DOMAILLE ENGINEERING
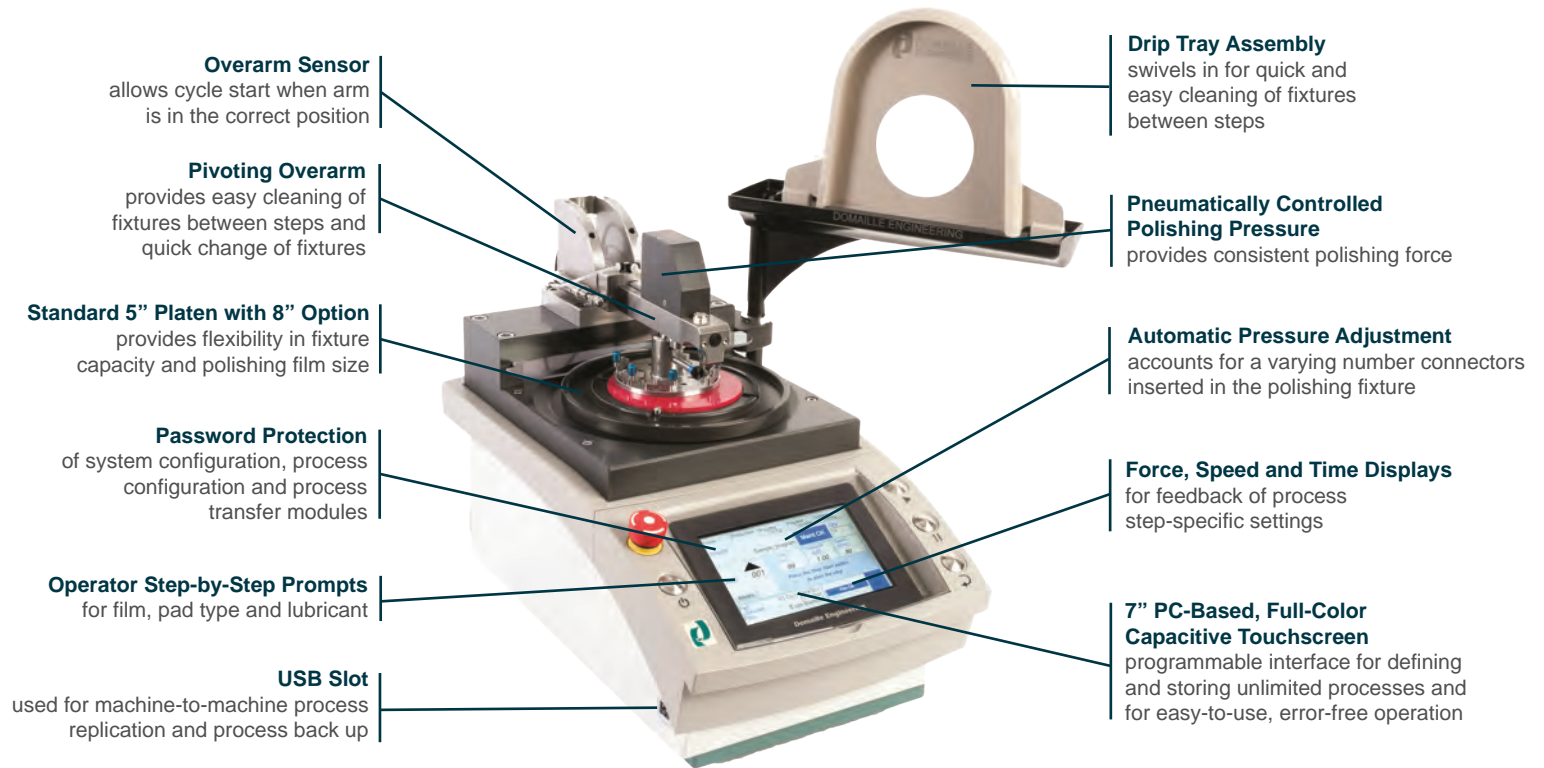
TECHNOLOGY FOR
TOMORROW

Optical Fiber Polishing Machines, Fixtures and Accessories

The APM-HDC-5300
Optical Fiber Polishing Machine

Overarm Sensor
allows cycle start when arm is in the correct position

Pivoting Overarm
provides easy cleaning of fixtures between steps and quick change of fixtures

Standard 5" Platen with 8" Option
provides flexibility in fixture capacity and polishing film size

Password Protection
of system configuration, process configuration and process transfer modules

