

 **SARSYS**

– for safe takeoff and landing

”In this business,
the safest option
is always best”



■ SVFT-BROSCHYR

SARSYS FRICTION TESTER



– BUILT INTO THE VOLVO V70



SCANDINAVIAN AIRPORT & ROAD SYSTEMS AB
WWW.SARSYS.SE

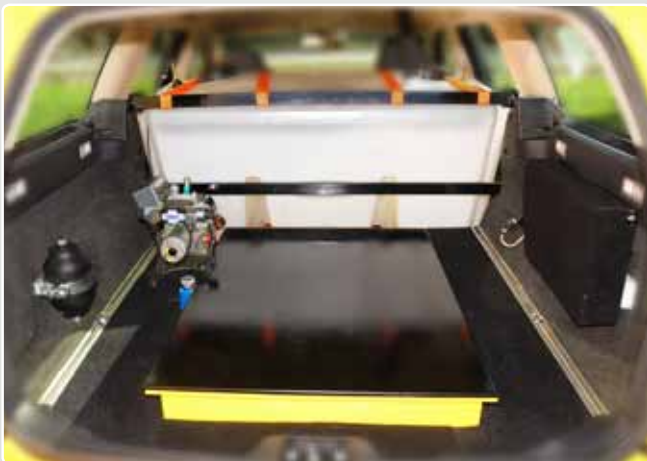
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■ PRODUCT FEATURES**SCANDINAVIAN AIRPORT AND ROAD SYSTEMS AB (SARSYS AB)**

is one of the world leaders in friction testing for airports. SARSYS located in Trelleborg, Sweden. Develops, manufactures and markets different types of friction testing equipment. The SARSYS Team has experience with friction testing equipment since the beginning with SAAB in the 1970's. SARSYS is committed to customer satisfaction and our products are designed to meet present and future needs. With our highly-skilled development and service staff and full control of the manufacturing, we offer the most efficient, modern and lowest lifetime cost friction testers produced in the world today.

MAIN PRODUCT FEATURES (SVFT)

- Measuring programme in accordance with ICAO and FAA
- Approved by FAA and SCAA (Sweden)
- Modern technology and operational efficiency
- Excellent ergonomics, fingertip control
- Outstanding manoeuvrability
- Total operator comfort
- Easy service and maintenance
- Windows based measuring computer

**SARSYS VOLVO FRICTION TESTER (SVFT),**

built into the Volvo V70, is one of the most advanced friction measuring systems on the market. It is primarily designed for friction measuring on airport runways and taxiways, but can also be used for measuring on roads.

The SVFT is programmed to measure in accordance with regulations issued by authorities such as the ICAO and FAA and is designed for both operational and maintenance measuring.

The Volvo V70 is a high-performance front-wheel drive car offering excellent manoeuvrability in combination with a good weight class working environment for the operator.

The large space in the back provides unimpeded access to the measuring system, making service and maintenance work easy and comfortable. There is still room for a good load of extra equipment, such as spare wheels, tools etc., a valuable feature when a number of airports are to be visited for regular maintenance measuring.

An important guideline for the design of the SVFT has been to make full use of the prime advantage of self-contained configuration: Speed and smoothness in operation.

"Where experience and knowledge goes without saying"



The entire measuring system is contained within the car with unchanged driving qualities and without need to hook up a trailer.

In the operational situation, the vehicle is immediately available for a measuring run and a runway friction report is also available to airport operations or to traffic control within just a few minutes after the start of the run.

The speed of the reporting can be further increased by using a freewave modems transferring the measured data directly to a PC at the receiving end.

For measuring on wet runways, stipulated for maintenance measuring, the SVFT is available with a water system. Its water tank has a volume of 580 litres, sufficient for 7000 metres (23.000 ft) of runway with a 1 mm water layer.

The measuring wheel can be fitted with a standardized measuring tyre, as stipulated by ICAO and FAA for this type of measuring.



TECHNICAL DATA AND PERFORMANCE

Speed

Maximum measuring speed:	165 km/h (100 mph)
Minimum measuring speed:	25 km/h (28 mph)
Normal measuring speed:	95 km/h (60 mph) 65 km/h (40 mph)

Measuring tyre 4.00-8"

For operational measuring:	High pressure tyre "Unitester"; 700 kPa (7 bar, 100 psi)
For maintenance measuring:	Low pressure tyre: ASTM E1551 200 kPa (2 bar, 30 psi)

Base car tyres:

Suitable dimensions:
205/65 R 15 or
215/55 R16

Slip ratio, measuring:

15% with new measuring tyre and new car tyres can vary from 13% to 17% depending on the rate of the tyre wear.

Temperatures and humidity Temperature limits, computer:

Max. operation temp. +45 °C
Min. operation temp. -25 °C
Max. storage temp. +60 °C
Min. storage temp. -25 °C

NOTE: This is a preliminary specification and may be changed without notice





■ **THE COMPANY**

**SARSYS
SCANDINAVIAN AIRPORT AND ROAD SYSTEMS AB**

DESIGN PHILOSOPHY

An important guideline for the design of the SARSYS Volvo Friction Tester (SVFT) has been to keep the design of the base car as unchanged as possible and we have succeeded in doing so. The whole platform with its suspension, fuel system and ABS brakes is intact. This is of utmost importance for the performance of the car as well as the warranty issue. Even small changes will completely destroy the excellent road holding, which is one of the watchwords for Volvo cars and needed for the Friction Tester's ability to give correct measurements in any condition. The only change to the body structure is the well in the floor in the luggage compartment. Our design of the well reinforces the platform instead of weakening the car structure.

RELIABILITY

SARSYS Volvo Friction Tester (SVFT) is an extremely reliable unit. The design is based on more than 30 years of experience when it comes to friction testers for airports. We have combined our senior design team's extensive experience with the latest advances, coming from our younger generation of designers. All material and components are of the highest quality and carefully tested to give the unit a long operational lifetime with minimal repair and maintenance. This is of great importance in keeping the cost for the operation at a minimum.

SERVICE AND SPARE PARTS

Even with a top design and excellent back-up from VOLVO Automobile worldwide, all types of mechanical, hydraulic, computer and electrical designs need to be serviced. We have paid a lot of attention to make that as simple and inexpensive as possible over the operational lifetime. Our dedicated service team is prepared to give customers professional back-up whenever and wherever it is needed. We also have a well-stocked spare parts store in Sweden, from which we can deliver any parts needed for a smooth and undisturbed measuring cycle.

