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Defensehere.com is an international defense industry media platform that publishes in English, Arabic, Turkish, French, Russian, and Ukrainian. It is the world's most prolific defense industry publisher in terms of interviews conducted and media partnerships at defense industry exhibitions and fairs.

Defensehere Magazine is not a periodical publication but is exclusively tailored for defense industry exhibitions and fairs. Each issue is published in two languages: one in English and the other in the native language of the country hosting the event. Its contents consist solely of company and product promotional articles.

The magazine is distributed directly to participating companies' booths, as well as to visiting procurement and military delegations at trade shows. It is also available at magazine distribution points during the events.

The digital version of the magazine is sent via email to over 20,000 contacts in approximately 100 countries and is accessible on Defensehere.com. Defensehere Magazine is the defense industry magazine with the world's largest distribution network. Defensehere Magazine holds the title of the most widely distributed defense industry magazine worldwide in 2024 and 2025.

Defensehere.com est une plateforme médiatique internationale dédiée à l'industrie de la défense, publiée en anglais, arabe, turc, français, russe et ukrainien. Il s'agit du média spécialisé dans l'industrie de la défense qui réalise le plus grand nombre d'interviews et qui est le partenaire média du plus grand nombre de salons professionnels à travers le monde.

La revue Defensehere n'est pas une publication périodique, mais est spécialement préparé pour les salons de l'industrie de la défense. Chaque numéro est publié en deux langues, l'une étant l'anglais et l'autre la langue principale du pays où se tient le salon. Son contenu comprend uniquement des articles de présentation d'entreprises et de produits.

La revue est distribué directement aux stands des entreprises participantes aux salons, aux délégations d'acheteurs et aux délégations militaires qui visitent le salon. Il est également disponible dans les sections de distribution du magazine lors des salons.

La version numérique du magazine est envoyée par e-mail à plus de 20 000 personnes dans environ 100 pays et est accessible sur Defensehere.com. Defensehere Magazine est la revue de l'industrie de la défense qui dispose du réseau de distribution le plus étendu au monde. La revue Defensehere détient le titre de magazine consacré à l'industrie de la défense le plus distribué dans le monde en 2024 et 2025.

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Founded in 2019, Gürbüz Trade stands out as a reliable and dynamic company in Türkiye's defense and aerospace industries. We have reached a solid position in the sector with the superior services and quality products we offer in local and international markets and have assumed critical roles in the supply chain.

To enhance our international competence, through a collaboration with a Pakistan-based Aviation MRO company, we have obtained MRO (Maintenance, Repair, and Overhaul) authorization in Türkiye and Azerbaijan for post-warranty maintenance, repair, and spare parts supply of Super Mushshak aircraft. Accordingly, we have expanded our technical expertise.

Gurbüz Trade, which closely follows the innovations in the defense and aerospace sector, takes strategic steps for the future by analyzing the dynamics in the market. By participating in prestigious defense fairs around the world, it increases its influence in global arena by taking part in international and the local tenders and projects.

Strategic collaborations such as the Turkish Armed Forces, Gendarmerie General Command, Coast Guard Command, Police Organization and Turkish Aeronautical Association



reinforce Gürbüz Trade's effectiveness in the sector day by day.

Gurbüz Trade has NATO and National Facility Security Certificates and is an approved supplier of military factories.

As Gürbüz Trade, our projects with public institutions and organizations in our country are ongoing, and our company also provides the supply of raw materials and technologies needed by Türkiye from abroad.

As Gürbüz Trade, we continue our success in the defense and aerospace sector, and we continue our investments in the field of textiles without slowing down. In particular, we attach great importance to our R&D studies for the development of critical products such as ballistic protective equipment and bomb disposal suits. With these innovative solutions, we are strengthening our position as a reliable supplier in both local and international markets.

Gurbüz Trade is taking firm steps towards becoming a rising brand in the international arena with its dynamic strategies and value-added products in the global aviation and defense industry. In the rapidly developing aviation field, we are eager to strengthen our relations and establish collaborations with European Union countries, Canada, US and the United Kingdom.



Fondée en 2019, Gürbüz Trade se distingue comme une entreprise fiable et dynamique dans les secteurs de la défense et de l'aérospatiale en Turquie. Nous avons acquis une position solide dans ce secteur grâce aux services de qualité supérieure et aux produits haut de gamme que nous proposons sur les marchés locaux et internationaux, et nous avons endossé des rôles essentiels dans la chaîne d'approvisionnement.

Afin de renforcer notre compétence internationale, grâce à une collaboration avec une société pakistanaise spécialisée dans la maintenance, la réparation et la révision (MRO) aéronautiques, nous avons obtenu l'autorisation MRO en Turquie et en Azerbaïdjan pour la maintenance, la réparation et la fourniture de pièces de rechange après garantie des avions Super Mushshak. Nous avons ainsi élargi notre expertise technique.

Gurbüz Trade, qui suit de près les innovations dans le secteur de la défense et de l'aérospatiale, prend des mesures stratégiques pour l'avenir en analysant la dynamique du marché. En participant à des salons prestigieux consacrés à la défense à travers le monde, elle renforce son influence sur la scène internationale en prenant part à des appels d'offres et à des projets internationaux et locaux.



Des collaborations stratégiques telles que celles avec les forces armées turques, le commandement général de la gendarmerie, le commandement des garde-côtes, l'organisation policière et l'association aéronautique turque renforcent chaque jour l'efficacité de Gürbüz Trade dans le secteur.

Gurbüz Trade dispose des certificats de sécurité OTAN et National Facility Security et est un fournisseur agréé des usines militaires.

En tant que Gürbüz Trade, nos projets avec les institutions et organisations publiques de notre pays se poursuivent, et notre entreprise fournit également les matières premières et les technologies dont la Turquie a besoin à partir de l'étranger.

Chez Gürbüz Trade, nous poursuivons notre succès dans le secteur de la défense et de l'aérospatiale, et nous continuons sans relâche nos investissements dans le domaine du textile. Nous accordons notamment une grande importance à nos études de R&D pour le développement de produits essentiels tels que les équipements de protection balistique et les combinaisons de déminage. Grâce à ces solutions innovantes, nous renforçons notre position de fournisseur fiable sur les marchés locaux et internationaux.

Gurbüz Trade prend des mesures fermes pour devenir une marque montante sur la scène internationale grâce à ses stratégies dynamiques et ses produits à valeur ajoutée dans l'industrie mondiale de l'aviation et de la défense. Dans le domaine de l'aviation en plein essor, nous sommes impatients de renforcer nos relations et d'établir des collaborations avec les pays de l'Union européenne, le Canada, les États-Unis et le Royaume-Uni.



Türkiye's First Private Ammunition Manufacturer Strengthens Global Presence

Turaç, the first private-sector ammunition manufacturer in Türkiye, has evolved into a globally recognized producer of both small arms ammunition and shotgun shells. While maintaining production in standard calibers, the company has also carved out a name for itself in international markets through its innovative products developed inhouse via robust R&D efforts.

With a clear focus on innovation, Turaç aims to increase its market share by launching original products tailored to industry demands. Among its standout developments is the 36 Cal Polymer Slug—a world first—designed for training use and offering a unique approach to ballistics. The company has also introduced Polymer Blank rounds in calibers such as 9x19, 5.56x45, and 7.62x39, which are increasingly being adopted in military training scenarios. Another area of rapid growth is counter-drone technology, where Turaç's advanced anti-drone cartridges represent a forward-looking response to evolving threats.

Sterling Anti-Drone Cartridges: An Innovative Solution for Modern Defense

As the threat posed by unmanned aerial vehicles (UAVs) becomes more prominent, Turaç's Sterling Anti-Drone cartridges offer an innovative defense solution for protecting strategic sites. Developed for military use, these specialized rounds provide effective protection for airports, military bases, and border zones. Available in Magnum (70–90 m) and Super Magnum (90–110 m) variants, also includes the 40 mm Anti-Drone cartridge which was introduced for the first time this year at the IDEF Fair, they are capable of neutralizing drone threats at varying altitudes.

This projectile, which can be fired from 40 mm grenade launchers, separates into six interconnected parts after leaving the barrel, enveloping the target drone and completely eliminating its ability to move.

