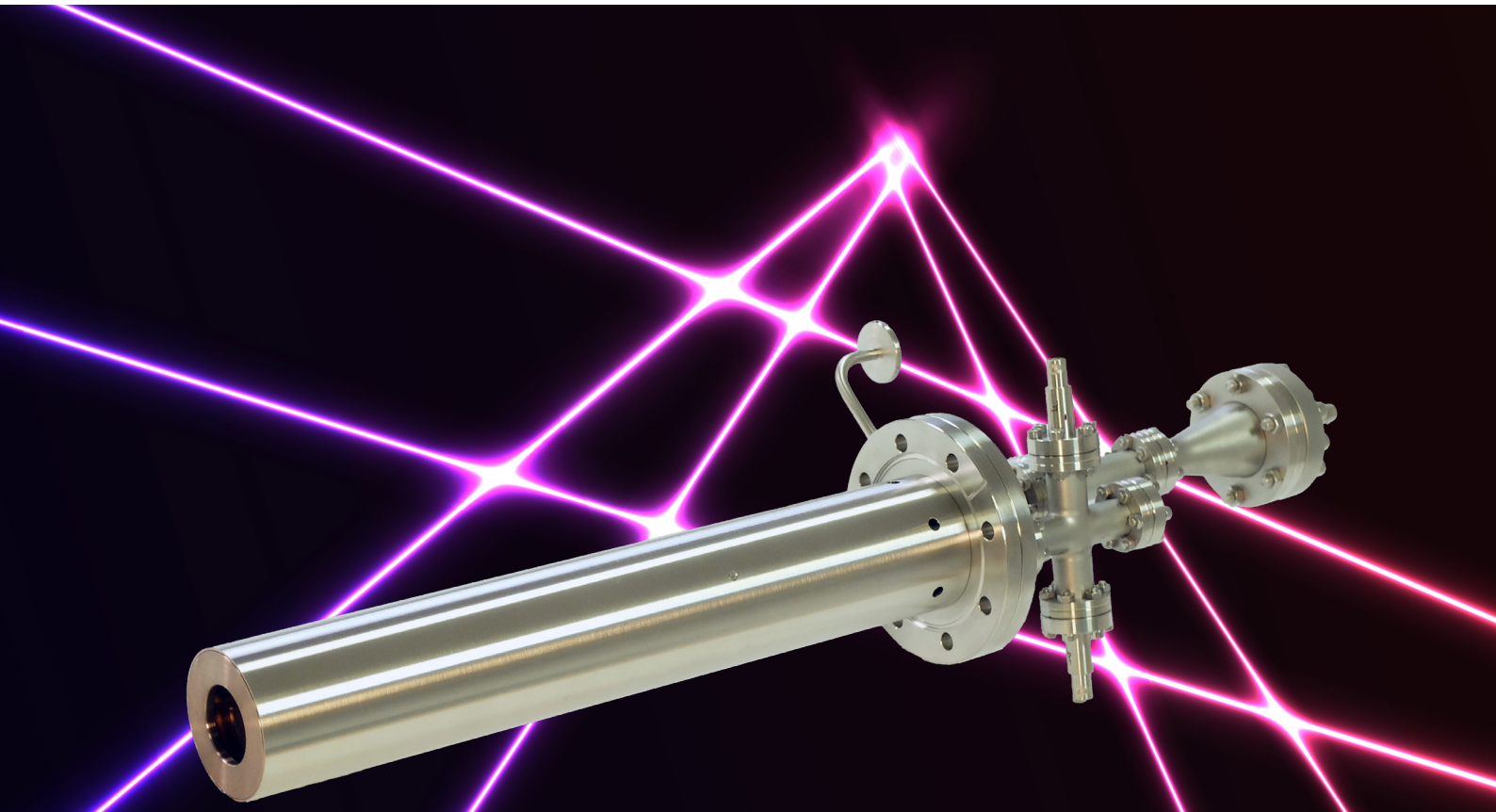
POLYGON PHYSICS

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TES PRODUCT LINE

The smallest microwave plasma sources on the market

TES-GO

TES-40

TES-63

Compact ECR source on CF63 flange, up to 15kV beam

TES-100

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TES-63

APPLICATIONS

- Electron chemistry
- Sputtering
- Figuring
- Mass spectroscopy
- Accelerator
- Beam line
- Etching

