

# IDEF 2023 by Numbers: Over 5,000 Bilateral Meetings, 141 New Collaboration Agreements

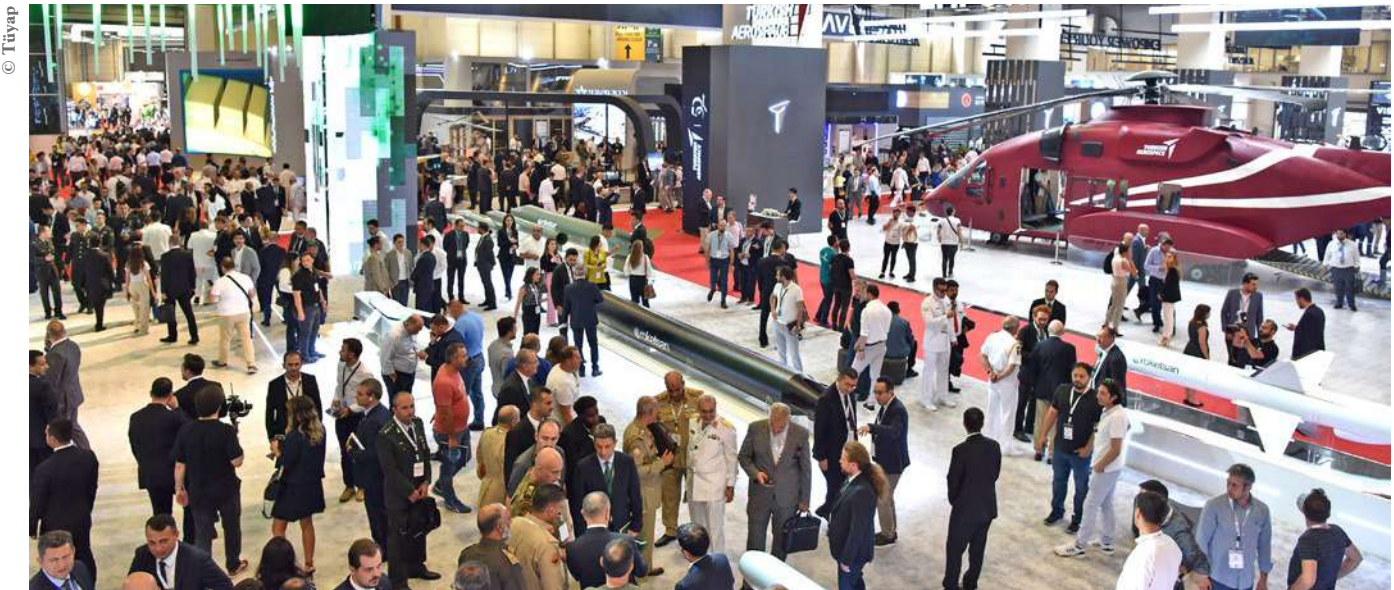
IDEF 2023, one of the world's most comprehensive defence and aerospace exhibitions, broke its own record with 1,461 participating domestic and foreign companies and nearly 100,000 visitors. A total of 5,397 bilateral meetings were held between participating companies and delegations during the fair, along with 141 signing ceremonies. The total reported project value of contracts signed at IDEF 2023 was ₺56.4 billion. Unlike previous IDEF exhibitions, a closing ceremony was organised for the first time this year, with President Recep Tayyip Erdoğan gracing the closing ceremony and touring the company booths to receive information about domestic defence capabilities and technologies. President Erdoğan stated the following: "We are proud of our success at IDEF 2023, marking a milestone for Türkiye. We are now setting sail for even bigger goals starting today."



© Presidency of the Republic of Türkiye

President Erdoğan stated that IDEF 2023 marked a milestone for Türkiye.

*In this second and last part of the "IDEF Special Dossier" that we prepared for one of the most important meet-ups for the defence and aerospace sector, MSI TDR presents the echoes of the fair made across Türkiye and the world, evaluations from both visitors and participants and the aims and goals of Turkish defence and aerospace sector and its representatives.*



© Tüyap



President Recep Tayyip Erdoğan toured the company booths at the closing ceremony, receiving information about domestic defence capabilities and technologies.

© Presidency of the Republic of Türkiye



## Closing Ceremony Held for the First Time

A closing ceremony was organised for the exhibition's 16th iteration for the first time. IDEF 2023 was held under the auspices of the Presidency of the Republic of Türkiye, hosted by the Ministry of National Defence, supported by the Defence Industry Agency, under the responsibility and management of the Turkish Armed Forces Foundation, organised by TÜYAP Fairs and Exhibits Organisation Inc., and the final day of the 4-day exhibition was the stage for the fair's closing ceremony. President Erdoğan emphasized his desire to be present at the closing ceremony, as he participated in the opening ceremony via a video message. President Erdoğan thanked the participating companies as well as the supporting institutions for the event and highlighted the importance of close cooperation between the public and private sectors. He then acknowledged the great interest in the exhibition this year, and stated the following:

