

ASELSAN-organization that transforms knowledge into power and trust

ASELSAN is a company of Turkish Armed Forces Foundation, established in 1975 in order to meet the communication needs of the Turkish Armed Forces by national means. Currently 74,20% of the shares are owned by the Foundation whereas the remaining 25,8% runs in İstanbul Borsa stock market.

ASELSAN is the largest defense electronics company of Turkey whose capability/product portfolio comprises communication and information technologies, radar and electronic warfare, electro-optics, avionics, unmanned systems, land, naval and weapon systems, air defence and missile systems, command and control systems, transportation, security, traffic, automation and medical systems. Today ASELSAN has become an indigenous products exporting company, investing in international markets through various cooperation models with local partners and listed as one of the top 100 defence companies of the world (Defense News Top 100). *Page 3*



Canada reportedly unfreezes Türkiye talks on defense export controls

Canada has decided to resume talks with Türkiye on lifting export controls on drone parts after Ankara agreed to support Sweden's bid to join NATO, a person familiar with the talks said, a move seen as one of several concessions won in exchange for the Turkish blessing.

President Recep Tayyip Erdoğan's green-light ended more than a year of opposition to Sweden's membership bid. Ankara held out on the ratification, accusing Sweden of doing too little against terrorist organizations such as the PKK, its affiliates, and the Gülenist Terror Group (FETÖ), the group behind the 2016 defeated coup in Türkiye. *Page 3*

THE STRENGTH OF TÜRKİYE: LOCAL DEFENSE INDUSTRY TO JOIN FORCES WITH MKE AND SAHA ISTANBUL SUPPORT



With the vision of Türkiye's National Technology Initiative, the country's indigenous Defense Industry power, Makine Kimya Endüstrisi (MKE), collaborated with SAHA Istanbul, Europe's largest industrial cluster. Their goal was to develop the future vision of the sector by bringing together suppliers and companies in an organization held in Ankara. The meeting, which aimed to align potential suppliers with MKE's strategy of cooperating with the local and national

industry, received significant interest. The first-ever "Meeting with Defense Industry Suppliers" gathered 1274 participants and 612 companies. During the meeting, MKE factories provided information, and a record number of 918 B2B meetings were conducted.

One of the most important forces in the development of Türkiye's indigenous and national defense industry, Makine Kimya Endüstrisi (MKE), and SAHA Istanbul, Europe's largest industrial cluster that provides significant support in bringing the sector under one roof and generating new collaborations, jointly hosted an important meeting in Ankara. The event, held at ATO Congressium, brought together MKE and potential suppliers, with a high level of participation, including 1274 participants and 612 companies. *Page 6*

MKE becomes a global player in its field of specialization



The Machinery and Chemical Industry Institution-MKE is transformed to Mechanical and Chemical Industry Incorporated Company to upgrade its mission and vision. MKE has pioneered the Turkish defence sector, and is deeply rooted in Turkish history. Its foundation is assumed to be dating back to the 15th century's Ottoman Empire. MKE was known by different names holding distinct statuses over time, and its core is the cannon foundry to have been built by Mehmet the Conqueror following Istanbul's conquest. *Page 3*



We are at IDEF'23, on July 25-28, 2023

IDEF'23, 16th International Defence Industry Fair will be organized on the dates between July 25-28, 2023, under the auspices of the Presidency of the Republic of Türkiye, hosted by Republic of Türkiye Ministry of National Defence, supported by the Presidency of The Republic of Türkiye Defence Industry Agency, under the management and responsibility of the Turkish Armed Forces Foundation and organized by TÜYAP Fairs and Exhibitions Organization Inc. at TÜYAP Fair Convention and Congress Center in İstanbul.

Exhibited products and services:

- Land defense
- Naval defense
- Aviation and Aerospace
- Logistic Support Activities
- Security

IDEF International Defence Industry Fair, which is one of the 4 largest defence industry fairs in the world and where International Defence Industry companies exhibit their products, received a passing grade in 2021 from visitors and exhibitors.

At the fair held in İstanbul in 2021, the opening was made by President Recep Tayyip Erdoğan, 163 delegations and 614 delegation members from 81 countries and 2 international organizations were hosted. The fair was attended by 1 president, 1 Vice President of the Presidential Council, 1 Prime Minister, 1 Deputy Prime Minister, 24 Ministers, 14 Chiefs of General Staff, 2 Deputy Chiefs of General Staff, 25 Force Commanders,

Türkiye's Havelsan expands export endeavors to Malaysia's navy

Havelsan, a leading Turkish company in the military and civil sectors, has achieved significant milestones at the 16th International Maritime and Aviation Fair (LIMA 2023) in Langkawi, Malaysia.

The company has signed three crucial agreements, demonstrating its commitment to advancing projects in Malaysia. Havelsan's Chairperson, Hacı Ali Mantar, expressed his satisfaction with the company's growing presence in Malaysia during an interview with Anadolu Agency (AA). He highlighted the establishment of Havelsan's official office in Malaysia in 2020 and their continuous efforts to become a trusted solution partner for the country. *Page 4*



US says to move forward with sale of F-16 jets to Türkiye

The United States will move forward with Türkiye's request to purchase F-16 fighter jets, a top official said, as diplomacy gained pace to resolve a prolonged process that has frustrated Ankara.

Türkiye has been seeking to buy 40 new Lockheed Martin F-16s as well as nearly 80 modernization kits for its existing warplanes from the U.S., looking to revamp and refresh its aging fleet.

The Biden administration has voiced its backing for the deal potentially worth around \$20 billion. "(President Joe) Biden has been clear and unequivocal – he supported the transfer of F-16s," Jake Sullivan, the U.S. national security adviser, told reporters. "He has placed no caveats or conditions on that and he intends to move forward." Speaking to reporters ahead of a summit of NATO leaders in the Lithuanian capital Vilnius, Sullivan did not give any details on the timing but said consultations would be held with Congress to move forward with the transfer. *Page 4*





Mehmet Soztutan
Editor-in-Chief

Letter From The Editor

Turkish defence industry-plugged into progress!

Türkiye has turned out to be a growing player in the global defense industry. The sheer number of international deals the country's defense firms have made in the last few years reveals rapidly rising demand, major R&D investment and a growing source of leverage for Türkiye's foreign relations.

The transformation has its roots in the early 2000s, when Ankara outlined a strategy to build a modern and self-sustained defense sector and encourage domestic investments. The two-decade long project, which continues to witness strong investment in local firms, is paying off as arms sales bolster Turkish influence abroad.

Turkish defence and aviation industry exports reached 554.3 million USD in May. The export volume exceeded two billion USD in the first five months.

Turkish Exporters Assembly (TIM) has announced the export figures of the Turkish Defence and Aerospace sector for May 2023. The industry had passed the 500 million USD threshold in March. It exceeded this volume with 554.3 million USD in May 2023.

The sector reached 4.3 billion USD worth of export in 2022, targeting six billion USD in 2023. The sector's exports were worth 2 billion 44 million USD in total in January-May 2023. During same period last year, between January and May 31, 2022, the sector reached 1.6 billion USD in export volume. Exports realised in the same period of 2023 indicate an increase of 22.5 per cent.

The sales bolster Türkiye's efficiency in the Gulf states and Europe, too. At IDEX, the Middle East's largest arms fair held in February in Abu Dhabi, Türkiye's presence was impossible to underestimate. Enormous Turkish-branded pavilions showcased everything from armored trucks and drones to assault rifles, tactical gear and laser-guided missiles.

This month, we participate in International Defence Industry Fair, IDEF 2023, which features a display of main battle tanks, armoured fighting vehicles, tracked vehicles, artillery systems, combat and support vessels, submarines, patrol boats, land vehicles, military space systems, radar systems, jamming systems, and much more.

As known, our publications remain at the service of those business people seeking to increase their share in the increasingly competitive foreign markets.

We are convinced that IDEF 2023 would be instrumental to increase business opportunities in the defence and the related industries.



THOUGHT OF THE MONTH

There are two types of economists:
- those who cannot forecast interest rates, and
- those who do not know that they cannot forecast interest rates.

PARADOX

Man walking along a road in the countryside comes across a shepherd and a huge flock of sheep. Tells the shepherd, "I will bet you \$100 against one of your sheep that I can tell you the exact number in this flock." The shepherd thinks it over; it's a big flock so he takes the bet. "973," says the man. The shepherd is astonished, because that is exactly right. Says "OK, I'm a man of my word, take an animal." Man picks one up and begins to walk away.

"Wait," cries the shepherd, "Let me have a chance to get even. Double or nothing that I can guess your exact occupation." Man says sure. "You are an economist for a government think tank," says the shepherd. "Amazing!" responds the man, "You are exactly right! But tell me, how did you deduce that?"

"Well," says the shepherd, "put down my dog and I will tell you."

A mathematician, an accountant and an economist apply for the same job.

The interviewer calls in the mathematician and asks "What do two plus two equal?" The mathematician replies "Four." The interviewer asks "Four, exactly?" The mathematician looks at the interviewer incredulously and says "Yes, four, exactly."

Then the interviewer calls in the accountant and asks the same question "What do two plus two equal?" The accountant says "On average, four - give or take ten percent, but on average, four."

Then the interviewer calls in the economist and poses the same question "What do two plus two equal?" The economist gets up, locks the door, closes the shade, sits down next to the interviewer and says "What do you want it to equal?"



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Responsible Editor:

Mehmet Soztutan
(mehmet.soztutan@img.com.tr)

Editors:

Assoc. Prof. Mehmet Ali Özbudun
Ayça Sarıoğlu
Dilara CİCA

Correspondent:

İsmail Çakır
(ismail.cakir@img.com.tr)

Marketing Manager:

Recep Arslantaş
(recep.arslantas@img.com.tr)

Arts Director:

Tayfun Aydın
(tayfun.aydin@img.com.tr)

Subscription:

İsmail Özçelik
(ismail.ozcelik@img.com.tr)

HEAD OFFICE:

İstanbul Magazine Group
İHLAS MEDIA CENTER
Merkez Mah. 29 Ekim Cad. No:11
Medya Blok Kat:1 34197

Yenibosna / İstanbul / Turkey

Tel: +90.212 454 22 22

Fax: +90.212 454 22 93

www.img.com.tr - img@img.com.tr

LIAISON OFFICES

BURSA:

Ömer Faruk Görün

Buttim A Blok Kat: 4

No: 4029 Bursa / Turkey

Tel : (90.224) 211 4450 - 51

Fax: (90.224) 211 4481

KONYA:

Metin Demir

H. Ulusahin Is Mrkz. C Blok

No: 603-604-605 Konya / Turkey

Tel : (90.332) 238 10 71

Fax: (90.332) 238 01 74

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Yenibosna - Bahçelievler

İstanbul / Turkey

Tel: (90 212) 454 30 00

Fax (90 212) 454 34 83

PLEASE MENTION



WHEN CONTACTING ADVERTISERS

THE ECONOMIST

What is economics?



Well...



Economics is the only field in which two people can get a Nobel Prize for saying exactly the opposite thing.



