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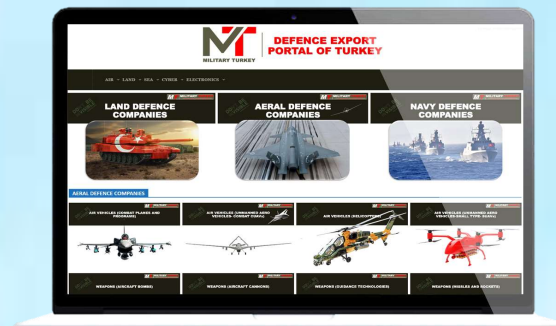
DEFENCE EXPORT & MANUFACTURERS PORTAL OF TURKEY

**4750+**  
**Manufacturers**  
**42.500+**  
**Products**



## VACANCIES | EXPORT PORTAL | MAGAZINE

**EDITOR'S NOTE: ADVANTAGES OF MILITARY TURKEY PORTAL ON DEFENCE EXPORT UNLOCKING THE EXPORT ARSENAL**



**COMPREHENSIVE OVERVIEW: COMBAT AND MULTI PURPOSE DRONES IN TURKISH DEFENCE INDUSTRY**



**WHY TURKEY IS GOOD ON FIREARMS MANUFACTURING?**

**THE MOST COMPREHENSIVE LIST FOR FIREARMS IN TURKEY**

SNIPERS | SHOTGUNS | MACHINE GUNS | PISTOLS | BULLPUPS | MAGAZINE FEDS | SINGLE/DOUBLE BARRELS

**TOP 50 NEWS | GLOBALLY**

**KEYNOTES: WHAT HAPPENED ON THIS MONTH IN DEFENCE INDUSTRY?**

**TOP DEVELOPMENTS ON DEFENCE MARKET**

**TOP 50 NEWS | TURKEY**



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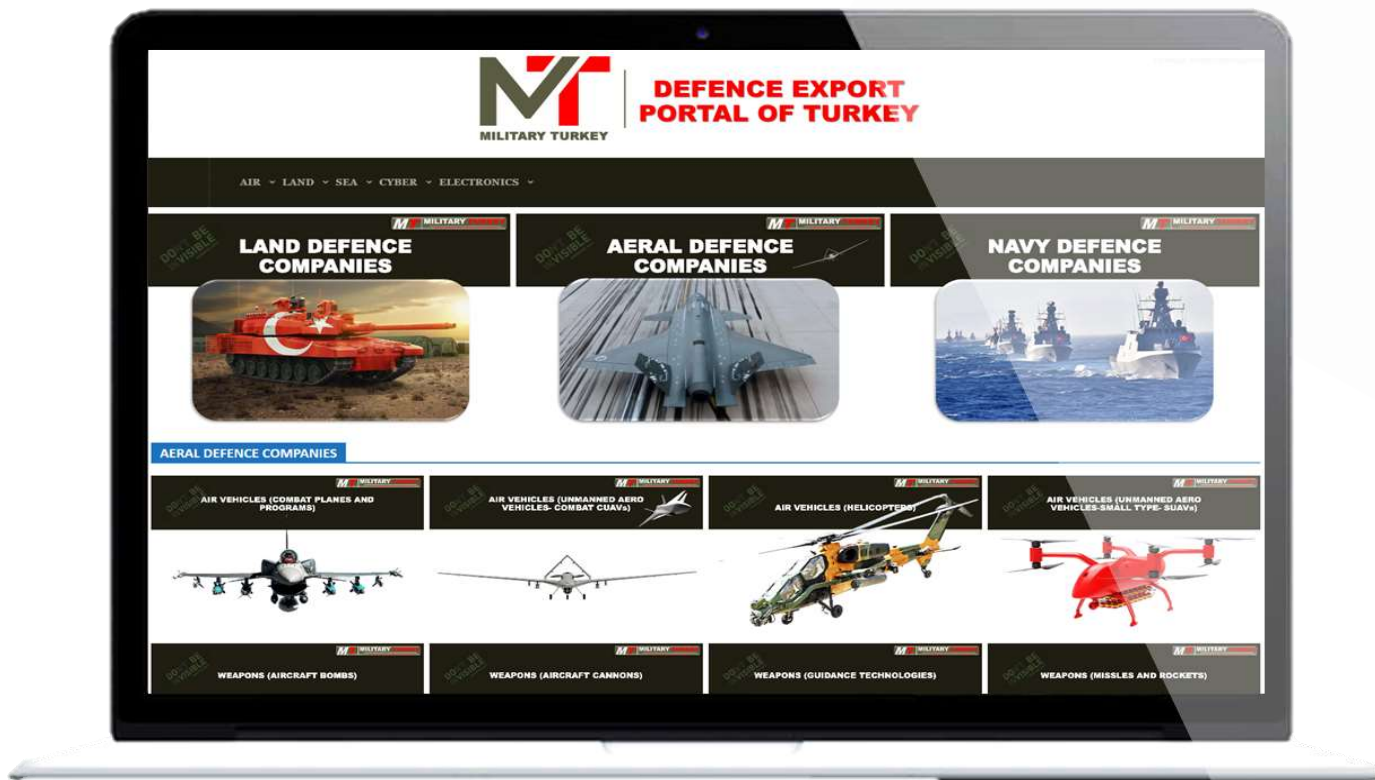
DEFENCE EXPORT & MANUFACTURERS PORTAL OF TURKEY

# 4750+ Manufacturers

# 42.500+ Products



TURKEY'S DEFENCE SHOPPING MAGAZINE



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# INTRODUCTION



TURKEY'S DEFENCE SHOPPING MAGAZINE

The Turkish defense industry has seen a rapid expansion in recent years, thanks to increased investment from the government and a focus on developing a self-sufficient domestic defense industry. Today, the defense industry in Turkey is a large and growing sector that is made up of several different companies, both public and private. These companies are responsible for the production of a wide range of defense-related products, from military hardware to software and other services. Turkey has also increased its exports of defense-related products in recent years, becoming a major supplier of defense-related products to countries around the world. The Turkish defense industry has also become increasingly involved in international collaborations, partnering with other countries to develop new technologies and systems.

The defense industry in Turkey has been growing rapidly in recent years. In 2002, it was estimated that sales in the sector equaled around \$1 billion, while exports stood around \$248 million. But by 2021, those numbers had grown to \$3.2 billion in exports, and the sector had become a major contributor to the national economy.

Turkey has developed a wide range of defense products, ranging from military hardware and aircraft to unmanned submarines and drones. The government has also encouraged the growth of the sector by providing tax breaks and incentives to Turkish defense companies. The industry is highly regulated by the government, which requires companies to obtain various licenses and permits in order to operate. Additionally, the government has implemented a number of export controls to ensure that Turkey's defense products are not used for illegal activities.

The defense industry in Turkey has seen significant growth in recent years, with the country transitioning from importing 70 percent of its military hardware to 30 percent. In 2019-2023, a strategic plan was launched which prioritizes domestic involvement in 75% of all defense procurement.

*The goal is to reach \$6 billion in defense exports, Turkey is also looking forward to the reach to target.*

## HOW TURKEY IS GOING TO REACH A \$6 BILLION EXPORT TARGET BY 2023 IN DEFENCE INDUSTRY?

Turkey is aiming to reach its defence goal of a \$6 billion export target by 2023 through a variety of measures, including investing in research and development, improving the quality and range of defence products, diversifying its client base, and expanding its international partnerships. The country is also working to increase its domestic production capabilities and develop a more competitive defence industry. Additionally, the government is actively encouraging foreign direct investment in the sector, as well as offering incentives to Turkish defence companies to boost their capabilities.

*Military Turkey (MT) is created to increase Defence Export Potential of Turkey and support to increase the defence export volumes 3 times in a short time period.*

## WHAT IS MT | MILITARY TURKEY WEB SITE?

[www.militaryturkey.com](http://www.militaryturkey.com) / [www.militaryturkiye.com](http://www.militaryturkiye.com)

MT | MILITARY TURKEY is the largest Turkish Defense Export Hub with 4750+ Companies and 42.500+ Products.

The Portal also publishes | NEWS | TENDERS | JOB VACANCIES





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# INTRODUCTION

## MT | WEB PORTAL www.militaryturkey.com

### WHAT IS DIFFERENCE OF [www.militaryturkey.com](http://www.militaryturkey.com) WEB PORTAL THAN OTHER PORTALS?

The difference between MT | MILITARY TURKEY defence portal and other portals is that [www.militaryturkey.com](http://www.militaryturkey.com) tailored to the defence industry to provide access to exclusive information on defence-related products, manufacturers and both domestic and global markets, as well as analysis of the latest developments in the defence industry as a defence export portal.

