



MINING ROAD SHOW TO SOUTH AFRICA

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THE ISRAEL EXPORT &
INTERNATIONAL COOPERATION INSTITUTE

The Israel Export & International Cooperation Institute

www.export.gov.il

The Israel Export International Cooperation Institute is your premier gateway for doing business with Israeli companies. IEIC's expertise in technology and product scouting, joint ventures and strategic alliances with Israeli companies spans more than half a century.

The Water Sector at the Israel Export Institute promotes the Israeli technological innovation and assists companies in penetrating global markets by providing professional information, drafting business plans, creating business partnerships, assisting in finding business opportunities and business contacts, organizing incoming and outgoing delegations, participating in exhibitions and international conferences around the world and marketing activities with the support of commercial attaches and professional consultants from around the world.

Aviv Berkovich
Manager, Water Sector
Tel: +972 3 514 2817
Email: avivb@export.gov.il





Ministry of Economy and Industry
Foreign Trade Administration

Foreign Trade Administration, Ministry of Economy & Industry







The Foreign Trade Administration (FTA) at the Israeli Ministry of Economy and Industry, manages and supports Israel's international trade and trade policy by promoting trade and exports, initiating and maintaining trade agreements, attracting and facilitating foreign investments and creating strategic cooperation with foreign companies. Through our headquarters in Jerusalem together with over 40 economic and trade missions in key financial centers throughout the world, the FTA promotes Israel's economy worldwide.

Israel's economic and trade missions are at the forefront of the Israeli government's efforts to boost our industries in foreign markets. Our team of highly experienced economic representatives and business consultants provide a wide range of services to Israeli companies and to the international business community.

Amit Lev, Trade & Investment Commissioner
Head of Trade & Economic Mission
Embassy of Israel to South Africa
Tel: +27 72 523 9435
Email: Amit.Lev@israeltrade.gov.il



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AMS Technology Ltd.

www.amsmembrane.com

Profile at a Glance

AMS develops and markets chemically and thermally stable ultrafiltration (UF) and nanofiltration (NF) membranes. These membranes represent a technological breakthrough through significant improvement in the economics of inorganic compounds recovery. AMS offers a complete product line of extreme acid, alkaline, solvent, thermal and pressure stable membranes. Our core technology adds significant value in various applications and industries through cost savings, improved recovery rates, greater acid/alkali/solvent supply reliability and environmental benefits. AMS focuses on the most appealing customer-based industries. Our primary focus is on Mining & Metals and industries with harsh operating environments such as: Pharmaceutical, Pulp, Rayon, Dairy and Chemicals.

Products & Technologies

AMS Technologies offers an extensive line of innovative acid-stable, alkaline-stable and solvent-stable nanofiltration and ultrafiltration membranes with elements for use in the respective media. The company's state-of-the-art chemically- and thermally-stable NanoPro and UltraPro membranes are applicable to a wide range of industrial separation applications.

Our technology enables state-of-the-art UF and NF membrane integrated parameters (acid, solvent, temperature and pressure stability) that are superior to competing polymeric membranes on the market, while still maintaining high performance of flux and rejection.

All our products are packaged in a spiral wound configuration of 1.8", 2.5", 4" and 8" diameter and available with different feed spacers as well as a variety of components suitable for working in harsh environments.

Company's Goals

AMS has clear objectives such as to continue its growth path of 25% annually, extend its international client base and provide.





Profile at a Glance

Arrow Operations and Technologies is a 30 year old company that specializes in the treatment and recycling of industrial sludge, wastewater and hazardous materials using unique, tailor-made, safe and eco-friendly technologies and applications. Arrow's advantage over its competitors is the vast knowledge and know-how it has acquired during the last thirty years with its staff of chemical, biochemical, and mechanical engineering personnel, along with its unique tailor-made robotic systems and cost-effective physio-chemical and biological processes.