### "IDEF 2023 Marks a Milestone for Türkiye"

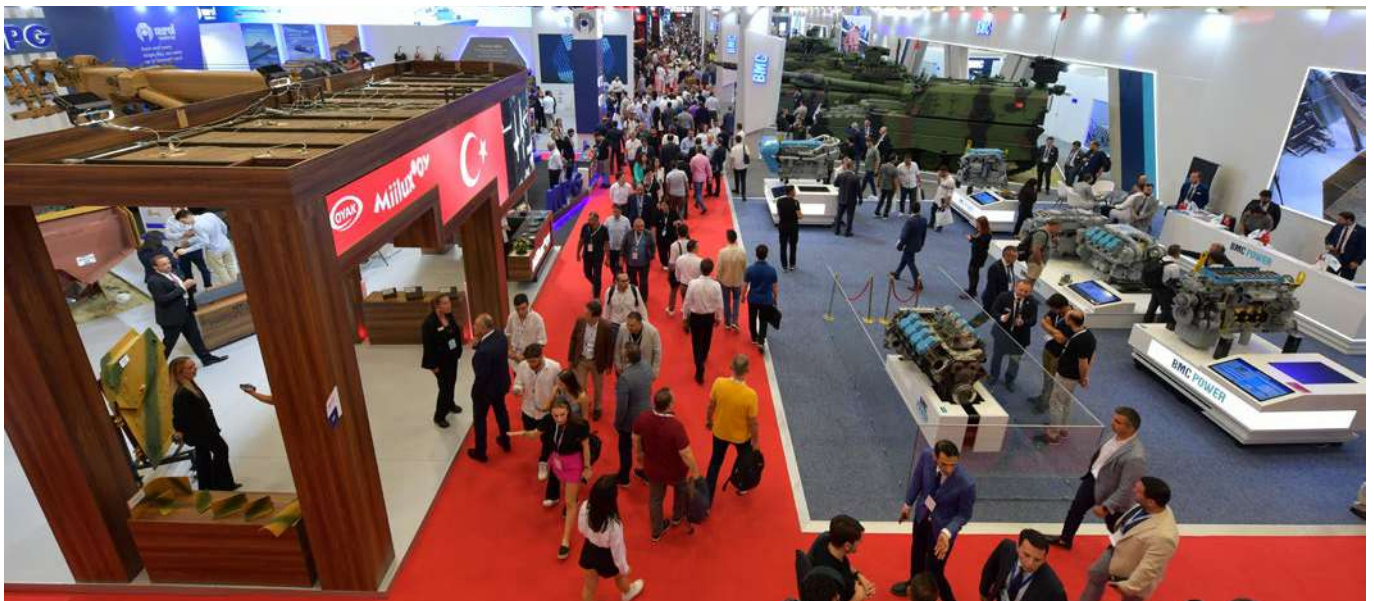
"Over 30 years, IDEF has become a global brand and the beating heart of the sector. This fact is an important

achievement for Türkiye, which was proven once again by the expanding range of our products, in addition to the number of participants and companies. During the exhibition, almost 200 systems and subsystems in different categories were unveiled, showcasing the latest achievements for the Turkish defence industry. IDEF 2023 was also very productive in terms of business connections. So far, 5,000 business meetings have been held between participant companies, foreign delegations, and Turkish procurement companies. Additionally, 120 collaboration protocols and contract signing ceremonies over the four days of IDEF. We are proud of our success at IDEF 2023, marking a milestone for Türkiye. We are now setting sail for even bigger goals starting today. We have two years ahead of us, and we will use this time as effectively and productively as possible, with the combined forces of both the public and private sectors."

### IDEF 2023 in Numbers

This year's fair, held across 14 exhibition halls and 145,000 square metres, featured:

- 1,461 companies from 55 countries active in defence, security, maritime, and aerospace



© MSI TDR



Yaşar Güler, Minister of National Defence, visited the company booths and received information on the defence technologies under development from company officials.

sectors, including 689 domestic and 772 foreign companies.

- 5,397 bilateral meetings were conducted between participating companies and delegations, and 141 national and international contracts and partnerships were signed, with signing ceremonies.
- Turkish Naval Forces' TCG ANADOLU, TCG SANCAKTAR, and TCG HEYBELİADA vessels anchored in Büyükçekmece Bay, hosting visitors. 136 high-level foreign delegation members visiting Istanbul toured TCG ANADOLU and were briefed about the ship's capabilities and facilities.
- The fair was attended by representatives from 78 countries and 3 international organisations;

© MSI TDR



The booth of Ministry of Interior showcased the cutting-edge systems used by the security forces, and Ali Yerlikaya, Minister of Interior, graced the booth with a visit.

including 187 delegations that included 738 members, 27 ministers, 7 chiefs of staff, 8 deputy chiefs of staff, 26 force commanders, 21 deputy ministers, and 1 undersecretary as a whole.

IDEF 2023 was evaluated according to the statistics in the fair's final report and feedback from the participants and visitors. According to the data, of all the visitors to the fair:

- 94% left satisfied,
  - 98% plan to attend the next fair,
  - 91% recommend the fair to their business circles.
- Of all the participating companies:
- 80% left satisfied,
  - 89% plan to visit the next fair,
  - 89% recommend the fair to their business circles. ♦



Participants and visitors showed great interest in the firearms and other armaments displayed in the exhibition.

