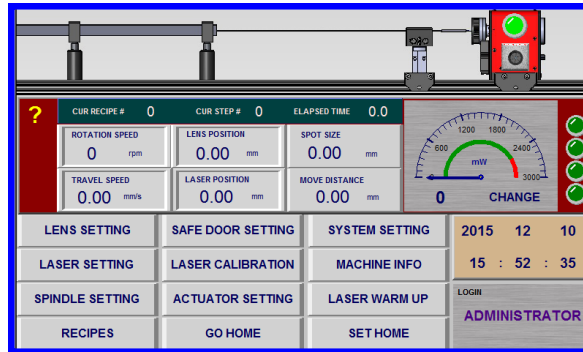
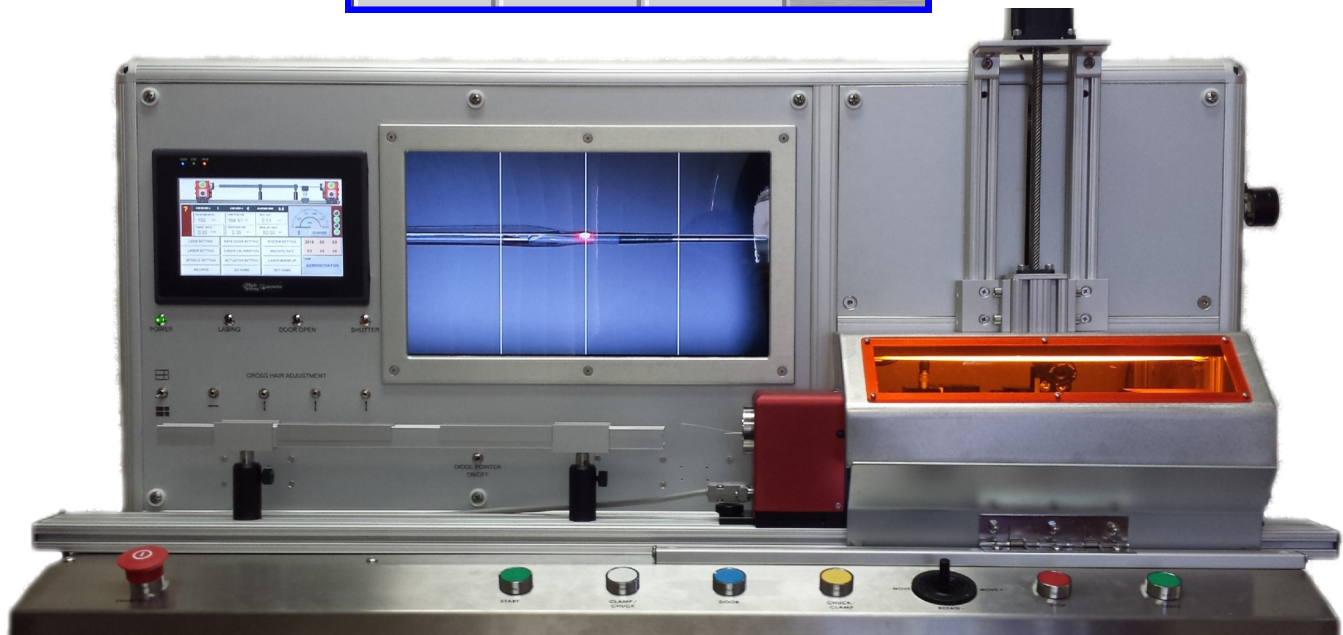


LBS5000 CATHETER LASER BONDER

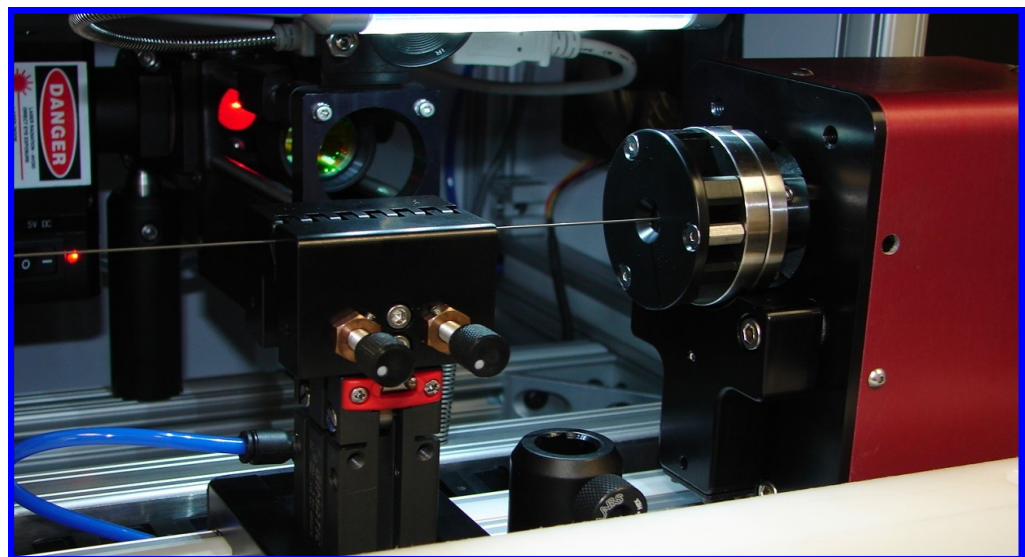
- ◆ Increase productivity by reducing loading and unloading time
- ◆ More effective with configurable sample holding system