DAĞLIOĞLU SİLAH

Hamidiye Mah. 1102 Sokak Beyşehir - KONYA

info@daglioglusilah.com.tr

Tel: +90 332 500 00 04



DAĞLIOĞLU SİLAH VE AV TUFEKLERİ



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ASELSAN, together with the technology emphasis in its vision, has targeted to be a company that maintains its sustainable growth by producing value in the global market; preferred due to its competitiveness, trusted as a strategic partner, and caring for the environment and people. Together with the highly qualified engineering staff within more than 7.000 employees, being the main driving factor of the company's success, ASELSAN allocates 7% of its annual income for self-financed research and development activities. According to officials of ASELSAN: It is an important part of our company vision that ASELSAN's leadership in the defense industry inspires innovative activities in the ecosystem and that the innovative ideas of stakeholders in the ecosystem are implemented together. Hence, the Innovation Vision of ASELSAN is to maintain the sustainable growth of our company, to support the protection of its competitiveness, to ensure the highest level of

innovation capability in order to reinforce its technological leadership, and to make the innovation culture an important element of our company.

ASELSAN TECHNOLOGY MANAGEMENT
At ASELSAN, the technology leader of the Turkish Defense Industry and a mission company, technology management is carried out in coordination with ASELSAN strategy management processes. The technologies to be focused on in line with the targets set in the ASELSAN Strategic Plan are reflected in the ASELSAN Technology Roadmap and Investment Plan targets, and are shaped in line with technology analysis and forecasting studies. In this direction, Technology Trend Analysis Reports are prepared, which are analyzed by the world's leading organizations and include emerging technology areas that can be described as breakthroughs and technology trends that will gain importance in the future. With these studies, it is aimed to give a broad perspective

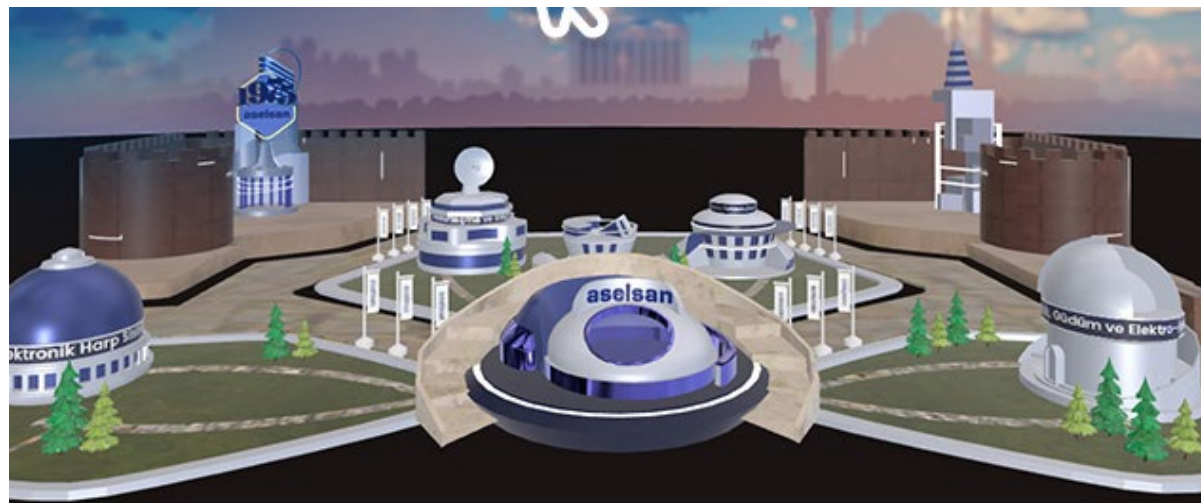
ASELSAN-organization that transforms knowledge into power and trust

on the technologies of the future by examining technologies from the perspective of multiple disciplines, and the relationship of these technologies with ASELSAN technologies is examined and analyzed.

The Technology Roadmap and Investment Plan is a plan prepared with a holistic approach by addressing many planning topics such as product, information asset, process and capacity planning for the studies to be carried out in a five-year period, and includes R&D projects and technological investments that ensure the technological developments targeted to be achieved, and resource needs.

In the ASELSAN Technology Roadmap and Investment Plan, the technologies to be acquired, developed or transferred to subcontractors are categorized under main and sub-technology headings in accordance with the Technology Taxonomy of the Presidency of Defense Industry. Currently, there are more than 160 main technologies and approximately 1000 sub-technologies whose technological development is planned under main technologies.

Technology management activities, equity-funded R&D projects and technological investments carried out by Sector Presidencies are carried out in



the light of this plan. Each year, ASELSAN allocates approximately 7% of its turnover for equity-funded R&D projects within this plan.

The technological development targets set out in the Technology Roadmap and Investment Plan are monitored in accordance with the definitions of Technology Readiness Levels used worldwide. Technological development is monitored through Technology Readiness Level measurements as a performance indicator and the measurements are reflected in the scorecard of the sector heads and ASELSAN.

The management, reporting and valuation of the multifaceted data contained in the Technology Roadmap and Investment Plan

are systematically integrated with the Enterprise Resource Planning system.

Our universities are among the most important stakeholders of defense industry organizations whose main capital is highly qualified human resources. In addition to providing trained manpower and training opportunities, our universities are increasingly contributing to the industry's technology development activities. We have many projects that are being developed indigenously within the scope of university- industry cooperation in order to carry out basic research at universities and then industrialize these applications at ASELSAN. In addition, as an activity supporting

open innovation, subject-based workshops are organized with the participation of universities, and innovative projects are implemented with the new ideas formed here.

ASELSAN has collaborated with 66 universities to date in order to acquire new technologies and to further improve our existing systems, and a total of 170 million dollars has been transferred to these cooperation projects.

As of 2021, the number of active projects being carried out with universities is 134, with 82 new equity-funded R&D projects initiated in 2021 alone, and cooperation with 26 universities in addition to around 150 SMEs and subcontractors.

Canada reportedly unfreezes Türkiye talks on defense export controls

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Erdoğan's decision, announced ahead of a North Atlantic Treaty Organization summit in Vilnius, was followed quickly by a statement from Washington that the United States would move ahead with a transfer of F-16 fighter jets in consultation with Congress.

In a potentially significant move for Türkiye's defense industry, NATO member Canada agreed to reopen talks on lifting export controls on drone parts including optical equipment, the person familiar with the talks told Reuters, declining to be identified because they were not authorized to discuss details with media.

Canada suspended the export of some drone technology to Türkiye in 2020 after concluding the equipment had been used by Azerbaijan's forces during the war in the Armenian-occupied Karabakh region.

Those export controls, which "were imposed for important reasons," remain in place, Canadian Prime Minister Justin Trudeau's office said in a statement.

"The Prime Minister discussed Sweden's accession to NATO with our partners in Vilnius, including with President Erdogan," the statement said.

"Canada remains committed to the principle that there should be no restrictions, barriers or

sanctions to defense trade and investments among allies."

The curbs prompted Turkish defense companies to produce the embargoed parts themselves. The famed Bayraktar TB2 unmanned combat aerial vehicles (UCAVs) have been recently equipped with a domestically made Common Aperture Targeting System (CATS), developed by the pioneering defense manufacturer Aselsan to replace Canadian-made ones.

Ahead of the NATO summit, Türkiye, already seeking assurances over the F-16s in talks with Washington, asked that Canada's export controls also be rolled into the final discussion, the person familiar with the talks said. Türkiye sought "a package deal," the person said.

Canada agreed to reopen talks on the matter that had been frozen since Türkiye initially objected to NATO membership bids by both Sweden and Finland last year as long as Ankara pledged to ratify Sweden's bid at Vilnius, the person said.

At Vilnius, Canada reportedly outlined its position to Türkiye on rules regarding the uses of any exported technologies and was awaiting a response. This means the talks on export controls are no longer frozen, a move that helped play a role in sealing Erdoğan's pledge over Sweden, the person said.



Asked whether Türkiye was in talks with Canada to lift export curbs, a Turkish Defense Ministry official said it was unacceptable for NATO allies to impose export restrictions on each other and "a certain progress has been made at the Vilnius Summit on that issue." "But we will follow the results of the negotiations and decision taken at the Vilnius summit," the official said.

In an interview with Turkish media published, Erdoğan said his country expects all NATO allies to lift sanctions and restrictions on its defense industry.

Erdoğan said he was "more hopeful than ever" about the sale of the F-16 fighter jets, after

meeting with U.S. President Joe Biden a day earlier. Türkiye had requested in October 2021 to buy \$20 billion of F-16 fighters and nearly 80 modernization kits for its existing warplanes.

Türkiye has delayed its final approval of Sweden's membership in NATO, accusing the country of being too lenient toward anti-Islamic demonstrations as well as terrorist entities, particularly the PKK, which is designated a terrorist group by the United States and the European Union.

Sweden and Finland applied for NATO membership last year in response to Russia's invasion of Ukraine, abandoning policies of military non-alignment that had lasted through the decades of the Cold War.

Türkiye's Parliament ratified Finland's membership in March after Erdoğan said Helsinki had taken concrete steps to crack down on terrorist groups, and to free up defense exports.

Erdoğan said he would forward Sweden's ratification to Parliament when it reopens in October, adding Stockholm would provide a roadmap to Türkiye regarding the steps it would take before the approval.

Devlet Bahçeli, the leader of the Nationalist Movement Party (MHP), Erdoğan's main ally, said that Sweden had failed to distance itself from terrorism, but added that the president would make the final call about Stockholm's membership bid.

Erdoğan has also said he expects steps from the EU, including updating the Customs Union and visa-free travel, before Türkiye begins "work on implementing the promises (it) has made."



We are at IDEF'23, on July 25-28, 2023

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11 Deputy Ministers, 1 Undersecretary and many civilian and military procurement authorities.

At IDEF'21 which hosted 1.238 companies from 53 countries, important commercial connections were established in meetings between local and foreign exhibitors and delegations and 4.055 scheduled meetings and stand visits and 94 signing ceremonies were held. The fair, which attracted great attention of visitors, was visited by 68.795 professionals from 94 countries.

The visitors and exhibitors' interest will remain in the study conducted with the participants and visitors of the fair, the extent to which their expectations were met and their evaluations were taken.

Press members from many countries followed the fair, where domestic and foreign defence industry products were exhibited on an area of 120.000 sqm.

98% of the visitors stated that "they plan to visit the next fair", 99% are "satisfied" and 90% "recommend the fair".

MKE becomes a global player in its field of specialization

It continuously upgrades its wide-ranging capabilities to meet the arms and ammunition needs of the Turkish Armed and Security Forces. MKE has grown its export capacity and intensified its research and development studies. The aim is to offer modern technologies and low cost but highly qualified products using domestic know-how and experience.

From 2019 on, MKE ranks among the top 100 Industrial Enterprises of Türkiye. It continues its activities with the power it has acquired from its history and the awareness of its national mission.