Products & Technologies

Arrow Operation and Technologies designs and manufactures its own unique solution. Arrow's solutions include: - The Predator Series- A unique robotic barge suited for sludge pumping in harsh conditions and environments, especially designed for mining sludge, stored in lagoon, tanks and tailings. The Predator comes with a variety of possible accessories and surrounding systems for various purposes. - The Hunter Series- A robotic ROV, undercarriage driven, designed for sludge pumping in complex structures and situations such as cooling towers, tanks, concrete lagoons, and more. - Various filtration and separation systems and facilities for sludge and wastewater pre-treatment and treatment, both stationary and mobile. Our solutions include recycling of raw materials from the sludge, re-use of process water and more.

Company's Goals

Arrow's goal is to achieve the highest level of efficiency in the treatment of industrial sludge, with the most safe, efficient, advanced and eco-friendly solutions.





Atlantium Technologies Ltd.

www.atlantium.com

Profile at a Glance

Israel is naturally a very dry country, and every drop of water is precious, making it an ideal place to conceptualize and develop a revolutionary new UV water disinfection system. In 2003 Atlantium Technologies Ltd, commercialized a new UV Technology based the Fiber Optic Principle (HOD). This enabled a simple design, to be very effective at disinfection, and also very energy efficient, due to the recycling of UV Light. Atlantium's headquarters is located in the foothills of Jerusalem, Israel, with offices in the US, West Europe, Latin America and China and a wide deployment of distributors worldwide. Industries using this technology are: Beverage, Drinking water, Cooling Water, Municipal Water, Sewage Recycling etc.

Products & Technologies

Atlantium Israel's Hydro-Optic Disinfection (HOD) UV equipment is now used in diverse applications to achieve results previously not possible with standard UV systems:

- Chlorine replacement in beverage industry to meet US EPA Protocols for high level disinfection performance
- Eliminating Macro & Micro fouling of river water intakes for Hydro-power cooling water systems
- De-chlorination and disinfection of water for RO Membrane Plants
- Disinfection of recycle Sewage water
- Very efficient Final disinfection of potable water for all applications
- Replacement of steam pasteurization of water in the US Dairy Industry

Company's Goals

Atlantium's goal is to dominate the high integrity water disinfection market with energy efficient, low maintenance equipment in all sectors of the water use cycle.





Librimind

www.librimind.com

Profile at a Glance

Librimind is an AI-driven software platform, which helps mining companies to meet production targets safely and sustainably.

Products & Technologies

Librimind is an operation management platform, which empowers users with a full step-by-step scenario to achieve production target, with explanations for the manual review and feedback. We do this by integrating with existing software platforms and existing sensors, in a plug&play way, and generate the optimal scenario to operate the equipment safely and efficiently. Librimind solution can be easily adapted to all metals and equipment of different vendors, which makes it unique both in the mining and in the industrial market.

Company's Goals

Librimind goal is to help industrial companies meet production targets and reduce environmental footprint.





Magos Systems Ltd.

www.magosystems.com

Profile at a Glance

Magos presents a completely revolutionary solution in civilian security. We offer cost effective, high resolution cutting edge staring radars which provide 24/7, 360° coverage of any protected site.

Products & Technologies

SR250 Detects targets up to 250 meters and covers 30 acres
SR500 Detects humans up to 400 meters and vehicles up to 600 meters; covers 60 acres
SR1000 Detects targets up to 1000 meters and covers 120 acres
MASS Control Suite
Integrates Magos radars with PTZ cameras and VMS

Company's Goals

Magos aims to introduce ground breaking performance into the civil security market using state of the art cost effective radar technology.





Profile at a Glance

Mapal provides aeration solutions for both municipal and industrial WWTP that need extra oxygen for the biological process in order to overcome flow and load increase, malfunctioning of the existing aeration system or odor problems. Mapal's unique fine bubble aeration systems are fully retrievable (floating & non-floating) and can be employed for aerating biological reactors or lagoons. Mapal's aeration systems are suitable for turnkey projects, upgrading existing plants and introducing additional oxygen to existing aeration systems on a purchase or rental basis. Mapal has successfully completed more than 80 installations worldwide, including the UK, Australia, South Africa, Brazil, Indonesia and Israel. Applications include municipalities, oil refineries, chicken abattoirs, pulp and paper, food & beverage, semiconductors and detergents industry. Mapal's valued clients include Thames Water, United Utilities, McCain Foods, Sappi Paper, AFGRI, Foz do Brazil, Intel, Goulburn Valley Water and the Jerusalem municipality.