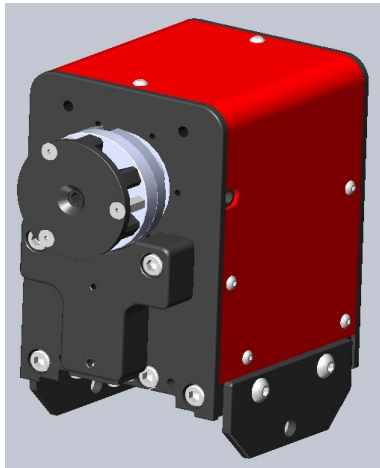
- ◆ Closed loop laser
- ◆ Touch screen interface
- ◆ Configurable sample holding system
- ◆ Drop load samples
- ◆ Auto calibration
- ◆ Programmable spot size
- ◆ And more...



The new configurable drop loading catheter holding system allows fast loading/unloading. Right chuck can be a segmented chuck with 0-1/4" opening, touhy borst or three jaw micro chuck, or any of the chuck types listed on next page. Air driven adjustable opening catheter clamp on the left. See other configurations on separate page. Adjustable position catheter support trough is standard.

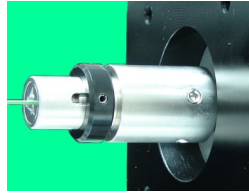


Direct Drive Spindle

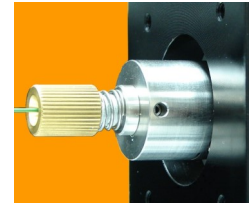


Direct drive spindle accepts various types of holding chucks, allow speed change from 0 to 1500 RPM, variable speed jogging with joystick

Choice of Chucks



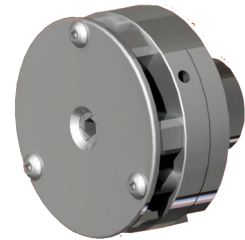
Three jaw stainless steel gapless chuck, opening 0-1mm, high precision. Best used to hold mandrel directly



Touby borst chuck, 3 sizes: 1-5 Fr, 5-7 Fr, 7-9 Fr., Directly hold tubing with rubber ring

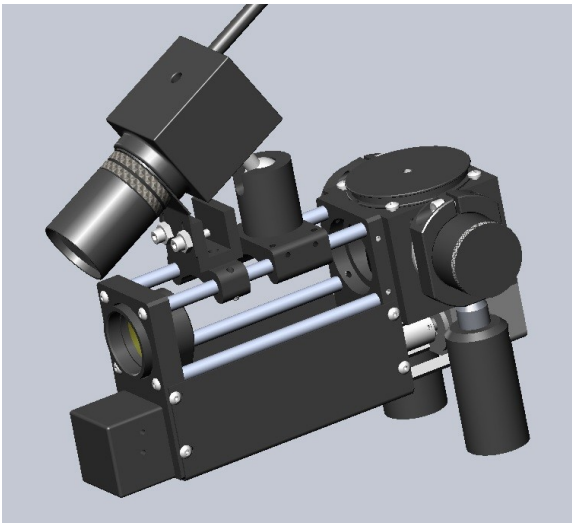


Luer lock chuck can hold and rotate a catheter with pre-molded luer

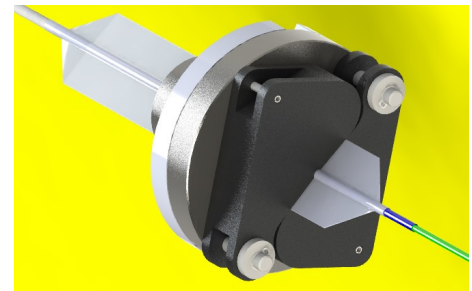


6 segmented chuck, 0-1/4" opening, plastic segments, directly hold tubing and/or mandrel, easy loading/unloading