The defence industry is not the sole field for which MKE manufactured products. MKE used to manufacture a wide range of civil products in its facilities. In the 1950s, the first Turkish single-engine aircraft called UĞUR 44 was made. Rail Rolling, sheet metal products and brass material, particular steel rolling mill, pig and ductile iron foundry, electricity meter, military battery are some others first produced by MKE.

As an organization having led the newly developing industry branches, it also contributed with its qualified labour-power and technological strength to establishing such organizations as Türk Traktör, Engine and Tractor Industry Inc. (TÜMOSAN), Turkish Automobile Factory Inc. (TOFAŞ) and Turkish Fertilizer Industry A.Ş. (TÜGSAŞ).

Makina ve Kimya Endüstrisi Kurumu (literally Mechanical and Chemical Industries Corporation in English) was established with Law No. 5591 dated 08 March 1950 to meet the needs of the Turkish Armed Forces. The Law was annulled with the introduction of Statutory Decree No. 105 (KHK) in 1982 and brought under the scope of Decree-Law No. 233 dated 18 June 1984.

From 1950 MKE was tied to the Turkish Ministry of Industry and Trade. Then in 2000, it became the related subsidiary of the Turkish Ministry of National Defense.

MKE was structurally reorganized through Law No 7330 published on the Official Gazette dated 03.07.2021 and numbered 31530. With a capital wholly owned by the Turkish Treasury, MKE Inc. is still a Turkish National Defence Ministry subsidiary. The official registration of MKE Inc. was made on 28.07.2021 and announced in the Trade Registry Gazette numbered 10375.



US says to move forward with sale of F-16 jets to Türkiye

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"So we will work with the Congress on the appropriate timing for getting them to Türkiye. But I can't speculate on the precise day it's going to happen, only that we support it getting done," he added. It is in the interest of both the U.S. and NATO for Türkiye to receive the advanced fighter jets, Sullivan noted. Remarks came after Türkiye withdrew its objections to Sweden joining NATO, and President Recep Tayyip Erdoğan agreed to forward to Parliament the Nordic country's bid to become a member of the military alliance. It marked a breakthrough for the bloc's push to strengthen its defenses following Russia's invasion of Ukraine. Both Turkish officials and the Biden administration have rejected any suggestion that Ankara's approval of Sweden's NATO accession was being linked to the F-16 sale in

the months of talks to address Türkiye's opposition. "I stand ready to work with President Erdoğan and Turkey on enhancing defense and deterrence in the Euro-Atlantic area," Biden said in a statement. The phrasing was a nod to Biden's commitment to helping Türkiye acquire new F-16s, according to an administration official who was not authorized to comment publicly. "I welcome a dialogue between Türkiye and the United States on the F-16 issue. However, this is not part of the compromise we reached," NATO Secretary-General Jens Stoltenberg told reporters. "This is the decision of the United States. Türkiye has clarified that it does not see any connection between (the two). NATO has been very clear about what we can do to remove arms export restrictions between allies," Stoltenberg said. Several lawmakers in U.S. Congress,

most notably Senate Foreign Relations Committee Chairperson Bob Menendez, have opposed the sale and lastly tied their approval to Türkiye's ratification of Sweden's NATO membership. Membership of a country must be agreed upon by all 30 members of the trans-Atlantic defense alliance. Ankara said it was strongly rejecting any conditions linked to the purchase of jets.

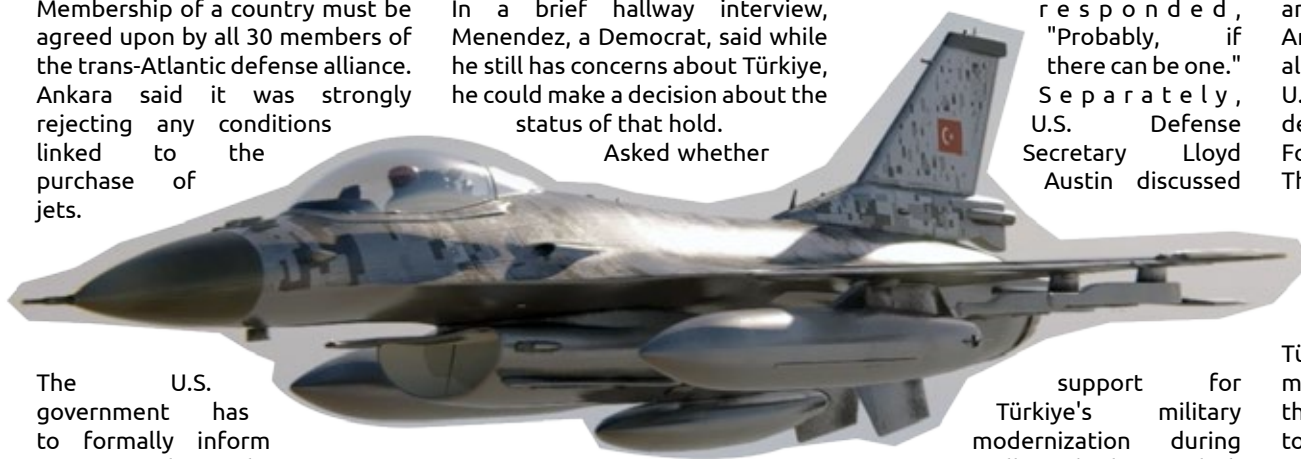
The U.S. government has to formally inform Congress about the arms sale. While Congress can block the process, it has not previously mustered the two-thirds majorities in both chambers to overcome a

presidential veto. In Washington, Menendez said he was in talks with the Biden administration about the hold he has on future sales of F-16 jets to Ankara. In a brief hallway interview, Menendez, a Democrat, said while he still has concerns about Türkiye, he could make a decision about the status of that hold. Asked whether

jets, Menendez said: "We're having conversations with the administration." Asked how long it might take for him to make a decision on maintaining the hold, he responded, "Probably, if there can be one." Separately, U.S. Defense Secretary Lloyd Austin discussed

support for Türkiye's military modernization during a call with his Turkish counterpart, according to a U.S. readout released. "They ... discussed the positive talks between Türkiye, Sweden

and NATO Secretary-General Stoltenberg, as well as the Department of Defense's support for Türkiye's military modernization," the Pentagon said of the phone call between Austin and Defense Minister Yaşar Güler. Ankara vowed it might consider alternatives, including Russia if the U.S. failed to follow its promise to deliver the F-16s to the Turkish Air Force. The request for the new warplanes came instead of a refund for the \$1.4 billion payment Türkiye had made for the next-generation F-35 fighter jets. The payment was issued before Türkiye was removed from the multinational program developing the aircraft over Ankara's decision to acquire Russian-made S-400 air missile defense systems. Türkiye, which had ordered over 100 U.S. F-35s, called the move unjust and demanded reimbursement of its payment.



Turkish defense giant Aselsan to soon deliver new miniature bomb



Turkish defense giant Aselsan's miniature bomb, TOLUN, is poised to debut as mass production has commenced following successful development. The company showcased its array of solutions, particularly focusing on ammunition, avionics and electro-optical products tailored for air platforms at the prestigious Paris Airshow, renowned for bringing together global aviation experts. Noteworthy among these cutting-edge offerings were the TOLUN Miniature Bomb, the TOLUN IIR Guided Miniature Bomb, the SADAK-4T Smart Pneumatic Quad Rack, as well as the GÖZDE and LGK-82 guidance kits. The realization of a streamlined production line for TOLUN became possible through the collaborative efforts of Aselsan and the Presidency of Defense Industries (SSB), with whom development and production contracts were duly signed. It aims to complete the certification tests per

the usage concept of TOLUN and start delivery in July. During the development process of TOLUN, successful firing tests were carried out with the F-16 fighter jets in Turkish Air Forces' inventory and Bayraktar Akıncı unmanned combat aerial vehicles (UCAVs) developed by Turkish drone magnate Baykar. TOLUN was developed as an INS/GPS-guided ammunition fired from an air platform with a multi-carrying bay and used against hard and soft land targets. With a range of 100 kilometers (62 miles), TOLUN has both penetrating and particle-effect warhead variants. Aselsan also developed a smart multi-carrying quad rack with its miniature bomb project. With the SADAK-4T Smart Pneumatic Quad Rack, a multi-aircraft carrying four tiny bombs can be placed under the wings of the F-16 planes. This provides a game-changing capability with simultaneous multi-target engagement.

Türkiye's Havelsan expands export endeavors to Malaysia's navy

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Mantar further emphasized their track record of successfully fulfilling contracts for the Malaysian Land and Air Forces in previous years. As pioneers in Türkiye, Havelsan introduced the AV 8x8 Armored Land Vehicle Simulator to Malaysia, which proved to be a groundbreaking export. The Malaysian Air Force also benefits from Havelsan's expertise in pilot flight training. Mantar also revealed that various institutions would soon employ the company's parachute simulators. Mantar highlighted the strong bonds of trust that Havelsan has forged with the Malaysian government and public institutions. For example, during the LIMA 2023 Fair, the company hosted Malaysian Prime Minister Anwar Ibrahim at their booth. This opportunity allowed them to showcase their ongoing projects in Malaysia and discuss potential areas where Havelsan's existing expertise could contribute further. Mantar also emphasized the significance of their products and solutions, which have proven highly effective for the Turkish Armed Forces (TSK). This success further enhances Havelsan's export potential, establishing them as a reliable provider of cutting-edge technologies. Stating that they aim to provide the ADVENT



Combat Management System to the ship platforms the Malaysian Navy plans to supply; and the ship modernization projects designed are to be realized shortly, Mantar said, "We informed both the prime minister and the Malaysian defense minister about this issue." Adding that they signed a memorandum of understanding (MoU) with G-7 Aerospace Sdn Bhd to provide solutions for the needs of the Malaysian Air Force at the LIMA 2023 Fair, Mantar said these agreements, including the cooperation agreement they signed with the Malaysian National Defense University in the field of cyber security "is one of the most important indicators of the trust placed in Havelsan and Türkiye."



Turkish-built Anka combat drone to be deployed in 4 other countries

The Anka drone, a medium-altitude long-endurance (MALE) class unmanned aerial vehicle (UAV) manufactured by a pioneering Turkish defense industry company, is scheduled to commence its operational duties in several other countries in 2023, a company official said. "Turkish Aerospace Industries (TAI) will ship Anka drones to four other countries this year," Chief Product Engineer Ziya Doğan told Anadolu

Agency (AA). "One overseas customer is actively using Anka drones," Doğan said. He added that an export deal was signed with another country for the delivery in 2024. The total flight time of Anka drones delivered to domestic customers reached 200,000 hours, Doğan noted. The first model of the Anka UAV had its maiden flight in 2010. Anka performs day and night all-

weather reconnaissance, target detection and identification, and intelligence missions, featuring autonomous flight capability, including automatic takeoff and landing. Based in Ankara, the TAI manufactures unmanned aerial vehicles, aircraft, helicopters and satellites and their components. TAI was established in June 1973 to reduce Türkiye's dependency on foreign suppliers.