Expanding Reach Through Global Exhibitions

Driven by the goal of positioning its Sterling brand as a trusted name in both military and civilian markets, Turaç aligns all its strategic efforts toward international growth. Each product undergoes rigorous testing in the company's state-of-the-art laboratories, and end-user feedback is continuously incorporated into the development cycle.

Turaç continues to scale up its production capacity and expand its footprint in both domestic and international markets. The company remains highly active in global exhibitions, using these platforms to introduce its expanding product portfolio.

Most recently, the company participated in the IDEF Fair in Istanbul and currently exports to 95 countries.



Turaç : le premier fabricant privé de munitions en Turquie renforce sa position sur le marché mondial

Première usine privée de fabrication de munitions en Turquie, Turaç est aujourd'hui un fabricant de renommée internationale dans le domaine des munitions pour armes à feu et des cartouches de chasse. L'entreprise ne se contente pas de produire des calibres et des diamètres connus, elle se distingue également sur le marché mondial grâce à ses produits innovants développés à partir de ses propres travaux de recherche et développement.

Turaç, qui vise à augmenter sa part de marché grâce à ses innovations en matière de nouveaux produits, se distingue dans le secteur par ses solutions originales, grâce aux résultats positifs de ses projets de recherche et développement. Le 36 Cal Polimer Slug, une première mondiale, est un produit développé pour les entraînements au tir qui se distingue par son design innovant, tandis que les munitions Polimer Blank 9x19, 5,56x45 et 7,62x39 sont particulièrement utilisées dans le cadre de formations militaires. De plus, les munitions anti-drones, dont l'importance ne cesse de croître aujourd'hui, ne représentent que quelques-unes des solutions de défense de pointe proposées par l'entreprise.

Munitions anti-drones Sterling : une solution innovante pour la défense moderne

Développées pour contrer les menaces posées par les drones, les fusées anti-drones Sterling offrent une solution innovante pour la protection des zones stratégiques. Conçues pour un usage militaire, ces fusées assurent une défense efficace dans les zones critiques telles que les aéroports, les bases militaires et les frontières.

La gamme de produits, qui offre une solution efficace contre les menaces de drones à différentes altitudes avec les modèles Magnum (70-90 m) et Super Magnum (90-110 m), s'est enrichie cette année d'une nouvelle fusée anti-drone de 40 mm, présentée pour la première fois au salon IDEF.

Cette cartouche, qui peut être tirée à partir de lance-grenades de 40 mm, se divise en six parties reliées entre elles après avoir quitté le canon, enveloppant ainsi le drone cible et neutralisant complètement sa capacité de mouvement.

Turaç poursuit sa croissance grâce aux salons internationaux

Turaç élabore toutes ses stratégies dans le but de faire de la marque Sterling une marque fiable sur les marchés militaires et civils internationaux. L'entreprise teste toutes les munitions qu'elle produit dans ses laboratoires modernes, suit avec rigueur chaque étape jusqu'à ce que les produits parviennent à l'utilisateur final et évalue en permanence les commentaires des utilisateurs.

Augmentant chaque année sa capacité de production et sa part de marché nationale et internationale, Turaç poursuit sans relâche la promotion de ses produits lors de salons internationaux.

La société, qui a récemment participé au salon IDEF à Istanbul, exporte actuellement vers 95 pays.

La prochaine étape pour Turaç sera le salon Milipol Paris, qui se tiendra en France.

Visit TURAC in
5E-171

Visitez TURAÇ
dans lte 5E-171



ateşçi



Since its establishment in 2002, Ateşçi has specialized in the development, manufacturing, and installation of integrated machinery production and lines. With a vision rooted in national progress, the company has steadily grown into a key player in both domestic and international defense markets, remaining committed to sustainable development since its foundation.



With operations spanning over 40 countries across five continents, Ateşçi not only delivers advanced engineering and turn-key production systems but also acts as a strong representative of Türkiye's industrial and technological capabilities in the global defense sector.

Ateşçi's success reflects not only technical capability but also Türkiye's evolving role in high-value manufacturing and international defense partnerships.

As a turn-key solution provider, Ateşçi offers tailor-made production systems for both private and government-led projects. These solutions address all phases of production, from raw material processing to final inspection.

From core mechanical systems such as diverse presses; horizontal, double action and vertical; to advanced optical and mechanical inspection units, every component is developed and tested in-house, ensuring compliance



with NATO and international military standards. Each solution is adapted to the unique requirements of the client's facility and scope. In addition to engineering, the company provides detailed operational and maintenance documentation, automation integration, and operator training to ensure optimal system performance.

What distinguishes Ateşçi is not only its engineering excellence, but also its strategic mission: to support companies that are new to the sector and trying to develop their capacity with turnkey projects for both private companies and governmental institutions.

The company sees itself as a contributor to national development, particularly in areas related to defense industry modernization. To ensure long-term success and sustainability, Ateşçi continuously invests in research and development, automation, and digital transformation. ERP-compatible systems, remote diagnostics, and client-specific order portals are actively integrated into ongoing projects.

These initiatives help position Ateşçi — and Türkiye — at the forefront of global defense innovation. Each new investment reinforces Ateşçi's capacity to anticipate future industry demands while contributing to Türkiye's economic and technological empowerment.



ateşçi

Depuis sa création en 2002, Ateşçi s'est spécialisée dans le développement, la fabrication et l'installation de machines et de lignes de production intégrées. Avec une vision basée sur le progrès national, l'entreprise s'est progressivement imposée comme un acteur clé sur les marchés de la défense nationaux et internationaux, tout en restant fidèle à son engagement en faveur du développement durable depuis sa création.

Avec des activités dans plus de 40 pays sur les cinq continents, Ateşçi fournit non seulement des systèmes d'ingénierie avancés et des systèmes de production clés en main, mais agit également en tant que représentant fort des capacités industrielles et technologiques de la Turquie dans le secteur mondial de la défense.

Le succès d'Ateşçi reflète non seulement ses capacités techniques, mais aussi le rôle croissant de la Turquie dans la fabrication de haute valeur et les partenariats internationaux en matière de défense.

En tant que fournisseur de solutions clés en main, Ateşçi propose des systèmes de production sur mesure pour les projets privés et publics. Ces solutions couvrent toutes les phases de la production, du traitement des matières premières à l'inspection finale.

Des systèmes mécaniques de base tels que diverses presses (horizontales, à double action et verticales) aux unités d'inspection optique et mécanique avancées, chaque composant est développé et testé en interne, garantissant ainsi la conformité aux normes militaires internationales et de l'OTAN. Chaque solution est adaptée aux exigences spécifiques des installations et du champ d'application du client. Outre l'ingénierie, l'entreprise fournit une documentation détaillée sur le fonctionnement et la maintenance, l'intégration de l'automatisation et la formation des opérateurs afin de garantir des performances optimales du système.



Ce qui distingue Ateşçi, ce n'est pas seulement son excellence en matière d'ingénierie, mais aussi sa mission stratégique: soutenir les entreprises qui sont nouvelles dans le secteur et qui tentent de développer leurs capacités grâce à des projets clés en main destinés à la fois aux entreprises privées et aux institutions gouvernementales.

L'entreprise se considère comme un contributeur au développement national, en particulier dans les domaines liés à la modernisation de l'industrie de la défense. Afin d'assurer son succès et sa pérennité à long terme, Ateşçi investit continuellement dans la recherche et le développement, l'automatisation et la transformation numérique. Des systèmes compatibles avec les ERP, des diagnostics à distance et des portails de commande spécifiques aux clients sont activement intégrés dans les projets en cours.

Ces initiatives contribuent à positionner Ateşçi — et la Turquie — à la pointe de l'innovation mondiale en matière de défense. Chaque nouvel investissement renforce la capacité d'Ateşçi à anticiper les demandes futures du secteur tout en contribuant à l'autonomisation économique et technologique de la Turquie.





Kuantek provides high-performance camera modules for defense, security, and industrial applications through its advanced solutions in long-wave infrared (LWIR) imaging systems. The camera modules developed by the company stand out with their high resolution, advanced image processing algorithms, and broad environmental durability.

LWIR Camera Modules

Kuantek's LWIR camera solutions are offered in two resolution options:

- 640x480 pixels
- 1280x1024 pixels

These modules are designed to operate reliably and stably under harsh environmental conditions ranging from -40°C to +65°C. Their suitability for both industrial and military use enhances overall system reliability.

