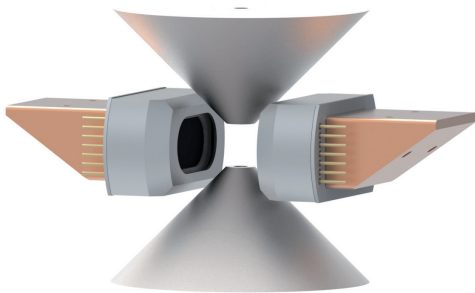


SDD Racetrack Line

Best solid angle with our unique detector shape: PNDetectors unique oval shaped Silicon Drift Detectors – SDD Racetrack – combine excellent performance with highest possible solid angles of collection. Due to their compact geometry, these detectors can be positioned right next to the pole piece of any SEM or TEM, very close to the sample.

Collect all available signal



Highest possible solid angle

- ▶ Due to the oval shape of the SDD Racetrack **huge solid angles up to 1 sr per sensor** can be achieved.

Highest possible solid angle

- ▶ After the spectacular success of our **100 mm² Racetrack SDDs**, the oval shaped sensors are **now also available in 60 mm² and 200 mm² size** in order to fit every application.

Customer specific detector modules

- ▶ Ask us for customer specific detector solutions for the ideal integration into your system.

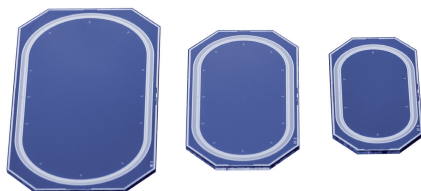
Don't accept performance trade-offs

High spectroscopic performance

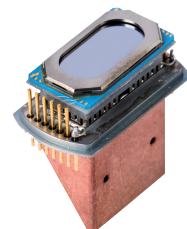
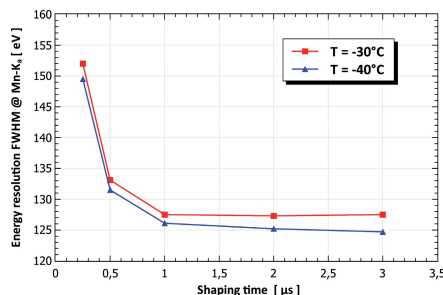
- ▶ The SDD Racetrack detectors provide excellent spectroscopic performance with energy resolutions **down to 128 eV FWHM @ Mn-K α** @ **-30°C chip temperature**.

Windowless detectors for light element analysis

- ▶ The excellent performance of our **pnWindow** enables **light element detection down to Beryllium** and **Peak-to-Background ratios of 15.000** with high quantum efficiency.



SDD Racetrack chips with 200 mm², 100 mm² and 60 mm² active area



Measured energy resolution of a 100 mm² SDD Racetrack Module