Products & Technologies

Mapal's fine bubble aeration systems can be installed in any lagoon or reactor, and can upgrade any biological reactor where it is not possible to drain or to stop the process for installation. Furthermore, in order to install Mapal aeration units, there is no downtime, shut down of the reactor, the installation is done in live and working reactors or lagoons with no interruption to the treatment process during the installation, hence, there are no operational and/or H&S risks. A complete system is supplied with blowers and piping. Mapal aeration systems are modular, each unit is able to work independently, making the units easy to replace/add/remove when required.

Company's Goals

Magos aims to introduce ground breaking performance into the civil security market using state of the art cost effective radar technology.





Octopus Systems

www.octopus-app.com

Profile at a Glance

Octopus Systems is a software company that has developed an integrated safety and security management platform for large organizations and critical infrastructure, which provides them with all the necessary tools for managing all their assets, technologies, people and procedures, safety, risk and compliance, all from one integrated command and control system together with a mobile app! Octopus works under 9 different ISO's and is certified for GDPR. Company won multiple international awards for its platform. Our solutions are deployed in organizations in the field of oil and gas, mining, power and utilities, seaports, airports, and other critical infrastructures.

Products & Technologies

The OCTOPUS platform fuses together all of the organization's systems, sensors, components, communications, IoT, and data sources, in order to correlate and automate system operations, streamline and improve efficiency and responsiveness, which results in driving down the number of incidents, operational costs, and incident related damages, while driving up incident response, cross-functional collaboration, standardization and compliance. Octopus' safety management system allows organizations to carry out safety and compliance audits and assessments, via a mobile app, which can be used either online or off-line in mines. System is used for compliance management, for mitigating risk and for identifying areas of poor performance. Octopus' main products are:

- Safety management system
- Integrated command and control
- Incident management system
- Mobile app for employee communications, distress, and dispatch
- Building management system with preventive maintenance
- Multimedia management system
- Visitor/Supplier management system
- 8. SIEM cyber event management

Company's Goals

To assist large organizations in reducing safety and security associated costs, to reduce risk and to save on manpower costs by automation. Octopus aims to improve the organization's operations, performance, and allow it to control and oversee everything from the top down.





PERCEPTO

Percepto

www.percepto.co

Profile at a Glance

Percepto's fully autonomous drone technology is the next-generation solution for large-scale enterprises, providing companies with improved security, decreased safety risks and reduced operation costs.

Products & Technologies

Our autonomous drones are powered by computer vision applications and capable of performing multiple security, safety and inspections missions using a 24/7 onsite drone-in-a-box station. Percepto's management platform allows for schedule, real-time and remote drone operations without the need for a pilot

Who are we? Based out of Israel, Percepto employs machine learning and drone experts with years of experience in the private (military and defense) and public sectors. Our team of robotics and AI experts continues to redefine fully autonomous aerial systems. We bring real time vision, advanced AI technology and management software together to deliver a high-quality solution for commercial applications.

Company's Goals

Our goal is to increase site productivity and reduce operational costs and risk for mining companies. We can conduct multiple missions in mines such as: Security, safety, stockpile survey, 3D mapping, tailing dam survey, pre and post blast surveys, haul road inspection and more. We would like to meet decision makers in mines from departments such as: Innovation, security, O&M, engineering etc.





Profile at a Glance

Raphael Valves Industries Ltd, founded in 1949, part of Talis Group, is a manufacturer of quality control valves. Since then, RAPHAEL is leading the international market valve industry with its wide and innovative product range. RAPHAEL constantly strives to introduce new and innovative products and solutions for water control systems including waterworks, sewage, Mining, irrigation, and industry specific. All products are subject ISO 9001-2008 quality control and pass strict pressure tests in the company's testing plant during manufacture and assembly.

Products & Technologies

RAPHAEL's product range includes hydraulic control valves, butterfly valves, gate valves, check valves and other products.

Various coating technologies including epoxy, Rilsan (Nylon 11), enamel, give the ability to supply high quality protection for special applications.