Elon Musk establishes new artificial intelligence company xAI

Tesla founder Elon Musk announced the establishment of the artificial intelligence company xAI. The startup will be led by Musk, the CEO of Tesla and owner of Twitter, who has said on several occasions that the development of AI should be paused and that the sector needs regulation. "Announcing formation of @xAI to understand reality," Musk said in a tweet. The website said xAI will hold a Twitter Spaces event on July 14. The team at xAI includes Igor Babuschkin, a former engineer at DeepMind, Tony Wu, who worked at Google, Christian Szegedy, who was also a research scientist at Google and Greg Yang, who was previously at Microsoft. Musk in March registered a firm named X.AI Corp, incorporated in Nevada, according to a state filing. The firm lists Musk as the sole director and Jared Birchall, the managing director of Musk's family office, as a secretary. The billionaire had said in April that he would launch TruthGPT or a maximum truth-seeking AI to rival Google's Bard and Microsoft's Bing AI that tries to understand the nature of the universe. Generative AI caught the limelight with OpenAI's launch of the popular chatbot ChatGPT, which came in November last year, ahead of the launch of Bard and Bing AI. Dan Hendrycks, who will advise the xAI team, currently serves as the director of the Center for AI Safety and his work revolves around the risks of AI. Musk's new company is separate from X



Corp, but will work closely with Twitter, Tesla, and other companies, according to the website. xAI said it is recruiting experienced engineers and researchers in the Bay Area. Musk previously criticized Microsoft-backed OpenAI, the firm behind chatbot sensation ChatGPT, for "training the AI to lie." He said OpenAI has now become a "closed source," "for-profit" organization "closely allied with Microsoft." He also accused Larry Page, co-founder of Google, of not taking AI safety seriously.

"I'm going to start something which I call 'TruthGPT,' or a maximum truth-seeking AI that tries to understand the nature of the universe," Musk said in an interview with Fox News Channel's Tucker Carlson. He said TruthGPT "might be the best path to safety," that would be "unlikely to annihilate humans." "It's simply starting late. But I will try to produce a third option," Musk said. The idea, Musk said, is that an AI that wants to understand humanity is less likely to destroy it. Musk said he's worried that ChatGPT "is being trained to be politically correct."



Turkish defense manufacturers were out in force Paris Air Show, the first in four years during which conflicts including Russia's invasion of Ukraine have spotlighted the country's now-coveted weapons. Most obvious is state-owned Turkish Aerospace Industries (TAI), whose ample stand, fronted by a tarmac display of armed drones, helicopters and a recently-developed jet trainer, is just a few paces away from heavyweights like Airbus and Boeing at Le Bourget airport. Dour-faced military delegations, including one group from Brazil, could be seen touring the aircraft while gawkers took pictures of the bomb- and missile-laden drones. As an arms exporter, Türkiye “benefits from an image as a ‘third way’: politically less restrictive than Western systems, but more neutral than buying Russian, Chinese

or Iranian while guaranteeing satisfactory quality,” Leo Peria-Peigne, a researcher at the French Institute of International Relations (IFRI) wrote in a recent paper. Among the country's most sought-after products are armed drones, driven in part by the TB2 Bayraktar produced by privately owned firm Baykar. The drone basked in the media spotlight last year for its role in the earliest stages of Ukraine's defense against the Russian invasion and has been bought by a dozen militaries according to the International Institute for Strategic Studies' Military Balance. After sealing a contract worth \$367 million to sell Kuwait Bayraktar TB2 drones, Baykar CEO Haluk Bayraktar said the company had signed export deals with as many as 30 countries so far. Like Baykar, TAI's unmanned aerial vehicles (UAV) have in

recent years been sold around the world including to Kazakhstan, Kyrgyzstan, Malaysia, Algeria and Tunisia, according to data from arms trade watchdog SIPRI. For drones, “most of the interest comes from Africa,” where countries want them to “fight terrorism,” TAI drones chief Omer Yıldız told Agence France-Presse (AFP). Turkish UAVs had “proved to be very effective and efficient against terrorism,” in Türkiye's neighbor Syria, where Ankara's armed forces have been carrying out anti-terrorism operations, he added. Elsewhere in Africa, SIPRI data shows Niger and Chad have bought TAI's Hürküş-C turboprop trainer aircraft, which can also be used for ground attack missions. The firm also showed off less belligerent uses of its UAVs, pointing out their use to

Turkish arms makers mesmerize with export ambition at Paris Air

reestablish mobile phone coverage in some areas following February's devastating earthquakes that struck the country's southeastern region. Their radars have also been used to spot Russian and Ukrainian mines threatening commercial shipping in the Black Sea since Moscow's invasion of its neighbor last year. TAI's Yıldız points to a scale model of the firm's latest iteration of its Anka drone, a jet-powered delta wing that bears a closer resemblance to an American stealth bomber than its gawky propeller-driven sister aircraft. With its larger payload and enhanced capabilities, the drone is “aiming to take the air-to-ground missions of the F-16” American fighter jet, he says. Replacing Western technology with home-grown weaponry harks back to the origins of Türkiye's domestic arms industry, which Ankara has pushed ever since the U.S.' 1970s arms embargo over its military intervention in Cyprus that was prompted by a Greek Cypriot coup aimed at Greece's annexation of the island. Türkiye acted as a guarantor power to protect Turkish Cypriots from persecution and violence. The sector's “increase in capability is ensured using a policy of very

aggressive industrial subsidies, demanding a high return on investment as technology transfer, development of local production or partnerships with major Western industrial groups,” IFRI's Peria-Peigne wrote. “From the 2000s, there has been an emphasis on aeronautical capabilities,” and the Turkish armed forces' growing appetite for drones, he added. That has only been stoked by the U.S.' refusal to sell NATO ally Türkiye F-35 fighter jets after Ankara bought anti-aircraft systems from Russia. At another Le Bourget stand, Ruşen Kömürçü, secretary-general of the Turkish Defence and Aerospace Industry Manufacturers' Association (SASAD), recites sectoral statistics by heart: 100,000 jobs and \$10 billion in revenues, of which \$4.4 billion in exports. Asked why the country's products are doing so well, he said simply that in Türkiye “you find good material at a good price.” In a cozy room behind state-owned missile and rocket developer Roketsan's nearby stand bristling with mockups of guided explosives, marketing boss Mustafa Odabaş agrees. “As we are developing new systems to meet the Turkish armed forces'

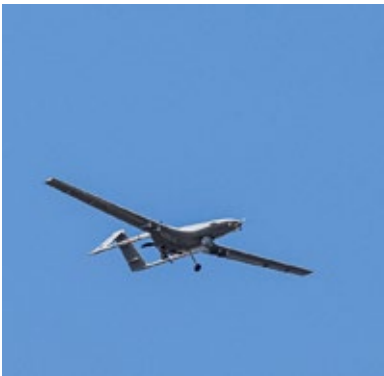
needs, our sales are growing,” he told AFP. “We have the capability now” to supply “pinpoint accuracy missiles, cruise missiles, long-range missiles” that have drawn customers across the Middle East and especially the Gulf region, Odabaş added. Sales of Baykar and TAI drones further afield have helped Roketsan win customers in Africa and even Europe, he said. In the complex global web of defense production, Roketsan is the sole manufacturer of some parts used in Raytheon's Patriot anti-air missiles recently delivered to Ukraine, just as TAI makes components for NATO allies' aircraft such as the Airbus A400M transporter. In the future, “50% of our sales should be coming through exports. I believe it should be even more,” Odabaş said. Industry association chief Kömürçü expects that in the coming years, “more and more (Turkish arms) will be for exportation, maybe \$10 billion is not far from our horizon.” That would put Türkiye not far behind major exporter France, which sold 11.7 billion euros (\$12.3 billion) of arms abroad in 2021 according to government figures.

Bayraktar Akıncı UCAV hits target with precision guidance kit



Türkiye's most advanced and sophisticated drone, the Bayraktar Akıncı unmanned combat aerial vehicle (UCAV), conducted a firing test with a domestically developed Precision Guidance Kit (HGK). This marks the first launch of the HGK from an unmanned aerial vehicle (UAV). The kit was developed by the Defense Industries Research and Development Institute (SAGE) of the Scientific and Technological Research Council of Türkiye (TÜBİTAK), and the Baykar-manufactured drone fired HGK-82

during the test. Departing from Akıncı Flight Training and Test Center in the northwestern province of Tekirdağ's Çorlu district, Akıncı took off with the HGK-82 ammunition. Bayraktar Akıncı's HGK-82 ammunition struck the target with remarkable precision. Bayraktar Akıncı UCAVs, which entered the inventory with a ceremony attended by President Recep Tayyip Erdoğan on Aug. 29, 2021, are currently actively used by the security forces in operational duties. So far, six Bayraktar Akıncı UCAVs have been inducted into service. Meanwhile, three countries have signed export contracts for this particular combat drone.



Turkish drone magnate Baykar has finalized an export contract worth \$367 million with the Kuwaiti government on Bayraktar TB2 unmanned combat aerial vehicles (UCAVs), the company and the Kuwaiti army announced. “We have successfully completed the contract process with the Government of Kuwait on the export of domestically made Bayraktar TB2 UCAVs,” Baykar said in a statement on Twitter. “National UCAV#BayraktarTB2s, with which we have signed export contracts with 30 countries so far, will continue to serve for the establishment of peace and security in the inventory of friendly and brotherly countries,” Haluk Bayraktar, general manager of the company, said in a Twitter statement. The statement added that the drone, which has broken a record by flying continuously for 27 hours and three minutes

Bayraktar Akıncı UCAV hits target with precision guidance kit

in difficult geographical and climatic conditions such as high temperatures and sandstorms, will be on duty over Kuwaiti skies. Kuwaiti Air Force operations chief brigadier, General Fahad Al-Dosari, said in a video posted on their Twitter account that the drone fleet can support the navy and coast guard, as well as monitor maritime and land borders. He said the drones can also “carry out reconnaissance and targeted missions” in addition to supporting search and rescue efforts. Meanwhile, both statements did not reveal how many drones would be delivered to Kuwait or when. The State of Kuwait would be the 30th country in the world to finalize a contract for the Bayraktar TB2 drones. The countries to which the battle-proven drone has been exported include NATO member Poland, Qatar, Azerbaijan, Morocco, Kyrgyzstan and Turkmenistan. The company has also signed deals with five countries to export its much larger sibling Akıncı. Negotiations between Baykar and the Kuwaiti Ministry of Defense started in 2019. The country chose Türkiye's

domestically developed, battle-proven UCAV, which made a name for itself after being used in several conflicts from Syria to Ukraine, over competitive products of several companies from the U.S., Europe and China. The drone contract between Baykar and Kuwait, struck through direct negotiations between the Turkish and Kuwaiti governments, also includes weapons provisioning, electronic warfare, and mobile ground control facilities compatible with NATO standards according to Kuwaiti state media. Kuwait, considered a major non-NATO ally, and the U.S. have had a close military partnership since America launched the 1991 Gulf War to expel Iraqi troops after Iraqi dictator Saddam Hussein invaded the country. The country hosts the U.S. Army Central's forward headquarters and some 13,500 American troops. The TB2 has been credited with helping tip the balance of conflicts in Libya, as well as to Türkiye's ally Azerbaijan in fighting with Armenian-backed forces in the occupied Nagorno-Karabakh region in 2020.