© MSI TDR



The rotary-wing UAV developed by Turkish Aerospace has a maximum take-off weight of 275 kg.

# SARSILMAZ



# SR 38

(cal. .38 spc/ .357 mag.)

[sarsilmaz.com](http://sarsilmaz.com)



The topics in the dossier (corporate contents) are organised alphabetically with the companies' preferences, such as front cover / back cover, in the IDEF special issue except for exceptional cases.

## Barok Defence Presents Its Latest Tech at IDEF 2023



All Photographs © MSI TDR

**B**arok Defence, a company that provides vehicle style designs and military vehicle electronic solutions for the defence and aerospace sector, presented its latest tech at IDEF 2023 and drew significant attention. The company highlighted its Engine Cold Start System and VNIR camera solutions that provide daytime vision in complete darkness along with other camera system solutions. One of Barok Defence's newest products, the SHERPA projector, is considered a leading piece of technology in the sector, with its ability to rotate 360 degrees horizontally and vertically and operate underwater. The company emphasises its capability to provide complete electrical and electronic system solutions for a vehicle, and laid the groundwork for new domestic and international collaborations with the meetings it held.

### Electronic and Mechanical System Solutions

Barok Defence has focused on mission equipment at fairs it has participated in so far. However, the company went beyond exhibiting projectors, internal communication systems, fuel heating, camera systems, and other vehicle subsystem products at IDEF 2023, highlighting its ability to produce electrical system solutions and mechanical system solutions for a vehicle. The company's capabilities include the electrical and mechanical wiring harness that it provides for an 8 x 8 vehicle project, dashboard panels, steering control systems, including the required electronic design and software, the entire electrical and mechanical cabling systems for a vehicle, electro-hydraulic control mechanisms, and solutions for the opening and closing of a 750-kilogram armoured door, as well as front hull style design solutions for vehicles. ♦



SHERPA projector stands out with its ability to rotate 360 degrees horizontally and vertically and operate underwater.

## Berkin Defence Engineering Unveils 4 New Products

Berkin Defence Engineering was one of the highlights at IDEF 2023, with its wide range of products and many new systems the company unveiled to the public. The company presented the Helicopter Landing Illumination System, Helicopter Capture and Transfer System, Meteorological Measurement System, and Carbon Fibre Military Multi-Function Console for the first time at the fair. In addition, Berkin Defence Engineering exhibited its NDDS-300 Ship Data Distribution System, Micro Ship Data Distribution Unit, Multi-Functional Programmable Displays, EOD GVDS Unit (ASELSAN Electro-Optic System Compatibility Unit), Gyro Interface Unit, Mechanical Gyro Repeaters, and Sound-Powered Telephone System for the visitors and participants.

The unveiled Helicopter Landing Illumination System consists of LED-based systems suitable for operation in both day and night conditions and all sea states, and all its software and hardware were developed with national means. The Helicopter Capture and Transfer System allows helicopters to land and take off completely automatically on the flight deck, without human intervention. The Meteorological Measurement System controls the meteorological sensors on the ship and facilitates communication between these sensors. The Carbon Fibre Military Multi-Function Console is a lightweight console with high performance, made predominantly with composite materials. Any hardware on the console can be easily customised in terms of position and function. The console also has a MIL-STD-compliant, modular, and scalable autonomous energy management system for easy and quick operation.

### Delegation Visits and Bilateral Agreements

Berkin Defence Engineering hosted high-level guests from countries like Italy, Azerbaijan, Kazakhstan, Qatar, and Senegal, and also conducted meetings with leading companies and institutions such as the Defence Industry Agency, Turkish Naval Forces Command, and Turkish Land Forces Command, as well as ASELSAN, STM, ARES Shipyard, Roketsan, and BMC during the fair. In addition, the company signed a strategic collaboration agreement with ARES Shipyard and an R&D collaboration in science and technology with Lentatek and Kazakhstan Engineering, and the company's Italy-based subsidiary BE Italy Srl. also signed a strategic collaboration agreement with Asisguard. Berkin Defence Engineering plans to introduce its products abroad through its operations in Italy and Azerbaijan, aiming to enter the global markets with its indigenous products. ♦



Berkin Defence Engineering's Carbon Fibre Military Multi-Function Console was showcased for the first time at IDEF 2023.



Meteorological Measurement System controls the meteorological sensors on the ship and facilitates communication between these sensors.



## BIAS Engineering Reveals 5 New Products for Various Disciplines



Canister system is used to launch guided munitions from land and naval platforms.



The autopilot actuator is indigenously developed to transmit commands from the pilot to the flight surfaces with appropriate speed and motion conditions.

**B**IAS Engineering (BIAS), renowned for its innovative engineering solutions for the defence and aerospace sector, showcased five new products at IDEF 2023. BIAS unveiled ammunition-carrying units, torsional vibration dampers, autopilot actuators, a canister system made to launch guided munitions from land and naval platforms, and an active vibration damping system for aviation applications. In recent years, BIAS has been enjoying attention with its multidisciplinary solutions.

