

## TTT Tapping-Torque-Testsystem

Laboratory "evaluation- & analysis" measurement system

**TTTsystem** - When monitoring lubricants

### Torque controlled „Laboratory-Complete-System“

Easy laboratory system in method, handling and software. Designed with automatic feeding system, integrated manual X-Y-positioning table for aligned positioning as well as for recording of series of measurements plus analysis of results

#### Performance

**TTTsystem - labtap G8**

With smart measurement-methodology and -equipment

#### ZAP

Z-axis balanced and smooth feeding system with special start-function for easy and faultless operations in laboratories

#### MPT

Integrated manual X-Y-positioning table for exactly controlled handling and TTTsystem-start for faultless measurements

#### TSE Temperatur-Sensor-Equipment

The **TSE\_Equipment** is furnished with a temperature measurement unit incl. optics, fixation handle for evaluation the temperature Delta T and calculation / analysis with WinPCA3.7 (Option)

#### TTT Software WinPCA3

PC-evaluation & analysis software for comparative value observation with allocated storage of definable series of measurements plus an analyser for individual automatic analysis including flexible differentiations of various single- and series of measurement results

#### TTT\_Measurement-Equipment

Please see separate information sheet

#### Application / Features

- For lubricants evaluation & development:
  - of cooling lubricants (WMF), metal processing lubricants and neat and soluble oils (Multiple Evaluation System MES)
  - of sales and distribution arguments (acquisition) and honest customer-support (screening) for best production results & customer's benefit (added value)
  - of quality control procedures for the lubricant production (final-control)
- For evaluation & development of optimized tap tool geometries and tool coatings
- For achievement of optimized production parameters and for analysis of errors and influences (FMEA)
- For process-controlled and safe production regarding quality standard ISO 9000 with quality assessment including protocol

#### Characters / Advantages / Benefits

- Easy and fast handling for faultless measurement results
- With flexible analyser for direct evaluations and interpretations
- Multiple Evaluation System (MES)

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