It has also enabled Ukraine to mount a stiff defense of its cities, carrying out attacks against Russian forces with an effectiveness that surprised many Western military experts and triggered a rush among nations to procure the unmanned craft. The platform is known for taking out some of the most advanced anti-aircraft systems, artillery systems and armored vehicles. Bayraktar TB2 has a 12-meter (39-foot) wingspan and can soar to 25,000 feet before swooping in to destroy tanks and artillery with laser-guided armor-piercing bombs. Baykar has manufactured more than 400 TB2 to date, according to the company. It is now aiming to expand its production capacity further, a target that it in part hopes to achieve with a plant in Ukraine. Its CEO said that Baykar currently can manufacture 200 Bayraktar TB2s a year. It plans to raise this figure to 500. Since the beginning of the unmanned aerial vehicle (UAV) related research and development (R&D) studies in 2003, Baykar has earned 75% of all its revenues from exports.

Türkiye to revamp 1st aircraft factory in multimillion-dollar revival

Türkiye is set to revamp its first aircraft factory in the central Anatolian province of Kayseri by investing some TL 205 million (\$8.6 million) to produce aircraft and helicopter parts, a report said. The revival of the TOMTAŞ Aviation and Technology will play a significant role and make a major contribution to Türkiye's aviation sector, according to information cited by Anadolu Agency (AA). Main assembly parts such as the fuselage, wings, doors, control surfaces, landing gear, propellers, helicopter rotors and engine parts will be produced at TOMTAŞ Aerospace, which was established by defense firm ASFAT, Erciyes Technopark, Turkish Aerospace Industries (TAI) and the TOMTAŞ Investment Partnership. The new facility will have an annual production capacity of 420,000 kilograms (about 926,000 pounds). Machinery and equipment worth \$10.2 million will be imported for the facility. When the factory goes live, 50 people are expected to be employed. The history of TOMTAŞ Aviation and Technology dates back to the 1920s. After the establishment of the Turkish Aircraft Society in 1925, action was taken to establish an aircraft factory. In light of the

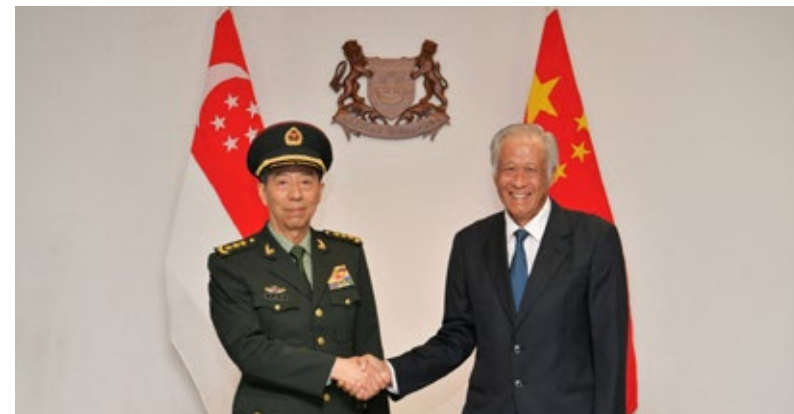


capital and technical personnel needs, a partnership was established with the German company Junkers. The official opening of Tayyare (Plane) and Motor Türk AŞ (TOMTAŞ) was held in 1926. Some of the equipment and personnel of the factory were brought in from Germany. The factory assembled and produced some parts of aircraft patented by Junkers. The partnership was cut short in 1928 due to the wage difference between German and Turkish workers and the German company's failure to fulfill its obligations under the agreement. The shares of Junkers were transferred to the Turkish Aircraft Society. TOMTAŞ was reopened in 1931 under the name the Kayseri Aircraft Factory. After going through various changes, the factory has become today's Kayseri Air Supply and Maintenance Center Command.

China and US partner Singapore form key defense hotline

China and Singapore laid the groundwork for a hotline between the two countries that would establish a high-level communications link between Beijing and a close American partner in Asia at a time when Chinese tensions with Washington are high and dialogue has stalled. Chinese Defense Minister Li Shangfu, a general in China's People's Liberation Army who was named minister in March, signed a memorandum of understanding with his Singaporean counterpart Ng Eng Hen to work toward establishing a secure telephone link “for high-level communications between our defense leaders,” according to a statement released by Singapore. “Such high-level open lines of communications are important for strengthening mutual understanding and trust,” the statement said, without giving a timeline for when it would be established. Li is on his first visit to Singapore as defense minister, and is broadly discussing global and regional security issues with

a range of officials. Singapore said both countries' defense establishments “interact regularly through bilateral and multilateral exercises” and that his visit underscores “long-standing, warm and friendly” relations. At the same time, Singapore is a close military and economic partner of the United States, and the agreement to establish the direct phone link comes as communications between Washington and Beijing are strained. Li also established a defense hotline with Japan in March to improve communication and help avoid accidental encounters in the tense region. While in Singapore, Li is expected to address a meeting of defense officials, diplomats and country leaders, but declined a request from Washington to meet on the sidelines with U.S. Defense Secretary Lloyd Austin, who will give a speech at the same Shangri-La Dialogue security conference. Among many issues, China has been irritated by American support for Taiwan, a self-governing



democracy that it claims as its own territory, the shooting down of what the U.S. called a Chinese spy balloon, and sanctions directly targeting Li. Those sanctions are related to Washington's broad package of measures against Russia, but predate its invasion of Ukraine and were imposed in 2018 over Li's involvement in China's purchase of combat aircraft and anti-aircraft missiles from Moscow. The sanctions, which broadly prevent Li from doing business in the United States, do not prevent him from holding official talks, the

U.S. has said. Chinese Defense Ministry spokesman Tan Kefei said Austin's offer of talks in Singapore had been rejected because the U.S. “disregards China's concerns and produces artificial obstacles.” “The U.S. side should take practical actions to show sincerity and correct mistakes, so as to provide the necessary conditions and proper atmosphere for communication and exchange between the two sides,” he said, while not mentioning the sanctions or other issues directly.

LOCAL AND NATIONAL DEFENSE INDUSTRY, MKE, AND SAHA ISTANBUL JOIN FORCES FOR THE FUTURE VISION

THE STRENGTH OF TÜRKİYE: LOCAL DEFENSE INDUSTRY TO JOIN FORCES WITH MKE AND SAHA ISTANBUL SUPPORT

Makine Kimya Endüstrisi (MKE), and SAHA İstanbul jointly hosted an important meeting in Ankara. The event, held at ATO Congressium, brought together MKE and potential suppliers, with a high level of participation, including 1274 participants and 612 companies



Continued From Page 1

The meeting commenced with a presentation from MKE, where they introduced their Gazi Fişek Factory, Ammunition Factory, Capsule Factory, Machinery and Technology Factory, MKE Weapons Factory, Çankırı Weapons Factory, Heavy Weapons Factory, and MKE Rocket and Explosives Factory through detailed presentations. In line with MKE's strategy of cooperating with the local and national industry, which is the strength of Türkiye's indigenous and national defense industry, the MKE Supplier Meeting, organized in collaboration with SAHA İstanbul, facilitated 918 B2B meetings.

During the gathering of "MKE - SAHA İstanbul Supplier Meeting", Celal Sami Tüfekçi, Deputy Minister of Türkiye's Ministry of National Defense, MKE General Manager İlhami Keleş, and SAHA İstanbul Secretary General Levent Kerim Uça also shared the latest developments in the sector.



AS OUR DEFENSE AND AVIATION TECHNOLOGIES ADVANCE, OUR EXPORTS ARE RISING

In his opening speech at the meeting, İlhami Keleş stated, "In the program, each supplier has the opportunity to engage in B2B discussions with company representatives at designated hours, presenting their technologies, ideas, and products based on their chosen topics. This organization provides a crucial networking opportunity. Machine and Chemical Industry, with its knowledge and expertise, continues to contribute to our country's strength by producing defense industry products that Türkiye needs with high quality, just as it has done in the past and will do in the future. Its mission is to be an innovative, competitive, and quality-focused producer of preferred global products, creating a powerful Türkiye through its capabilities and established partnerships in the defense industry."

The Deputy Minister of Defense, Celal Sami Tüfekçi, highlighted

the successes of domestic technologies in the sector and provided information about the industry. İlhami Keleş, the General Manager of Makine Kimya Endüstrisi (MKE), emphasized that the roots of the company date back to the 15th century and stated the following: "MKE operates with the aim of meeting the needs of the Turkish Armed Forces in a secure and stable manner, producing high-tech weaponry and vehicles domestically, and establishing production facilities to support this. Today, MKE is the only organization capable of producing weapons and ammunition of all calibers ranging from 5.56 mm to 203 mm under one roof, with 10 factories and 2 facilities located in different regions of our country. MKE brings together technology and experience in the production of future weapon systems, encompassing ammunition, firearms, rockets, explosives, pyrotechnic products, gas masks, gunpowder types, brass, and steel materials within various product categories."

PROMOTION AND EXPORTS GAIN MOMENTUM IN THE DEFENSE INDUSTRY. NOW, MORE TURKISH DEFENSE INDUSTRY SYSTEMS ARE BEING ADOPTED WORLDWIDE, ESPECIALLY IN CENTRAL ASIA AND THE MIDDLE EAST. THE 2023 TARGET IS \$6 BILLION.

Levent Kerim Uça, the Secretary General of SAHA İstanbul, who has made significant contributions to the development of the domestic defense industry, stated that local companies and entrepreneurs are not only collaborating in production but also in technology development under the umbrella of SAHA İstanbul. Levent Kerim Uça provided the following information on the matter: "SAHA İstanbul, which started with 27 member companies 8 years ago with the goal of increasing the localization rate and achieving critical technologies, as well as elevating international competitiveness in the Turkish defense, aviation, and space sector, has made significant progress in a short time.

Today, it is not only the largest industrial cluster in Türkiye but also in Europe, with 960 companies operating in 52 different fields across 39 cities and 26 universities. SAHA ISTANBUL, through its 10 Technical Committees, develops projects and products required by

our defense, aviation, and space industries, aiming to produce what is not yet produced in our country and become a nation that develops game-changing technologies worldwide, working together with its member companies.

SAHA ISTANBUL continues to organize events like today's to enhance its members' corporate capacities, strengthen collaboration among its members, improve relationships with public institutions and NGOs, support R&D and innovation efforts, and





enhance the competitiveness of its members."

Levent Kerim Uça, the Secretary General of SAHA Istanbul, reminded that the fourth SAHA EXPO fair, organized by SAHA ISTANBUL and now an internationally recognized event, will take place from October 22 to 26, 2024, at the Istanbul Fair Center on a 90,000 square meter area. He stated, "SAHA EXPO serves as an international platform to showcase Türkiye's rising defense and aviation production potential and independent manufacturing capabilities. The fair will exhibit many high-tech products of strategic importance in the defense, aviation, maritime, and space industries. In addition, SAHA ISTANBUL continues its efforts to strengthen the industry's human resources through activities. Through SAHA Akademi, the organization aims to support and develop the technical human resource needs of companies within SAHA and produce industry-leading executives with the SAHA MBA program. This prestigious, focused, and ambitious MBA program is conducted in collaboration with TÜBİTAK TÜSSİDE and involves top-level bureaucrats and industry leaders as instructors."



