



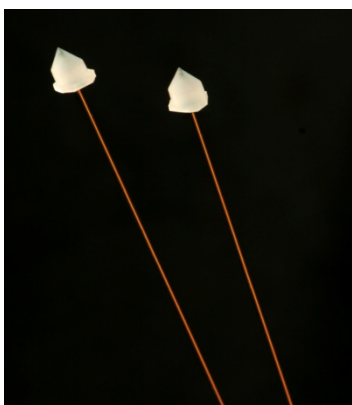
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Better, Faster, Robust Nanospray Chip

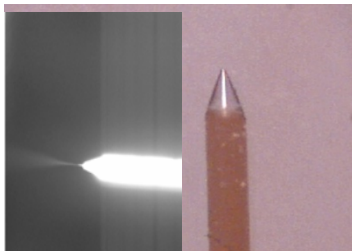
www.phoenix-st.com

To order; sales@phoenix-st.com, or call 1-610-876-6081

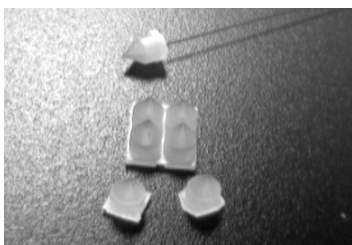
The following nozzle and nozzle-capillary products can be positioned with customers' existing nanoLC interface fixtures, or with our chip holder (please see the following page).



PST-LC-TIP: SureSpray™ robust LC nozzle is attached to a specially tapered capillary (360 μm o.d., 75 μm i.d. 50 μm i.d. capillaries are also available, 10 cm long) to enable high sensitivity, 2-5 nL dead-volume nanospray. 5 tips/box. Introductory price: \$90/box



PST-LC-75-Frit: SureSpray™ capillary with frit, 360 μm o.d., 75 μm i.d.. The capillary end with a sol-gel processed frit is tapered to enable high sensitivity, low dead-volume nanospray. The nozzle-fritted column is ready for your own resin packing. 4 ready-to-pack columns/box, \$180/box. Please specify lengths when ordering. The length is 30 cm. For longer lengths, please call.



PST-polytip: Similar to PST-LC-75-Frit except that the length is 7 to 10 cm to be used as nanospray emitter. No nozzle is supplied with this tip. The spray originates from the tapered polymeric fritted end. \$160/box of 4 tips.

PST-4PP+LC: SureSpray™ PP nanospray chip, positive or negative ion spray, 12 individual nozzles/box. The nozzle's larger cone size makes it easier to handle when attaching to your own 360 o.d. capillary. ~30 nL dead volume in the nozzle. \$96/box



PST-16-CHIP: SureSpray™ polypropylene nanospray chip with 16 nozzles. This chip is to be used with our automated AutoNano system, which has been introduced in 2008. The chip is being offered for individual researchers who would like to use the chip for their own specific purposes without the AutoNano system. The reservoirs of these nozzles are gold-coated. Each chip comes in its own frame, and with a sealing mat. \$128.00/chip



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The following parts are for users who do not have the means to position conventional pulled capillary tips in front of the mass spectrometer inlets.

Please call for pricing.



PST-LTJ-CSR: This nozzle holder holds the nozzle in position on a 3-D positioner (customer's own) and supplies the high spraying voltage through an insulated gold-plated stainless steel union junction. The union is mounted on an adjustable slide to accommodate capillaries or nanoLC columns of different lengths.