### Developed with National Resources

The ammunition-carrying units were indigenously developed to transport various types of ammunition to customers, designed to withstand air and road conditions and they are in line with vibration and shock specifications. The units are already delivered to the end-user, made for 4 different ammunition types. The torsional vibration damper plays a critical role as a component of the power transmission systems of heavyweight vehicles, and the company's solution has already undergone engine and field tests, and is currently being tested by the end-user. The precision actuator is indigenously developed, including its PCB design,

to transmit commands from the pilot to the flight surfaces with appropriate speed and motion conditions. This product is still under development to meet aviation requirements, and it is expected that it will enter service shortly.

### BIAS Shared Its Capabilities with Participants

In addition to product demonstrations at IDEF 2023, BIAS provided information to visitors about its ongoing projects such as providing engineering services for HÜRJET, a test system developed for ATAK 2, components for HÜRKUŞ, and a test unit for the subsystem of the national combat aircraft KAAN. The company shared its R&D capabilities, analysis-simulation, and test-measurement services with domestic and international participants. Furthermore, BIAS's strong points also include the accredited test-measurement services and environmental test systems provided at the TOSB BIAS Automotive Test Centre. With IDEF 2023, the company found the opportunity to present itself as an entity that not only produces products but also develops, produces, and supplies systems that need to be indigenised or considered for indigenisation. ♦



BIAS developed its ammunition carrying units for 4 different types of ammunition and has delivered them to the end-user.



Torsional Vibration Damper

## CTech Presents Uninterrupted Communication Systems for UAVs and USVs

CTech showcased the results of its extensive R&D and product development efforts at IDEF 2023, presenting its solutions used by the Turkish Armed Forces, Turkish defence and aerospace industry firms, and international customers to potential clients in both domestic and international markets. The company debuted its ScoFus developed for unmanned surface vessels (USVs) and KuLOS (Ku-band Line of Sight) air data terminal developed for unmanned aerial vehicles (UAVs), and showcased its indigenous line of sight systems (Ufuk product family), SATCOM systems (ARX product family), and Electronic Protective Measures (EPM) SATCOM modem solutions.

### Many Collaboration Agreements for CTech

During the fair, the company signed memoranda of understanding with Intra Defense Technologies, MISL, Zyrone Dynamics, Taharqa Technologies, and Lapis Aerospace Technologies. CTech also held many B2B meetings throughout the fair in its booth, with various institutions and companies including the Defence Industry Agency, Turkish Aerospace Industries (TAI) Türkiye, TAI Malaysia, TAI Indonesia, Baykar, Dearsan Shipyard, Azercosmos (Azerbaijan Space Agency), SUPARCO (Pakistan Space Agency), Trillium Engineering, HTR Electronics, MILMAST, UNIDEF, ASPILSAN Energy, Z-System, BMH Aviation, Theme Project, TASECS, Gotmic, and VIYA. ♦



CTech signed 5 memoranda of understanding with Intra Defense Technologies, MISL, Zyrone Dynamics, Taharqa Technologies, and Lapis Aerospace Technologies.



CTech presented its Ufuk series line of sight communication systems family at IDEF 2023.

## Fotoniks Presents BOZOK, ATLAS 660D and OGUS-300

All Photographs © MSI TDR



Fotoniks utilised its booth at IDEF 2023 to present its cutting-edge product families. The company enjoyed great attention with BOZOK, ATLAS 660D, and OGUS-300 products, and showcased operational personal equipment, radars, sensors and subsystems, aircraft body engines and subsystems, firearms and their subsystems, as well as electronic and electro-optic systems product groups during the fair. Fotoniks plans to accelerate its marketing activities for its ambitious products, and the company engaged in many B2B discussions with domestic and international participants during the exhibition.

The panoramic vision system BOZOK eliminates blind spots by providing instant 360-degree spherical 8K vision. The border security and reconnaissance surveillance system ATLAS 660D provides continuous surveillance and range-to-target measurement in daylight, night, and challenging environmental conditions. The optronic gunner sight OGUS-300 serves as an observation and targeting camera for remote-controlled weapon systems on land and sea platforms. ♦



BOZOK panoramic vision system



OGUS-300 optronic gunner sight



ATLAS 660D border security and reconnaissance surveillance system



All Photographs © MSI TDR

## DAMISE Unveils Its New Generation Digital Platform



İlhan Bölük, Chairman of the Board of DAMISE spoke at the panel titled "New Opportunities and New Generation Collaborations for Being an Effective Player in the Global Market"

DAMISE officially launched its new generation digital platform which will bring stakeholders from the defence, aerospace, and marine sectors to IDEF. The company participated in the fair with a focus on developing collaborations through one-on-one meetings with national and foreign sector stakeholders, aiming to present its inclusive structure that will bring a fresh perspective to the sector correctly. DAMISE operates various sub-platforms like ecosystem, academy, Innovality, supplier system, digital showcase, and DAMISE club, and the

company emphasised the ecosystem and academy platforms at the fair. DAMISE's ecosystem platform enables stakeholders in the industry to come together for product supply, promoting company capabilities, sectoral collaborations, product development, and knowledge sharing. The academy platform offers specialised training developed by companies with expert professionals and mentors for individuals looking to enhance their skills within the sector.