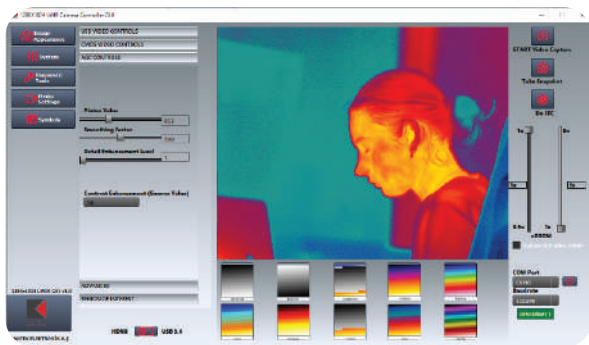


Image Processing Features

Thanks to advanced digital image processing algorithms integrated into the camera modules, high quality and noise-free images can be obtained even in low-contrast scenes.

Key features include:

- TP-NUC (Two-Point Non-Uniformity Correction): Corrects sensor-based thermal inconsistencies to deliver uniform imaging.
- BPR (Bad Pixel Replacement): Detects and corrects defective pixels caused during production or developed over time.
- DDE (Digital Detail Enhancement): Enhances the level of detail in images.
- ACE (Adaptive Contrast Enhancement): Dynamically improves contrast based on scene content.
- Denoising: Reduces spatial noise that may occur during prolonged operation.



These algorithms make thermal images more comprehensible and easier to analyze.

Video Interface Modules

The camera systems support multiple video output interfaces for seamless integration across different application environments:

- Ethernet
- HDMI
- SDI
- Analog
- MIPI
- USB



This flexibility allows the systems to be easily integrated into both fixed and mobile platforms, supporting a wide range of use cases.

PTZ and Gimbal Camera Systems

Kuantek's PTZ (Pan-Tilt-Zoom) and gimbal electro-optical systems integrate LWIR/SWIR/MWIR thermal cameras with daytime vision cameras to enable multi-sensor fusion. The system can determine and overlay the target's real-time position on the image using auxiliary components such as GPS, compass, and laser rangefinder.

Advanced features include:

- Human and vehicle detection
- Target classification and tracking
- Thermal and optical image fusion
- Remotely controllable pan-tilt and optical zoom mechanism

These systems are used in scenarios such as military surveillance, border security, search and rescue, strategic facility monitoring, and integration with unmanned aerial, ground, and naval vehicles.

Application Areas

Kuantek's electro-optical solutions are widely used in the following areas:

- Military and security surveillance
- Integration with UAVs and ground vehicles
- Border security and critical infrastructure protection
- Industrial thermal monitoring and maintenance systems
- Embedded image processing and intelligent analytics platforms



Kuantek fournit des modules de caméra haute performance pour les applications de défense, de sécurité et industrielles grâce à ses solutions avancées dans les systèmes d'imagerie infrarouge à ondes longues (LWIR). Les modules de caméra développés par l'entreprise se distinguent par leur haute résolution, leurs algorithmes avancés de traitement d'image et leur grande résistance aux conditions environnementales.

Modules de caméra LWIR

Les solutions de caméra LWIR de Kuantek sont proposées en deux résolutions :

- 640 x 480 pixels
- 1280 x 1024 pixels

Ces modules sont conçus pour fonctionner de manière fiable et stable dans des conditions environnementales difficiles, entre -40 °C et +65 °C. Leur aptitude à une utilisation industrielle et militaire améliore la fiabilité globale du système.

Fonctions de traitement d'image

Grâce aux algorithmes avancés de traitement d'image numérique intégrés aux modules de caméra, il est possible d'obtenir des images de haute qualité et sans bruit, même dans des scènes à faible contraste.

Principales fonctionnalités :

- TP-NUC (correction de non-uniformité en deux points) : corrige les incohérences thermiques liées au capteur afin d'obtenir une image uniforme.
- BPR (remplacement des pixels défectueux) : détecte et corrige les pixels défectueux causés pendant la production ou apparus au fil du temps.
- DDE (Digital Detail Enhancement) : améliore le niveau de détail des images.
- ACE (Adaptive Contrast Enhancement) : améliore dynamiquement le contraste en fonction du contenu de la scène.
- Denoising : réduit le bruit spatial pouvant survenir lors d'un fonctionnement prolongé.

Ces algorithmes rendent les images thermiques plus compréhensibles et plus faciles à analyser.

Systèmes de caméras PTZ et à cardan

Les systèmes électro-optiques PTZ (Pan-Tilt-Zoom) et à cardan de Kuantek intègrent des caméras thermiques

LWIR/SWIR/MWIR à des caméras de vision diurne pour permettre la fusion multicapteurs. Le système peut déterminer et superposer la position en temps réel de la cible sur l'image à l'aide de composants auxiliaires tels que le GPS, la boussole et le télémètre laser. Les fonctionnalités avancées comprennent :

- Détection des personnes et des véhicules
- Classification et suivi des cibles
- Fusion d'images thermiques et optiques
- Mécanisme de panoramique/inclinaison et de zoom optique contrôlable à distance

Ces systèmes sont utilisés dans des scénarios tels que la surveillance militaire, la sécurité des frontières, la recherche et le sauvetage, la surveillance d'installations stratégiques et l'intégration avec des véhicules aériens, terrestres et navals sans pilote.

Domaines d'application

Les solutions électro-optiques de Kuantek sont largement utilisées dans les domaines suivants :

- Surveillance militaire et sécuritaire
- Intégration avec des drones et des véhicules terrestres
- Sécurité des frontières et protection des infrastructures critiques
- Systèmes industriels de surveillance thermique et de maintenance
- Plateformes embarquées de traitement d'images et d'analyse intelligente





"GÖKYAR MULTI-PURPOSE UAV" IS READY FOR DUTY!

ARI Defence Aviation designs, develops, and manufactures every stage of unmanned aerial vehicle (UAV) production entirely in-house, from software to final assembly. The company has developed the **GÖKYAR UAV** specifically to support search and rescue operations.

Key Application Areas of the GÖKYAR Multi-Purpose UAV

- **Security Services:** Facility and base security, monitoring and control of designated areas, and both day and night operations.
- **Border Security:** Recorded or live multilingual announcements in border zones, illumination and surveillance of blind spots, autonomous border patrol flights, and more.
- **Exercises and Training:** Management of drills and training activities, operational support during scenarios, live video and imagery transmission, crowd alerts in exercise zones, and overall area control and safety.
- **Search and Rescue:** Missions in natural or urban environments, establishing contact with stranded individuals, delivering instructions, and receiving direct responses through an integrated microphone.
- **Disaster and Crisis Management:** Damage assessment, communication of evacuation routes and safe gathering points, coordination of humanitarian aid, and directing medical teams to people in need.
- **Accident Response:** On-site inspection, imaging and photography of accident areas, locating casualties, and guiding first responders to the scene.
- **Public Services:** Supporting municipalities, law enforcement, and other public or private institutions in infrastructure operations, inspections, reporting, and assistance with electricity, water, or sewage system malfunctions.
- **Crowd Control and Public Order:** Monitoring, informing, and guiding large gatherings such as rallies, demonstrations, marches, and concerts.



Technical Advantages of the GÖKYAR Multi-Purpose UAV

Operational Durability: High resistance to hard landings, wind, and adverse weather ensures mission continuity.

- **Extended Flight Time:** A lightweight composite structure allows up to 50 minutes of untethered flight. With a tethered system, GÖKYAR can remain airborne continuously for up to 24 hours.
- **Reliability:** A robust build protects sensitive payloads such as cameras, lights, speakers, and microphones.
- **Adjustable Light and Sound:** Field operators can easily adjust light intensity and audio levels to fit mission requirements.
- **High-Resolution Camera:** Enables operators to clearly observe fine details in targeted or illuminated areas.
- **Microphone Capability:** Allows for two-way communication, enabling addressed individuals to respond directly.
- **Collision-Avoidance Sensors:** Prevent accidents by detecting and avoiding obstacles.
- **Logistical Ease:** Quick-swap batteries maximize efficiency and mission time, while an ergonomic carrying case enhances field portability and usability.
- **After-Sales Support:** Ongoing software updates, battery and spare parts supply, and maintenance and repair services ensure long-term user satisfaction.

