1.1 output; universal 2.5 mm cleaning tip
FCL-B2100-EU	CleanBlast–bench-top with 5-ft umbilical 90-degree bulkhead handset; USB 1.1 output; universal 2.5 mm cleaning tip; EU power supply
FCL-B3000	CleanBlast–bench-top with 5-ft umbilical bulkhead handset; universal 2.5 mm bulkhead cleaning tip and patch cord adapter
FCL-B4000	CleanBlast–bench-top with 5-ft umbilical bulkhead handset; universal 2.5 mm patch cord adapter
FCL-B4000-EU	CleanBlast–bench-top with 5-ft umbilical bulkhead handset; universal 2.5 mm patch cord adapter; EU power supply
FCL-B4100	CleanBlast–bench-top with 5-ft umbilical bulkhead handset; USB 1.1 output; universal 2.5 mm patch cord adapter
FCL-B4100-EU	CleanBlast–bench-top with 5-ft umbilical bulkhead handset; USB 1.1 output; universal 2.5 mm patch cord adapter; EU power supply
FCL-B5000	CleanBlast–bench-top with 5-ft umbilical bulkhead handset; transceiver module; FBP-P5 probe microscope
FCL-B5100	CleanBlast–bench-top with 5-ft umbilical bulkhead handset; USB 1.1 output; transceiver module; FBP-P505 probe microscope
FCL-B5100-EU	CleanBlast–bench-top with 5-ft umbilical bulkhead handset; USB 1.1 output; transceiver module; FBP-P505 probe microscope; EU power supply
FCL-B6000	CleanBlast–bench-top with backplane cleaning wand
FCL-B6100	CleanBlast–bench-top with backplane cleaning wand; USB 1.1 output

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