### Potential Collaborations Discussed

DAMISE met with officials from national and international

institutions and companies in the defence sector, including Alp Aviation, ARMSTO, BMC, BİTES, FİGES, HAVELSAN, SASAD, and SSTEK. During these meetings, company officials identified potential collaboration areas and took notes on areas for the development of its digital platform based on feedback. DAMISE also conducted a panel titled "New Opportunities and New Generation Collaborations for Being an Effective Player in the Global Market", which was moderated by Dr. Ruşen Kömürcü, Secretary General of the Defence and Aerospace Industry Manufacturers Association (SASAD). Speakers included İlhan Bölük,

Chairman of the Board of DAMISE, Mehtap Karahallı Özdemir, Secretary General of Turkish Shipbuilders' Association (GISBİR), Murat Koç, Business Development Director of Altınay Group, Ferhat Özsoy, General Manager of ASPİLSAN Enerji, and Serdar Güzel, Deputy General Manager of Secant Technology Development.

### "DAMISE Will Be a Unifying Force"

DAMISE officials made a statement regarding the fair, sharing the following: "We are confident that DAMISE will become the unifying force of the defence, aerospace, and marine sectors, first in Türkiye and then across the globe. We confirmed that there is a need in the sector for DAMISE with this fair. Our vision in our efforts is to become the internationally preferred platform that provides a wide range of reliable data to stakeholders who may want to be a power in the global market in a short time in the defence, aerospace, and marine sectors and ecosystem." ♦

## Leonardo Announces Partnership with HTT



Leonardo officials stated that they are following a long-term growth strategy and a sustainable business model that will create value for all its stakeholders.

Participating in IDEF 2023 as a global solution provider in the defence, aerospace, and security industries, Leonardo announced its collaboration with Hyperloop Transportation Technologies (HTT), its partner in the United States, for the 10-kilometre Hyperloop

project that will be constructed in Italy. During the fair, the company's bilateral discussions focused on the domestic partnerships of Leonardo's Turkish subsidiary, Leonardo Türkiye. Leonardo showcased its tactical and strategic

communication systems, maritime communication systems, integrated security systems, lighting systems for air and land platforms, control panels, avionics, and logistic support services at its booth throughout the fair. ♦

All Photographs © MSI TDR

## Gürbağ Defence and Technology Offers a Close-In Air Defence System: MM-GIDS



All Photographs © Gürbağ Defence and Technology

Gürbağ Defence and Technology is focusing its young and dynamic team on R&D efforts to advance the banner of the Turkish defence and aerospace sector.

Gürbağ Defence and Technology, a company that develops control and orientation systems for the defence and aerospace sector, has presented its product line-up at IDEF 2023, the biggest international organisation it participated in since its founding in 2020. The company marketed its orientation systems, still undergoing R&D and product development processes, and has unveiled its close-in air defence system MM-GIDS. Gürbağ Defence and Technology also presented its Hydro-GIDS, first introduced at SAHA EXPO, to the public at IDEF.

### Longer Range Now a Reality

The newest member of the GIDS family, MM-GIDS can launch longer-range loitering munitions compared to Hydro-GIDS. The system can also fire up to 1,500 rounds per minute with its triple-barrelled .50 calibre heavy machine gun in addition to its capability to launch very short-range air defence missiles. The MM-GIDS system provides close protection against infantry and light armoured vehicles, and thanks to its high rate of fire, it can also act as a supporting leg for electro-optic-radar-drone

defence against UAVs. The system is mounted on a trailer, consisting of radar, electro-optic sensors, a hydrogen propulsion launch system, and communication subsystems. Hydro-GIDS is capable of automatically detecting, identifying, and tracking asymmetric targets.

### Gürbağ Met with 111 Companies and 28 Delegations

Considering IDEF as an opportunity to launch new collaborations with domestic and international companies and delegations, Gürbağ Defence and Technology met with 111 local and foreign companies and 28 delegations during the fair. The company made significant progress regarding its niche of control and orientation systems within Türkiye and is strengthening its relationships that were established during IDEF 2023 to make an impact on international markets as well. Gürbağ Defence and Technology has a young and dynamic team, and the company aims to increase the market share of its existing products and contribute to the development of the Turkish defence and aerospace sector through R&D. ♦



MM-GIDS can fire 1,500 rounds per minute with its triple-barrelled .50 calibre heavy machine gun.



## HENSOLDT Introduced ARGOS-8 to the World for the First Time at IDEF 2023



Levent Dünya, Director of Business Development at Hensoldt – Türkiye & Pakistan & Qatar & Kuwait, stated that they decided to collaborate with some Turkish companies for future joint projects.

HENSOLDT showcased its ARGOS 8" airborne electro-optical system, designed for intelligence, surveillance, and reconnaissance (ISR) missions, for the first time at IDEF 2023. The company took part in the exhibition to identify the needs of companies in the Turkish defence and aerospace sector, to determine potential collaborations, and to develop joint products for the global market. HENSOLDT is already engaged in collaborations in the region, and met with its partner companies at the fair, discussing the integration of Turkish products into HENSOLDT's offerings and the creation of joint synergy with domestic companies.

