

# Laboratory Tools

## CAPILLARY COLUMN CUTTERS



With rotating  
diamond blade



US Patent: US-A-6, 708, 857  
EP-B-1 021 381

**SGT**   
SCIENTIFIC GLASS TECHNOLOGY

**2015**

**Instrument  
Solutions**

*Technology for Your Success!*

- Leak-tight Quick-Fit connections
- Improved Reproducibility of Analytical Results
- Trouble free Preparations for On-Column Injections
- A perfect reproducible cut independent from skill & experience
- Improved Reproducibility of Split and Splitless Injections

### WHY A CLEAN AND STRAIGHT CUT IS IMPORTANT?

Gas chromatographic and column techniques, like On-Column injection, Quick-Fit column connections or any other critical gas chromatographic analysis, make it a necessity to cut a column extremely straight without cracked column walls or column blockage because of fused-silica particles. The Shortix™ Capillary Column Cutter is especially designed to allow everybody, independent from skill and experience level, to make the perfect cut. This is important because these errors, caused by non perfect column cuts, will result in poor chromatography, spikes in the chromatogram, leaking Quick-Fit connections, bad chromatographic reproducibility of retention times and peak broadening.



When traditional column cutters, like a diamond pen or a sapphire, are used, only a fraction of the column wall is scratched. The column is then broken off resulting in a partly cracked, thus damaged, column wall.



The SGT Shortix™ Capillary Column Cutter rotates a diamond cutter around the whole column wall making a scratch all the way around the wall. The column is then broken off resulting in a perfectly straight column cut.

<b>Catalog No.</b>	S0010
<b>Specifications</b>	
<b>Usable For</b>	Fused Silica Capillary Column Ø 0.5 Use with 0.25mm ID to 0.53mm ID tubing (0.78mm OD maximum).
<b>Dimensions</b>	9.2 cm x 1.7 cm x 1.7 cm
<b>Weight</b>	94 g



#### Shortix™ GC

In Gas chromatography, the Glass Quick-Fit connection is often used. (e.g. for Retention Gaps, Guard Columns) This connection will only be leak-tight when the column is cut extremely straight and without any damage to the fused-silica column wall.

<b>Catalog No.</b>	S0020
<b>Specifications</b>	
<b>Usable For</b>	Fused Silica Capillary Column Ø 0.25micron
<b>Dimensions</b>	9.7 cm x 1.7 cm x 1.7 cm
<b>Weight</b>	94 g



#### Shortix™ CE-CEC

For CE/CEC analyses a clean and straight cut of the capillary column is needed to assure symmetrical Field-Strength over the inlet of the column. When there is no symmetrical Field-Strength, the analytical results will be **non-reproducible**.

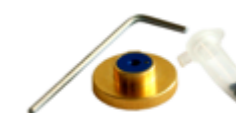
<b>Catalog No.</b>	S0011
<b>Specifications</b>	
<b>Usable For</b>	Shortix GC



#### Maintenance Kit for Shortix GC

Includes diamond cutting wheel, O-rings, and a tool to open the column cutter

<b>Catalog No.</b>	S0021
<b>Specifications</b>	
<b>Usable For</b>	Shortix CE-CEC

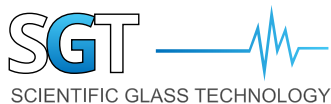


#### Maintenance Kit for Shortix CE-CEC

Includes diamond cutting wheel, O-rings, and a tool to open the column cutter

Shortix™ Diamond Capillary Column Cutters

Part No.	Description	qty.
S0010	SGT Shortix™ GC Includes Standard -Black Fused Silica Capillary Column Cutter for Capillary GC Columns	ea.
S0020	SGT Shortix™ CE-CEC Includes Standard -Blue Fused Silica Capillary Column Cutter for Capillary CE/CEC Columns	ea.
S0011	Maintenance Kit for Shortix GC Includes diamond cutting wheel, O-rings, and a tool to open the column cutter	ea.
S0021	Maintenance Kit for Shortix CE-CEC Includes diamond cutting wheel, O-rings, and a tool to open the column cutter	ea.



Management System  
ISO 9001:2008

www.tuv.com  
ID 9108620930

Authorised Reseller

Instrument Solutions Benelux BV  
De Liesbosch 50 - 3439 LC Nieuwegein (NLD)  
Tel: +31(0)88 4678 786 / Fax: +31(0)88 4678799  
[www.instrument-solutions.com](http://www.instrument-solutions.com)  
[info@instrument-solutions.com](mailto:info@instrument-solutions.com)