Operator Step-by-Step Prompts
for film, pad type and lubricant

USB Slot
used for machine-to-machine process replication and process back up

Drip Tray Assembly
swivels in for quick and easy cleaning of fixtures between steps

Pneumatically Controlled Polishing Pressure
provides consistent polishing force

Automatic Pressure Adjustment
accounts for a varying number connectors inserted in the polishing fixture

Force, Speed and Time Displays
for feedback of process step-specific settings

7" PC-Based, Full-Color Capacitive Touchscreen
programmable interface for defining and storing unlimited processes and for easy-to-use, error-free operation

The finest optical fiber polishing machine in the world just got better. The new APM-HDC-5300 machine has all the features of the APM-HDC-5200 polishing machine, plus incorporates many new customer driven design changes. Changes include increased polishing pressure up to 16lbs, overarm sensor, capacitive touch screen, additional language options and many other new features.

Features:

- PC Based system with 7" color touch screen
- Programmable soft start for pressure and speed
- Programmable polishing film counter
- Programmable machine maintenance section
- Calibrated pneumatic force control with load cell feedback loop
- Automated force compensation for partially populated fixture
- Force programmable in .01 lbs. increments up to 16lbs for ultra-precision control
- Programmable speed control from 0-200 rpm
- Features USB drive for process back-up and to copy to other machines
- User prompts for abrasive film, rubber pad durometer, lubrication and other pertinent operation parameters
- Equipped with drip tray and standard splash guard (high volume and dual cam lock optional)
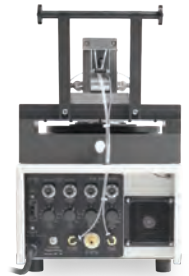- CE certified

Optical Fiber Polishing Machine
APM-HDC-4000

APM-HDC-4000 is an advanced polishing machine that shares the same capacity for precision control as the APM-HDC-5300. Up to four process polishing steps can be preset.

Features:

- Digital Countdown Timers ensure precise timing control of each step
- Platen Pressure Controls allow setting of force for each polishing step
- Digital Force Gauge indicates the actual polishing force
- Platen Speed Adjustment Controls allow setting of polishing speed for each step
- Digital Speed Gauge displays the speed of the platen for each step in the process
- Step Start Buttons allow the operator to initiate up to four steps in the polishing process

Universal Curing Oven
CO-6700(120v) & CO-6800(240v)

The new Universal Cure Oven with high resolution 320X240 color user interface allows more control of your curing processes. Designed to maximize productivity when curing epoxy on single and multi-fiber connectors. It utilizes a modular carrier tray for efficient assembly and loading of up to 24 MT connectors, 48 single fiber connectors per batch or 12 USCONEC Prizm® connectors.

Features:

- Specifically designed for MTP/MPO connector epoxy curing with the tightest thermal pattern in the industry
- New user interface touchscreen
- Utilizes carrier trays for EZ loading and maximum productivity, cures in either horizontal or vertical position
- Audible alarm option
- Multiple modes: temp. hold, timed, twin timer and step ramp heat profiling
- Password protect capabilities
- Multi-Lingual function
- Maximum temperature 150° C
- Celsius/Fahrenheit option
- Expansion capability for custom requirements (as requested)
- Available in 120v or CE Rated 240v configuration
- Multiple tray options for additional connector styles

The OptiSpec® Fiber Optic/Video Microscope Line

Our OptiSpec® Microscope line offers customers high quality fiber optic inspection capability for both production and laboratory settings. Domaille also offers over 50 variations of adaptor connectors as well as engineering services to design custom adapters.

The OptiSpec® Fiber Optic Microscope line is an added solution extending Domaille's high quality product offering in the demanding optical fiber industry.

Features:

- OptiSpec® blue LED illumination
- High Resolution video
- LWD objectives 5x, 10x, and 20x (3.3x and 40x optional)
- Available with optional non-contact interferometer lens
- Multiple microscope set ups available to meet inspection needs
- Standard 1/2" CCD camera, optional cameras 1/3" and 2/3"
- Digital cameras and video grabbers optional

Optical Polishing Accessories

As a technology leader in fiber polishing, Domaille is continually creating innovative new products to help our customers improve their polishing yields. Many of these products are developed and tested with customer input.

