

## It's a minefield

Trusted, tough and dependable – three words that best describe the **Schiebel** range of hand-held mine detectors.

**M**ine clearance personnel need and demand the best equipment available so that they can use it anywhere with confidence, including the frontlines of military and civilian mine clearance operations. With Schiebel mine detectors they can search effectively for landmines and unexploded ordnance (UXO) in safety.

### Trusted

Schiebel's detectors have been continuously used in a wide range of mine clearance operations since the first military standard detector, the AN-19/2, was fielded 20 years ago. This model was selected for the US military (designated AN-PSS 12) and it is still used and trusted today.

### 'Mine clearance personnel need and demand the best equipment available.'

Trust and confidence in the equipment is established early in operator training. The detector's simple calibration, testing, operation and proven search techniques, are quickly learned, allowing the operator to gain confidence in his capability and the operational procedures. A huge advantage to operators is knowing that if they follow correct procedures they will always be safe; even in the unlikely event of an equipment failure, as Schiebel detectors always enter 'safe mode', with continuous tones and warning tones that operators can recognise with ease.

'Best practice' procedures have been established over many years and are very much a part of the continuing Schiebel story. It is normal for the company to have close working relationships with its customers and over the years much data has been exchanged, operational and technical difficulties have been overcome and customer advice has been used to improve successive generations of detectors.



ATMID has proved itself most effective in the detection of minimum metal mines in a wide variety of conditions.

### Tough

The detectors have always been manufactured to the very high standard required for military use, where operations are often conducted in extreme climatic conditions and rugged terrain. The essential strength and integrity of construction has been achieved with a lightweight configuration that facilitates extended periods of operation, whilst maintaining operator comfort, an important aspect for operator health and safety.

Civilian clearance organisations, both humanitarian and commercial, need the same high standards as those of the military. Often, civilian clearance is conducted continuously, month by month, year by year; so in fact, the requirement for a robust and long-lasting detector is in many ways a most important aspect of their selection process.

### Dependable

Schiebel detectors are considered by their users to be highly dependable and reliable, and simple operator maintenance will ensure that the detector remains in continuous perfect working order. Whether it's the AN-19/2, or the MIMID (miniature mine detector) a belt-mounted detector designed to meet a wide variety of special requirements, including underwater tasks, or the most versatile ATMID, all have the dependability required to maintain operator trust and confidence for all applications.

Reliance on dependability also extends to the people for whom the land is being cleared. They can depend on the clearance teams using our detectors.

As an example, the famous Angkor Wat complex in Cambodia, which was 'infested' with landmines, was completely cleared using Schiebel detectors, without accident. Millions of people have been able to enjoy the special Angkor experience as a result of that operator/detector dependability.



MIMID is designed to meet a wide variety of special requirements, including underwater tasks.

### ATMID (all-terrain mine detector)

ATMID (all-terrain mine detector), now the preferred detector for many civilian/humanitarian mine clearance organisations, has been in service for over ten years. It was designed to meet a variety of customer requirements, including a lot of customer input. Whether used by civilian or military units, it has proved itself most effective in the detection of minimum metal mines in a wide variety of conditions.

At a customer request, ATMID was specifically designed to operate effectively in heavily mineralised soils, but it can also be used in the standard AN-19/2 mode if required; in this mode it has the improved detection capability and signal quality of the latest AN-19/2. All generations of ATMID (and AN-19/2) have standard operating procedures, which means that, after upgrades there is little need for retraining, which helps to retain operator trust and confidence in the handling and operation of the system. Additionally, upgrading existing AN-19/2 to the latest standard extends the working life of the detectors for minimum cost.

### VAMIDS (vehicular array mine detection system)

Advanced Schiebel hand-held mine detection technology has been incorporated into a vehicle-borne search-detect-and-mark system. VAMIDS is a versatile, cost-effective system that can quickly locate mines on roads, tracks and open country. The system is capable of operating at speeds of up to 10km/h while providing real-time detection.

The complete system is modular, comprising a military standard rugged control unit, a segmented flexible array, a system console and an optional marking system. The 1m segment detection heads overlap to eliminate any potential blind spots and they can be arrayed from 1m to 6m of uninterrupted ground coverage (3m is optimal).

VAMIDS can be easily mounted on any vehicle, preferably one that is mine protected. Although the system is designed to be used along established routes, it has a cross-country capability, dependent on the terrain and vehicular platform.

In addition to its mine detection role, VAMIDS can be used for mine clearance verification in a quality assurance role and its features include:

- high sensitivity and resolution, allowing instant target detection and precise position indication



VAMIDS is a versatile, vehicle-based detection and marking system.



Schiebel's VTOL CAMCOPTER S-100 can be outfitted with special sensors to detect improvised explosive devices (IEDs).

- flexible arrays that assure continuous ground coverage, even on undulating surfaces
- highly wear-resistant drawbeds for long durability on all kinds of terrain
- configuration, set-up and diagnostics reporting incorporated into the system console.

VAMIDS has a high probability of detection, thus providing the operator with the necessary level of confidence, safety and protection.

### The Schiebel story continues

Schiebel's objective is to provide cradle-to-grave support for its users and to utilise its experience to improve detection capability and techniques for all concerned. Strong customer support has always been part of the Schiebel mine detector story and is a major factor in its success.

Schiebel technicians provide close support to customers in the form of advice and training, which can be provided anywhere, anytime; this furthers the close relationship between Schiebel and the field operatives responsible for using the equipment and conducting their own training programmes.

In partnership with customers, trials have often been conducted in live mine clearance areas, where data has been gathered for specific ground conditions and mine types. Such research has been invaluable in the ongoing process of design and manufacture. ○

#### COMPANY INFORMATION

Founded in 1951, the Vienna-based Schiebel Group of companies focuses on the development, testing and production of state-of-the-art mine detection equipment and the unrivalled CAMCOPTER S-100 unmanned aerial vehicle system. Schiebel has an international reputation for producing quality defence and humanitarian products, all backed by exceptional after-sales service and support. All products are quality controlled to meet ISO 9001 standards.

With headquarters in Vienna, Austria, Schiebel maintains production facilities in Wiener Neustadt, Austria, and Abu Dhabi, UAE, as well as offices in Warrenton, VA, USA, and Phnom Penh, Cambodia.

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