### WHY BUYERS ALL OVER THE WORLD VISIT [www.militaryturkey.com](http://www.militaryturkey.com)?

- The portal is free, open and the most comprehensive source ever created for Turkish Defence Products for millions of interested buyers.
- The portal is an open library for everybody on defence industry.
- The portal has 4500+ companies.
- The portal has 45.000 + products.
- The portal is a 7/24 access for millions of globally buyers from defence industry.
- Millions of Buyers visit [www.militaryturkey.com](http://www.militaryturkey.com) and its social media addresses in order to find defence products.
- The Portal is the future library of Turkish Defence Industry.

### ADVANTAGE FOR MANUFACTURERS & SERVICE PROVIDERS

- Interested buyers get in connection directly get in connection with the manufacturers.
- MT Portal is not interested or involve in relations with the companies and buyers due to confidentiality sensitivity.
- The portal only targets and allows companies registered in Turkey or has a representative in Turkey.
- 7/24 10X Stronger Marketing Area, Saving Unnecessary Marketing Travels and Costs.
- Beging Part of Open Library for Turkish Defence Industry.

**Only aim of the portal is to increase defence export volume of Turkey.**

## MT | MAGAZINE TURKEY'S DEFENCE EXPORT MAGAZINE

### WHAT IS MT | DEFENCE MAGAZINE?

MT | MAGAZINE Magazine is an information platform on the developments of international and Turkish defence and aerospace industries, capabilities and technology.

The Magazine covers the latest news and developments in the Turkish defence and aerospace sector, provides in-depth analysis of defence and aerospace capabilities and technologies, and offers a comprehensive look at the Turkish defence industry. It also provides an in-depth look at the country's military, its capabilities, and its role in the global defence industry.

There are many different defence magazines available in the market, Each magazine offers a different perspective on the world of defence and security, with topics ranging from military platforms and threat intelligence to industry trends and international developments.

### WHY IS MT | DEFENCE MAGAZINE CREATED?

- MT Magazine is supportive arm of [www.militaryturkey.com](http://www.militaryturkey.com)
- Rather than other Defence Magazines, MT Magazine presents a sector based library, on topic by topic such as «Shopping Magazine» of Defence Industry.
- For Example «ISSUE-1» Presents UAVs & Firearms in defence industry Turkey and the Magazine is prepared as a book for Defence Professionals)
- Many of the Defence Magazines Globally are full of advertisement with lack of information, MT Magazine has both domestic and international news with full of informative approach.
- MT Magazine published monthly.
- The Magazine is both available for Hardcopy and Digital Copy.
- MT Magazine's Digital Copy to be sent 750.000 Defence Companies.

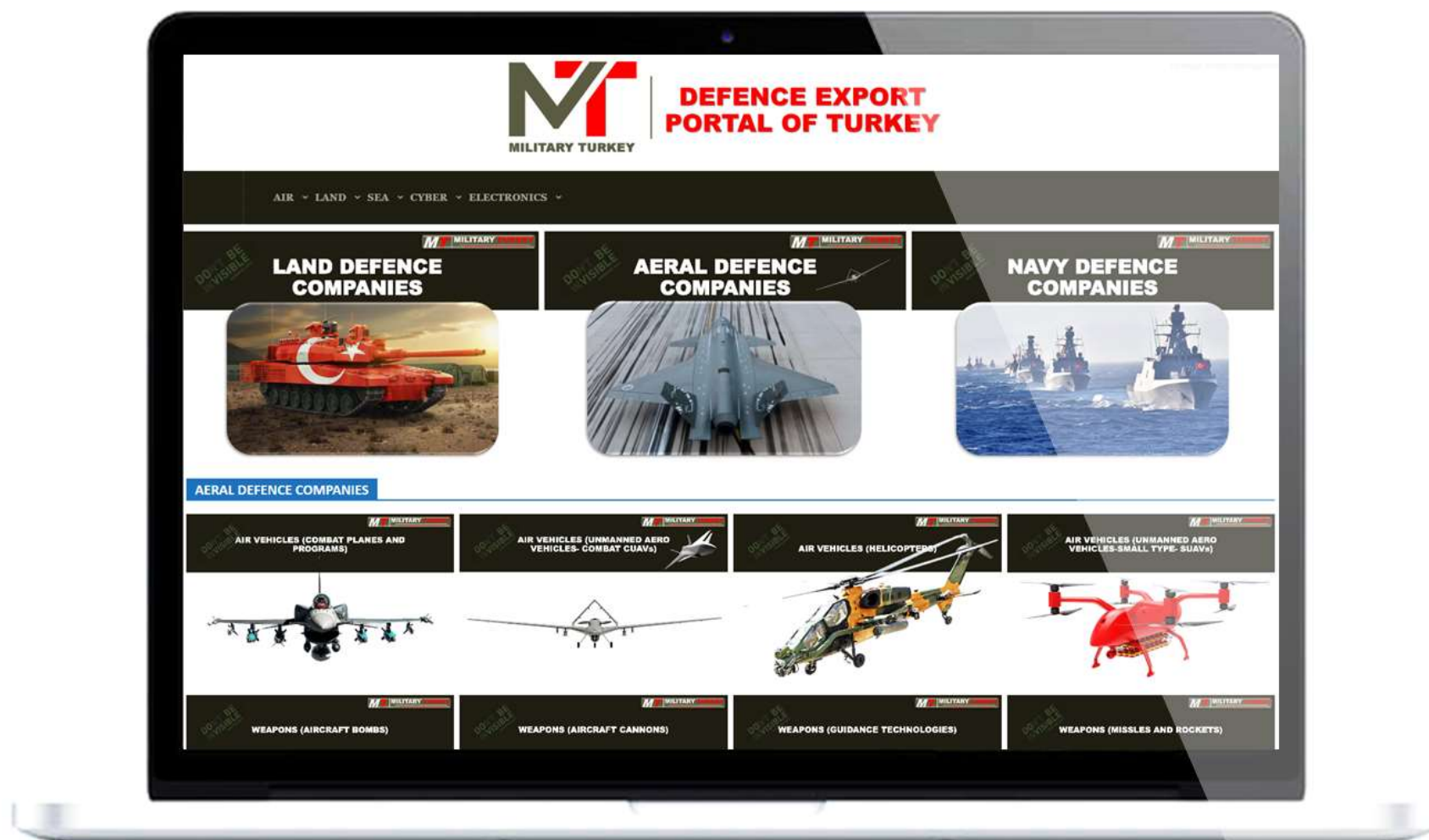
### MT PUBLISH TEAM





# MAIN CATEGORIES

42.500 + Products Listed @militaryturkey.com! Check Before Procurement of Any Defence Product!



