

Your Partner for Landmine and UXO Detection



Features

FOERSTER MULTICAT:

- * Multi-sensor system with gradient-magnetometer technology
- * DGPS-capable
- * Rugged, 2-wheeled vehicle made fully of non-ferromagnetic material
- * Low weight of only approx. 138 kg
- * With effective probe protection and adjustment system
- * With various trailer coupling systems
- * With broad track width of 2 m with alternative probe spacing 0.25 or 0.5 m
- * For detection speeds of up to 10 km/h
- * Compact transport dimensions for transport in station wagon or estate car
- * Easy operation and fast, simple assembly without the need for special tools

Application

FOERSTER MULTICAT is the high-performance, economical trailer vehicle for large-area detection, localisation, identification and mapping of ferromagnetic historical burdens and UXO (= Unexploded Ordnance).

Restoration of contaminated ground areas is increasing continually in importance. Freeing such areas from historical burdens, some of them of military origin in the form of ammunition and ammunition components, takes up an essential share of the overall effort involved in re-cultivation.

For these reasons, FOERSTER has developed its MULTICAT which can be used efficiently in three main fields of application:

- Localising and mapping unexploded ammunitions and ammunition components (UXO)
- Quality control in combination with a mine-clearing hoe, involving automatic localisation of undetonated or inadequately shattered ferromagnetic mines and UXO
- Quality control and documentation after clearance.



FOERSTER MULTICAT equipped with 4 FEREX probes and GPS antenna



FOERSTER MULTICAT, view onto the foam marking system

Technology

FOERSTER MULTICAT has an entirely non-ferromagnetic design. It is equipped with gradient-magnetometer sensor technology. The standard complement is 4 probes that can be upgraded to 8 probes.

The probe spacing is 0.25 or 0.5 m depending on the size and type of smallest UXO to be detected. The scanning width of a system is 2.0 m.

FEREX 4.032[®] PNC provides power supply and signal AD-conversion for up to 4 probes. Up to 4 FEREX PNC can be combined and controlled centrally via a PC running the DATAMONITOR software.

An area is scanned without omission in tracks between a start-of-area line and an end-of-area line, using an optional foam marking for track navigation. On systems featuring a DGPS for data recording and mapping, the area can be scanned following any tracks. A travel direction indicator on the PC/laptop display serves as a navigation aid. The travel speed during data recording may be up to 10 km/h.

The FOERSTER MULTICAT is designed to be used in any terrain suitable for wheel-driven vehicles.

Evaluation and documentation

The magnetic field values measured by the differential magnetometer are recorded in the PC/Laptop.

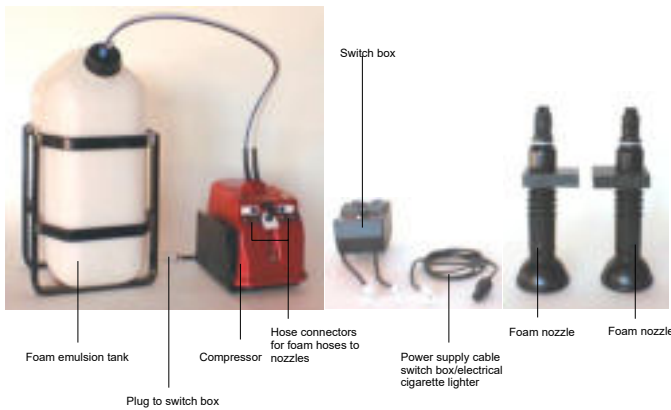
The DATA2LINE[®] evaluation software completes the system.

This software generates object lists with all relevant object data and colour-coded object maps of the scanned area. It offers various features including Geo-referencing, Data-Visualization, Project handling and many more.

The "DATA2LINE 4.810" leaflet provides detailed information on the convenient, practical and extensive evaluation, computation, identification and documentation options

Technical data

FOERSTER MULTICAT	
Dimensions (assembled)	Width x Length x Height 2.50 x 5.10 x 0.9 m
Dimensions (packed for transport)	2.30 x 0.90 x 1.3 m
Weight	approx. 138 kg
Travel speed	max. 10 km/h (7 mph)
Foam marking with: Emulsion tank Compressor Hose and nozzle system Switch box	A full 20 dm ³ tank suffices for approx. 2 h use; the foam remains in place for approx. 1 h, depending on atmospheric conditions
Equipment complement: Probe type used Number of probes used Probe spacing Scanning width Probe power supply and signal AD-conversion	FEREX probe CON 650 4 (standard), can be upgraded to 8 0.25 or 0.5 m 2 m FEREX 4.032 PNC (Probe Network Controller) 4-channel standard; can be expanded up to 16 channels
Data sampling and vehicle navigation:	PC with DATAMONITOR software
D-GPS support	On request.



Foam marking accessories



Foam-marked tracks

For support please contact:

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