

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

WWW.SGT-NL.COM

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

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.

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

Catalog No.	S0020
Specifications	
Usable For	Fused Silica Capillary Column Ø 0.25micron
Dimensions	9.7 cm x 1.7 cm x 1.7 cm
Weight	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**.

Catalog No.	S0011
Specifications	
Usable For	Shortix™ GC



Maintenance Kit for Shortix™ GC

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

Catalog No.	S0021
Specifications	
Usable For	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

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