Future Vision and Continuous Development

ARI Defence Aviation regards GÖKYAR as a continuously evolving project. Based on user feedback from the field, ongoing development efforts include autonomous charging and flight capabilities, TRNAV integration for satellite-independent navigation, and adaptation of anti-jamming features.



LE DRONE POLYVALENT "GÖKYAR" EST PRÊT À ENTRER EN SERVICE !

ARI Defence Aviation conçoit, développe et fabrique en interne toutes les étapes de la production des drones, du logiciel à l'assemblage final. La société a développé le drone GÖKYAR spécialement pour soutenir les opérations de recherche et de sauvetage.

Principaux domaines d'application du drone polyvalent GÖKYAR

- **Services de sécurité :** sécurité des installations et des bases, surveillance et contrôle des zones désignées, opérations de jour comme de nuit.
- **Sécurité des frontières :** annonces multilingues enregistrées ou en direct dans les zones frontalières, éclairage et surveillance des angles morts, vols autonomes de patrouille frontalière, etc.
- **Exercices et formations :** gestion des exercices et des activités de formation, soutien opérationnel pendant les scénarios, transmission d'images et de vidéos en direct, alertes de foule dans les zones d'exercice, et contrôle et sécurité globale de la zone.
- **Recherche et sauvetage :** missions dans des environnements naturels ou urbains, établissement de contacts avec des personnes en détresse, transmission d'instructions et réception de réponses directes via un microphone intégré.
- **Gestion des catastrophes et des crises :** évaluation des dommages, communication des itinéraires d'évacuation et des points de rassemblement sûrs, coordination de l'aide humanitaire et orientation des équipes médicales vers les personnes dans le besoin.
- **Intervention en cas d'accident :** inspection sur place, imagerie et photographie des zones d'accident, localisation des victimes et guidage des premiers intervenants vers les lieux.
- **Services publics :** soutien aux municipalités, aux forces de l'ordre et à d'autres institutions publiques ou privées dans le cadre de l'exploitation des infrastructures, des inspections, des rapports et de l'assistance en cas de dysfonctionnement des réseaux d'électricité, d'eau ou d'égouts.
- **Contrôle des foules et maintien de l'ordre public :** surveillance, information et guidage lors de grands rassemblements tels que des rassemblements, des manifestations, des marches et des concerts.

Avantages techniques du drone polyvalent GÖKYAR

Durabilité opérationnelle : sa grande résistance aux atterrissages brutaux, au vent et aux conditions météorologiques défavorables garantit la continuité des missions.

- **Autonomie de vol prolongée :** sa structure composite légère lui permet de voler sans attache pendant 50 minutes. Avec un système d'attache, GÖKYAR peut rester en vol en continu pendant 24 heures.
- **Fiabilité :** sa construction robuste protège les équipements sensibles tels que les caméras, les lumières, les haut-parleurs et les microphones.
- **Lumière et son réglables :** les opérateurs sur le terrain peuvent facilement régler l'intensité lumineuse et les niveaux audio en fonction des exigences de la mission.
- **Caméra haute résolution :** permet aux opérateurs d'observer clairement les détails fins dans les zones ciblées ou éclairées.
- **Fonction microphone :** permet une communication bidirectionnelle, permettant aux personnes interpellées de répondre directement.
- **Capteurs anticollision :** préviennent les accidents en détectant et en évitant les obstacles.
- **Facilité logistique :** les batteries à remplacement rapide optimisent l'efficacité et la durée de la mission, tandis qu'une mallette de transport ergonomique améliore la portabilité et la facilité d'utilisation sur le terrain.
- **Assistance après-vente :** les mises à jour logicielles continues, la fourniture de batteries et de pièces de rechange, ainsi que les services d'entretien et de réparation garantissent la satisfaction à long terme des utilisateurs.

Vision d'avenir et développement continu

ARI Defence Aviation considère GÖKYAR comme un projet en constante évolution. Sur la base des commentaires des utilisateurs sur le terrain, les efforts de développement en cours portent notamment sur les capacités de recharge et de vol autonomes, l'intégration de TRNAV pour une navigation indépendante des satellites et l'adaptation des fonctions anti-brouillage.





ABRAMAK Information Technologies, located at Teknopark Istanbul-Türkiye, is an innovative company with its core competency in Integrated Communication Systems (ICS).

As its main role being Communications Systems Integrator, ABRAMAK provides modern technology, tailor made, turnkey integrated solutions for naval/maritime domain, as well as other defense users.

Abramak Naval Communication Suite (**ANCOMS™**), is a state-of-the-art IP based, fully integrated communications solution designed and built for the mission-critical, demanding requirements of naval domain. Our solutions are in service of nine navies worldwide.



ANCOMS™, provides ultimate convenience for the user for wired/wireless, voice/data, secure/non-secure communications tasks, by establishing seamless integration of all available internal and external communications assets.

ANCOMS™, modular and scalable architecture is suitable for both new build and re-fit projects from submarines to surface vessels of any size. Redundancy in hardware and software ensures efficient, uninterrupted, radio communications for ship-to-ship, ship-to-air, ship-to-shore for joint operations. Built to military standards, ANCOMS™ fits well to highly demanding operational environments.

ANCOMS™ accommodates switching, resource allocation, management and control of the fully integrated suite. Multi purpose user terminal stations (UTS), **converges** all onboard communication equipment into a single device.



Usage of the VoIP (Voice over IP) and RoIP (Radio over IP) enables efficient, reliable and cost-effective solutions with built-in capability for future upgrades.

ANCOMS™ integrates virtually all available external communication (radios, SatCom, Underwater telephony, Electro-optical comms) assets, regardless of their make & models.

But we also offer our own products such as: PAGA/Ship Entertainment System, Wireless Interior Communication System (WifCom), Ship Telephone system, SPT System, Message Handling System (MHS) etc.

Our **MHS** solution is compliant with NATO requirements and also compatible with SAMMS and Postman III solutions existing in the market.

We recently added our in-house design antennas to our product portfolio. We offer a wide range of **HF/VHF/UHF antennas for land and naval applications**.



ABRAMAK Information Technologies, située à Teknopark Istanbul-Turquie, est une entreprise innovante dont le cœur de métier est les systèmes de communication intégrés (ICS).

En tant qu'intégrateur de systèmes de communication, ABRAMAK fournit des solutions intégrées clés en main, modernes et sur mesure pour le domaine naval/maritime, ainsi que pour d'autres utilisateurs du secteur de la défense.

Abramak Naval Communication Suite (ANCOMS™) est une solution de communication IP de pointe, entièrement intégrée, conçue et développée pour répondre aux exigences critiques et strictes du domaine naval. Nos solutions sont utilisées par neuf marines à travers le monde.

ANCOMS™ offre une commodité optimale à l'utilisateur pour les tâches de communication filaire/sans fil, voix/données, sécurisées/non sécurisées, en établissant une intégration transparente de tous les actifs de communication internes et externes disponibles.

ANCOMS™, modular and scalable architecture is suitable for both new build and re-fit projects from submarines to surface vessels of any size. Redundancy in hardware and software ensures efficient, uninterrupted, radio communications for ship-to-ship, ship-to-air, ship-to-shore for joint operations. Built to military standards, ANCOMS™ fits well to highly demanding operational environments.

ANCOMS™ accommodates switching, resource allocation, management and control of the fully integrated suite. Multi purpose user terminal stations (UTS), converges all onboard communication equipment into a single device.

L'utilisation des technologies VoIP (voix sur IP) et RoIP (radio sur IP) permet de mettre en place des solutions efficaces, fiables et rentables, avec une capacité intégrée pour les mises à niveau futures.