## Land Defence Manufacturing Categories

- ACCESS CONTROL SYSTEMS AND TECHNOLOGIES (LAND)
- ACTUATORS (LAND)
- AIR AND ENVIRONMENTAL CONDITIONERS (LAND)
- AIRCRAFT GROUND HANDLING VEHICLES (LAND)
- ANTENNAS (LAND)
- ASSOCIATIONS (SASAD DEFENCE ASSOCIATION)
- BALLISTIC AND PROTECTIVE TECHNOLOGIES (LAND)
- CBRN (CHEMICAL, BIOLOGICAL, RADIOLOGICAL, NUCLEAR) DEFENCE
- CHASSIS, SPRINGS, SUSPENSIONS DIFFERENTIALS AND SHAFTS (LAND)
- CHEMICALS (LAND)
- COMMUNICATION SYSTEMS (LAND)
- COMPONENT MANUFACTURING AND INTEGRATION (LAND)
- CRIMINAL INVESTIGATION AND FORENSIC INFORMATION TECHNOLOGIES (LAND)
- DEFENCE CONSTRUCTION (LAND)
- DEFENCE MEDIA
- DIGITAL IDENTIFICATION AND TRACKING SYSTEMS (LAND)
- DISPLAY, COMPUTER, COMMAND AND CONTROL SYSTEMS (LAND)
- ENGINES AND SUBSYSTEMS (LAND)
- EXPLOSIVES DETECTION AND DISPOSAL (LAND)
- FANS (LAND)
- FILTERS (LAND)
- FIRE FIGHTING SYSTEMS (LAND)
- FOOD AND BEVERAGES (LAND)
- FURNITURE AND CABINETS (LAND)
- GEARS AND GEAR BOXES (LAND)
- GENERATORS AND POWER SYSTEMS (LAND)
- GPS, GNSS SYSTEMS, GIS SYSTEMS (LAND)
- HYDRAULIC SYSTEMS (LAND)
- IMAGE AND VIDEO TRANSMISSION TECHNOLOGIES (LAND)
- IMAGING SYSTEMS (LAND)
- INTELLIGENT TRAFFIC TECHNOLOGIES (LAND)
- JAMMER TECHNOLOGIES (LAND)
- KITCHENS AND EQUIPMENT (LAND)
- LIGHTING (LAND)
- MASTS, TRIPODS, PAN TILT SYSTEMS (LAND)
- MEDICAL AND SANITATION PRODUCTS (LAND)
- MILITARY BATTERIES SYSTEMS (LAND)
- MILITARY TEXTILE AND WEARABLE ITEMS (LAND)
- MINE DETECTION AND CLEANING (LAND)
- OILS, FLUIDS AND GREASES (LAND)
- OPTICS, ELECTRO OPTICAL AND OPTRONICS SYSTEMS (LAND)
- PUMPS (LAND)
- RADAR AND SURVEILLANCE SYSTEMS (LAND)
- ROBOTIC AND AUTONOMOUS SYSTEMS (LAND)
- SEATS AND MINE BLAST SEATS (LAND)
- SENSOR TECHNOLOGIES (LAND)
- SHOTGUNS (LAND)



# MAIN CATEGORIES



- FURNITURE AND CABINETS (LAND)
- GEARS AND GEAR BOXES (LAND)
- GENERATORS AND POWER SYSTEMS (LAND)
- GPS, GNSS SYSTEMS, GIS SYSTEMS (LAND)
- HYDRAULIC SYSTEMS (LAND)
- IMAGE AND VIDEO TRANSMISSION TECHNOLOGIES (LAND)
- IMAGING SYSTEMS (LAND)
- INTELLIGENT TRAFFIC TECHNOLOGIES (LAND)
- JAMMER TECHNOLOGIES (LAND)
- KITCHENS AND EQUIPMENT (LAND)
- LIGHTING (LAND)
- MASTS, TRIPODS, PAN TILT SYSTEMS (LAND)
- MEDICAL AND SANITATION PRODUCTS (LAND)
- MILITARY BATTERIES SYSTEMS (LAND)
- MILITARY TEXTILE AND WEARABLE ITEMS (LAND)
- MINE DETECTION AND CLEANING (LAND)
- OILS, FLUIDS AND GREASES (LAND)
- OPTICS, ELECTRO OPTICAL AND OPTRONICS SYSTEMS (LAND)
- PUMPS (LAND)
- RADAR AND SURVEILLANCE SYSTEMS (LAND)
- ROBOTIC AND AUTONOMOUS SYSTEMS (LAND)
- SEATS AND MINE BLAST SEATS (LAND)
- SENSOR TECHNOLOGIES (LAND)
- SHOTGUNS (LAND)
- SIMULATIONS, TRAINING AND CONSULTANCY (LAND)
- SNIPER DETECTION SYSTEMS (LAND)
- SOFTWARES (LAND)
- TACTICAL TOOLS (LAND)
- TESTING, CALIBRATION AND ANALYSIS (LAND)
- TIRE AND BRAKE SYSTEMS (LAND)
- VALVES (LAND)
- VEHICLES (AMBULANCES)
- VEHICLES (AMPHIBIOUS)
- VEHICLES (BUSES)
- VEHICLES (COMBAT SPECIALIST VEHICLES)
- VEHICLES (CONSTRUCTION EQUIPMENT)
- VEHICLES (DUMMY TARGETS)
- VEHICLES (LOGISTIC SUPPORT)
- VEHICLES (RIOT CONTROL AND INTERNAL SECURITY)
- VEHICLES (SUGVS, SMALL UNMANNED GROUND VEHICLES)
- VEHICLES (TANK CARRIERS)
- VEHICLES (TANKS, HOWITZERS, OTHER COMBAT VEHICLES)
- WEAPONS (AIR DEFENCE)
- WEAPONS (AMMUNITION-ARTILLERY)
- WEAPONS (AMMUNITION-CARTRIDGES)
- WEAPONS (AMMUNITION-EXPLOSIVES)
- WEAPONS (AMMUNITION-FUZES, DETONATORS AND IGNITION SYSTEMS)
- WEAPONS (AMMUNITION-GRENADES)
- WEAPONS (AMMUNITION-MINES)
- WEAPONS (AMMUNITION-MORTARS)
- WEAPONS (AMMUNITION-PRODUCTION MACHINERY)
- WEAPONS (AMMUNITION-SPRAYS)
- WEAPONS (AMMUNITION-TANK AND HOWITZER)
- WEAPONS (ANTI DRONE TECHNOLOGIES)
- WEAPONS (CASES FOR RIFLE AND AMMUNITION)
- WEAPONS (FIREARMS-BLANK PCB AIR RIFLES)
- WEAPONS (FIREARMS-BULL PUP)
- WEAPONS (FIREARMS-LEVER ACTION)
- WEAPONS (FIREARMS-MACHINE GUNS)
- WEAPONS (FIREARMS-MAGAZINE FED RIFLES)
- WEAPONS (FIREARMS-MECHANISMS)
- WEAPONS (FIREARMS-OTHER)
- WEAPONS (FIREARMS-OVER AND UNDER)
- WEAPONS (FIREARMS-PISTOLS)
- WEAPONS (FIREARMS-PUMP ACTION)
- WEAPONS (FIREARMS-SEMI AUTOMATIC)
- WEAPONS (FIREARMS-SINGLE AND DOUBLE BARREL)
- WEAPONS (FIREARMS-SNIPERS)
- WEAPONS (MISSILES AND ROCKETS)
- WEAPONS (MORTARS AND ARTILLERY SYSTEMS)
- WEAPONS (TURRET SYSTEMS)
- WEAPONS (GRENADE LAUNCHERS)
- WINCHES (LAND)





# MAIN CATEGORIES

## Aerial Defence Manufacturing Categories



- AIR VEHICLES (AEROSTAT VEHICLES)
- AIR VEHICLES (COMBAT PLANES AND PROGRAMS)
- AIR VEHICLES (DUMMY TARGETS)
- AIR VEHICLES (HELICOPTERS)
- AIR VEHICLES (UNMANNED AERO VEHICLES- COMBAT CUAVS)
- AIR VEHICLES (UNMANNED AERO VEHICLES-SMALL TYPE- SUAVS)
- AIRCRAFT (ACTUATORS)
- AIRCRAFT (ARRESTING SYSTEMS)
- AIRCRAFT (BALLISTIC AND PROTECTIVE TECHNOLOGIES)
- AIRCRAFT (BATTERIES SYSTEMS)
- AIRCRAFT (CHEMICALS)
- AIRCRAFT (CRANES AND HOISTS)
- AIRCRAFT (DISPLAY, COMPUTER, COMMAND AND CONTROL SYSTEMS)
- AIRCRAFT (EJECTION SEATS AND BELTS)
- AIRCRAFT (ENGINES AND SUBSYSTEMS)
- AIRCRAFT (FIRE SUPPRESSION SYSTEMS)
- AIRCRAFT (FLARE COUNTERMEASURE SYSTEMS)
- AIRCRAFT (FUEL SYSTEMS)
- AIRCRAFT (LANDING GEARS AND TIRES)
- AIRCRAFT (LIGHTING)
- AIRCRAFT (MAINTENANCE AND REPAIR)
- AIRCRAFT (PARACHUTE SYSTEMS)
- AIRCRAFT (RADAR, COMMUNICATION, SIGNAL SYSTEMS)
- GIS, GEOGRAPHIC INFORMATION SYSTEM (AERO)
- MILITARY TEXTILE AND WEARABLE ITEMS (AERO)
- PLATFORM COMPONENTS AND MECHANISMS (AERO)
- PLATFORM POWER DISTRIBUTION SYSTEMS (AERO)
- SATELLITES (AERO)
- SIMULATIONS, TRAINING AND CONSULTANCY (AERO)
- SOFTWARES (AERO)
- TESTING, CALIBRATION AND ANALYSIS (AERO)
- VALVES (AERO)
- WEAPONS (AIRCRAFT BOMBS)
- WEAPONS (AIRCRAFT CANNONS)
- WEAPONS (ELECTRO OPTICAL AND OPTRONICS)
- WEAPONS (GUIDANCE TECHNOLOGIES)
- WEAPONS (MISSILES AND ROCKETS)