Products:

- 5" or 8" Rubber Pads, with durometer tolerance +/- 2 (Shore A)
- Glass plates available in smooth or ground, locking and non-locking
- Cleaning Wand
- EZ Check Kit(s)
- Single Port Polishing Kit
- And Much More!
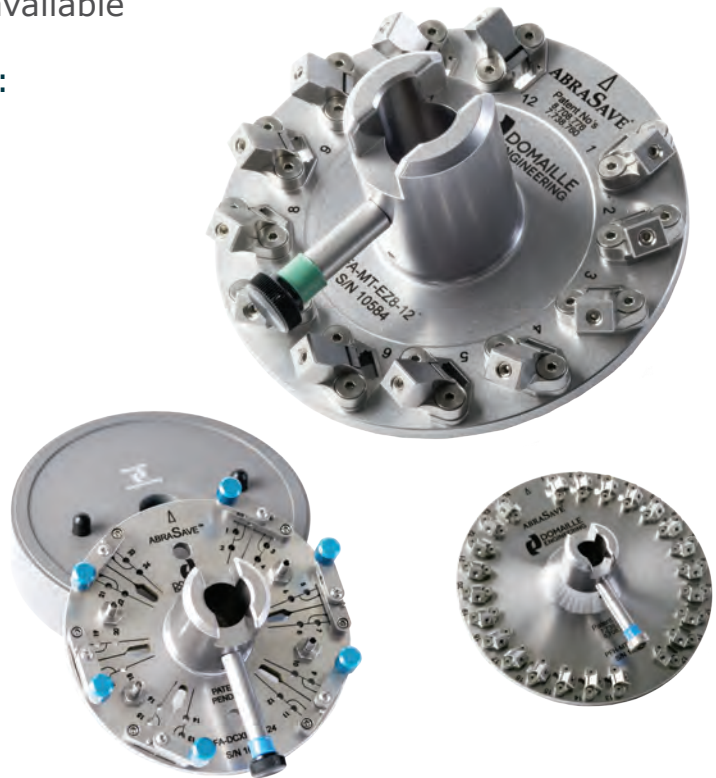
The AbraSave® Polishing Fixture Line

Significantly Increase Throughput
Benefits of this patented innovative technology includes:

- Reduced operating expenses
- Reduced work in progress (WIP)
- Reduced connector fallout
- Reduced scratches
- Increased inventory turns
- Increased net profitably
- Designed to minimize protrusion height variation in MT/MPO connectors
- Patented MT-EZ loading system
- Cable Management devices available

Optical Fiber Connector styles supported:

- FC
- FO (Ferrule Only)
- LC
- LC Angles
- MT
- MT Angles
- MTRJ
- MTRJ Angled
- MU
- SC
- SC Angled
- SC/FC Unassembled
- SC/FC Unassembled Angled
- SMA
- ST

Other Fixtures Available:

- Arrays
- Capillaries
- Wafers
- Custom

Fixtures for almost all connector types are available for purchase.
Custom built fixtures can be manufactured for specific needs.

OptiSaber™ Laser Cleaver series - Patent Pending

The OptiSaber™ Laser Cleaver series are the finest fiber forming machines on the market, routinely increasing production yields on multi-fiber (MTP/MPO) & single-fiber applications.

OS7000M multi-fiber & OS7000S single-fiber laser cleavers provide significant cost savings and reduction in process variation associated with cracking, which is typical of mechanical cleaving methods. Additional time savings include a uniform starting point for less polishing, consistent epoxy removal, elimination of safety concerns (minimized handling of scrap fiber) and reduction in the overall cost of terminations.

- Fast, Reliable & Affordable
- Eliminate cracking or chipping associated with mechanical cleaving
- Uniform epoxy removal and starting point for polishing process reducing polishing film costs
- Eliminates handling of scrap fiber associated with mechanical cleaving
- Compact: 21" x 9" x 4-3/4" (530mm x 228m x 120mm)
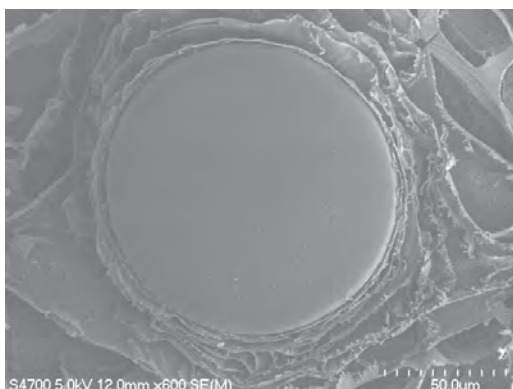- 120/240 volt available