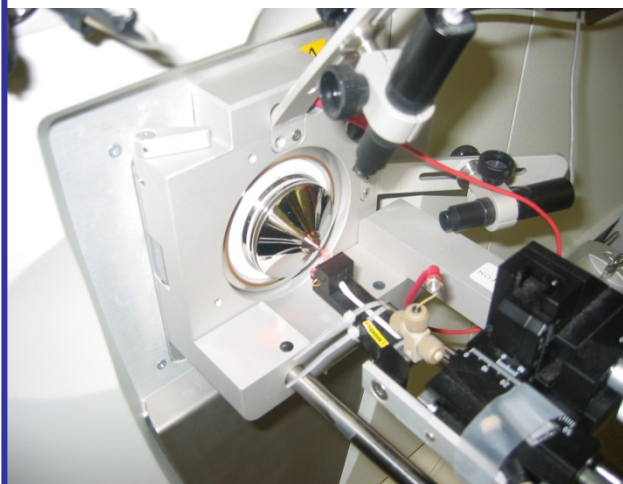
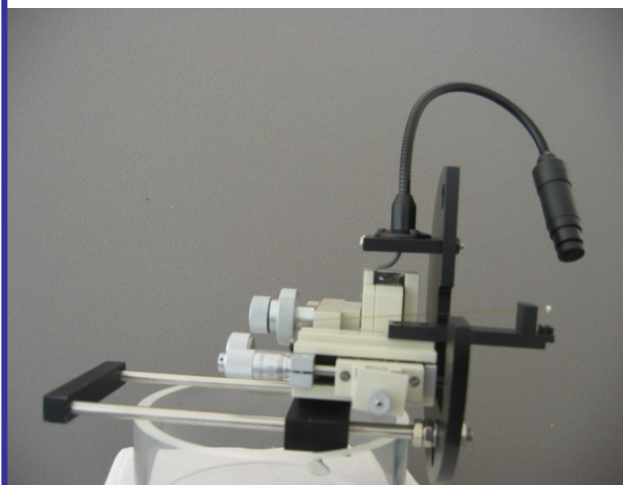
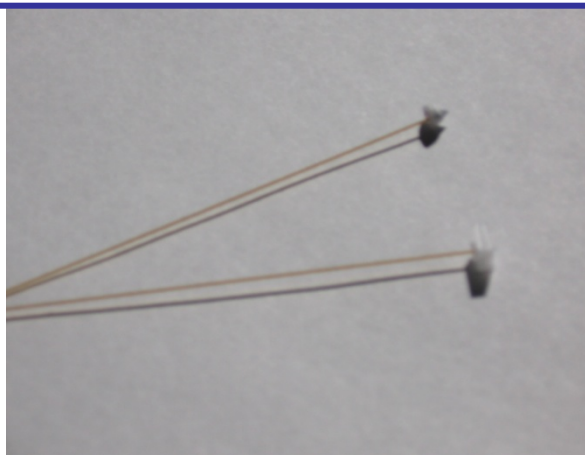
PST-CSR: This nozzle holder is the same as the PST-LTJ-CSR except that the high voltage junction is not supplied (customer uses own)

SureSpray™ NanoLC Column

PST-C18-5

- 5 µm silica particles
- 75 µm i.d., 360 µm o.d. (other i.d. available)
- Integrated spray nozzle for superbly stable spray
- 2-5 nL dead volume
- Clog-resistant spray nozzle lasts as long as column
- No special fixture needed to hold column
- Other resins available: C18 3 µm, C8 3 µm, C8 5 µm.

•**Special 2 for 1 offer**



SureSpray™ MS interface

•**PST-MS-Wat** SureSpray™ complete MS interface for capillary or nanoLC column used with nozzles for Water MS.

•**PST-MS-Thermo** SureSpray™ complete MS interface for capillary or nanoLC column used with nozzles for Thermo MS.

The interface is comprised of the following:

- PST-3D Complete 3-D positioning system
- PST-DM Miniature digital camera with LED light and monitor or computer interface for viewing spray.
- PST-LTJ-CSR :Column or capillary tip holder for secure positioning in front of the MS inlet
- HV control box close to the interface for controlling the HV on/off

Components may also be purchased separately.



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SureSpray™ Robust Nanospray chip

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Fax: 1-610-876-6084

Ordering Information

- 1) U. S. and international customers pay a small shipping and handling fees in addition to prices of products. International customers pay all tariffs, customs brokers' charges and other charges due to import rules. Customer is also responsible for obtaining import permits, if required.
- 2) The chips will typically be shipped within one week of receipt of order. The delivery time for the other parts may be from one to three weeks from receipt of orders. Please call for lead time on complete systems.
- 3) Credit card (Visa and MasterCard, Discover and American Express) orders are welcome. Net 30 days for approved accounts.
- 4) For specific applications and custom implementation, please call to discuss.