# MAIN CATEGORIES

## Navy Defence Manufacturing Categories



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- GENERATORS AND POWER SYSTEMS (NAVY)
- LIGHTING (NAVY)
- MAINTENANCE AND REPAIR (NAVY)
- MILITARY BATTERIES SYSTEMS (NAVY)
- MILITARY TEXTILE AND WEARABLE ITEMS (NAVY)
- PROULSION AND RUDDER SYSTEMS (NAVY)
- PUMPS (NAVY)
- RADAR, COMMUNICATION, SIGNAL COMPANIES (NAVY)
- SEA VEHICLES (AMBULANCE SHIPS)
- SEA VEHICLES (CREW BOATS)
- SEA VEHICLES (FAST ATTACK CRAFTS)
- SEA VEHICLES (FIRE FIGHTING SHIPS)
- SEA VEHICLES (FRIGATES)
- SEA VEHICLES (HYDROGRAPHIC CRAFT)
- SEA VEHICLES (LANDING CRAFT)
- SEA VEHICLES (LOGISTIC SUPPORT SHIPS)
- SEA VEHICLES (MINE HUNTING CRAFT)
- SEA VEHICLES (PATROL CRAFTS AND VESSELS)
- SEA VEHICLES (RESEARCH AND SURVEY CRAFT)
- SEA VEHICLES (TRAINING CRAFT)
- SEA VEHICLES (UNDERWATER VEHICLES, U/SVS)
- SEA VEHICLES (UNMANNED SURFACE VEHICLES, USVS)
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- SIMULATIONS, TRAINING AND CONSULTANCY (NAVY)
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- VALVES (NAVY)
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- WEAPONS (MISSILES, ROCKETS AND TORPEDORS)





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- CYBER OPERATION CENTERS
- CYBER SECURITY DOMAIN AND MANAGEMENT SYSTEMS
- ENCRYPTION DEVICES AND SOFTWARES
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- LOG DATA IDENTIFICATION AND SECURE COMMUNICATION
- TESTING AND ANALYSIS (CYBER SECURITY)

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- CONNECTORS
- CONTACTORS
- CONVERTERS
- ELECTRIC MOTORS
- ELECTRIC RELATED MECHANISMS
- ELECTRICAL INSTALLATION ENGINEERING
- ELECTRONIC CARDS
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- MICROWAVE AND RF PRODUCTS
- RELAYS AND CONTACTORS
- TESTING, CALIBRATION AND ANALYSIS (ELECTRONICS)
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<b>WEAPONS (AIRCRAFT BOMBS)</b> 	<b>WEAPONS (AIRCRAFT CANNONS)</b> 	<b>WEAPONS (GUIDANCE TECHNOLOGIES)</b> 	<b>WEAPONS (MISSILES AND ROCKETS)</b> 
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<b>AIRCRAFT (LANDING GEARS AND TIRES)</b> 	<b>GIS, GEOGRAPHIC INFORMATION SYSTEM (AERO)</b> 	<b>MILITARY BATTERIES SYSTEMS</b> 	<b>AIRCRAFT (BALLISTIC AND PROTECTIVE TECHNOLOGIES)</b> 





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<p><b>SEA VEHICLES (LOGISTIC SUPPORT SHIPS)</b></p>	<p><b>SEA VEHICLES (FRIGATES)</b></p>	<p><b>SEA VEHICLES (HYDROGRAPHIC CRAFT)</b></p>	<p><b>SEA VEHICLES (LANDING CRAFT)</b></p>
<p><b>SEA VEHICLES (CREW BOATS)</b></p>	<p><b>SEA VEHICLES (MINE HUNTING CRAFT)</b></p>	<p><b>SEA VEHICLES (PATROL CRAFTS AND VESSELS)</b></p>	<p><b>SEA VEHICLES (RESEARCH AND SURVEY CRAFT)</b></p>
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# AIR DEFENCE

## COMBAT AND MULTI PURPOSE DRONES IN TURKISH DEFENCE INDUSTRY

The development of drone technology has been rapidly increasing in recent years, and the Turkish defence industry is now embracing this new technology. Drones have revolutionised warfare and are now a critical component of modern defence systems. In this blog post, I will be exploring the use of drones in the Turkish defence industry, their benefits and the challenges they present, as well as the current and future trends in drone technology.

### Introduction to Drone Technologies

Drones, also known as unmanned aerial vehicles (UAVs), are unmanned aerial systems that can be controlled remotely or autonomously. They are typically used for surveillance, reconnaissance and intelligence gathering, as well as for delivering weapons or dropping packages. Drones are typically small, lightweight and can fly at high altitudes, making them difficult to detect and difficult to shoot down.

The use of drones in the Turkish defence industry is a relatively new phenomenon, but one that is quickly gaining traction. With their ability to provide high-quality surveillance and reconnaissance at a low cost, drones are becoming increasingly attractive to the Turkish defence industry.

### History of Drone Technologies

The use of drones in warfare dates back to World War I, when the British developed unmanned aircraft for reconnaissance and target-spotting missions. In the decades since, drones have become increasingly sophisticated, with the development of larger and more capable systems, such as the BAYKAR Drones.

In recent years, the development of drone technology has accelerated, with the development of smaller, more agile and cheaper systems. Drones have become increasingly popular in the military and commercial sectors, thanks to their versatility and cost-effectiveness.

### Types of Drones Used by the Turkish Defence Industry

The Turkish defence industry uses a variety of different types of drones, depending on the mission requirements. The most common type of drone used by the Turkish defence industry is the light tactical unmanned aerial system (LITUAS).

These small, lightweight drones can be used for a variety of purposes, including surveillance, reconnaissance and intelligence gathering.

Other types of drones used by the Turkish defence industry include the medium-altitude, long-endurance (MALE) drone, which is used for long-range surveillance and reconnaissance missions, and the high-altitude, long-endurance (HALE) drone, which is used for high-altitude surveillance and reconnaissance missions.

### Drone Uses in the Turkish Defence Industry

Drones have a wide range of uses in the Turkish defence industry. They are used for surveillance and reconnaissance, to gather intelligence, and to detect and identify targets. They can also be used for electronic warfare, to jam enemy communications and disrupt their operations.

Drones can also be used for offensive operations, such as launching missiles or dropping bombs. They can also be used for air strikes, as well as for air-to-ground strikes.

### Benefits of Drone Technology for the Turkish Defence Industry

The use of drones in the Turkish defence industry has a number of benefits. Firstly, they are relatively inexpensive compared to other defence systems. This means that they can be deployed quickly and easily, allowing the Turkish defence industry to respond quickly to any threats.

Drones also provide a high level of surveillance and reconnaissance capabilities, allowing the Turkish defence industry to monitor and identify targets quickly and accurately. They also provide a high degree of accuracy when launching missiles or dropping bombs.

Finally, drones can be used to launch air strikes or air-to-ground strikes quickly and efficiently. This allows the Turkish defence industry to respond quickly to any threats and gain the upper hand in any conflict.



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# AIR DEFENCE

## **Turkish Drone Programs and Projects**

In recent years, the Turkish government has begun to invest heavily in the development of drone technology. This has resulted in a surge of new drone programs and projects being launched across the country.

From military applications to civilian use, the range of projects is wide and varied. These programs are helping to increase Turkey's technological capabilities and are likely to have a lasting impact on the country's future.

Turkey has several military drone programs, such as the Bayraktar TB2. This drone is capable of carrying out reconnaissance, surveillance, and target acquisition missions. It has also been used in several military operations in the region.

The government is also investing in the development of larger, more advanced drones. These are expected to be used for a variety of purposes, including reconnaissance, surveillance, and even combat missions.

## **Civilian Drone Programs**

In addition to military applications, the Turkish government has also invested in civilian drone programs. These include projects such as the use of drones for agricultural purposes, search and rescue operations, and even delivery services.

The government is also investing in the development of drones for use in urban environments. These drones will be used for a variety of purposes, such as traffic monitoring, surveillance, and even public safety.

## **Current and Future Trends in Drone Technology**

The use of drones in the Turkish defence industry is continuing to evolve and develop. In the future, drones will become even more advanced, with the development of new technologies such as artificial intelligence (AI).