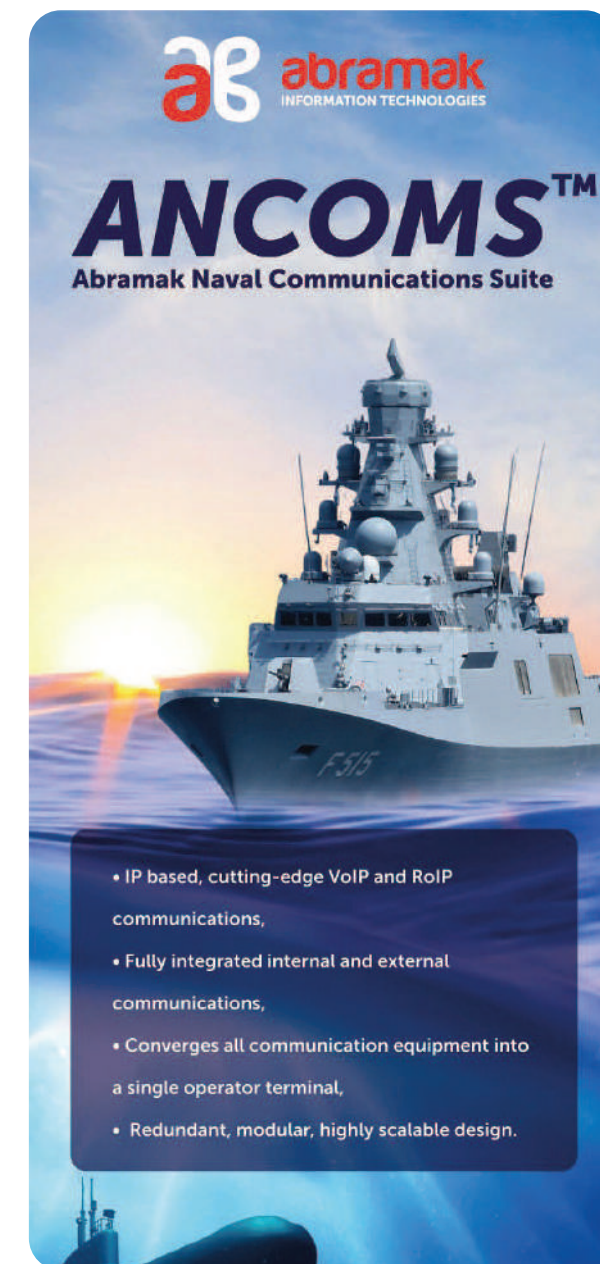
ANCOMS™ intègre pratiquement tous les équipements de communication externes disponibles (radios, communications par satellite, téléphonie sous-marine, communications électro-optiques), quels que soient leur marque et leur modèle.

Mais nous proposons également nos propres produits, tels que: le système de divertissement PAGA/Ship, le système de communication interne sans fil (WifCom), le système

téléphonique pour navires, le système SPT, le système de gestion des messages (MHS), etc.

Notre solution MHS est conforme aux exigences de l'OTAN et également compatible avec les solutions SAMMS et Postman III existantes sur le marché.

Nous avons récemment ajouté à notre gamme de produits des antennes conçues en interne. Nous proposons une large gamme d'antennes HF/VHF/UHF pour des applications terrestres et navales.



Solutions de formage des métaux Metal forming solutions

Les machines de formage des métaux d'OSM sont améliorées grâce à des solutions spécialisées développées pour l'industrie de la défense et jouent un rôle de premier plan pour répondre aux besoins de production essentiels de votre usine et ajouter de la valeur à vos opérations

Grâce à notre équipe d'ingénieurs expérimentés et à nos efforts intensifs en matière de recherche et développement, ces machines sont conçues pour offrir des performances fiables et durables. Nous sommes fiers de vous proposer des solutions de haute qualité qui serviront votre entreprise pendant de nombreuses années

OSM's metal forming machines are enhanced with specialized solutions developed for the defense industry and play a leading role in meeting your factory's core production needs and adding value to your operations.

Thanks to our experienced engineering team and intensive R&D efforts, these machines are built to deliver reliable, long-term performance. We take pride in bringing you high-quality solutions that will serve your business for years to come.

Presse à forger hydraulique Hydraulic forging press



Presse hydraulique Hydraulic press



Scan me!

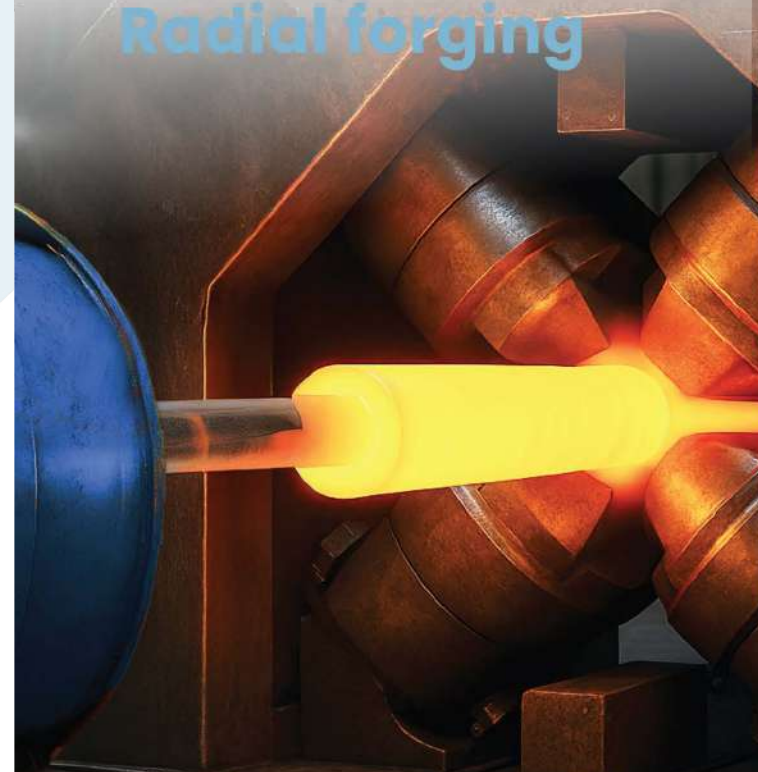
Presse excentrique Eccentric press



CSM
MAKINA

TRtech

Forgeage radial Radial forging



Frettage à chaud Hot spinning



Ligne de formage forming line

Ligne de production d'obus d'artillerie de 155 mm
155 mm artillery shell production line



CSM
MAKINA

TRtech

DEFENSEHERE MAGAZINE

DEFENSEHERE BECOMES THE MOST WIDELY DISTRIBUTED DEFENSE MAGAZINE IN THE WORLD

Distributed at defense industry fairs in 15 different countries in 2024, DefenseHere Magazine has become the most widely distributed publication among defense industry magazines worldwide.

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Reliable Supply, Strong Infrastructure, Superior Quality

Founded in 2017, Avas Metal Industry & Trade Inc. was established with the primary goal of addressing the raw material needs of the Turkish industry — particularly in the supply of alloy aluminum plates, sheets, rods, profiles, and seamless pipes, which have often faced supply challenges in the local market.

Our experience in the metal sector dates back to 1974 through our parent company, Ankara Bronz, one of Türkiye's top three comprehensive bronze foundries.

Today, Avas Metal operates in a 15,000 m² facility with a stock capacity exceeding 5000 tons, positioning itself as a leading aluminum supplier in Türkiye, Europe, and the Middle East.

Our Reach and Markets

Avas Metal proudly serves numerous industrial sectors across Türkiye that require special alloy aluminum.

In addition to our domestic operations, we have expanded internationally — exporting to many European and Balkan countries, including Belgium, Spain, Germany, Switzerland, Slovakia, Portugal, Serbia, Italy, the United Kingdom, and Bulgaria.

Thanks to our wide product range, extensive inventory, and strong logistics network, we provide our customers with fast, reliable, and flexible supply solutions around the globe.



Product Range

- Seamless & Welded Pipes
- Extruded & Drawn Rods
- Special Aluminum Profiles
- Flat Bars, Squares, Rectangles
- Sheets & Rolled Plates

Alloy and Temper Information

Alloy Codes: 2007, 2017, 2024, 5754, 5083, 6060, 6061, 6063, 7020, 7050, 7075

Temper Codes: H0, H111, H112, H131, H32, H321, T0, T3, T4, T5, T6, T7, T8, T351, T451, T4511, T651, T6511, T652, T74, T7451, T7351, T76511



Production & Size Capabilities

- Rods: Ø5 mm – 600 mm
- Pipes: up to Ø1 meter and custom sizes available
- Sheets: 0.5 mm – 6 mm
- Rolled Plates: 6 mm – 350 mm (width: 1000–2500 mm, length: 2000–6000 mm)

Technical Equipment & Services

Equipped with one slizer and one vertical saw machine, as well as modern CNC cutting and sizing systems, Avas Metal provides precision-cut materials tailored to customer requirements.