RAPHAEL's R&D department constantly strives to introduce new and innovative products and solutions for water control systems including waterworks, sewage, irrigation, and industry specific. All products are subject to strict quality control and pressure tests in the company's testing plant during manufacture and assembly and audited by SII.

Company's Goals

Using state-of-the-art technology, we will provide humanity with a renewable source of high-quality drinking water, extracted from the air, making it available anywhere, on demand and at a reasonable cost.





Profile at a Glance

SENTRO TECHNOLOGIES is an international products and service provider with a strong foundation of best-practice engineering and technological innovation. Our goal is to supply high-standard Innovative water solution products and industrial cleaning services to Refineries, Petrochemical Plants, Power Plants and other plants worldwide. Our aim is to provide unique, value-added technological solutions to our worldwide customers.

Products & Technologies

AUTOMATED TUBE CLEANING SYSTEM - ATCS

Innovative Automated Tube Cleaning System for heat exchangers.

- Energy savings of up to 30%
- Elimination of costly downtime
- Extension of capital equipment life-cycle
- Optimization of heat transfer performance

COOLING TOWERS WATER CONDITIONING - SRCT

Electrolytic systems for water disinfection and scale removal.

- 100% Chemical free
- 100% Re-use of chemical-free water
- Up to 50% savings of water
- Up to 30% energy savings in industrial processes using heat exchangers
- Increase plant uptime

Company's Goals

Sentro Technologies goal is to supply high-standard Innovative water solution products and industrial cleaning services to Refineries, Petrochemical Plants, Power Plants and other plants worldwide. Our aim is to provide unique, value-added technological solutions to our worldwide customers.





Trackimo

www.trackimo.com

Profile at a Glance

Trackimo develops various personal safety and asset tracking solutions, with the most cost-effective, compact devices combining GPS WiFi and Bluetooth for indoor and outdoor location, and a global GSM/IoT service. With trackimo you can locate and track any person, vehicle or valuable equipment in seconds, using web or apps, and get alerts through multiple channels. Trackimo's cloud-based API enables integration to multiple security and tracking systems. Trackimo provides extensive integration and white-label options to partners and distributors. Trackimo technology is developed in Israel with subsidiaries in Europe, USA, and China.

Products & Technologies

Trackimo provides unique solutions for personal safety and asset tracking, combining powerful GPS, WiFi and Bluetooth technology with worldwide cost-effective GSM communication. It is more accessible, personal and useful than any other tracking solution. Recently introduced products add support for LWPA/LoRA and NB-IoT. Trackimo's high quality reliable devices are operated through a global, cloud-IoT platform, which also provide multiple API and integration tools.

Company's Goals

Provide reliable and cost-effective solutions of tracking and safety of workers, equipment and assets for the mining industry.





Watergen Ltd.

www.watergen.com

Profile at a Glance

Watergen is an award-winning developer of Water-from-air solutions. Our cutting-edge and patented GENius technology provides a renewable source of fresh and pure drinking water by extracting it directly from the atmosphere. Requiring no infrastructure other than an electricity supply, our units produce from 25 liters to 5,000 liters per day, making it a suitable solution for every community size from cities, villages, commercial centers, schools, and hospitals to offices, residential buildings and private homes. Each of our units includes a multi-barrier air filtration cascade, ensuring that the water generated is of high quality, regardless of air quality.

Products & Technologies

Air is drawn into the Watergen atmospheric water generator, where it is thoroughly cleaned, removing any dust and dirt and leaving only pure air in the system. The clean air is then directed through the GENius™ heat exchange and cooling process, bringing it to its dew-point - the temperature at which condensation occurs - to create water. The water is then channeled through a multi-stage filtering system to remove impurities, add minerals, and maintain its health properties and fresh taste. When the water reaches premium quality, it is either stored in a built-in or external reservoir where it is kept fresh through continuous circulation, or connected to the water grid of buildings, neighborhoods and cities, delivering clean water directly to residents' taps.

Company's Goals

Using state-of-the-art technology, we will provide humanity with a renewable source of high-quality drinking water, extracted from the air, making it available anywhere, on demand and at a reasonable cost.





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