The products presented by HENSOLDT at IDEF 2023 were:

- ARGOS 16" and 8" airborne electro-optical systems for ISR missions,
- PrecISR multi-mission ISR radar,
- MILDS AN/AAR Block 2 missile warning system,
- KALAEIRON ATTACK jamming system for aerial platforms,
- ASR-NG air surveillance radar,
- TRML-4D ground-based air defence radar,
- Xpeller drone defence system,
- HENSOLDT Analytics Open-Source Intelligence (OSINT) platform

HENSOLDT also decided to collaborate on joint projects with some Turkish companies in the future, and prepared action plans for these potential projects. Company officials stated their intention to continue short, medium, and long-term business development activities, including partnerships and the development of regional collaborations with local companies such as ASELSAN, Baykar, BMC, LENTATEK, Roketsan, STM, and Turkish Aerospace.

### Suitable for Night and Day Use

The ARGOS 8" electro-optical system HENSOLDT unveiled at the fair is made for the lightweight unmanned aerial vehicle (UAV)



The ARGOS 8" airborne electro-optical system unveiled at the fair.

market. The system is in the 8-inch class and weighs under 6 kg, making it perfect for lightweight drones. Equipped with a day camera and cooled infrared sensors for ISR (Intelligence, Surveillance and Reconnaissance) and ISTAR (Intelligence, Surveillance, Target Acquisition, and Reconnaissance) missions, the system can be used both at night and during the day. ARGOS 8 is an ideal electro-optical system for relatively smaller tactical class UAVs, enhancing their capabilities by enabling them to perform specific tasks like precise identification of unknown objects. ♦



## Keyvan Aviation Propelled Itself to Stardom with Innovative Solutions at IDEF

© Keyvan Aviation



Keyvan Aviation showcased its innovative solutions aimed at the defence and aerospace sector at IDEF 2023, with its Aviation and Navigation Database designed for military operations and approved by the European Aviation Safety Agency (EASA). The company met with representatives from the sector and had the opportunity to promote its services, offering analytical solutions that support specific flight planning requirements by integrating detailed and comprehensive aviation and navigation data with information regarding controlled areas, restricted zones, and military locations.

### Keyvan Met with Senior Representatives

Keyvan Aviation officials held discussions with some of Türkiye's most important defence and aerospace companies, including ASELSAN, TUSAŞ, and ASFAT at the fair, and laid the groundwork for new collaborations with senior representatives from companies visiting from Romania, Serbia, Pakistan, and the USA. The company highlighted the advantages of its services and innovative solutions over its competitors, noting that it is the fourth company in the world and the first and only one in Türkiye to offer such services. ♦



© Keyvan Aviation

Keyvan Aviation officials presented their innovative solutions to military and civilian delegations hailing from Türkiye and abroad.



**For more news and  
subscription  
savunmahaber.com**



# MSI

DEFENCE AEROSPACE SECURITY TECHNOLOGIES

Yaşamkent Mahallesi 3147. Sokak  
No:10 Çankaya ANKARA / TÜRKİYE  
P: 0 312 225 4173 F: 0 312 225 4174

bilgi@savunmahaber.com

## Menatek Showcased Its Running Gear Products in One Console



The company's running gear exhibition console included many subsystems like shock absorbers, track tensioner adjusters, idlers, suspension arms, and more, being assembled like this for the first time in the fair.

Menatek took part at IDEF with a larger booth in a new hall, displaying running gear products and subsystems like shock absorbers, track tensioner adjusters, idlers, suspension arms, and more.

These products were showcased for the first time on a single console, assembled in their actual sizes. The company also presented its new Artillery Fire Control System with a maximum deviation of 5 metres, along with the Mevu periscope, Naz bearings, and a tailor-made torsion bar. Furthermore, Menatek showcased its capabilities in casualty care training for soldiers injured in combat and tactical warfare training in operational areas at its booth.

### Expanded Exhibition Area

Unlike previous fairs, Menatek welcomed its visitors at booth number 836A in Hall 8 at IDEF 2023, presenting its products in a larger exhibition area. Menatek officials emphasised that the fair positively influenced the company's growth and development through B2B meetings and new partnerships and expressed that the results from the positive effects of the fair like long-term collaborations will be seen in the near future.

### New Countries, New Participants

Menatek offers production and testing to the defence and aerospace sectors in 35 countries, and acts as a supplier to those markets, including NATO member states and the USA, and serves the Turkish Armed Forces in Türkiye. The company enjoyed significant interest from senior military officials and participants, predominantly hailing from foreign countries. Menatek is already preparing for the next IDEF, planning to have a larger booth in halls with more international participants and visitors. The company aims to expand its product portfolio to reach new countries and new participants. ♦



Boqu Scooter, produced under Menatek's Roqu Mobility brand, represent the company's environmentally conscious production policies. The company's scooters were used during the distribution of MSI TDR's IDEF Special Issues at the fair.



Naz bearings can last for the lifetime of the vehicle without requiring any maintenance thanks to their composite self-lubricating liners if not damaged by external forces.