Sanofi Türkiye breaks one more new ground!

While Sanofi brings different technologies to the Turkish pharmaceutical industry with its investments exceeding 1 billion Euros in total, it also contributes 110 million Euros to the country's economy with its domestic production every year.



At the press conference, Sanofi Türkiye shared with the public another important investment in domestic production. In the field of benign prostate enlargement, which is considered one of today's chronic diseases, it brought a production technology that positively supports the patient's compliance with the treatment, after a 3-year preparation phase, to Sanofi's Lüleburgaz factory and to the Turkish pharmaceutical industry. The 3-layer tablet production technology is a first for the Turkish pharmaceutical industry. Cem Öztürk, Turkish CFO

and Turkish Country Chair of Sanofi, Head of General Medicines for Sanofi Türkiye, Middle East and Africa said, "As Sanofi, we produce, provide healthcare solutions and invest in our country with our 65-year-old footprint in Turkey. Technology is advancing at such a rapid rate that if you want to offer the most advanced treatment solutions to patients and lead your industry, you have to keep your investments continuous. Thanks to the investment and technology transfer we announced today, we brought the 3-layer tablet production technology,

which is only found in 8 drugs in the world, to our Lüleburgaz factory and to our country. It is a source of happiness and pride for us to continue to increase our contribution to the country's economy by starting to produce our product in Turkey and with our local production reaching 110 million Euros per year."

Technology that improves the patient's quality of life

Geomatrix technology, which was brought to Türkiye for the first time thanks to Sanofi's investment and technology transfer, makes a drug

in the form of a 3-layer tablet possible. In three-layer tablets, the active substance is contained in the core, while this substance is surrounded by two layers in the upper and lower layers. Thus, instead of taking more than one medicine during the day, the only medicine you take has an effect covering 24 hours. With this feature, the technology, which is beneficial for the patients,

also ensures that the undesirable effects are minimized.

Preparation took 3 years, the team trained in France

Today, at the Lüleburgaz factory, which is Sanofi's 3rd largest production facility in the world, which produces one out of every 7 boxes of medicine in Türkiye and whose products are exported to

49 countries, including Germany, England, France, Australia and Japan, a 3-year period has been spent for this technology transfer. There was a preparatory process. The newly formed team went to the Tours factory in Lyon, France and received training. A special area has been created for this production in the factory. After the installation of the printing machine with

3-layer tablet printing technology, the facility gained the competence to produce tablets with this feature. The technical file containing the obtained data was prepared and submitted to the Ministry of Health of the Republic of Türkiye and commercial production started in March 2023 with the approval of the Ministry."



Humanis, the Rising Star of the Pharmaceutical Industry, Expands into China

Humanis, manufacturing to European Union standards, becomes the first Turkish company to export pharmaceuticals to China.



Humanis exports products to 25 countries across 3 continents and is bolstering its global presence. As one of Türkiye's fastest growing pharmaceutical companies, Humanis has leveraged its competencies in manufacturing to European Union's quality standards to take the first step in exporting its products to the challenging market of China. Speaking about this key leap, Humanis CEO Yunus Sancak said "The Chinese market represents an important potential for Turkish manufacturers. And we, having demonstrated our capabilities on a global scale, both in terms of our manufacturing output and R&D investments, are ready to have a footprint in this market. It is of great value for our country and our industry that China, as a powerful country who themselves have the capabilities to manufacture to European Union standards, has picked Humanis. We are looking forward to expediting our steps to grow our investments and presence in China."



centered approach to healthcare around the world. Humanis, which managed to become one of the fastest growing pharmaceutical companies in Turkey with its investments and a production facility with a significant potential in Cerkezkoy, has become one of the influential players in the domestic and foreign markets in a short period by providing production services to global companies with its GMP (Good Manufacturing Practices) certificates. The company offers manufacturing services to global companies and has become an important player in both the domestic and international markets.

"We have achieved important milestones in our exports"

Discussing Humanis' manufacturing principles, Humanis CEO Yunus Sancak said "We continue growing our investments and acquisitions in line with our strategy, based on a human-centered approach to healthcare. Today, we have developed capabilities to manufacture medicines in various pharmaceutical forms, thanks to our team of experienced professionals, our manufacturing capabilities, and our technological infrastructure. As a rising star among indigenous manufacturers, we have achieved important milestones in our exports also."

"We are exporting our products to 25 countries across 3 continents, including Germany, UK, Italy and Spain. In our liaison office in Germany, we started our efforts to sell our products to the European market ourselves." Yunus Sancak said, and noted that Türkiye now enjoys a market share that can support export of products to hundreds of countries, thanks to its maturing pharmaceutical industry.

"We are the first company to export pharmaceuticals from Türkiye to China"

"With a population close to one and a half billion, China is compelled provide its population with

affordable and accessible medicines while also promoting growth of its pharmaceutical industry, which is why generic medicines form the essential core of the Chinese pharmaceutical industry." Yunus Sancak said, and continued his evaluations about the Chinese market as follows:

"The Chinese market represents an enormous potential for Turkish manufacturers. And we, having demonstrated our manufacturing and R&D capabilities on a global scale, are ready to have a presence in this market. We recently took the first step with one of our products and thus became the first company to export pharmaceuticals from Turkey to China. Going forward, we will be growing our investments and expedite our steps in China. As one of Türkiye's largest manufacturers of generic medicinal products, we believe that the Chinese market represents a great opportunity."

"As a first step, we are aiming for USD 5 million in sales"

Yunus Sancak said they have taken a first step into the Chinese market with a product indicated for cardiology and thoracic conditions: "We invested approximately USD 2.3 million for developing, registering and manufacturing on a commercial scale this product. As a first step, we are aiming for USD 5 million in sales in the Chinese market. We intend to continually reinvest our earnings back in growth and development and increase the number of our approved products in China." Humanis holds GMP certifications from Germany, Belgium, Canada and Russia, with several products pending marketing authorization in United Arab Emirates, Saudi Arabia, Kuwait, Jordan, Philippines, Kyrgyzstan, Ukraine and Russia, which are expected to be placed on the market in the near future. Going forward, Humanis intends to grow its exports to Europe and also started preparations to expand into the Latam and American markets.

TÜRKİYE
HOSPITAL

IN THE HEART
OF THE ISTANBUL

HAGIA SOPHIA
8.3 Km

TOPKAPI PALACE
8.9 Km

GALATA TOWER
6.2 Km

TÜRKİYE
HASTANESİ

DEPARTMENTS & UNITS

• ANESTESIOLOGY & REANIMATION

• AUDIOLOGY & HEARING

• BARIATRIC SURGERIES

• CARDIOLOGY

• CARDIOVASCULAR SURGERY

• CHECK-UP

• DENTISTRY

• DERMATOLOGY

• DIET & NUTRITION

• EMERGENCY

• ENT

• GASTROENTEROLOGY

• GENERAL SURGERY

• GYNECOLOGY & OBSTETRICS

• HAIR TRANSPLANTATION

• INTENSIVE CARE UNIT

• INTERNAL MEDICINE

• IMAGING CENTER (CT-MRI)

• INTERVENTIONAL RADIOLOGY

• LASER EPILATION CENTER

• LABORATORY

• NEUROLOGY

• NEUROSURGERY

• NEONATAL INTENSIVE CARE UNIT

• OBESITY CENTER

• ORTHOPEDICS & TRAUMATOLOGY

• OPHTHALMOLOGY & LASER CENTER

• PEDIATRICS

• PEDIATRIC SURGERY

• PHYSICAL THERAPY & REHABILITATION

• PERINATOLOGY

• PLASTIC & RECONSTRUCTIVE SURGERY

• PSYCHIATRY

• PSYCHOLOGY

• PULMONOLOGY

• RETINAL SURGERY

• UROLOGY

Merkez Mah. Darülaceze Cad. No:14/1 Sisli, Istanbul / TÜRKİYE

+90 212 314 14 14 / international@turkiyehospital.org - www.turkiyehospital.org

Early diagnosis in scoliosis increases the success of treatment!

Assoc. Prof. Dr. Sinan Karaca, Department of Orthopedics and Traumatology, Yeni Yüzyıl University, Gaziosmanpaşa Hospital drew attention to the important points and what needs to be done about the symptoms of scoliosis in your child.



Scoliosis is a spinal curvature condition that can occur during childhood and adolescence. It is very important for parents to be sensitive about this issue and to pay attention to the symptoms for early diagnosis; Because scoliosis is an insidious and slowly progressing disease, diagnosis may be delayed if care is not taken.

How should we act?

Scoliosis is a condition that is often diagnosed during childhood and adolescence. If you suspect your child has scoliosis, it is important to pay attention to the following points:

1. Monitoring: You should regularly monitor your child's spine condition. Early diagnosis of spinal curvature can make a big difference in terms of treatment options and better outcomes. To monitor the curvature of the spine, you should

follow the periodic checks recommended by your doctor.

2. Symptoms: Some signs of scoliosis may include physical changes such as curvature of the spine, asymmetrical waist or back lines, uneven height of the shoulders, rib ridges, hip asymmetry or body curvature. If you notice anything in your child when you observe these symptoms, it is important to consult a specialist.

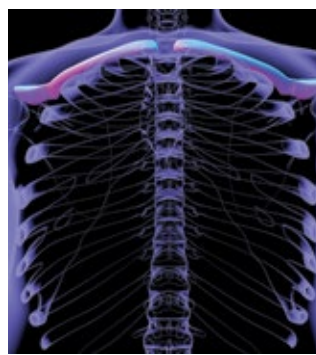
3. Family History: Some cases of scoliosis may be due to genetic factors. If there is a family history of scoliosis, it is possible for your child to have a higher risk of scoliosis. In this case, you can evaluate your child's risk of scoliosis by consulting your doctor.

4. Ergonomics: Correct posture and body mechanics are important. Teaching your child proper posture habits

and helping them correct incorrect postures can reduce the risk of scoliosis. It is also important to ensure the correct sitting position in activities such as sitting at a computer or desk for a long time.

5. Physical Activity: An active lifestyle can help strengthen and support the spine. Regular exercise, especially strengthening the back and abdominal muscles can reduce the risk of scoliosis. It is very important that you encourage your child to engage in physical activities.

6. Ergonomic Furniture: It is important to use ergonomic furniture that supports correct sitting and lying positions. A mattress that provides the right support and proper seating arrangements can help maintain the health of the spine.