OS7000M
- Single and dual rows (MT12, MT16, MT24, MT32)
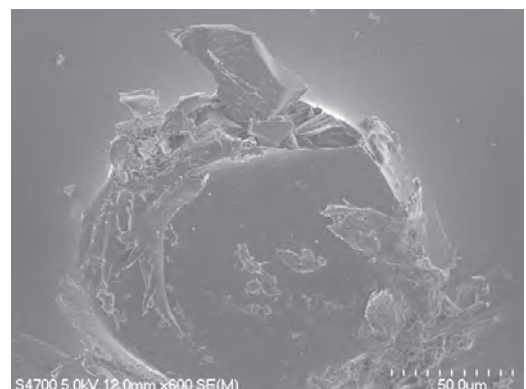- UPC/APC adapter

OS7000S
- Quick change adapter inserts

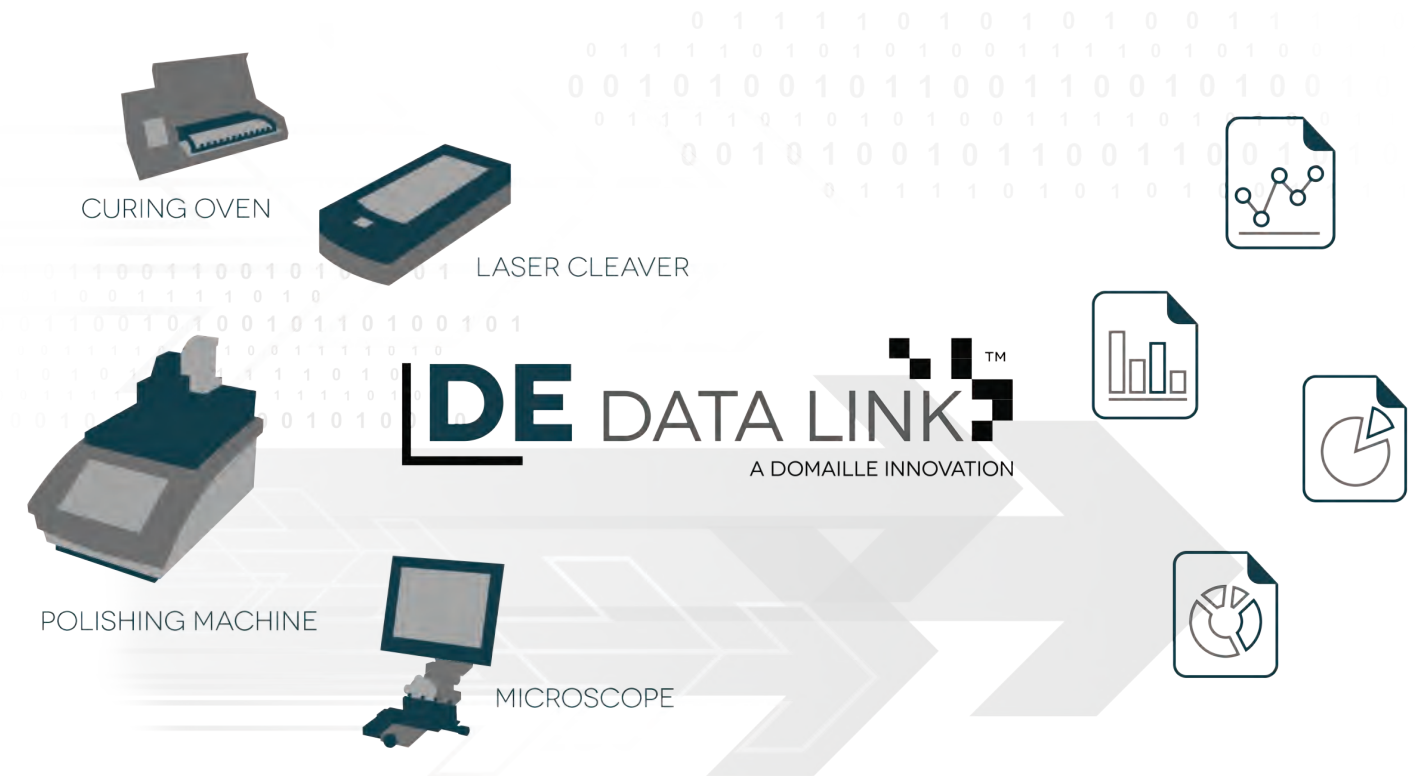## Comparison: Laser Cleaved VS. Manual Cleaved