Our extensive stock and regular shipments to Europe and the Middle East enable us to deliver fast, reliable, and flexible supply solutions.

Quality Assurance

- AS9120 Aviation Certificate
- ISO 9001 Quality Management System
- Products comply with AMS, ASTM, EN, GB, and TSE standards.

Commitment to Defense & Aviation

Avas Metal is proud to contribute to Türkiye's defense and aviation industries, supplying high-performance alloy aluminum materials that meet the most demanding standards.



Approvisionnement fiable, infrastructure solide, haute qualité

Fondée en 2017, Avas Metal Sanayi ve Ticaret A.Ş. a pour objectif de répondre aux besoins en matières premières de l'industrie turque. Notre mission est notamment d'éliminer les difficultés rencontrées dans l'approvisionnement en tôles, plaques, barres, profilés et tubes sans soudure en alliage d'aluminium.

Notre longue expérience dans le secteur métallurgique remonte à 1974, date de création de notre société mère Ankara Bronz. Aujourd'hui, Avas Metal est l'un des principaux fournisseurs d'aluminium en Turquie et dans la région, avec une capacité de stockage de plus de 5 000 tonnes dans ses installations modernes de 15 000 m².

Nos marchés et notre domaine d'activité

Chez Avas Metal, nous fournissons nos services à de nombreux secteurs industriels qui ont besoin d'aluminium à alliage spécial dans toute la Turquie.

Nous avons acquis une position solide non seulement sur le marché national, mais aussi sur les marchés internationaux.

Nous exportons régulièrement vers les pays européens et balkaniques, notamment la Belgique, l'Espagne, l'Allemagne, la Suisse, la Slovaquie, le Portugal, la Serbie, l'Italie, le Royaume-Uni et la Bulgarie.



Grâce à notre large gamme de produits, notre capacité de stockage élevée et notre puissance logistique, nous offrons à nos clients des solutions d'approvisionnement rapides, fiables et flexibles.

Nos groupes de produits

- Tubes sans soudure et soudés
- Barres extrudées à chaud et étirées à froid
- Profilés en aluminium à section spéciale
- Profilés plats, carrés et rectangulaires
- Plaques et tôles laminées

Options d'alliages et de températures

Codes d'alliage : 2007, 2017, 2024, 5754, 5083, 6060, 6061, 6063, 7020, 7050, 7075

Codes de trempe : H0, H111, H112, H131, H32, H321, T0, T3, T4, T5, T6, T7, T8, T351, T451, T4511, T651, T6511, T652, T74, T7451, T7351, T76511



Production et plages de dimensions

- Barres : Ø5 mm – 600 mm
- Tubes : jusqu'à Ø1 mètre et dimensions spéciales
- Plaques : 0,5 mm – 6 mm
- Plaques : 6 mm – 350 mm (1000–2500 mm de largeur, 2000–6000 mm de longueur)

Équipements techniques et services

Notre entreprise assure la production et la fourniture de produits aux dimensions précises grâce à des systèmes modernes de découpe et de tronçonnage CNC, notamment des scies à ruban et des scies à colonne.

Notre grande capacité de stockage et notre réseau de livraison régulier vers l'Europe et le Moyen-Orient nous permettent d'offrir à nos clients des solutions rapides et flexibles.

Assurance qualité

- Certificat aéronautique AS9120
- Système de gestion de la qualité ISO 9001
- Nos produits sont conformes aux normes AMS, ASTM, EN, GB et TSE.

Notre contribution au secteur de la défense et de l'aéronautique

Avas Metal est fière de contribuer à l'industrie de la défense turque.

Nos matériaux en alliage d'aluminium de haute qualité répondent aux exigences de qualité les plus strictes des secteurs de l'aéronautique, de la défense et de la construction mécanique.

Chez Avas Metal, nous continuons à contribuer au développement de l'industrie turque grâce à nos produits certifiés, fiables et de haute qualité.





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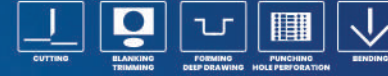


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SHEET METAL WORKING MACHINES
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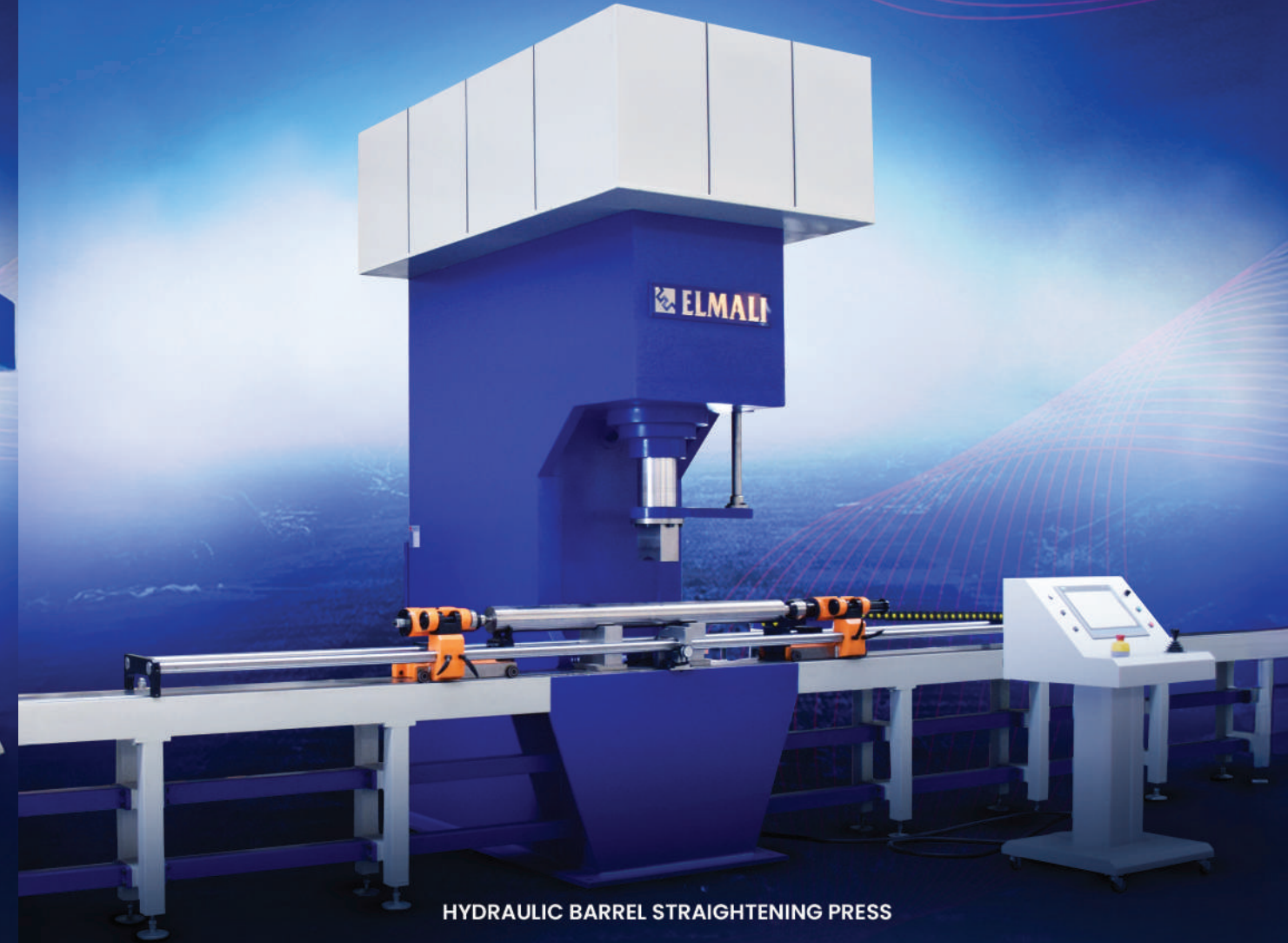
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MACHINES FOR COMPOSITE MATERIALS



HYDRAULIC BARREL STRAIGHTENING PRESS



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WHERE TECHNOLOGY MEETS THE PULSE



About Us

- Vipulse is a leading high-tech manufacturing company specializing in electronic assembly and cabling solutions for the automotive, defense and medical industries.
- With our strategic investment in Hungary, we have expanded our global footprint with a state-of-the-art production facility covering 4,000m².
- Our operations are driven by a commitment to precision, quality, and innovation, and we adhere to the highest international industry standards.
- At Vipulse, we are dedicated to advancing technology and strengthening industrial ecosystems through sustainable, high-value manufacturing.