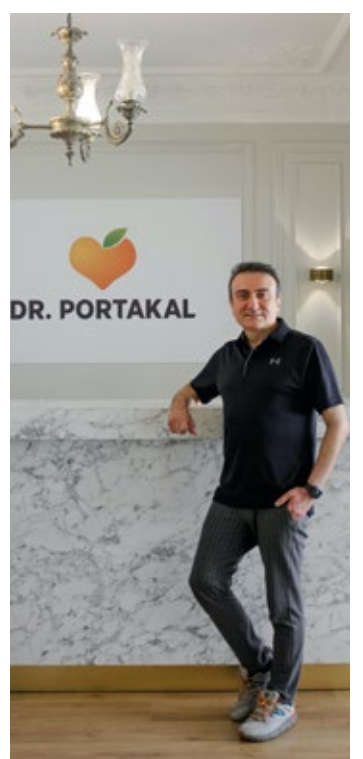
In the summer months, muscle pain can be a symptom of fibromyalgia

Dr. Mehmet Portakal: "Pay attention to muscle and joint pain that occurs during the summer months. Muscle and joint pain can be symptoms of fibromyalgia."

Fibromyalgia, a soft tissue rheumatism, manifests itself with general muscle pain, lack of energy, brain fog, and chronic pain in specific points of the body. The disease, which initially presents with muscle pain, is accompanied by various physical and psychological symptoms such as fatigue, insomnia, and depression.

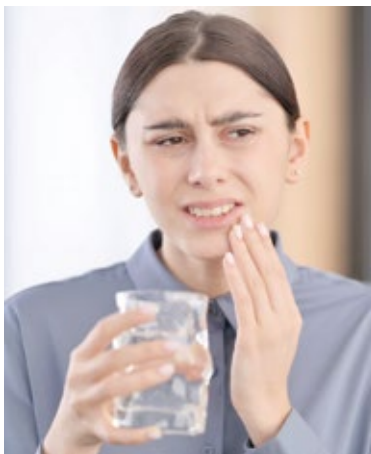
Fibromyalgia, which is more common in woman, tells us that a comprehensive approach is a necessary to simultaneously correct multiple systems. Physiotherapy Specialist Dr. Mehmet Portakal says that muscle pain that is often ignored due to seasonal transitions during the summer months can be attributed to fibromyalgia. Fibromyalgia patients experience chronic inflammation, acidosis, intestinal disorders, changes in brain chemicals, and fibrositis (inflammatory

trigger points) in their bodies over the years. Individuals struggle with widespread musculoskeletal pain, mitochondrial dysfunction, serotonin deficiency, gastrointestinal disorders, stiffness, fatigue, sleep disorders, headaches, irritable bowel syndrome, indigestion, anxiety/depression, joint and periarthral problems. They may visit multiple doctors for years in search of solution to their problems, which can affect their mental well-being. Dr. Portakal explains the treatment process as follows: "The first step in treating fibromyalgia for radical and lasting health is to increase oxygenation of the cells. There are both physical therapy methods and traditional complementary medicine practices available for this purpose."



Tooth sensitivity in summer drinks

You may face severe pain or discomfort due to sensitive teeth, and there are possible treatments to eliminate the causes. Dentist Pertev Kökdemir made recommendations to reduce tooth sensitivity.



Afraid to take a sip of your favorite cold drink? Or taking a bite of your favorite ice cream? If you're experiencing severe pain caused by cold drinks, there's a good chance you have a problem rooted deep in your gums. People who tend to have sensitive teeth may experience a variety of problems. Symptoms are sometimes mild or sometimes very severe.

So, how do you get rid of tooth sensitivity?

* The use of desensitizing toothpaste is one of the necessary procedures to treat sensitivity. This toothpaste can also prevent toothache related to a sensitive tooth. However, if the cause of the sensitivity is caries, the desensitizing paste will not work.

* Prefer a soft-bristled toothbrush and do not forget

to brush your teeth at least twice a day. However, the brushing time should not be longer than 3 minutes.

* Acidic drinks or food can damage your tooth enamel. Another thing you can do after consuming acidic fluids is to drink more water.

* If the pain is getting worse, we recommend that you see your dentist as soon as possible.



ARTIFICIAL TISSUE TECHNOLOGY

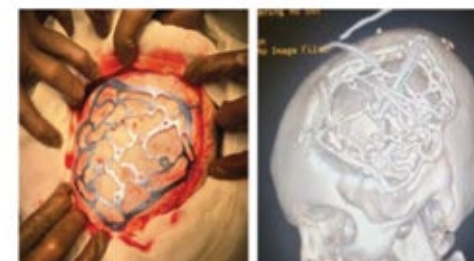
BLOOCELL® BCM is the symbol of a larger paradigm shift from "standard bone graft" treatment to tissue engineering. The product is used to provide adequate load-bearing support during bone regeneration, mimic the mechanical structure of tissue, and regenerate the tissue.



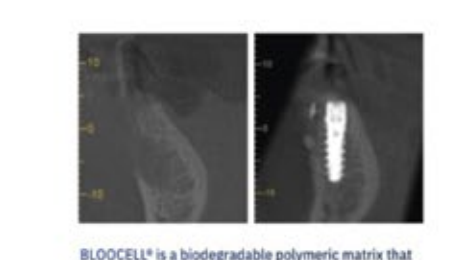
BLOOCELL BIOSCAFFOLD has demonstrated that it provides bone regeneration and may be a promising alternative for bone regeneration in orthopedic practice.



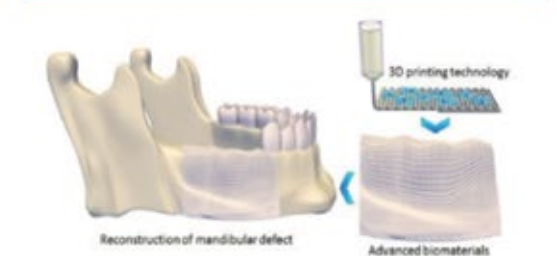
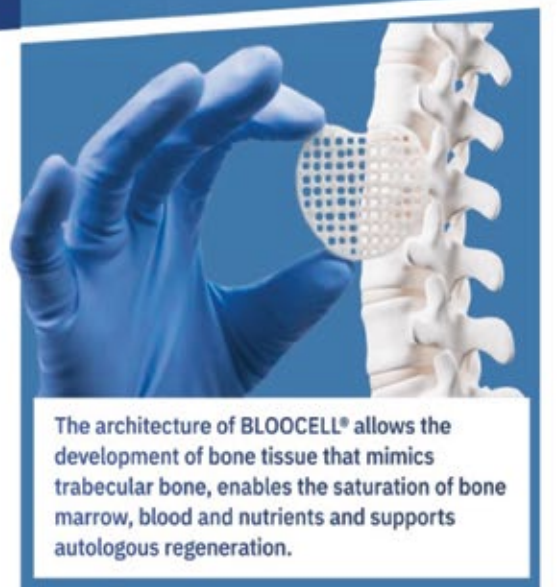
BLOOCELL BIOSCAFFOLD provides a suitable environment for bone formation in bone defect.



BLOOCELL HYBRID provides a permanent solution by supporting the growth phase, especially in pediatric patients.



BLOOCELL® is a biodegradable polymeric matrix that repairs bone defects and articular tissues.



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Glamorous and well-groomed nails!

MAKE YOUR
Nails Shine



Golden Rose's Keratin Nail Color range has been specially designed to strengthen your nails from root to tip with its bright and permanent formula, enriched with keratin.

Golden Rose Keratin Nail Color
Keratin is an important substance that is most preferred in nail care and strengthens the nail structure. The unique formula, which is preferred in the formula of the keratin nail color range gives the nails a bright and lively appearance, at the same time deeply cares and strengthens the lifeless nails from root to tip. The vibrant and sparkling color palette in the Golden Rose Keratin Nail Color range includes many different tones. This range, specially prepared by Golden Rose for summer, is suitable for many different color combinations and popular nail art. The secret of your dazzling nails this summer will be “Golden Rose Keratin Nail Color”.

Revolution in vegan hair care

Known for its natural ingredients, plastic-free and high-performance products, We Are Paradoxx prevents hair loss with its new hair series developed with a hybrid formula using biotechnology and natural methods.

Developed with the “Trioplexx” technology, which is a powerful active complex, the “Growth” series stimulates the scalp and hair follicles and triggers healthy hair growth. Developed to increase hair density and length, the “Growth” series offers a superior performance that prevents hair loss and supports new hair growth. Formula that increases the flexibility and strength of hair strands to reduce breakage; It is the key to achieving fuller, voluminous and strong hair.

Growth Advanced Scalp Serum
Advanced Scalp Serum increases new hair growth by 47% after 6 weeks of use. Strengthening hair follicles with Biotin in its content, the serum minimizes hair loss by reducing breakage with Biotech Arginine. With Biotech Vegan Keratin, this serum provides a similar function to the natural keratin produced by the hair. Growth Advanced Scalp Serum with its formula containing natural horsetail extract, Biotech hyaluronic acid, natural mint and caffeine; It gives you healthier, fuller hair.

Growth Thickening Shampoo
Supporting the effect of Advanced Scalp Serum, the shampoo contributes to hair growth during washing and care. With its nourishing formula, it cleans the hair from

root to tip and adds fullness and volume. With mint in its content, it accelerates blood circulation, stimulates healthy hair follicles and supports new hair formation. Its formula containing ginseng, argan oil, biotin and rosemary offers repairing and supportive care from scalp to ends.

Growth Thickening Conditioner
Hair care cream strengthens sparse and broken hair. Hair care cream that adds fullness and volume to fine hair; It prevents damage by coating the hair surface with biotin. The Irish Horsetail Plant in its formula adds fullness and volume to the hair by thickening the hair strands. Preventing breakage and shedding by the penetration of coconut oil into the hair strands, the care cream provides the care needed for shiny, full and voluminous hair.



Much more than a moisturizer!



Our #1 moisturizer and make-up base, Vitamin Enriched Face Base*, which is sold every 15 seconds worldwide, is designed to make your skin look brighter, fresher and healthier, and to enhance the quality of your flawless and striking make-up.

Healthy and glowing skin
Vitamin Enriched Face Base, with its 8 effective multivitamin formula, nourishes, tightens, prepares for make-up, rejuvenates, moisturizes,



renews, cares and holds make-up. Vitamin Enriched Face Base, which provides a more pleasant appearance to the skin in a single application, will be indispensable for your favorite look. Contains Grapefruit & Geranium Oil, leaving a light and refreshing scent on the skin. With its Multivitamin formula containing B, C and E nutrients, it helps to give the skin a nourished and renewed appearance. The blend of Hyaluronic Acid, Squalene and Shea Butter provides healthy, glowing and make-up-ready skin. Providing moist, plump and lively skin on the way to flawless skin and make-up regardless of the season, this rich yet lightweight moisturizer nourishes the skin with its rapidly absorbing texture and also prepares your skin for make-up in the best way possible. It provides a flawless look by keeping the makeup all day long.

Benefits for makeup
- 95% state that it helps make-up to be applied smoothly and evenly,
- 95% state that it grips the skin for perfect make-up application,
- 91% state that it improves the appearance of foundation.

Good benefits for skin
- 96% state that it leaves a nourished and well-groomed feeling on the skin,
- 96% state that it leaves a moist feeling on the skin throughout the day,
- 95% said that it leaves the skin feeling healthy and saturated with moisture.