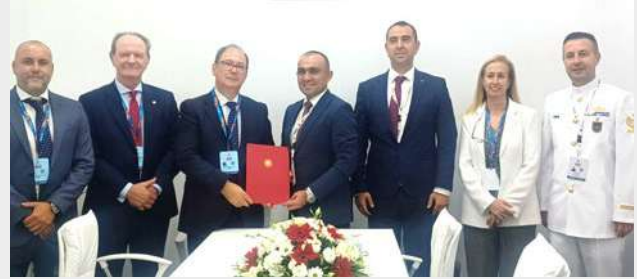
© Menatek

© MSI TDR

© MSI TDR

## Navantia Presented Navantis Bridge Simulator System at IDEF

Navantia, a defence and technology company specialising in the construction, system design, and integration of surface and submarine vessels, product life cycle support, and high value-added services, presented Navantis (Navantia Training Integrated System) bridge simulator system to visitors at IDEF 2023. Navantis combines the training for the personnel, the F-110 frigate, and the S-80 submarine into a single product, making it stand out against its competitors with its ability to provide training for different platforms with a single system. In addition, an initial framework agreement for engine spare parts for the ships of the Turkish Naval Forces was signed between Navantia and the Ministry of National Defence (MND) at the fair. ♦



An initial framework agreement for engine spare parts for the ships of the Turkish Naval Forces was signed between the officials of Navantia and the Ministry of National Defence (MND) at the fair.



Navantis bridge simulator combines the training for multiple platforms.



© Navantia

© MSI TDR

© MSI TDR

© Numesys

## Numesys Highlights Its Digital Twin Technologies



Ekin Ersan, General Manager of Numesys

Numesys focused on its digital twin technologies at IDEF 2023. The company introduced the concept of digital twins for the first time at the fair and also presented the software solutions of Ansys, of which it is a Channel Partner, to the participants. Ekin Ersan, General Manager of Numesys, stated the following: "At Numesys, we have a commitment to continuously develop the solutions we provide to our customers and be open to innovations. Improving our products and services based on customer feedback and the needs of the industry is our priority. IDEF 2023 offered an opportunity to work more closely with our customers and partners and to explore future collaboration opportunities."

### Creating Virtual Models of Products

Ersan highlighted that Numesys also emphasised training, consulting, and other engineering support services at the fair, and added, "These services help our customers use Ansys products more effectively and optimise their engineering projects. Another concept we focus on is the 'digital twin'



Numesys took part in the exhibition with a large team, holding talks with senior professionals of leading companies in the sector.

technology. This technology offers the opportunity to better understand and improve the real-world performance of products by creating their virtual models. We demonstrated how we can help make products smarter and more efficient by emphasising this concept at the fair." Ersan also noted that Numesys' comprehensive services and support in engineering software played a significant role in the development of many products showcased at the fair.

### Numesys Met with Industry Professionals

Numesys held meetings with various institutions and organisations, including ASELSAN, BMC, Roketsan, STM, TEI, Turkish Aerospace, and TÜBİTAK, as it took part in the fair to expand its ecosystem and strengthen existing collaborations. The company officials had productive discussions, particularly with senior professionals, managers, and lead engineers from leading companies in the sector, providing an opportunity to examine the latest industry developments and collaboration opportunities. ♦

© Numesys

## Nurol Teknoloji Showcased Ballistic Armour Solutions

Nurol Teknoloji plays a critical role in the Turkish defence and aerospace sector with its ballistic armour solutions and it presented its latest products at the fair. The company also presented its advanced technical ceramic production infrastructure, a capability possessed by only a few countries across the globe, and ballistic armour solutions for personnel, land, air, and naval platforms to both domestic and foreign end-users. The company's newly unveiled ballistic shield with integrated imaging (monitor + night vision) was one of the highlights.

### Armours Saving Lives in Ukraine Displayed

Nurol Teknoloji's booth displayed chest plates developed through R&D efforts against different bullet threats, as well as armour panels produced in different protection levels for land, naval (MILGEM ships), and air platforms. An armoured UAV control container was another product Nurol Teknoloji debuted at the fair. The company also showed armour plates used in the Russo-Ukrainian war, which saved the life of a Ukrainian soldier.

Nurol Teknoloji officials held many meetings throughout the fair, discussing the progress of ongoing projects and establishing new contacts. They took the first steps for potential future projects, hosting delegations from all over the world, including Europe, Africa, and the Middle East, and holding meetings with various military and civil authorities to discuss armour solutions. Officials indicated that the domestic projects will keep going full steam ahead. ♦



The armour solutions developed for personnel, along with air, naval, and land platforms were showcased to the foreign and Turkish public at the Nurol Teknoloji's booth.



One of the highlights of the booth was the armour plate that saved the life of a Ukrainian soldier during the ongoing Russo-Ukrainian war.



Nurol Teknoloji's ballistic shield with integrated imaging (monitor + night vision) stood out in the company's booth, enjoying intense attention.



© MSI TDR

## Turaç Invades IDEF with New Products



Turaç, one of the largest small arms ammunition producers in Türkiye, presented its new products at IDEF 2023. The company first unveiled the Sterling .45 ACP (Automatic Colt Pistol) pistol cartridge under its Sterling brand and then continued to enjoy attention with its Sterling 12 ga Anti-Drone cartridge and Sterling 7.62x39 mm Steel cartridge. The company evaluated collaboration opportunities with participants and visitors from countries in the region and held talks with official delegations from 4 countries, as well as 42 private sector representatives from 30 countries, for a total of 46 representatives from 31 countries.