Learn about our capabilities

Efficiency | Quality | Accuracy

-  4 000 m2 cleanroom production area
-  6 high performance SMT lines, selective and wave solder, conformal coting, ICT, FCT
-  Manufacturing area covered by 3D optical inspection
-  Data driven production control

Our SMT Capability

- **Placement headroom:** Up to 900 000 CPH (18× Panasonic NPM W2)
- **Throughput (6 lines):**
 - Simple builds: ~870 boards/hour
 - Medium builds: ~590 boards/hour
 - Complex builds: ~410 boards/hour
- **Quality & stability:** Full 3D SPI/AOI, vacuum/N₂ reflow options, end-to-end traceability
- **Scalability:** 6 identical lines, rapid changeovers, standardized spares & know-how



Machine portfolio

All production lines are identical, equipped with fully in-line 3D inspection and advanced process control systems.

- 18× Panasonic NPM W2 high-speed placement machines per line
- 6x In-line 3D SPI & 3D AOI systems for full process verification
- 6x In-line laser marking system with optical verification
- 5x Ersa N₂ Reflow Ovens
- 1x N₂ Vacuum Reflow System
- 3D X-ray inspection system for BGA, QFN and hidden solder joints
- Flying Probe ICT for electrical testing
- Ersa 3x Wave & 4x Selective Soldering Systems for THT components
- 2x Fuji THT Insertion Machine for through-hole assembly
- Conformal Coating Line for protective finishing
- FCT (Functional Test) stations for final validation

Key Benefits

- Identical line setup ensures process stability and cross-line interchangeability.
- Full traceability and process control from laser marking to FCT.
- Designed to meet automotive, industrial, and defense quality requirements.
- Flexible configuration for both high-mix and high-volume production.

Wire Harness

Reliable Cable Assembly Solutions

VI-PULSE Technology provides reliable, innovative, and sustainable solutions in cable assembly production. All processes such as cable cutting, stripping, crimping, soldering, testing, and connector assembly are performed with high precision and efficiency, fully compliant with the AS9100 quality standard.

Integrated Manufacturing Structure

Our facility is designed to operate under a unified structure, offering not only PCB assembly but also comprehensive cable harness and electromechanical integration services. Each stage of production is monitored with advanced automation and process control systems to ensure consistency, traceability, and superior quality.

Continuous Improvement & Future Goals

We are committed to continuous development by expanding our quality management system with the IATF 16949 standard. Through lean manufacturing techniques and automation-driven production, VI-PULSE aims to enhance efficiency, reduce waste, and strengthen its position as a trusted partner in global manufacturing.

Planned Investments

- Four SMT lines , two production lines are identical, equipped with fully in-line 3D inspection and advanced process control systems.
- 6× Hanwha Decan high-speed placement machines per line
- 2x In-line 3D SPI & 3D AOI systems for full process verification
- 1x In-line laser marking system with optical verification
- 4x Heller N₂ Reflow Ovens
- 1x Ersa Selective Soldering Systems for THT components
- 4x Europlacer ii-P7 Screen printer
- 1x Nordson X-ray inspection system for BGA, QFN and hidden solder joints
- 1x Nordson X-ray component counter
- 1x TTNS Conformal Coating Line for protective finishing
- 1x Pemtron Twins THT 3D AOI systems through-hole assembly
- 1x Pemtron conformal coating 3D AOI systems
- 1x Auretek depanelling system
- 1x PBT pcb cleaning machine
- 1x PBT stencil cleaning machine



The Name of Local Strength in Defense

Established in 2012 to provide high-quality products and services to public institutions and private companies in the defense and security industries, FORA GROUP has become a globally recognized brand with its local production power and original designs. Founded with the vision of becoming a leader in Turkey, the company now proudly exports to 32 countries in 13 years, achieving significant milestones on its global journey.

FORA GROUP delivers fully local solutions for the design, installation, maintenance, and supply of trauma simulation centers, as well as software and hardware integration. With deep technical expertise, the company has successfully completed key projects currently in use by the Turkish Armed Forces, solidifying its position as a trusted national partner in defense innovation.

As both a domestic manufacturer and official distributor of globally recognized brands specializing in tactical medical solutions, FORA provides end-to-end support for tactical operations. From tactical medical equipment to tactical textiles and mission-ready gear, we offer all critical solutions under one roof — ensuring seamless functionality in the field.

Ranked as the 33rd and 22nd fastest-growing company in Turkey in 2019 and 2020, respectively, FORA GROUP continues to expand its ecosystem with 120 dedicated professionals, strong suppliers, and an innovative spirit.

With a commitment to durability, reliability, and functionality, we proudly stand by our mission: keeping professionals Mission Ready — anytime, anywhere.



Visit FORA in
5D-181

Visitez FORA
dans l'ite 5D-181

Le nom de la puissance locale dans le domaine de la défense

Fondé en en 2012 dans le but de fournir des produits et services de qualité aux institutions publiques et aux entreprises privées dans les secteurs de la défense et de la sécurité, FORA GROUP est aujourd'hui devenu une marque de référence sur la scène internationale grâce à ses capacités de production locale et ses conceptions originales. Notre entreprise, qui s'est lancée avec l'objectif de devenir leader dans son domaine en Turquie, a atteint une position solide à l'échelle mondiale en exportant vers 32 pays au cours des 13 dernières années.

FORA GROUP fournit des services tels que la conception, l'installation, la maintenance et la réparation de centres de simulation de traumatismes, la fourniture de consommables, l'intégration de logiciels et de matériel, en utilisant exclusivement des ressources locales. Grâce à son expertise technique et à son



expérience dans ce domaine, elle a joué un rôle important dans la réussite de nombreux projets stratégiques activement utilisés par les forces armées turques.

Il opère également en tant que fabricant local et distributeur de marques mondiales spécialisées dans les solutions médicales tactiques. Il est ainsi en mesure de fournir, sous un même toit et selon une approche systémique intégrée, les solutions médicales, textiles et équipements tactiques nécessaires dans les zones d'opération.



DEFENSEHERE INTERVIEWS

EDGE expands in Latin America with investments and joint programs

EDGE



Iveco Defence Vehicles in Focus: Expanding Lineup and Global Reach

IDV



Red Cat brings tough and smarter drones to the battlefield

RED CAT



BAE Systems' CV90120: High Firepower, Less Weight

BAE SYSTEMS



Gladiator 13 by Thales offers realistic simulation for armed forces

THALES



Boeing Defense displayed its products at Egypt International Airshow

BOEING



Lockheed Martin signs three new agreements at IDET 2025

LOCKHEED MARTIN



Viper Shield: L3Harris' digital armor for the F-16

L3HARRIS



Airbus H145 and Flexrotor address multi-mission operational demands

AIRBUS



Sikorsky's Black Hawk Still Sets the Standard After 40 Years

SIKORSKY



DEFENSEHERE INTERVIEWS

Inside John Cockerill's 3105 Turret and FNSS partnership

John Cockerill



Word Defense Show 2024: Naval Group's vision for Saudi Defense

NAVAL GROUP



What is Embraer Defense and Security doing in 2023?

