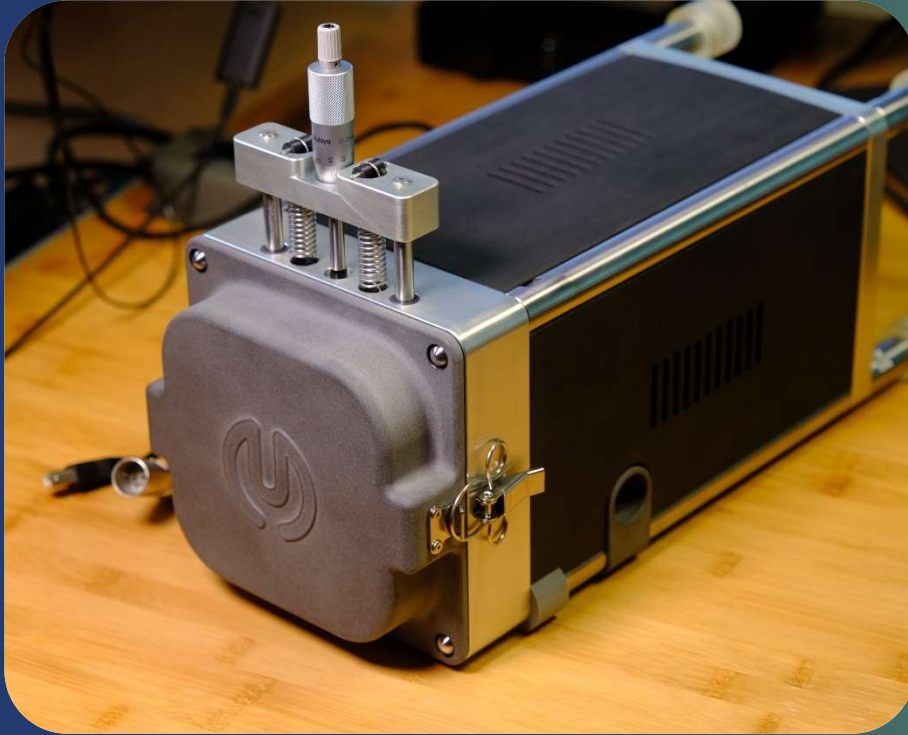


PET Particle Emission Tribometer

Tribological Particle Emission Testing, Quick and Efficient



PROGRESSIVE SETUP

Start with the base PET and a particle counter. Add a clean, pressurized air supply and a cleanroom workbench if higher ISO cleanliness classes is required.

EASE OF USE

Perform a baseline test before and after each campaign, and you are ready to compare different materials and (solid) lubricants under varying loads and temperatures.

REAL-TIME INSIGHT

Receive direct feedback on particle counts at short intervals (e.g. updates every 5 seconds). The software tracks and records all changes continuously.

PET

Contact geometry	Plane-on-Disc, Ball-on-Disc, Pin-on-Disc, Ring-on-Ring
Form of motion	Rotation, Rotation-Oscillation
Rotational and Sliding Speed	10 to 1800 RPM, 1 mm/s to > 1 m/s depending on specimen quality
Load range	5 N – 50 N, up to 500 N*
Temperature range	-30° C to 100° C**
Sensor technology	Frictional force, wear, speed, temperature
Weight range	Approx. 50 kg for a complete system
Dimensions	1600 mm x 800 mm x 1600 mm (H x W x D)
Electrical connection	230 V; 16 A; 50/60 Hz
Measuring frequency	Up to 500 S/s
Particle Counter	> 1 CFM recommended, The test bench software also connects to the particle counter for start / stop and data transfer from the counter. Different Manufacturers are supported, e.g. Met One, Lighthouse, Climet. Particle size class bins are adapted for the chosen counter.
Options	*Normal force range and automation control **Cryostat and environmental chamber Various sample adaptations Data analysis suite