### Sterling .45 ACP Debuts at IDEF

Turaç's Sterling .45 ACP was developed in response to feedback from law enforcement officials, as they found other calibres inadequate in neutralising criminals, and launched the product at IDEF 2023. The Sterling .45 ACP maintains its core weight during firing due to its fully jacketed bullet core, providing consistent ballistic performance. Its high muzzle velocity and effective range take the Sterling .45 ACP one step ahead, with its technical features including:

- Fully jacketed core
- Spherical gunpowder
- 5.5 boxer primer
- Brass casing
- 280 ± 20 m/s muzzle velocity
- 1,300 bar pressure

Turaç hosted many scheduled and unscheduled guests, including Ömer Bolat, Minister of Trade, Celal Sami Tüfekci, Deputy Minister of National Defence, Mustafa Varank, the former Minister of Industry and Technology, and Mahmut Asmalı, President of MÜSIAD. Turaç officials expressed their desire that the IDEF return to the capital and be held at the newly completed Ankara Expo Centre, even though IDEF 2023 had immense interest compared to previous fairs. ♦





## Üntel Kablo's Industrial Cables for Naval Vessels



Onur Serhat Günan, Member of the Executive Board of Üntel Kablo



Üntel Kablo, a leading manufacturer of industrial cables, including cables for naval vessels, runway lighting cables for military airports, and land vehicles and military systems, showcased its renowned VG95218 naval vessel cable family at IDEF 2023. As one of the few producers in this field globally, Üntel Kablo serves this niche in the defence and aerospace sector not only in Türkiye but also in many countries abroad.

### Sole Supplier for TCG ANADOLU

Üntel Kablo's VG95218 cables are designed for military vessels and submarines and they have VDE certification. The product family, including 7 different types from parts 60 to 66, is suitable for use in both dry and wet marine environments, manufactured using components that do not emit toxic gases and have low smoke density. These cables can also be used in environments requiring electromagnetic protection thanks to their screened structures. Onur Serhat Günan, Member of the Executive Board of Üntel Kablo, stated the following: "Üntel Kablo is the sole cable supplier for the indigenous TCG ANADOLU vessel constructed by the Turkish Naval Forces. Being part of this project was a great source of pride for us. This project was the most significant project for the visitors

to the fair. Being involved in the MILGEM project and similar other military ship projects makes us proud."

### Opening Doors to New Collaborations

Üntel Kablo is already on the approved supplier lists of institutions and companies such as ASELSAN, ASFAT, HAVELSAN, STM, and TÜBİTAK, and the company laid the groundwork for new collaborations at the fair by sharing its efforts for the defence and aerospace sector as well as special projects for other sectors. The company hosted visitors from abroad, including Nigeria, the USA, and the United Arab Emirates, at its booth and received information about the projects and requests of potential customers. Üntel Kablo had a meteoric rise in Türkiye's 500 Largest Industrial Enterprises list announced by the Istanbul Chamber of Industry in 2022, climbing 84 places to rank 421<sup>st</sup> overall, and the company aims to expand its presence in both domestic and international markets with its quality cables. With the completion of its second-phase factory in Dilovası, the company plans to develop a range of new products, particularly cables with higher standards and features required for nuclear power plants, offshore projects, and wind generators. ♦



Üntel Kablo's VG95218 cables are designed for military vessels and submarines and they have VDE certification.



**SYNERGY CENTER  
OF DEFENCE INDUSTRY**

**| www.turkishdefenceindustrynews.com**

**Turkish Defence Industry  
News GROUP**



## YALTES Presented IPMS and New Generation Consoles



YALTES became a Gold-Level System Integrator of Rockwell Automation, a company that is active across the globe regarding the procurement of industrial automation products, with a contract signed during IDEF 2023.

YALTES took part in IDEF 2023 to increase its global competitiveness and strengthen its international collaborations, highlighting its indigenous and innovative solutions in the defence sector. The company showcased its domestic and national solution IPMS (Integrated Platform Management System) for surface platforms, along with İ-class frigates. YALTES' booth unveiled the new generation consoles and cabinets the company developed, as well as consoles and 32" cabinets used in submarine platforms to the public. YALTES highlighted its platform monitoring systems and solutions for unmanned surface vessels in its booth.

### Naval Defence Systems in the Spotlight

YALTES officials and senior officials from the defence sector held numerous meetings to develop existing relations and explore new collaboration opportunities during the fair. Delegations primarily from African and Far Eastern countries, engaged in discussions with YALTES, exploring cooperation possibilities with a focus on the naval defence sector. Some highlights in these talks were on unmanned surface vessels and their control systems, anti-submarine systems, maritime security projects, and main engine control systems.



YALTES' future plans include showcasing its IPMS, Integrated Bridge System and Engine Control Consoles, and the main engine control and monitoring system created for the last three ships of the MİLGEM project that the company developed with advanced technology and engineering. The company continues its efforts to expand its product portfolio and provide cutting-edge innovative solutions as it closely follows the developments in the sector. ♦

YALTES is developing the Main Engine Control and Monitoring System, created for the last three ships of the MİLGEM project.



© MSI TDR

© MSI TDR

© YALTES-MİLGEM