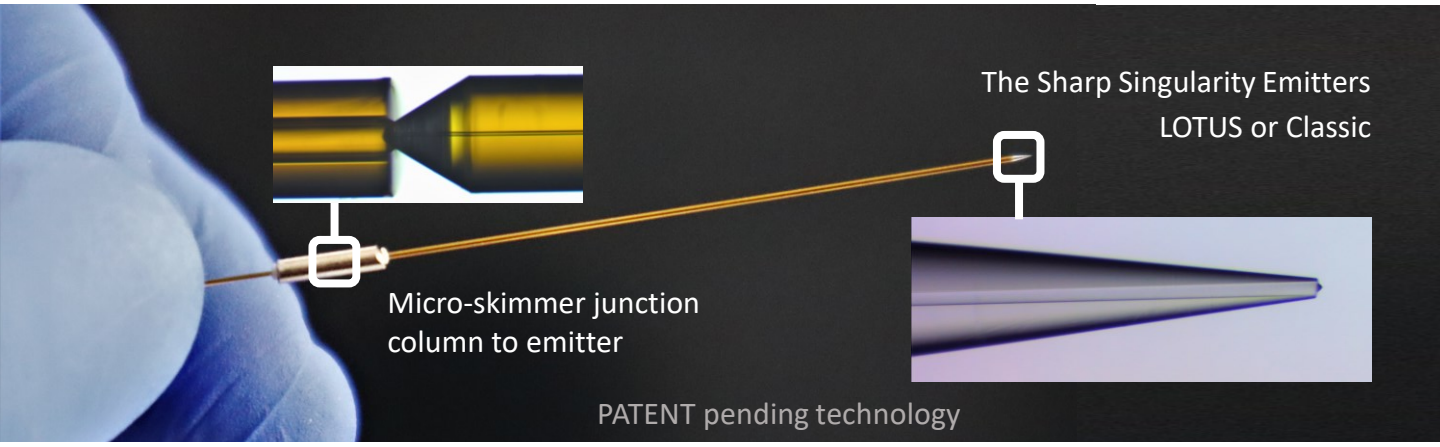
Dragonfly Columns

Sharp Singularity™

FOSSILIONTECH

Microscopic Precision to Handle **Complexity of Life**



To improve robustness and reproducibility, we have re-engineered the way nano-columns and emitters are made, eliminating sources of variability and week points.“

- Welded column and emitter form a monolithic assembly: eliminate handling variability.
- The column micro-skimmer column to emitter junction: self-aligning, eliminates the need for a frit.
- Sharp singularity emitter (LOTUS or Classic): optimized electrospray performance.
- A ZDV inlet permanently welded to the column: seamlessly integrate the Dragonfly columns in your set-up.

Optimized, highly reproducible column and emitter geometry.

self-pack options available. Contact us to ask for IDs and lengths

DRAGONFLY COLUMNS
Powered by the Sharp Singularity

www.fossiliontech.com
info@fossiliontech.com

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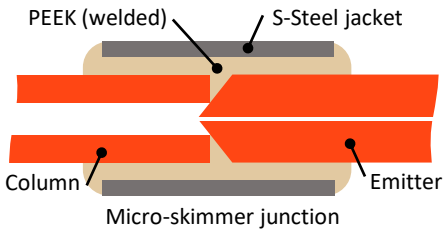
Micro-skimmer junction column-emitter:

- **Self-centering geometry:** high geometric reproducibility, thanks to the conical column-emitter interface.
- **Mechanically strong:** welded in vacuum.
- **Frit-less:** No frit required, the conical skimmer keeps the chromatographic beads in the column. Only the liquid flows to the emitter (tested with 1.9 µm beads, in a 75µm to 10 µm junction).



Robust:

- The welded junction is extremely strong. It can handle very high pressures and pulling forces, as if the column-emitter was made in one piece.
- There is no frit. Frit problems are just eliminated.
- Less prone to clogging, thanks to the constant ID of the emitter

Reproducible:

- The column to emitter geometry is reproducible, with micrometric precision.
- The effective length of the column is no longer affected by the frit or the pulling process.
- The column and the emitter stay perfectly aligned always.
- Column and emitter built in one piece, no handling variability.

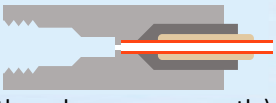
LOTUS

Sharp Singularity emitters integrated:

High performance, high precision emitters, designed to produce the best possible electrospray, LOTUS or Classic.

Built-in ZDV inlet:

(VICI cheminert nano-volume™ Stainless Steel fitting welded to the column permanently)



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