* Based on internal Bobbi Brown data from May 2021 to May 2022.
**After one week of using the product, 123 female consumer tests were conducted.



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Tube
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Sıla Türkoğlu became the brand face of Pure Beauty!



Watsons Türkiye has signed a strong collaboration with actress Sıla Türkoğlu, who is highly acclaimed for her pure beauty. Successful actress Sıla Türkoğlu became the first Turkish brand face of Pure Beauty BB & CC creams with the motto of “instant beauty with multiple effects” by Watsons!

Stating that she chooses the products she uses sensitively to preserve the healthy appearance of her skin, Sıla Türkoğlu spoke about the cooperation as follows, “Due to my profession, I spend a significant part of the day wearing make-up. I care that the care products I use are in harmony with my skin in order to preserve the lively and healthy appearance of my skin. I also need products that provide all-round protection in the hustle and bustle of daily life. It is possible to achieve a natural

and healthy appearance all day long with Pure Beauty BB & CC creams, which offer many effects such as moisturizing, sun protection and equalizing the color appearance. I feel renewed by using Pure Beauty BB & CC creams, which bring beauty with multiple effects when I need to refresh quickly in my busy schedule.”

It's easy to achieve “Korean beauty” with Pure Beauty Türkiye's beloved “Korean Beauty” skin care brand, Pure Beauty, which is only sold at Watsons, offers a simple and effective care with multiple effects. Pure Beauty products are among the favorites of those who seek instant freshness and beauty in skin care. Pure Beauty BB Cream for those who want perfect coverage on a refreshed skin; those who want a bright look and equal skin tone look

can choose Pure Beauty CC Cream according to their skin type, while those looking for a make-up effect in skin care can easily use both products. Pure Beauty BB and CC Cream, indispensable for those who want to both care for their skin and achieve a natural make-up look, helps you gain a natural, silky and smooth skin look all day long. Those who want perfect coverage on a refreshed skin can choose Pure Beauty BB Cream, those who want a bright look and skin tone equality can choose Pure Beauty CC Cream according to their skin type, while those looking for a make-up effect in skin care can easily use both products.

Pure Beauty BB Cream SPF 50 Pa+++

Get a natural-looking, light and makeup-free skin with Pure Beauty BB Cream! Helping to offer 10 different benefits to your skin, Pure Beauty BB Cream helps to protect the skin from the effects of blue light thanks to the Lespedeza Capitata extract in its content, and from the harmful effects of sunlight thanks to its SPF 50 protection. Offering two different color tone alternatives, Ivory and Natural, Pure Beauty BB Cream supports the protection of the skin from external

factors with the Camellia Japonica flower known for its antioxidant properties. Helping to give the skin a lively look, Pure Beauty BB Cream is suitable for all skin types.

Pure Beauty CC Cream SPF 50 Pa+++

Get an even skin look with Pure Beauty CC Cream! Pure Beauty CC Cream helps to protect your skin from external factors thanks to its powerful antioxidants such as Camellia Japonica flower, sea urchin and niacinamide. Pure Beauty CC Cream, formulated with Myrothamnus Flabellifolia Leaf Extract, helps to even out skin tone and moisturize the skin. Thanks to the Lespedeza Capitata extract in its content, it helps to protect the skin from the effects of blue light, and thanks to its SPF 50 protection, it helps to protect the skin from the harmful effects of sunlight. Pure Beauty BB Cream is suitable for all skin types.



Nordic endemic plants meet the sun!

Provide full protection against UVA / UVB rays with Bionnex's sun protection range, suitable for all skin types, with clean ingredients, combining its demic science.

power with Nordic end-plants and backing Bionnex, which carries the power of Nordic endemic plants to dermatology, becomes an indispensable part of your dermocosmetic routine with its natural, vegan and clean content products

that support hair and skin health. It is of great importance to protect your skin from the sun in all four seasons against the harmful effects of sun rays. Bionnex Preventiva range allows you to enjoy the sun safely by protecting the skin from the harmful effects of UVA and UVB with its sun protection filters.

High Protection Against the Harmful Effects of the Sun

Dry Touch Sunscreen Fluid Spf50+ cream of the Preventiva range, which gives a matte appearance and prevents shine thanks to its light, oil-free and non-adhesive structure, provides effective protection against the sun. Suitable for all age groups and skin types, Dry Touch controls shine thanks to its sebum absorbing feature by reducing stickiness thanks to the Hordeum Vulgare Nordic endemic plant in its content. Thanks to its cream form, it can be used safely on the face, neck and décolleté.

Get ready for change with Proud

Proud, which makes its difference in the cosmetics sector with its innovative, technological and scientific approach, changes your skin care routine with its serums prepared with its effective ingredients and strong formula. By using vegan serums, which provide solutions for moisture, aging and shine, which are general skin concerns, with a moisturizing and restorative base, you will have a flawless skin and a healthy, radiant appearance with the new generation Proud products.

Türkiye's first care and beauty mask and serum set Proud, with its formula that gives importance to skin barrier health and carries professional care to your home, meets all your needs for a healthy appearance with products designed for different needs, usage habits and skin types. The skin analysis algorithm on the Proud website allows you to find products specific to your skin by recommending them according to your skin's needs.

Multifunctional

Proud products, which are personalized to the needs of each skin, and whose effectiveness has been approved by clinical tests, accompany your active skin care rituals with their special content and ease of use. After meeting the new generation mask and serums with strong active ingredients, you will not be able to give up Proud products in your skin care routine.



Proud's Serum Range has been produced with a different approach, to be used individually or mixed together, according to the needs of each skin, and to be used with a personalized formula instead of a single product for all types of skin.

Proud Mask Base primarily moisturizes and repairs your skin;

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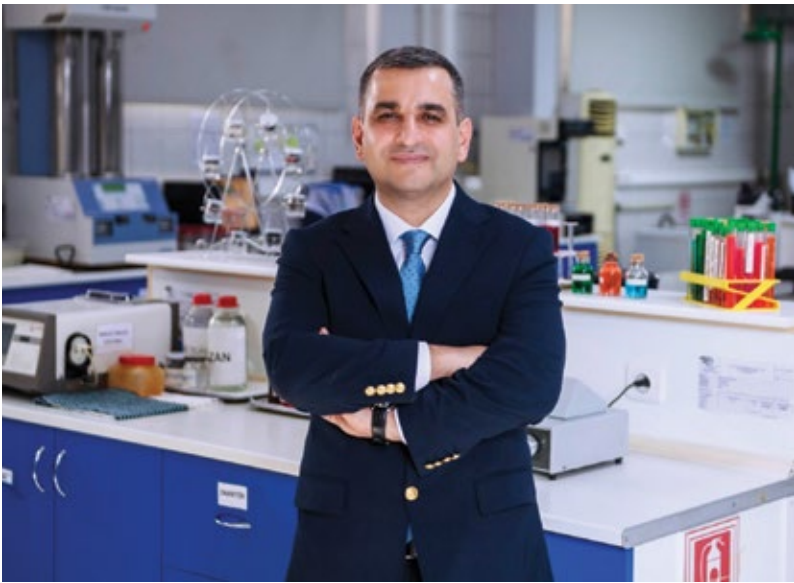
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Koçak Petrol continues to add value to the country's economy

Maintaining its claim on quality production and producing locally, Koçak Petrol continues to add value to the country's economy. We interviewed Tayfun Koçak, Chairman of the Board of Directors, Koçak Petrol on the company.



Could you inform us about Koçak Petrol, which is one of the leading companies that produces domestically? “Although Koçak Petrol was established as a family company in 1989, it took an important step towards becoming an international

brand by purchasing the SPEEDOL brand, which was established in the USA in 1921 and has a history of 102 years. Coming out not only to the Turkish market but to the whole world country market with a 102-year-old brand gave us many advantages. It manufactures high-

performance mineral oils, greases and auto care products for the automotive, industrial, textile, construction, railways, agriculture, metal, energy, plastics, machinery, aviation and defense industry sectors, with the Speedol, Rafinol, F6 and Pennant oil brands, in its

modern facilities at international standards, with the power of experience and a full automation system. Koçak Petrol, which has TSE & OEM approvals (Mercedes, VW, Man, Mtu, Volvo etc. approvals), ISO 9001, ISO 45001, ISO 14001 Quality and 17025 TÜRKAK Accredited Laboratory Test Qualification Certificate, Koçak Petrol adds value to the national economy in the Lubricants sector with its more than 750 product types and a variety of packaging from 100 ml to 1000 lt, both domestically and internationally at the point it has reached today.”

With the power of your knowledge and experience, you operate in bringing

products to many sectors. Can you inform us more about this subject? “First of all, I can say that our main goal is to support domestic production in our country and to make projects to reduce our country's dependence on foreign sources with the principle of sustainability. We are extremely proud to be the solution partner of both the domestic market and the local and defense industry institutions in our country with its product diversity by producing lubricant and protective chemical products in almost all branches of industry and sector, from energy to metal, from machinery to maritime, and in all areas of life.”

You produce high-

performance mineral oils, greases and auto care products locally in many sectors such as the defense industry, and it is obvious that you are successful. So what are your basic principles to make it sustainable? “In this regard, we can list the following as constantly developing new projects in R&D and project issues, as well as developing existing projects, raising quality targets within the scope of continuity, strong laboratory infrastructure, presence of competent technical personnel in addition to machine power, and giving utmost importance to education. With the support of both software and trained personnel and the correct management of all technical and operation teams, where the division of labor is made, quality products are entered into the sectors on time, while on the other hand, a detailed follow-up system is followed in the R&D, sales, production and quality bands for

the continuation of success.”

What kind of measures do you take to control the possible effects of wastes arising from your production activities in terms of environment and human health? “The direct answer to the question is the waste management regulation. The requirements of this regulation are to ensure the management of wastes that may have an impact on the environment and human health. We do this by collecting the waste generated within the facility in accordance with the regulations, and then delivering it to licensed companies. The collection of waste is not random, it is ensured that each waste is collected in accordance with its own waste code and sent to licensed companies with the appropriate waste code.

Could you tell us more about the equipment and capacity of your

production facility? “Our company, which has a production volume of 60,000 tons/year/1 shift capacity on an area of 14,000 m² in Gebze Pelitli Region, carries

out its production with the power of experience and a full automation system in its modern facilities at international standards.”





Emergency Mobile Systems



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Emergency Mobile Systems

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ALMANYA ŞUBE / BRANCH GERMANY
Kalkumer Straße 125
40468 Düsseldorf Germany
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Fax : +49 (0)211 / 680 20 55

İSTANBUL ŞUBE / BRANCH İSTANBUL
İstic Toptancılar Çarşısı 28. Ada No:48-50
Mahmutbey/Bağcılar/İstanbul/TURKEY
Tel : +90 212 659 22 87 / 659 22 88
Fax : +90 212 659 22 89

DUBAİ ŞUBE / BRANCH DUBAİ
P.O. Box 261410 Dubai / U.A.E.
Tel : + 971 4 880 64 68
Fax : + 971 4 880 64 86