

Advantage T-10 Trailer Friction Tester

The **T-10 Trailer Continuous Friction Measuring Equipment (CFME)** has proven to be an outmost reliable tow-behind surface friction tester.

Small trailers have a tendency to bounce or in some instances even jack-knife when being towed, and specially if the surface is contaminated with snow, ice, standing water, etc. These are all examples of conditions that are very likely to be present at an airport during operational conditions. To counter this, and to ensure the safety of the operator these challenges had to be solved. ASFT's solution is to carefully position lead weights, and using a highly sophisticated suspension system. The result is a trailer with high balance, stability, excellent road handling, and reliable measurement.

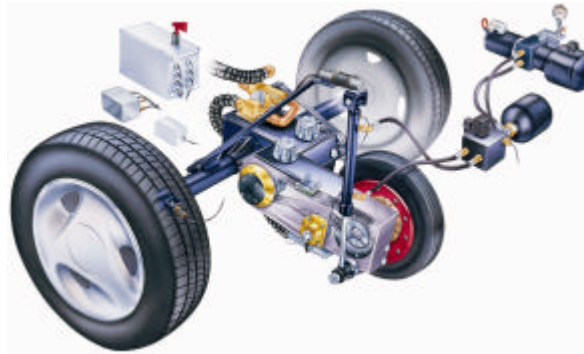
Another great concern have been the measuring speed of small trailers, and especially when the runway is contaminated. At a busy airport the runway friction characteristics may need to be measured several times a day. It is then important that minimum amount of time is spent on the runway for safety and operational reasons. The **T-10 Trailer CFME** can measure with highest accuracy in speeds in excess of 60 mph. This will dramatically minimize the amount of time spent on the runway, and freeing up invaluable operational time for airplane movements.



Self-wetting system:

The **T-10 Trailer Continuous Friction Measuring Equipment (CFME)** can be equipped with a self wetting system. The standard water tank is manufactured in a light plastic material which allows it to be installed easily to any towing vehicle. The tank capacity is 500 liters, but any size can be custom-made.

The Mark IV Rear-Axle System



The **ASFT MK IV** rear-axle is a new generation of surface friction testers based on the highly successful MK II System.

The rear-axle has a third smaller wheel on an arm (transmission arm) attached to it via three chains. This is the measuring wheel. The tyre has a material, shape and a tread which closely resembles those of a normal aircraft tyre. This gives friction readings that closely correlates with true friction values that is received from aircraft operations.

The measuring wheel is not attached to the body or chassis of the trailer. It is only connect to the rear-axle via a spring. This unique design allows the friction wheel to work without any disturbance from movements in the trailer. It also guarantees that the vertical ground pressure is absolutely constant at 1400 N. Independent research have over and over concluded that **ASFT MK IV rear-axle** have among the **best correlation and repeatability** in its industry.

Friction Theory

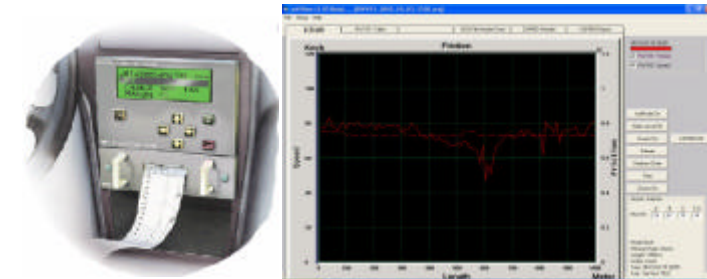
The friction theory reflects the importance of maintaining a solid surface contact pressure. The simplest definition of friction is: The force **F**, needed to tow and object, creating certain pressure **N**, against a flat horizontal surface.

Mathematically the friction coefficient:

$$\mu \text{ (mu)} = \mathbf{F} / \mathbf{N}$$

Mk IV Computer System

Our **Mk IV Computer System** was developed with many criteria's in mind, but to be as **USER FRIENDLY** as possible was the primary objective. This have resulted in an operating system that is unmatched in its industry. The computer can be "tapped" on all, or parts of the measurements to our **ASFT View** compatible software. This is easily done by connecting a laptop or desktop computer to the Mk IV. This will allow for an automated presentation of the measurement in a MS Windows format. The data can also be transferred wireless to a remote location like the operational department for immediate access, and action-taking.



*Achieved design objectives for the **Mk IV Computer**:*

- Completely Menu Driven
- Only 2 Keys to operate.
- Screen and Keys have back lights for operations at night.
- Extra large screen, and fonts.
- Calibrating is quickly done by one person.
- Extremely short learning curve
- CAP 683 Presentation.

We can be reached at the following contacts for more information:

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ASFT Total Quality Management

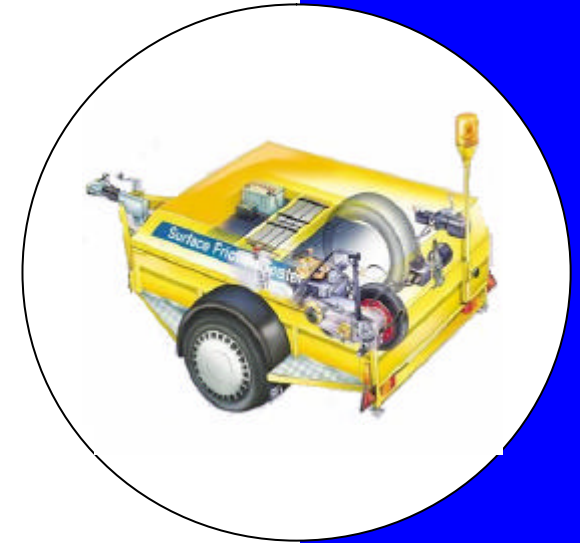
The strategy at ASFT have always been to put our clients in the center of attention. One way to ensure this is by using **Total Quality Management (TQM)**.

We have our own production plant, and Research & Development (R&D). This have resulted in products of unmatched quality and life-expectancy (Average ASFT friction tester is being used for **20 years**). Our Friction Testers have also not surprisingly been found to have among the best repeatability and correlation in the industry.



We continuously strive to do better, and to advance our CFME's with a customer focused approached. That is what we call the:

“the ASFT way”



ASFT the World's Leading
Manufacturer of Continuous
Friction Measuring
Equipment (CFME)



**T-10 Trailer
CFME**