This will enable drones to become even more autonomous, allowing them to make decisions and act without human intervention.

The Turkish government has made it clear that they are committed to investing in the development of drone technology. This commitment is likely to result in the launch of even more drone programs and projects in the coming years.

It is also likely that Turkish drones will become more advanced and capable of performing a wider range of tasks. This could have a major impact on the country's economy, security, and even its international standing.

In addition, the development of new materials and technologies will allow drones to become smaller, lighter and more agile, allowing them to move faster and fly higher. Finally, the development of new sensors and cameras will enable drones to provide even more detailed and accurate surveillance and reconnaissance.



## **Opportunities and Threats of Drone Technology in the Turkish Defence Industry**

The use of drones in the Turkish defence industry presents both opportunities and threats. On the one hand, drones can provide the Turkish defence industry with a number of benefits, such as increased surveillance and reconnaissance capabilities, increased accuracy and precision, and increased speed and agility.





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# AIR DEFENCE

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## -TAI Aksungur

Turkish Aerospace Industries (TAI) created the TAI Aksungur as an unmanned aerial vehicle (UAV) for the Turkish Armed Forces. It is the biggest drone made by the manufacturer with a payload capacity for mission-specific equipment, utilizing existing TAI Anka series technology. It is designed to be utilized as an unmanned combat aerial vehicle, for long-term surveillance, signal intelligence, marine patrol operations, and other purposes. Early in 2020, TAI intended to integrate armament packages and begin producing the Aksungur. On October 20, 2021, the first unit was handed over to the Turkish Naval Forces.

Aksungur, which means "gyrfalcon" in Turkish, is categorized as a MALE unmanned aerial vehicle (UAV). Turkish Aerospace Industries (TAI) created and produced it for the Turkish Armed Forces' tactical surveillance and reconnaissance missions. The Aksungur has a dual boom layout and two turbocharged engines.

ANKA-AKSUNGUR is a Medium Altitude Long Endurance (MALE) class UAV System, capable to perform day and night Intelligence, Surveillance and Reconnaissance (ISR) and strike missions with EO/IR, SAR and SIGINT payloads, and a variety of air to ground weapons. ANKA-AKSUNGUR is powered by two PD-170 twin-turbocharged diesel engines enabling long endurance operations up to 40,000ft. 3D Model Loading This page includes one or more 3D models that are loading



## -TAI Anka

"ANKA", the Turkish Unmanned Aerial Vehicle designed by the engineers of the Turkish Aerospace in cooperation with several local subcontractors, has left the Hangar with a ceremony held on July 16, 2010 at the Turkish Aerospace facilities after its assembly. Leaving the hangar, ANKA's engine was also started, and ANKA aims to be the world's best operating system in its category.

It is a Medium Altitude Long Endurance (MALE) UAV Program. The UAV Program is a development project featuring three aerial vehicle prototypes, aiming to design and develop all ground systems around defined needs and complete the prototype and development tests. The Program features "Conceptual Design", "Preliminary Design and Development" and "Testing and Evaluation" phases. During the development phase, a System Integration Laboratory (SEL) was set up where all systems would be developed/interfaced/integrated.

Flights tests have been underway since December 30, 2010, and a 10-aircraft serial production contract (ANKA-S) has been signed in October 2013 for the "ANKA" Unmanned Aerial Vehicle. ANKA-S Project is successfully underway, with a successful Review Meeting in February 2014, since when, the design activities have gained pace.

As part of the simultaneous Block B configuration, there are ongoing SAR/ISAR/GMTI radar integration activities. This system has also been tested as of the second half of 2014.

ANKA Unmanned Aerial Vehicle was exhibited in the ILA Berlin Airshow and Farnborough Airshow in 2014.



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# AIR DEFENCE



## Unmanned Aerial Vehicle Systems Bayraktar AKINCI System

MILITARY TURKEY

### -Bayraktar Akinci

*Bayraktar Akinci is a high-altitude long-endurance (HALE) unmanned combat aerial vehicle (UCAV) being manufactured by the Turkish defence company Baykar. The first three units entered service with the Turkish Armed Forces on 29 August 2021.*



With the preliminary design phase completed in June 2019, Akinci started engine ground run in August 2019 with a Ukrainian turboprop engine Ivchenko-Progress AI-450C.[6] First engine test was accomplished on September 1, 2019. Following the completion of other technical tests, the aircraft was moved to the Turkish Army's Çorlu Airfield Command. The UCAV made its maiden flight with automatic taxiing, take-off, 16-minute flight and successful landing on December 6, 2019.

Akinci has 881 lb (400 kg) internal and 2,094 lb (950 kg) external payload capacity, combining the overall combat load to max. 2,976 lb (1,350 kg). Powered by two 450 hp (340 kW) or 750 hp (560 kW) turboprop engines, large 66 ft (20 m) wingspan ensures 5.5 tons of maximum takeoff weight. Akinci will be the first UAV capable of launching an air launched cruise missile.

First pictures of the UAV hit media reports in June 2018 and it was unveiled to the public during the Teknofest Aviation, Space and Technology Festival in September 2019.

On 22 April 2021, Bayraktar Akinci UCAV has successfully conducted its first firing tests. During the test Akinci was equipped with three different variants of the indigenously developed smart ammunitions, MAM-L, MAM-C and MAM-T. The test has also been the first public appearance of the Roketsan's newest smart ammunition MAM-T. From July 6 to 7, the aircraft completed a test flight of 25 hours and 45 minutes, flying 7507 km and reaching an altitude of 38,039 feet or 11,594 meters. On August 29, 2021, Akinci was added to the inventory of Turkish armed forces.





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# AIR DEFENCE

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## -BayraktarTB2



*The Bayraktar TB2 is a Tactical Armed / UAV System, developed and manufactured by Baykar. A highly sophisticated design that provides all solutions that operator may need in one integrated system. The system consists of Bayraktar TB2 Armed / UAV Platform, Ground Control Station, Ground Data Terminal, Remote Display Terminal, Advanced Base with Generator and Trailer modules. Thanks to Baykar's technological accumulation and capabilities, the entire system is produced indigenously.*

Bayraktar TB2 is a Medium Altitude Long Endurance (MALE), Tactical Unmanned Aerial Vehicle capable of conducting Intelligence, Surveillance and Reconnaissance (ISR) and armed attack missions. An onboard avionic suite with a triple redundant avionic system encompasses units enabling a fully autonomous taxiing, take-off, landing and cruise. TB2 has proven its efficacy with over 500.000 of operational flight hours. Since 2014, it keeps carrying out missions successfully within the Turkish Armed Forces, Gendarmerie and the Turkish National Police. Currently, 257 Bayraktar platforms are at the service of Turkey, Qatar, Ukraine and Azerbaijan. Bayraktar TB2 holds the record in the Turkish aviation history for endurance (with 27 hours 3 minutes) and for altitude (with 25.030 feet). Bayraktar TB2 is also the first-ever aircraft in its category to be exported abroad.

The integration of the Indigenous munition "Roketsan MAM-L and MAM-C" and the capacity to successfully fulfill Intelligence, persistent aerial Surveillance and Reconnaissance (ISR) missions, has made the system an indispensable platform in operations. The Armed UAV Bayraktar TB2 is a multi-purpose platform as it can perform Target Acquisition using the onboard laser designator. It is also capable of eliminating the target using its payload consisting of four smart munitions. Bayraktar TB2 is a system that offers all cutting-edge solutions required to carry out surgical-precision strikes preventing the widespread damage to close areas. These features ensure civilian security as a first-order priority.

