

# PARTICLE QUANTIFIER INSTRUMENT - TORONPQI™ 1000



# ToronPQI™ 1000 - ASTM D8184 Compliant Ferrous Debris Monitor

The ToronPQI™ 1000 is the entry-level model in Torontech's PQI line, offering precise ferrous wear debris analysis in lubricating oils and hydraulic fluids. It utilizes the Particle Quantifier (PQ) method in accordance with ASTM D8184, ensuring standardized, repeatable, and highly accurate readings.

Compact yet powerful, the ToronPQI™ 1000 provides direct measurement of ferromagnetic particles without chemical pretreatment — delivering fast results within just 7 seconds per sample.

## Compliance

- Fully conforms to ASTM D8184 - Standard Test Method for Determination of Ferrous Wear Debris in Lubricating Oils and Hydraulic Fluids by the Particle Quantifier Method.

## APPLICATIONS

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### Applications

- Oil analysis and lubrication testing labs
- Industrial equipment and gearbox maintenance
- Power plants, steel mills, and mining machinery
- Predictive maintenance and reliability programs

Particle Quantifier Instrument - ToronPQI-1000

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## FEATURES

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### Key Features & Benefits

- ASTM D8184 Compliance – Conforms to international PQ measurement standards.
- Fast & Direct Measurement – Analyze samples in seconds without preparation.
- High Sensitivity – Detects ferromagnetic particles  $\geq 1\ \mu\text{m}$ .
- Repeatability –  $\pm 4$  PQ or  $\pm 1\%$  (whichever is greater).
- USB Data Export – Convenient PC connectivity for record-keeping and trending.
- Compact Design – Lightweight, bench-top footprint ideal for laboratories.

## TECHNICAL SPECIFICATIONS

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| Parameter         | Specification |
|-------------------|---------------|
| Measurement Range | 0 - 15 000 PQ |

| Parameter          | Specification                                          |
|--------------------|--------------------------------------------------------|
| Repeatability      | $\pm 4$ PQ or $\pm 1$ %                                |
| Measurement Time   | Approx. 7 s per sample                                 |
| Particle Detection | Ferromagnetic $\geq 1 \mu\text{m}$                     |
| Display            | LCD (120 × 90 mm)                                      |
| Data Output        | USB interface                                          |
| Voltage            | AC 220 V $\pm 10$ %, 50-60 Hz (110V is also available) |
| Dimensions         | 370 × 222 × 140 mm                                     |
| Weight             | $\approx 3.8$ kg                                       |



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