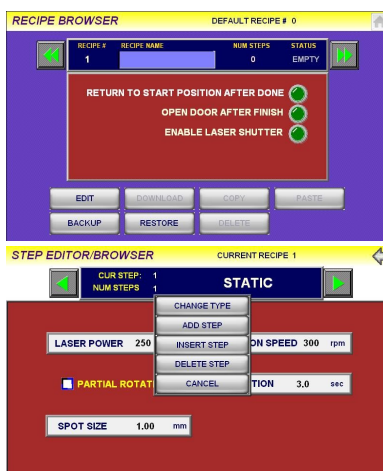
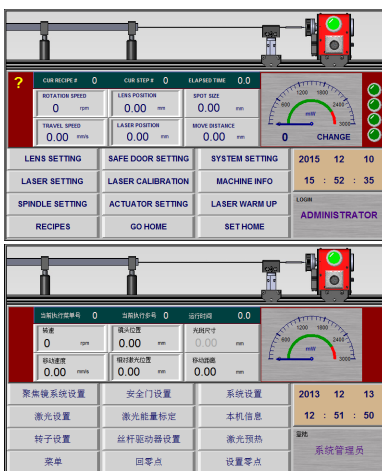
Motorized Focus Lens System



Motorized beam delivery system allowing spot size to be programmed in every step of a bonding recipe



2-Jaw chuck allows directly hold flattened balloon. Used for holding catheter with very long balloons (>100mm). Can be opened both manually or electrically



Touch Screen Shots

Equipped with a 7", high resolution touch-screen controller, programming the LBS 5000 is easier than ever.* The touch screen HMI also supports multiple language

* These screens are highly dynamic. They work similar to a Microsoft Window program

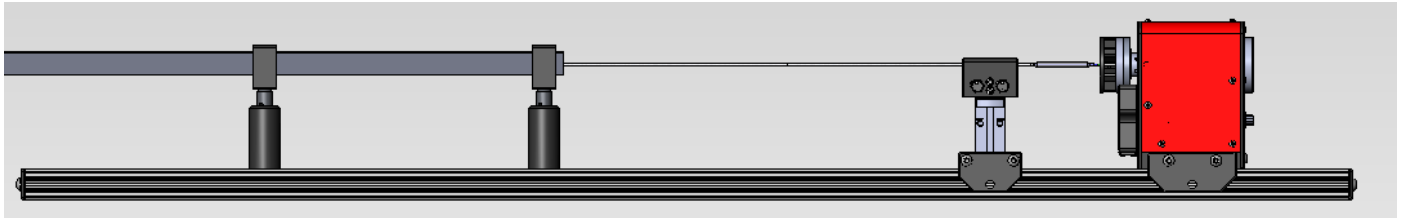
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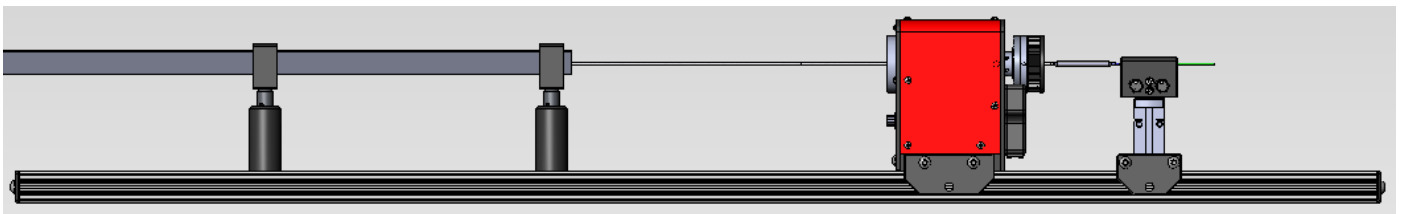
Phone: (858)535-9389
E-mail: info@laser-bonder.com
Website: www.laser-bonder.com



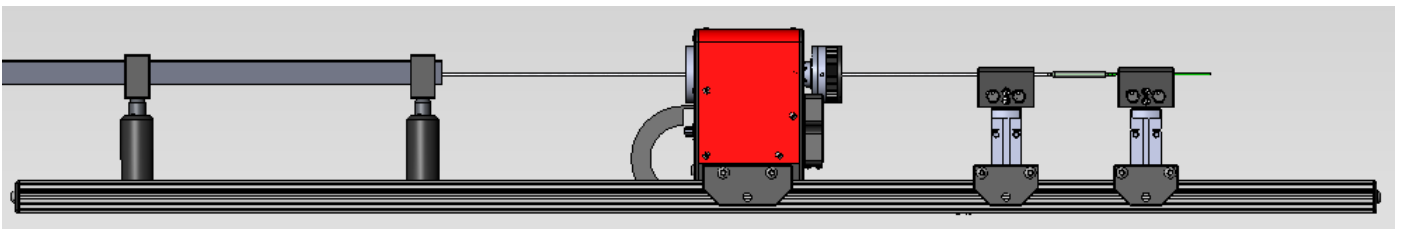
LBS5000 Sample Holding System Configurations



