

FERROGRAM MAKER FM-6

The newly redesigned Ferrogram Maker FM-6 dual slide maker is used as the first step in Analytical Ferrography. For greater productivity, the FM-6 is designed with two independent stations permitting two samples to be prepared concurrently.

Each station includes a holder which accurately positions a slide at a slight incline over a magnet, allowing particles to deposit from largest to smallest on a substrate called a Ferrogram. This deposition pattern provides good resolution of large and small particles which facilitates a diagnosis

of potential wear problems. Ferrogram preparation can be done automatically, semi-automatically, or manually at the operator's option. In the automatic mode, the sample is deposited on the Ferrogram at a carefully controlled rate. At the end of the sample deposition cycle, the wash cycle is automatically initiated, and a visual signal indicates completion of the Ferrogram. The semi-automatic and manual modes provide flexibility and further operator control to perform unusual samples, such as water-based lubricants.

ANALYTICAL FERROGRAPH SPECIFICATIONS:

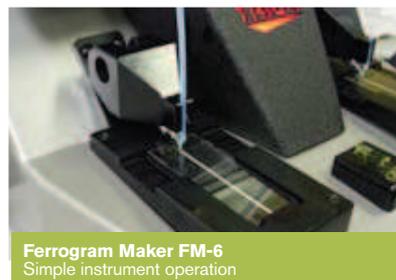
Depth	16"
Width	14"
Height	15"
Weight	27 lbs.
Power	100-240V 50/60 Hz
Comm-Port	4 x USB "A"
Operating System	Windows 7
Memory	16 GB Flash
Ethernet Connection	RJ45 cat 5



Ferrogram Maker FM-6
Simple instrument operation



Ferrogram Slide
Particles distributed largest to smallest



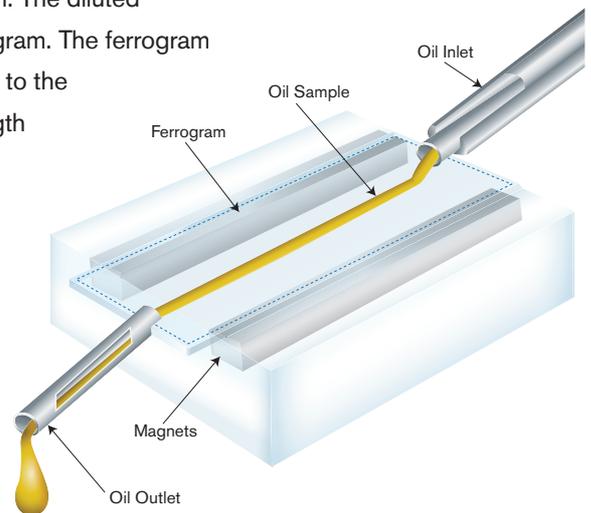
Ferrogram Maker FM-6
Simple instrument operation





HOW DOES IT WORK?

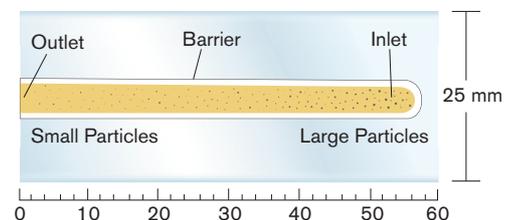
The Ferrogram Maker magnetically separates machine wear debris from the lubricating oil. The oil sample is first diluted for improved particle precipitation and adhesion. The diluted sample flows down a tube on a specially designed glass slide called a ferrogram. The ferrogram rests on a magnetic block, which attracts ferrous particles out of the oil. Due to the magnetic fluid, the ferrous particles align themselves in chains along the length of the slide with the largest particles being deposited at the entry point. Nonferrous particles and contaminants, unaffected by the magnetic field, travel downstream and are randomly deposited across the length of the slide. After the particles are deposited on the ferrogram, a wash is used to remove any remaining lubricant. The wash quickly evaporates and the particles are permanently attached to the slide. The ferrogram is now ready for optical examination using a Ferroscope.



FEATURES:

- Automatic operation releases labor for other tasks
- Adjustable controlled sample flow rate ensuring uniform substrate deposition and reproducibility
- Ferrograms are transparent, allowing differentiation of metallic, organic, and non-metallic particles, for easy diagnosis via the ASTM method
- Particles are sorted by magnetic susceptibility and size enabling quick interpretation
- USB and Ethernet connections
- 7" LCD display with a more modern look and feel

FERROGRAM



BENEFITS:

- Easy-to-use touch screen interface
- New design includes a smaller footprint
- Simple instrument set-up and operation
- Internal diagnostic
- Simultaneously produces two Ferrograms in less than 20 minutes
- Very little particle stacking occurs ensuring observation of important particles, critical to machine condition