### Ground Control Station

*TB2 uses triple bands for LOS control and video transmission.*

*Baykar Mobile Ground Control Station (Mobile GCS) ensures the remote control of the Bayraktar TB2 platform from the forward bases, far from the central command centers. The powerful communication antennas of the Mobile GCS expand the mission range by allowing Bayraktar TB2 UAVs to take off and land to/from their current locations.*

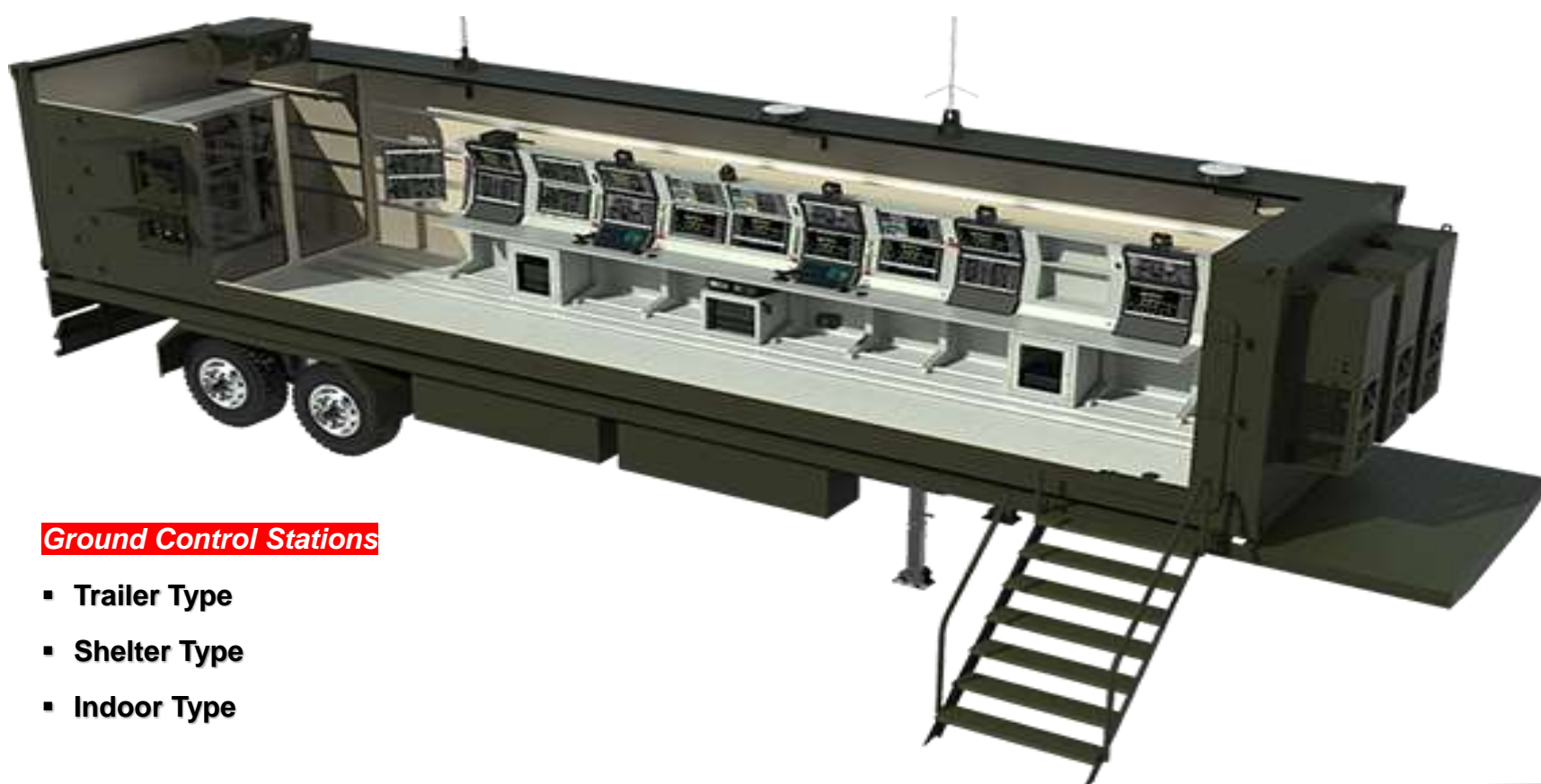


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*Consistent with NATO ACE III shelter standards, the mobile GCS encompasses a hydraulic driven aerial platform that can be raised up to 12m, automatic oriented antenna systems and a powerful truck providing mobility to all these components with hydraulic outriggers. The Mobile GCS is Baykar's own design. It is equipped with cutting-edge sensors and control valves allowing it to be set up safely in a short period of time.*



## **Ground Control Stations**

- **Trailer Type**
- **Shelter Type**
- **Indoor Type**





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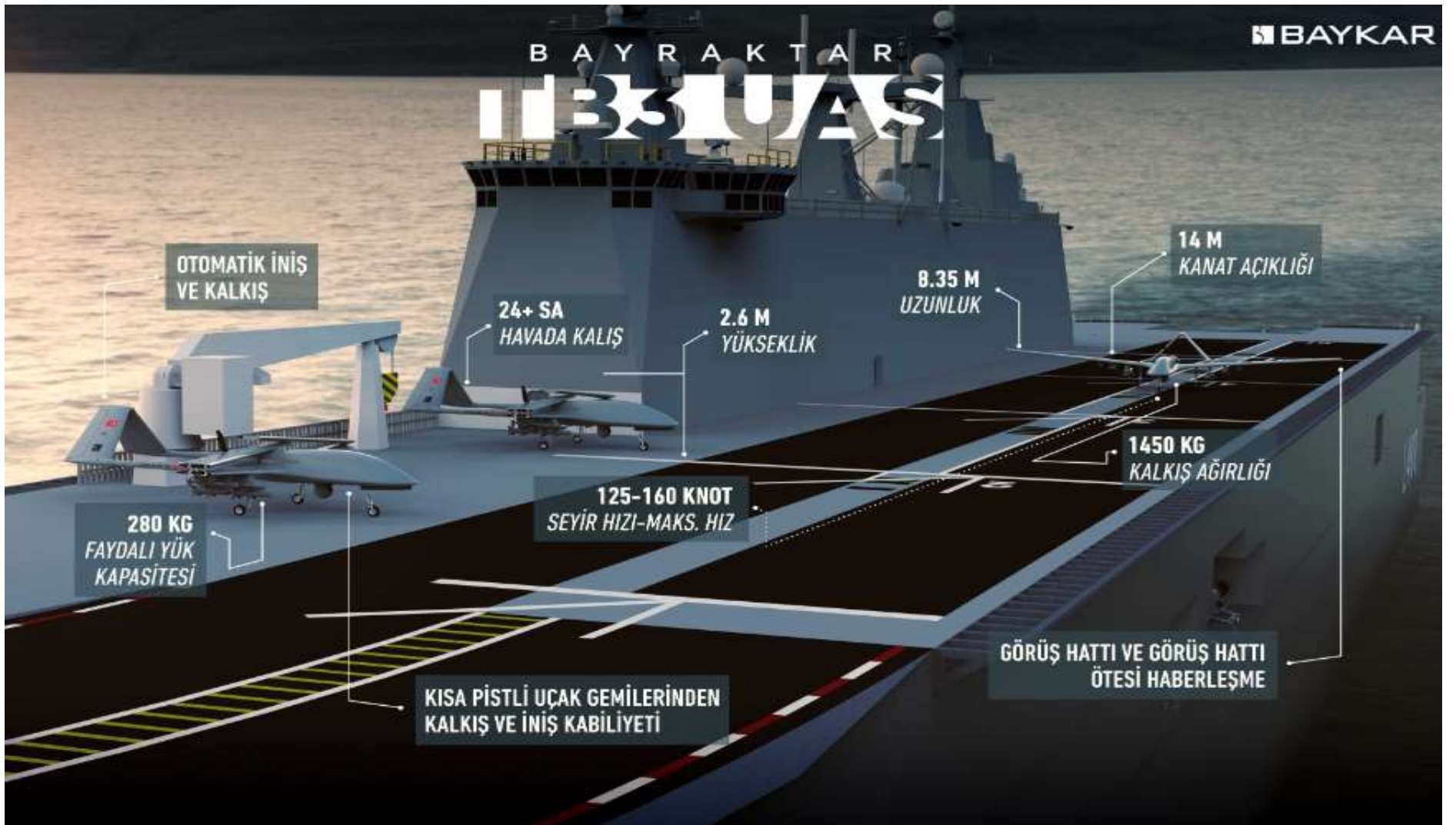
## -BAYRAKTAR TB3

The Bayraktar TB3 UCAV is an armed unmanned aerial vehicle system, currently being developed indigenously by Baykar and capable of takeoff and landing on short runway aircraft carriers. Besides reconnaissance/surveillance and intelligence missions, the Bayraktar TB3 UCAV can launch an assault operation with the smart munitions stationed under its wings.

The Bayraktar TB3 can conduct armed operations overseas due in part to custom capabilities, like foldable wings that enable use on aircraft carriers. The Bayraktar TB3 can be operated from very remote distances thanks to its Line-Of-Sight and Beyond-Line-Of-Sight communications capabilities.