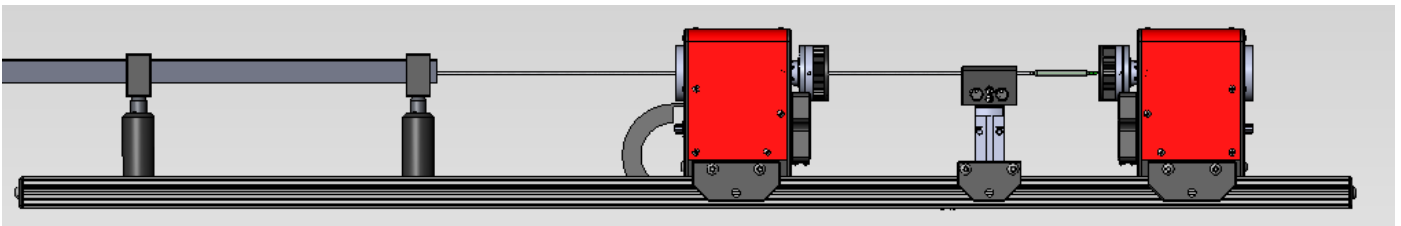
CONFIG #1: Spindle on the right side, clamp on the left side. Recommended to use with catheters with short to medium length balloons. Any types of chuck can be installed on the spindle. The chuck will hold the distal end of the support mandrel and rotate. Clamp will hold the proximal side of the balloon as a guide. Allow quick drop loading.



CONFIG #2: Spindle on the left side, clamp on the right side. Recommended to use with catheters with short to medium length balloons and non-circular shaft tubing. Recommend to use segmented or touhy borst chucks on the spindle. The chuck will hold the proximal side of the balloon and rotate. Clamp will hold the distal end of the support mandrel.



CONFIG #3: Spindle on the left side, dual clamps on each side of the balloon. Recommended to use with catheters with short to long length balloons and long shaft. Recommend to use the segmented or touhy borst chucks on the spindle. The chuck will hold the proximal end of the catheter. Clamps will hold both proximal and distal end of the balloon. Allow drop-in loading, efficient and precise



CONFIG #4: Dual spindle for holding catheters with built in guide wire or without through inner lumen, or for long and large size catheters

OTHER CONFIGURATIONS: More configurations are possible, for example, by using more than two clamp for long and thicker catheters to prevent excessive wobbling,

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LBS5000 Laser Bonder Feature Comparisons

FEATURES \ MODELS	LBS5100	LBS5200	LBS5300
10W CO2 Laser	√	√	√
Closed Loop Laser with 2% Stability	√	√	√
Real Time power Display	√	√	√
Electronic Shutter to eliminate power surge	√	√	√
Auto Power Calibration Software Module	√	√	√
Configurable sample holding system	√	√	√
Support catheter drop loading/unloading	√	√	√
Standard configuration: Catheter clamp + direct drive spindle	√	√	√
Dual direct drive spindles	Optional	Optional	Optional
Multiple catheter clamps	Optional	Optional	Optional
Parallel beam with slot aperture	√	N/A	N/A
Stackable Lens System	N/A	√	N/A
Programmable Spot Size in Each Step with Motorized Lens	N/A	N/A	√
7" High Resolution Touch Screen Controller	√	√	√
Multi Language Support	√	√	√
Built-in Cross Hair Generator	√	√	√
Machine Vision System with built-in 15" LCD Monitor	√	√	√
Automatic Recipe Selection with Barcode Scanner	Optional	Optional	Optional
Process and Calibration Data Reporting to PC	√	√	√
Powered Safety Door Open/Close	√	√	√
Serial Multi-Step Bonding Recipe Interface	√	√	√
Free Tech Support	√	√	√
Life Time Software Update	√	√	√

Heat Shrink Tubing

Polyolefin Shrink Tubing P/N	Min. Expanded ID (in)	Max. Recovered ID (in)
ST-MD-201	0.043	0.012
ST-MD-202	0.060	0.016
ST-MD-203	0.082	0.029
ST-MD-204	0.093	0.034
ST-MD-205	0.120	0.037

Call for other types of specialized shrink tubing

Want more?

We provide specialized shrink tubing for laser bonding

Check our customization programs

New to laser bonding? No problem. We provide training and process development

We also offer bonding services for small quantities

Some Samples†:

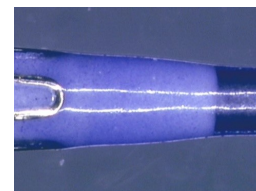
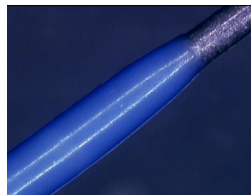


Soft Tip Attachment



PU Balloon Bond

Taper Formation



Stent Wrapping and Tip Bonding

† These represent only part of the capabilities of our laser bonder

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