EMBRAER



Patria's SONAC ACS and 120 mm mortar at EURONAVAL

Patria



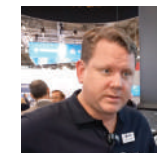
ASW Frigates and Beyond – Damen at Euronaval 2024

DAMEN



Autonomous Ocean Core: Saab's cutting-edge maritime control system

SAAB



KAI proposes FA-50 as future asset for Iraq

KAI



Navantia eyes long term presence in Türkiye

Navantia



What makes NASAMS unique? Kongsberg VP explains

KONGSBERG



LIG at IDEX 2025: L-SAM, M-SAM2 and growing influence in the region

LIG



DEFENSEHERE INTERVIEWS

Mitsubishi Electric showcased satellite innovations at ADAS 2024



Leonardo presents its Virtual and Extended Reality Simulator



Airbus official highlights mutual benefits of Türkiye-Eurofighter cooperation



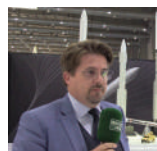
Bombardier explores partnerships for Middle East expansion



Bombardier



MBDA supports Saudi Vision 2030 at WDS 2024



Hanwha Aerospace's vision for 6th-gen jet engines



Hanwha



Proven tech: UK's IrvingQ offers solutions in aerial delivery



KNDS CAESAR self-propelled howitzer the best solution worldwide for artillery?



Hensoldt "committed to support Saudi Vision 2030"



Inside Hyundai Rotem's K2 Main Battle Tank and Altay Cooperation with Türkiye

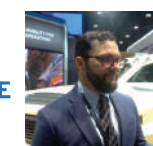


DEFENSEHERE INTERVIEWS

AeroVironment introduces JUMP 20-X and P550 at IDEX 2025



GM Defense showcases "Next Gen" tactical vehicle at IDEX 2025



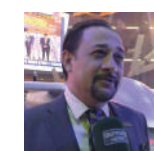
Hyundai WIA's new tactical artillery system aims to boost battlefield agility



SIG SAUER reveals US Army's next-gen firearms at IDEX 2025



Shahpar III and beyond: Pakistan's GIDS expands global reach



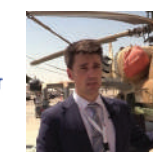
Combat vehicles get smarter with Indra's "Maestre" mission system



General Atomics restarts production of the upgraded Do228



Rosoboronexport unveils their combat scout-attack helicopter KA-52E



Diehl Defence advances Counter-UAS capabilities with CICADA



BrahMos Aerospace presented upcoming technologies



FRANCE

France maintains one of Europe's most capable and globally engaged armed forces, underpinned by a robust industrial base, an independent nuclear deterrent, and a clearly articulated modernization agenda. The country's defense posture reflects its dual orientation as both a European power and a worldwide security actor with enduring overseas interests. The Armed Forces, comprising the Army, Navy, Air and Space Force, Strategic Forces and the Gendarmerie are structured to deliver rapid deployment, strategic deterrence, and sustained expeditionary operations. France remains the only European Union member with a full-spectrum capability set that includes nuclear forces, carrier aviation, advanced air defense, and long-range power projection assets.

Defense Capabilities

The French Armed Forces count approximately 202,200 active personnel, with reserves exceeding 70,000. France's defense doctrine is anchored in strategic autonomy, combining nuclear deterrence, conventional readiness, and expeditionary flexibility. The Army (Armée de Terre) continues its transformation under the Scorpion program, which is modernizing mechanized brigades with Griffon multi-role armored vehicles, Jaguar reconnaissance vehicles, and Serval light armored platforms. These systems, integrated through the SICS digital command architecture, enhance network-centric warfare capability across joint operations.

Heavy firepower remains centered on the Leclerc main battle tank fleet, currently undergoing mid-life upgrades to the XLR standard. Artillery modernization includes the CAESAR 155mm self-propelled howitzer, widely deployed and exported, complemented by the Mistral and future MMP missile systems for close and medium-range air defense and anti-armor missions. The Army also maintains airborne and rapid-reaction units, notably the 11th Parachute Brigade and the Franco-German Brigade, which serve as key elements of NATO's forward presence and European defense cooperation.

The French Navy (Marine Nationale) is one of the most capable maritime forces in the world, operating both nuclear-powered attack submarines and a nuclear-powered aircraft carrier. The Charles de Gaulle carrier remains the centerpiece of French maritime power projection, operating Rafale M multirole fighters, E-2C Hawkeye early warning aircraft, and helicopter elements. The navy's strategic deterrence relies on the Triomphant-class SSBNs equipped with M51 submarine-launched ballistic missiles, providing the sea-based leg of the nuclear triad.

Conventional naval power is built around FREMM and Horizon-class frigates, supported by multi-mission corvettes and offshore patrol vessels designed for both homeland and overseas deployments. Amphibious capacity rests on the Mistral-class landing helicopter docks, used extensively in humanitarian and expeditionary operations. The ongoing Suffren-class Barracuda program introduces a new generation of nuclear-powered attack submarines equipped with cruise missiles and advanced sonar suites, ensuring undersea dominance into the 2030s.



The Air and Space Force (Armée de l'Air et de l'Espace) maintains around 220 combat aircraft, with the Dassault Rafale F3R as the principal multirole platform. New F4 standard upgrades are in progress, improving connectivity, electronic warfare, and weapon integration. The force also includes A330 MRTT Phénix tankers, A400M Atlas transport aircraft, and C-130J units for strategic and tactical lift. The modernization of France's air command and control network integrates space-based assets and new-generation radar systems for national and allied air defense.

France operates a substantial unmanned aerial capability, including MALE drones such as MQ-9 Reaper and the Eurodrone under development. Space operations are directed by the French Space Command, which was established in 2019 to safeguard national orbital assets and enhance situational awareness. Air and missile defense relies on the SAMP/T system (Aster 30), part of Europe's integrated air defense network.

Expeditionary readiness remains a core feature of French defense identity. Permanent overseas bases in Djibouti, the Sahel, the Pacific, and the Caribbean support global mobility. Participation in multinational missions such as Barkhane, Takuba, and EU naval operations underscores France's strategic reach.

Defense Industry

France possesses one of the most mature defense industrial ecosystems in the world, with companies such as Dassault Aviation, Thales, Naval Group, MBDA, Safran, and Nexter forming the backbone of its Defense Technological and Industrial Base (DTIB). The sector combines government oversight with strong private leadership and is supported by the Directorate General of Armaments (DGA), which coordinates procurement and R&D.

The national industrial model emphasizes sovereignty in critical technologies; nuclear propulsion, missiles, avionics, space systems, and shipbuilding while actively engaging in European collaborative programs. The ongoing Future Combat Air System (FCAS) program, developed with Germany and Spain, is central to Europe's next-generation air combat ambitions, integrating crewed and uncrewed systems through a networked "system of systems" approach.

Land systems modernization continues under KNDS (KMW + Nexter Defense Systems), focusing on the Main Ground Combat System (MGCS), which will replace the Leclerc and Leopard 2 tanks in the 2030s. France's missile house, MBDA, is Europe's largest integrated missile manufacturer, supplying Aster, MICA NG, Exocet, and SCALP cruise missile families to both national and allied users. MBDA is also positioned to lead the proposed European Long-Range Strike Approach (ELSA), potentially developing a 1,000–2,000 km range cruise missile by the 2030s.

Naval Group, in partnership with the DGA, is advancing the Barracuda-class submarine series and developing the SNLE 3G strategic submarines for the 2030s. The firm is also exporting Scorpène-class conventional submarines to countries such as India, Brazil, and Indonesia. Meanwhile, Thales and Safran dominate radar, optronics, avionics, and sensor systems, enabling France to maintain domestic control over electronic warfare and precision navigation technologies.

France remains Europe's second-largest defense exporter, accounting for around 11 percent of global arms sales. The Rafale fighter has become the cornerstone of this success, with major contracts concluded with Egypt, India, Greece, Indonesia, and the United Arab Emirates. French naval exports continue to thrive through FREMM and Gowind-class vessels, while land systems and missiles also sustain a strong presence in the Middle East and Asia-Pacific.

Industrial innovation is encouraged through the European Defence Fund (EDF) and European Defence Industry Reinforcement through common Procurement Act (EDIRPA), both of which support R&D collaboration among EU partners. French industry benefits significantly from these frameworks, with the European Defence Industrial Programme (EDIP) and Act in Support of Ammunition Production (ASAP) aligning with Paris's goal of bolstering European strategic autonomy.

PSource: Military Balance 2025





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International Defence Industry Fair



IDEF 2025 STATISTICS

229 Delegations
967 Delegation Members

114 Countries
121.753 Visitors

49 Countries
1.491 Exhibitors

270 Signing Ceremonies
6.301 Planned Meetings

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