## Unmanned Aerial Vehicle Systems BAYRAKTAR TB3





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# AIR DEFENCE

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## -LENTATEK

KARAYEL UAV System is an autonomous reconnaissance and surveillance platform and KARAYEL Tactical UAV System designed to be compatible and manufactured in accordance with NATO 'Airworthiness' standard; STANAG 4671.

KARAYEL UAV System has novel triple redundant distributed avionics architecture, which ensures protection against all kind of uncontrolled single point failure/crash.

Therefore, Lentatek has carried systematic fault safety used only in manned aviation in the world until now to an unmanned aerial vehicle for the first time with KARAYEL. KARAYEL has lightning protection thanks to the aluminum network grid on its composite structure.

'Pneumatic De-Icing System' which automatically detects icing conditions and activates carries KARAYEL one step further in terms of operations in critical climates. KARAYEL, which is an aerial reconnaissance and surveillance platform, can perform target pointing, lighting and ammunition direction with day/night target detection and identification by its EO/IR camera payload system.



## TARGET DRONES TURNA

TAI Turna is a turboprop-powered radio-controlled target drone introduced in 2001. Designed, developed and built by Turkish Aerospace Industries (TAI) and powered by an engine manufactured by Tusaş Engine Industries (TEI), the unmanned aerial vehicle (UAV) is in use by the Turkish Armed Forces in target tracking and gunnery firing exercises.

Turna is the Turkish word for species crane. TAI has some other UAV's named after birds.

The Research and Development Department of the Turkish Ministry of National Defence awarded a contract to the TAI in August 1995 for the development of a drone for use by Turkish Air Force and Army in target tracking and gunnery firing exercises. The initial version, named as Turna/S, was first launched in September 1996. Testing of the prototype completed in 1997. Following trials by Turkish Army and Navy ended in 1998.

TAI Turna is used for training with Rapier and Stinger surface-to-air missiles, as well as anti-aircraft guns from 7.62 mm to 76 mm caliber. Firing takes place at a towed sleeve or banner, or even directly at the drone.





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# AIR DEFENCE

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## AGRICULTURAL SPRAYING DRONE (A20)



## ALPAGU



## AMFIBEE-QUAD



### TARGET DRONES ŞİMŞEK

TAI Şimşek is a turbojet-powered radio-controlled high-speed target drone designed, developed and built by Turkish Aerospace Industries (TAI) between 2009-2012 for the needs of the Turkish Armed Forces.

The development of TAI Şimşek started in 2009, and its prototype was presented to public at the International Defence Industry Fair (IDEF '09) the same year.[1] The UAV made its maiden flight on August 4, 2012.

TAI Şimşek simulates enemy aircraft and missiles for air-to-air, surface-to-air, anti-aircraft gunnery and missile systems' tracking and firing trainings.[3] It looks like tactical air-launched decoys (TALD), which are used to confuse and saturate enemy air defense.

TAI intends to further develop the drone to convert into a cruise missile with "Human-in-the-Loop" (HITL) guidance capability for use against mobile or fixed soft targets.

In July 2020 TAI launched Şimşek from TAI Anka integrated arm and made history by launching the target drone from UAV for the first time.



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# AIR DEFENCE

TURKEY'S DEFENCE SHOPPING MAGAZINE

## ARI AMPHIBIOUS DRONE



## BAYRAKTAR MINI UAV



## ARMADA TECH UAVS



## BEE SPREYING



## AYBARS



## BEE-FW170







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## BITES HAWK EYE



## BLACK HORNET VRS 003



## BLACK HORNET VRS 001



## BORAN



## BLACK HORNET VRS 002



## BORAN (ATAK X8)







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**STM**  
TACTICAL UAV SYSTEMS  
**BOYGA**  
Micro UAV Platform

## DETONATOR QUALIFICATION TEST

**SAO**  
UAV (Unmanned Aero Vehicles)  
DETONATOR QUALIFICATION TEST

## BOZKUS

**BMS**  
DEFENCE TECHNOLOGIES  
UAV Solutions  
**BOZKUS**

## DJI PHANTOM 4 RTK

**GEOMATICS GROUP**  
UNMANNED AERIAL VEHICLE  
DJI Phantom 4 RTK



## CUSTOM UAV CBRN SYSTEMS

**CBRN INTERNATIONAL**  
Air Samplers and Collectors  
Custom UAV CBRN Systems

## DJI UAVS

**Helisis** **dji**  
Satış: +902122227221 Servis: +905333366505  
Mini UAVs  
DJI UAVs







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## ELIBRA MINI UAV

**ELIBRA GLOBAL**

Mini UAV

Brand Representation

ELIBRA Mini UAV

**AEROVIRONMENT**  
Proven, Effective, Reliable, Small Unmanned Aircraft Systems

## FLIR UAS NANO UAV - BLACK HORNET 3

**deka**  
Unique Solutions for Unique Needs

Unmanned Air Vehicles

FLIR UAS Nano UAV - Black Hornet 3

## ESEN MINI UAS

**ESEN**

Unmanned Aerial Vehicle

ESEN Mini UAS

## FLIR UAS NANO UAV BLACK HORNET 3

**deka**  
Unique Solutions for Unique Needs

Unmanned Air Vehicles

FLIR UAS Nano UAV Black Hornet 3

## EVTOL UNMANNED AERIAL VEHICLE ALESTA

**BNA**

UAV (Unmanned Aerial Vehicle)

eVTOL Unmanned Aerial Vehicle Alesta

**ALESTA**  
Conceptual Version

## FLYING UAV CBRN LABORATORY

**CBRN INTERNATIONAL**

INTEGRATED CBRN SYSTEMS

Flying UAV CBRN Laboratory





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## GEZGIN



## GOK ALP VTOL DRONE



## GEZGIN (QUAD X4)



## GOK CLASS, G-I RUAV



## GOK ALP QUADRATOR DRONE



## GOKTUG







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## HOYTEK ROVS

**HOYTEK**  
ROV (Remotely Operated Underwater Vehicle)  
HOYTEK ROV FAMILY  
HOYTEK ROVs

## KORGAN 10

**BMS**  
DEFENCE TECHNOLOGIES  
UAV Solutions  
KORGAN10



## IBAK UAV (UNMANNED AERO VEHICLES)

**IBAK**  
DEFENCE INDUSTRY  
UAV (Unmanned Aero Vehicles)  
IBAK  
DEFENCE INDUSTRY

## KORGAN5

**BMS**  
DEFENCE TECHNOLOGIES  
UAV Solutions  
KORGAN5



## KARGU

**STM**  
TACTICAL UAV SYSTEMS  
KARGU  
Micro UAV Platform

## LAP60 DRONE SYSTEM

**LAPIS**  
HAVACILIK  
Drones  
LAP60 DRONE SYSTEM



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## LAP60 DRONE SYSTEM



## RAVEN SP9



## MEGAPHONE INTEGRATED DRONE



## RED MINI DRONES



## QUADBEE 790-30X



## RED WIDE WING DRONES







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## SCRAB II TWIN-TURBINE TURBOPROP TARGET DRONE

**BSM** Innovative Technologies

TARGET DRONE

SCRAB II TWIN-TURBINE TURBOPROP TARGET DRONE




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**AAES**

Unmanned Aerial Vehicles



Crab (YenGeç)



Kolubri

## SCRAB III HIGH-PERFORMANCE TARGET DRONE

**BSM** Innovative Technologies

TARGET DRONE

SCRAB III HIGH-PERFORMANCE TARGET DRONE




## SUM8FD SURVEILLANCE UAVS

**KIRAC HTS**

Mini UAV

SUM8FD Surveillance UAVs



## SEARCH AND RESCUE X8-1400 CLG

**DASAL**

UAV

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## SWARM TECHNOLOGY (INTELLIGENCE SWARM SYSTEMS)

**SELVi TECHNOLOGY**

Artificial Intelligence

Swarm Intelligence Swarm Systems





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## SWARM TECHNOLOGY (TITRA UAV SWARM SYSTEM)

**TITRA**  
UAV Group Motion Swarm System  
TITRA UAV Swarm System

## TERRON CABLED DRONE

**OTONOM**  
TEKNOLOJİ  
DRONE  
TERRON CABLED DRONE

## SYNTHETIC APERTURE RADAR (SAR) SYSTEMS

**SPRA**  
Mini UAV  
Synthetic Aperture Radar (SAR) Systems  
SAR/GMTI Payload for Mini UAVs  
15 cm resolution  
Down to 5 kg  
Less than 80 W power dissipation

