SE-ACB-80 High Power AC Antistatic Bar – 8 kV

Extended-range, high-speed static elimination for demanding industrial production lines



KEY DATA

Ionization voltage
8 kV

Ionization range
25 – 250 mm

Max. line speed
700 m/min

Ordering length
100 – 4500 mm

Overview

The FÖGE SE-ACB-80 is a high-power AC antistatic bar engineered for industrial production environments where standard 5.5 kV bars are no longer sufficient. Operating at 8 kV with an external SE-PAC-80 AC high-voltage power unit, it ionizes at distances of up to 250 mm — more than twice the range of the SE-ACB-55 — making it the right choice when installation geometry prevents close bar mounting, when materials carry exceptionally high static charges, or when line speeds push beyond 500 m/min.

Key features

- 8 kV AC ionization voltage — more than twice the power of standard 5.5 kV AC bars
- Extended ionization range up to 250 mm — ideal where the bar cannot be positioned close to the material
- Effective at line speeds up to 700 m/min — designed for the most demanding high-speed applications
- Shockless operation — pin current < 50 µA, safe for operators at all times
- Stainless steel emitter pins — long service life and corrosion resistance
- Washable housing — easy to clean, suitable for dusty and humid environments
- Screened HFFR-protected cable — flame-retardant and EMI-resistant
- Plug-and-play HV connector — fast, tool-free installation and removal
- Up to 4 bars connectable to a single SE-PAC-80 power unit
- Orderable in any length from 100 mm to 4500 mm
- Optional SE-CAB-AC-1 cable in 1 m steps (max. 12 m total length per power unit)

Technical specifications

Product code	SE-ACB-80-xxxx (length in mm, e.g. SE-ACB-80-0300 = 300 mm)
Compatible power unit	SE-PAC-80-2-C (2 outputs) · SE-PAC-80-4-C (4 outputs)
Ionization type	High voltage AC — shockless
Ionization voltage	8 kV
Ionization range	25 – 250 mm *
Max. line speed	700 m/min
Ordering length	100 – 4500 mm

Pin current (safety)	< 50 µA (shockless — safe for operators)
Emitter pin material	Stainless steel (long service life)
Polarity	Alternating AC
Operating temperature	Max. 60 °C
Max. humidity	70 % rH, non-condensing
Protection class	IP66 — fully sealed
Standard cable	C2 — 2 m HFFR-protected flex cable with HV connector
Optional cable	SE-CAB-AC-1 — non-standard cable lengths in 1 m steps, within the 12 m total length per power unit
Housing	Washable, rugged industrial-grade body
EMC compliance	2014/30/EU — EMC Directive
Electrical safety	2014/35/EU — Low Voltage Directive
Bars per power unit	Up to 4 bars per SE-PAC-80 power unit

* Ionization range measured at standard conditions (20 °C, 50 % rH). Effective range may vary with ambient humidity, temperature and line speed.

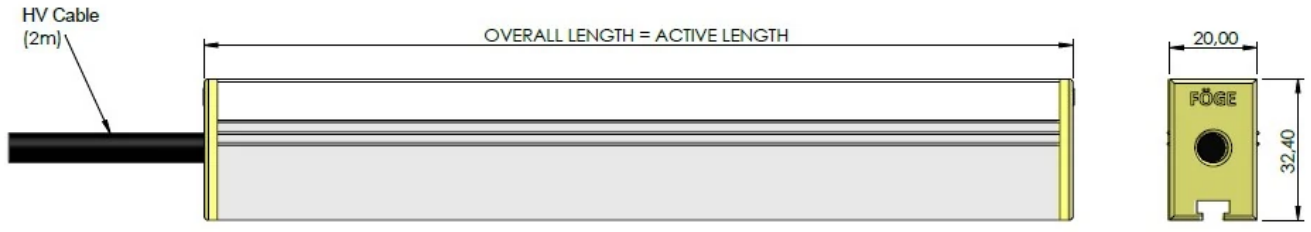
When to choose the SE-ACB-80 over the SE-ACB-55

The SE-ACB-80 is the right choice when any of the following conditions apply. If none apply, the SE-ACB-55 is the more cost-effective option.

- The bar cannot be mounted within 100 mm of the material surface due to machine geometry
- The material carries an unusually high static charge (heavy plastic sheet, board, extruded materials)
- Line speed exceeds 500 m/min
- Standard 5.5 kV bars have been tried and are underperforming in your process

	SE-ACB-55 (5.5 kV)	SE-ACB-80 (8 kV)
Ionization voltage	5.5 kV	8 kV
Ionization range	25 – 100 mm	25 – 250 mm
Max. line speed	500 m/min	700 m/min
Compatible power unit	SE-PAC-55	SE-PAC-80
Optional cable	Up to 12 m	1 m steps, max. 12 m total
Best for	Standard production environments	High static charge, wide-gap, very high-speed lines

Dimensional drawing



Dimensional drawing of the SE-ACB-80 AC antistatic bar: profile 20.00 × 32.40 mm, overall length equals active length, 2 m HV cable

Complete system — what you need

SE-ACB-80 antistatic bar	Main ionization bar — order in the required length (100 – 4500 mm)
SE-PAC-80-2-C power unit	2-output AC high-voltage power unit — powers up to 2 SE-ACB-80 bars
SE-PAC-80-4-C power unit	4-output AC high-voltage power unit — powers up to 4 SE-ACB-80 bars
Mounting brackets (optional)	Standard and custom brackets available — contact FÖGE for options
Extended cable (optional)	SE-CAB-AC-1: non-standard cable lengths in 1 m steps, within the 12 m total length per power unit
Maintenance kit	FÖGE Antistatic Maintenance Kit — cleaning tools and spare emitter pins

Product information and ordering: sales@fogegmbh.com · +49 9372 9809477 · foge-antistatic.com