OS7000M Laser Cleave at 600x
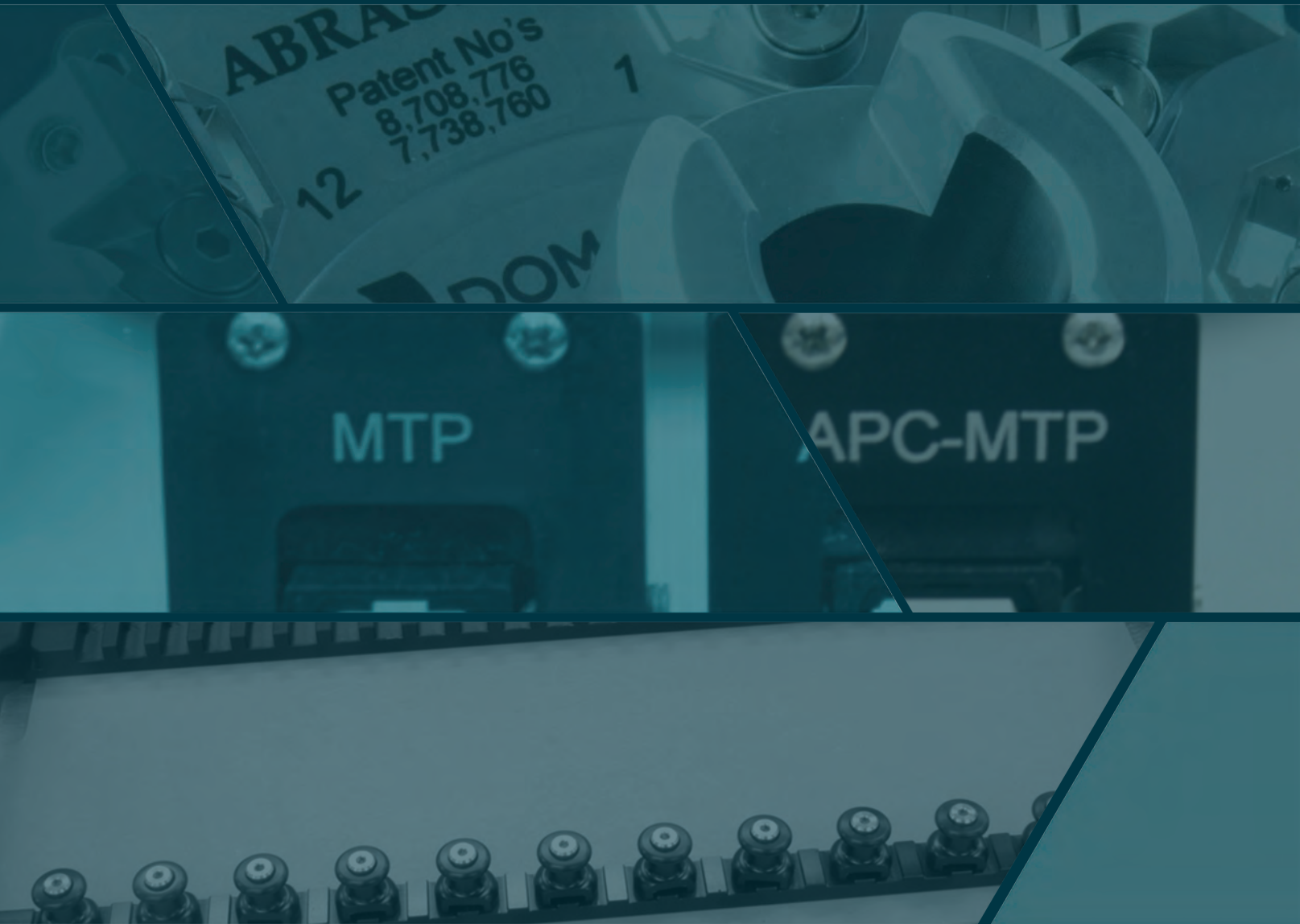
Manual Cleave at 600x

DE Data Link

DE Data Link™ brings smart factory technology to your finger tips with remote monitoring of the entire production line. Increase profitability and productivity through data driven continuous improvement.

Features:
- "Real Time" data capture
- Barcode (data matrix) scanning
- Remotely upload polishing processes to multiple machines
- Simplifies product traceability
- User selects data for export to interrogate and analyze
- Report generating capability
- Track produced vs. planned or performance vs. goal
- Acquire down time history
- Remote monitoring

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