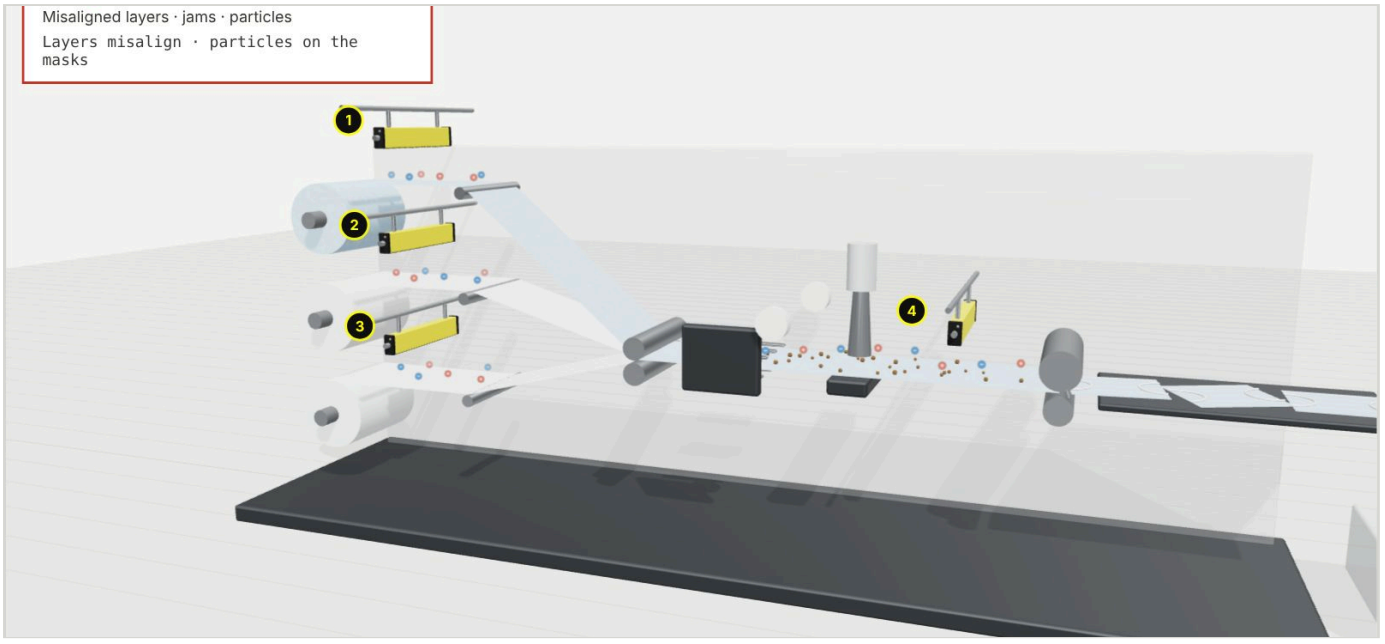
STATIC ELECTRICITY PRODUCTS · APPLICATION

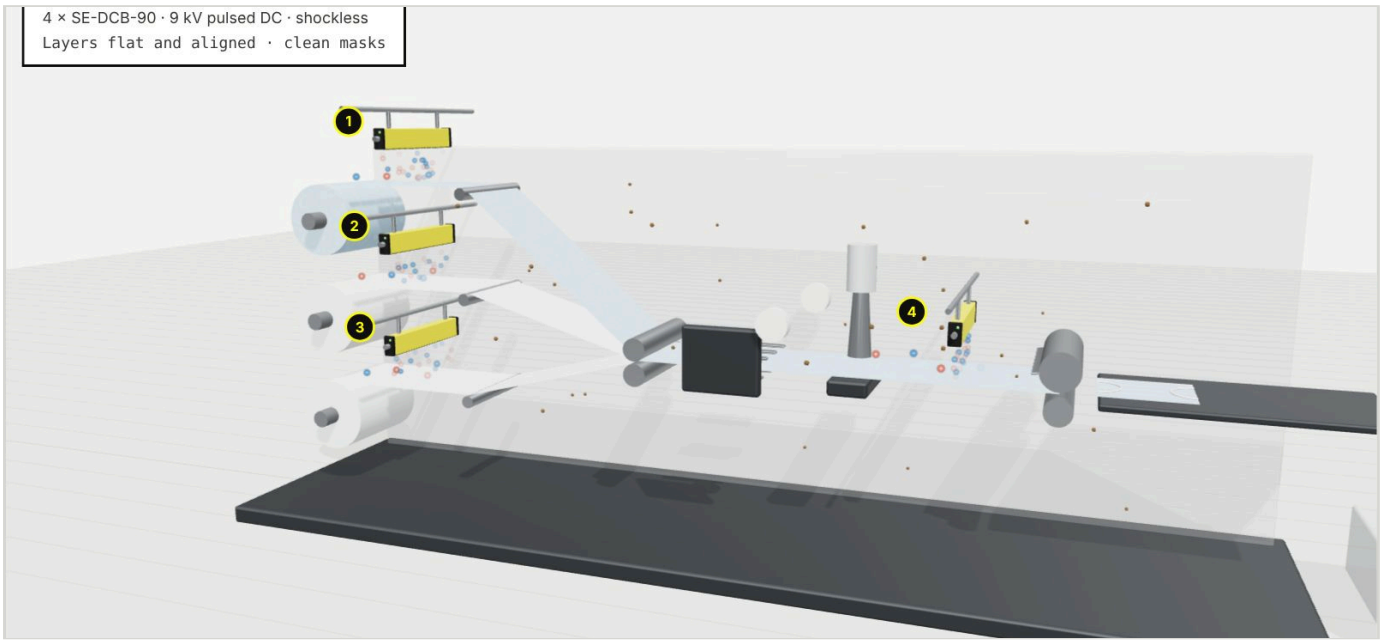
# Automated face mask production with four SE-DCB-90 bars

Face masks are made from layers of non-woven polypropylene that charge up during high-speed unwinding, folding and ultrasonic welding. The light layers misalign, stick to rollers or repel each other — jams and uneven folds — and the charge attracts airborne particles, which compromises medical hygiene. SE-DCB-90 bars above each fabric layer after unwinding and at the final welding / cutting stage keep the material flat, aligned and clean.

**WITHOUT IONIZATION**




**WITH SE-DCB-90**



## FÖGE products in this application

### 1 · SE-DCB-90 — outer layer

Above the outer non-woven layer right after its unwind.

| | |
|---|---|
| Ionization | **9 kV pulsed DC · shockless** |
| Pins | **Tungsten · pin current < 250 µA** |
| Connector | **M12 · 4-pin cable** |

SE-DCB-90 details

### 2 · SE-DCB-90 — filter layer

Above the filter layer after its unwind — the layers join flat and aligned.

| | |
|---|---|
| Ionization | **9 kV pulsed DC · shockless** |
| Pins | **Tungsten · pin current < 250 µA** |
| Connector | **M12 · 4-pin cable** |