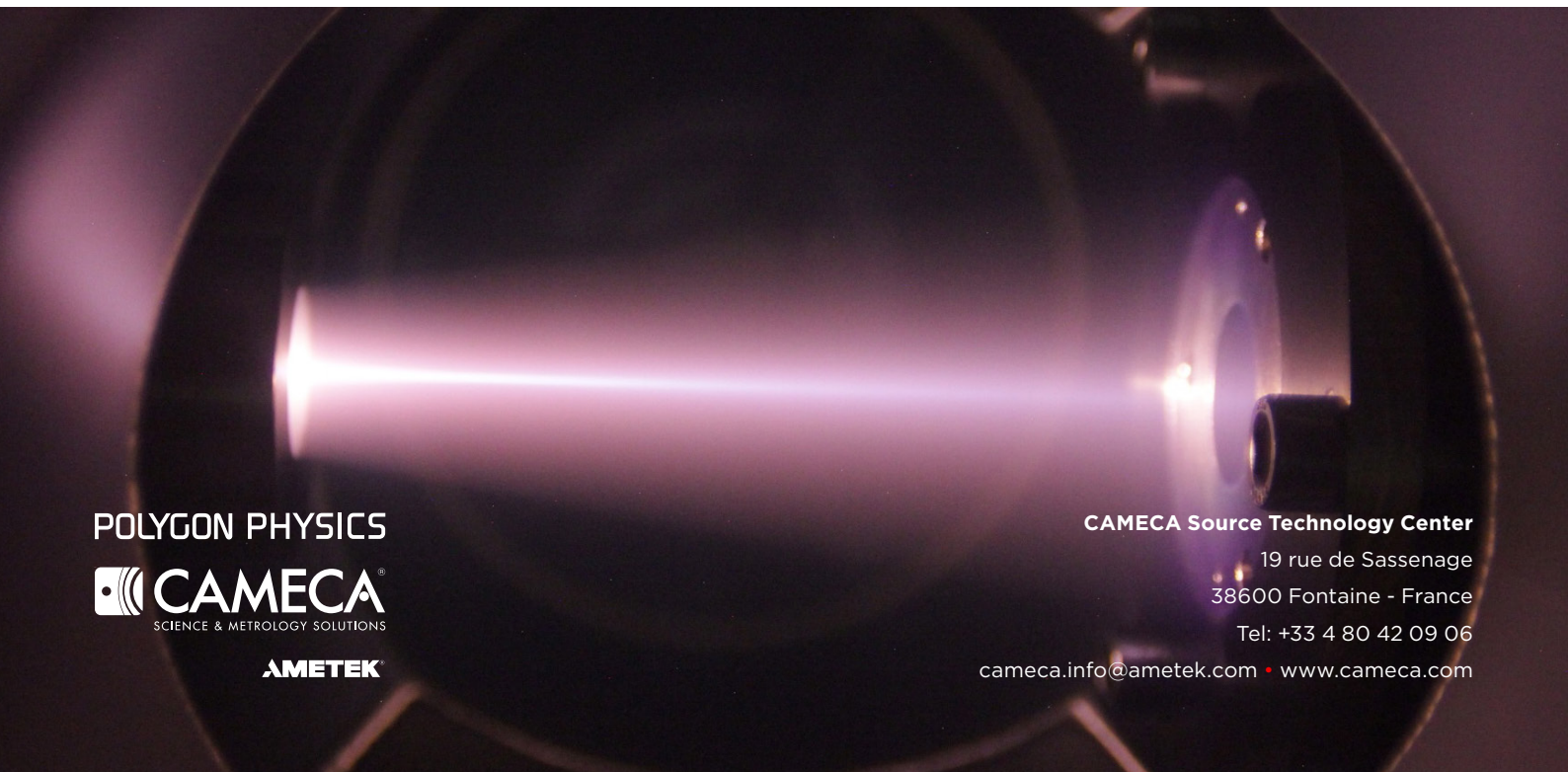
BENEFITS

- High brightness system
- High power e-beam
- Stability over time
- Compactness
- CW or pulsed
- Reduced maintenance, filament free, no cooling
- Plug & Play
- Independent electronics rack
- Compatible with noble and reactive gases

OPTIONS

- Bipolar mode
- Pulsed mode
- Focusing module (Einzel lens)
- Scanner
- Cable length

SPECIFICATIONS	Electrons	Ions	Ions-high brightness	Ions-scanner
Applications	Electron chemistry (down to 100 V) / High power e-beam up to 1.5 kW	Beam line, accelerator, mass spectroscopy, sputtering	Beam line, accelerator, mass spectroscopy, etching	Figuring, etching
Energy range	100 V – 15 kV	0.5 – 15 kV	0.5 – 15 kV	0.5 – 15 kV
Current	0.1 to 50 mA, aperture dependent	0.1 to 500 µA	0.3 to 300 µA	10 to 500 µA
Beam size (typ. at 10 cm)	Energy and focus dependent	0.3 to 30 mm	0.5 to 5 mm	0.3 to 5 mm
Insertion depth	143 mm	143 mm	222 mm or 277 mm with Einzel	358 mm with Einzel and Scanner



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