

## PREPACKAGED SAMPLING KITS

Make the sampling process easier for your customers and the handling process easier for your technicians by offering the Grease Thief Sampling kits. Your customers can enjoy efficient and repeatable sampling with kits customized for specific sampling applications:

- including wind turbines, robot drives, pillow block bearing, electric motor, and gearbox kits.

Handling becomes easier in the lab once the samples arrive, as the uniform one gram sampler becomes an integral solution to streamlined analysis, with no-touch sample preparation for consistency, wear, contamination and oxidation testing.

Sampling Kit



Dies and Substrates

## SPECIFICATIONS

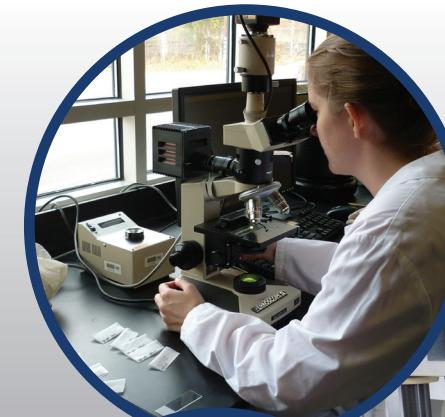
Size(without case) (length x width x height)	31 x 19 x 29 in (82 x 49 x 74 cm)
Weight	125 lbs (57 kg)
Weight (with case)	210 lbs (95 kg)
Power Requirement	110 VAC; 60 Hz; 5.8 A 240 VAC; 50 Hz; 2.7A
Operating Temperature	15 to 27 oC (60 to 80 oF)
Storage Temperature	0 to 50 oC (32 to 120 oF)
Measurement Parameter	Die Extrusion Index (% of new grease)
Sample preparation	Thin-film on substrate, 0.25g sections
Sampling methods supported	ASTM D7718 – Grease sampling
Environmental Controls	Programmable PID microprocessor controller Thermocouple and non-contact radiometer temperature sensors Continuous preheat for up to 12 standby samples
Removable Memory	512 MB SD card
Data output	RS232; 300 to 115200 bps
Display	2.4" 128x64 pixels LCD display with 20 key input keyboard

## CONSUMABLES KIT

This patented technology allows the analyst to avoid the time-consuming process of cleaning grease analysis equipment after each test. A new clean substrate and die are used for each test, eliminating need for cleaning solvents and the chance of cross-contamination of samples. The Grease Thief Analyzer Consumables Kit includes supplies for performing 100 tests, and is packaged with 100 each of substrates and extrusion dies.



## Streamlined Grease Analysis



Supports sampling per ASTM D7718

# Provide Your Customers Valuable Analysis Using Only One Gram of Grease

## Streamlined Grease Analysis

The Grease Thief Analyzer (GTA) provides a streamlined, non-destructive method to monitor in-service grease. With the GTA, you can become an innovative money-saving solution provider for your customers who never thought grease analysis was possible. The GTA allows you to quickly obtain repeatable, representative samples and provide valuable grease analysis data.

The secret is found in the patented Grease Thief® sampling tool. The Grease Thief® seamlessly grabs a representative sample each time from the critical component.



Grease Thief Sampling Tool

## Easy Sample Handling

The Grease Thief® is designed to immediately fit into the GTA for analysis. No additional handling of the grease is required. A die and substrate are loaded into the analyzer. The grease is extruded out of the die onto the substrate. Each substrate is split into sections that hold ¼ gram of grease. The substrates are designed to be placed into vials for dilution or directly inserted into compatible instruments.

Grease Thief® can directly interface with instruments such as the fDM+ and colorimeter for non-destructive data collection.



## The Grease Thief Index(GTI) As a Consistency Trending Parameter

The consistency of grease plays a critical role in its function as a lubricant. Most consistency measurement methods are designed for newly manufactured grease products where there are no constraints on quantity. The instrument measures the force required to squeeze the grease through a disposable plastic die over a programmable speed profile. The GTI is the ratio of this force, to the force of the new reference grease, showing if the grease has softened or hardened

## DATA MANAGEMENT SOFTWARE SOLUTIONS

Grease Thief Analyzer-Data Management Software 3.0 (GTA-DMS 3.0) helps maintain instrument calibration and manage results based on equipment ID. The software outputs reports in .pdf and .txt and can be customized to interface with an existing LIMS. GTA-DMS 3.0 keeps the collection of reference samples in an accessible location to allow for easy comparison to new incoming samples. The results are stored numerically and displayed graphically to facilitate analysis and communication of data. Optional packages include access to agglomerated industry results, available metadata, and statistical averages based on application.

## RELIABLE, REPEATABLE SAMPLES

Grease Thief sampling kits provide the technician with the tools to get a reliable, repeatable sample. The Grease Thief sampling kits help address the most common sampling challenges in Wind Turbines, Robotics, Gearboxes, Electric Motors, or Pillow Block Bearing. The GTA, paired with the sampling kits, integrates the lab process with the sampling process and ensures repeatable seamless flow from the machine to the analyst's desk.

## FEATURES AND BENEFITS

The Grease Thief Analyzer

- Performs up to nine laboratory tests with as little as one gram of grease to analyze for: wear, consistency, contamination and oxidation.
- The patented extrusion die is a device that both evaluates grease consistency and prepares a thin film of grease for analysis.
- The GTA prepares the grease for analysis on existing oil analysis instrumentation including FT-IR, RULER, ICP/RDE and analytical ferrography.
- This streamlined analysis method drives overall production costs down and allows you to offer the most cost-effective analysis options to your customer.
- A PLC Touch Screen
- A Large interior space allows for ample room to work and is temperature controlled at 30 °C so that a continuous stream of samples can be analyzed throughout the day with no downtime.
- A built-in 12 sample heat rack
- Laser guided actuators and a built-in guide block to ensure maximum precision.