Request technical quote

### 3 · SE-DCB-90 — inner layer

Above the inner layer after its unwind.

| | |
|---|---|
| Ionization | **9 kV pulsed DC · shockless** |
| Pins | **Tungsten · pin current < 250 µA** |
| Connector | **M12 · 4-pin cable** |

SE-DCB-90 details

### 4 · SE-DCB-90 — welding / cutting

Above the mask web between the ear-loop welding and the cutter; removes the charge from welding so the masks are cut and stacked cleanly.

| | |
|---|---|
| Ionization | **9 kV pulsed DC · shockless** |
| Pins | **Tungsten · pin current < 250 µA** |
| Connector | **M12 · 4-pin cable** |

Request technical quote

## Also suitable for face mask production

Other FÖGE antistatic bars for non-woven converting.

| | |
|---|---|
| **SE-ACB-55**<br>Compact AC Antistatic Bar – 5.5 kV | 5.5 kV AC · 25 – 100 mm · up to 500 m/min |
| **SE-ACB-80**<br>High Power AC Antistatic Bar – 8 kV | 8 kV AC · 25 – 250 mm · up to 700 m/min |

Interactive 3D model: switch between both states, rotate and zoom. **foge-antistatic.de/applications/face-mask-production-se-dcb-90/**

Schematic model, not to scale. Machines and parts are generic — no specific manufacturer or brand. Product data as published on foge-antistatic.de.