## TETHERED DRONE SYSTEM

**LAPIS**  
Drones  
TETHERED DRONE SYSTEM

## TARKOPTER

**z-system**  
Havacılık & Bilişim Sanayi  
AERO  
TARKOPTER

## TOGAN

**STM**  
TACTICAL UAV SYSTEMS  
TOGAN  
Micro UAV Platform





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## TOYGAR

**BMS**  
DEFENCE TECHNOLOGIES

UAV Solutions

TOYGAR

## UAV HBR30E

**z-system**  
Havacılık & Bilişim Sanayi

AERO

UAV

HBR30E



## TROGON DRONE SYSTEM

**LAPIS**  
HAVACILIK

Drones

TROGON DRONE SYSTEM

CR-01 TROGON

## UAV HBR30G

**z-system**  
Havacılık & Bilişim Sanayi

AERO

HBR30G



## UAV DESIGN AND PROTOTYPE MANUFACTURING

**NEWS ENGINEERING**

Design and Prototype Manufacturing

## UAV LAUNCHERS (SDT UAV LAUNCHER)

**SDT**  
UZAY & SAVUNMA TEKNOLOJİLERİ

UAV Launcher



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## UAV LAUNCHERS (UAV LAUNCHER 7KG)



## UAV LAUNCHERS (UAV NE 314)



## UAV LAUNCHERS (UAV LAUNCHER TARGET DRONE)



## UAVERA CAGATAY



## UAV LAUNCHERS (UAV LAUNCHER TITRA)



## UAVERA CENGAVER JET







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## UAVERA CENGAVER-1

**UAVERA**

UAV (Unmanned Aero Vehicle)

UAVERA CENGAVER-1

## VTOL V2500-E (BOZKUŞ)

**GEOMATICS GROUP**

UNMANNED AERIAL VEHICLE

VTOL V2500-E (BOZKUŞ)

## ULAK VTOL SYSTEM

**LAPIS**

Drones

ULAK VTOL SYSTEM

## VTOL V3400-H - GOKTUG VT

**GEOMATICS GROUP**

UNMANNED AERIAL VEHICLE

VTOL V3400-H - GÖKTUĞ VT

## VTOL A/C CONCEPT

**numaş**

UAV (Unmanned Aero Vehicle)

VTOL A/C concept

## X4-950 FDC

**DASAL**

UAV

X4-950 FDC



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**X4-950 WWD**



**X8-1580 FEM FIRE EXTINGUISHING MISSILE**



**X8-1400 FEC FIRE EXTINGUISHING CABLED**



**X8-3500 FFB FIRE FIGHTER BOMBER**



**X8-1580 AAS**



**ZYR ONE DRONES**







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# FIREARMS

TURKEY'S DEFENCE SHOPPING MAGAZINE

<p>Pistols</p> <p>Brand Representative</p> <p>HS Product Pistols</p>		<p>PISTOLS</p> <p>CUTAWAY TRAINING PISTOLS</p>	<p>PISTOLS</p> <p>K12 SPORT</p>	
<p>PISTOLS</p> <p>FX69</p>		<p>PISTOLS</p> <p>K11</p>	<p>PISTOLS</p>	

## Arming the Future: Turkey's Pistol Manufacturing and Defence Industry

Firearms pistols are small, handheld weapons that utilize a variety of ammunition to propel a projectile towards a target. They are typically used for self-defense, hunting, and recreational shooting. Pistols come in a variety of shapes, sizes, and types, including handguns, semi-automatic, and revolvers. Pistols are easy to use and relatively safe when used responsibly. They are an essential tool for people who want to protect themselves from potential danger or enjoy recreational shooting. With the proper training and safety precautions, pistols can be a great asset to any shooter.

<p>Pistols</p> <p>Automatic Pistols</p>		<p>PISTOLS</p> <p>K12 SPORT X</p>	<p>PISTOLS</p> <p>K2 45</p>	
<p>ATAK ARMS COMPANY</p> <p>PISTOLS</p> <p>918BP Gas &amp; Signal Blank Pistol</p>		<p>ATAK ARMS COMPANY</p> <p>PISTOLS</p> <p>2918BP Gas &amp; Signal Blank Pistol</p>	<p>PISTOLS</p> <p>ADAM 9</p>	<p>ADAM 9 Collections</p> <ul style="list-style-type: none"> <li>- Hot Forging Body</li> <li>- Hot Forging Slide</li> <li>- Hot or Cold Forging Barrel</li> <li>- Click Adjustable Sights (White Front and Trijicon Optics)</li> </ul>



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# FIREARMS

TURKEY'S DEFENCE SHOPPING MAGAZINE

## Pistol and Revolvers Manufacturing in Turkey

The future of pistol manufacturing in Turkey is bright. The country's commitment to developing its own defence industry has resulted in a competitive market for pistol production, with Turkish manufacturers offering high-quality products at competitive prices. Turkey is also well-placed to benefit from the increasing demand for pistols in the international market, with its strategic location between Europe and the Middle East, Africa, America and making it an ideal trading partner for customers in all regions. As such, the Turkish pistol manufacturing industry is set to continue to grow in the coming years



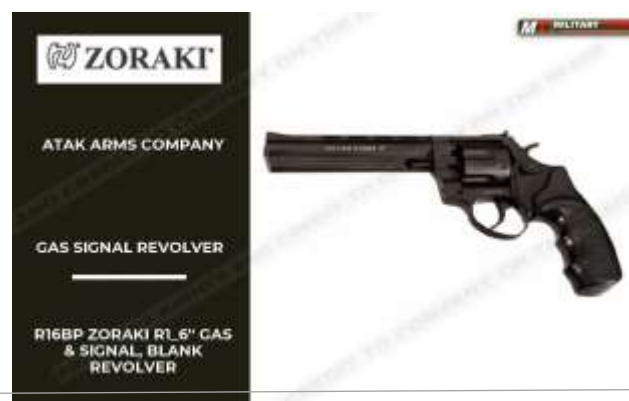
## Pistols

There are several types of firearms pistols, each with its own advantages and disadvantages. Handguns are the most common type of pistol, and they are typically used for self-defense and recreational shooting. Semi-automatic pistols are designed to fire multiple rounds quickly and accurately, making them ideal for target shooting and home defense.



## Revolvers

Revolvers are a type of handgun that uses a rotating cylinder to hold and fire multiple rounds. They are typically used for hunting and self-defense, and they are generally easier to use than semi-automatic pistols. There are also a variety of specialty pistols, such as derringers and pepperbox pistols, that are used for unique purposes.







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### Safety Considerations for Firearms Pistols

Safety is paramount when using firearms pistols. It is important to always keep the pistol pointed in a safe direction and to keep your finger off the trigger until you are ready to shoot. Always wear eye and ear protection, and be sure to follow all local laws and regulations. It is also important to properly maintain your firearm. Clean and lubricate your pistol regularly to ensure it is in good working order. Store your pistol in a safe, secure location and make sure it is unloaded when not in use. Proper safety and maintenance will help ensure your pistol is always ready when you need it.



### Accessories for Firearms Pistols

There are a variety of accessories available for firearms pistols, including holsters, sights, and lights. Holsters allow you to securely carry your pistol on your person, while sights and lights help you aim more accurately. There are also a variety of cleaning and maintenance accessories, such as cleaning kits, lubricants, and cleaning patches.





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When choosing accessories for your pistol, it is important to choose ones that are compatible with your pistol and your intended use. Always read the manufacturer's instructions to ensure you are using the proper accessories for your pistol. With the proper accessories, you can ensure your pistol is always ready when you need it.



## What About Revolver and Other Types?



Revolvers are a type of handgun that uses a rotating cylinder to hold and fire multiple rounds.

## The Impact of Pistol Manufacturing in Turkey

The growth of the Turkish pistol manufacturing industry has had a positive impact on the country's economy. The industry has created jobs and generated revenue for the country, while also helping to develop its defence industry. The industry has also had a positive impact on the international market, with Turkish pistols becoming increasingly popular among gun enthusiasts and law enforcement personnel. This has resulted in increased demand for Turkish products, which in turn has led to increased trade between Turkey and its international partners.

Despite the growth of the Turkish pistol manufacturing industry, there are still a huge gap that the some of the other countries faces. The industry is still relatively small compared to other countries, and there is still a need for increased investment in research and development in order to remain competitive.

The Defence Industry also invests heavily on competition especially for R&D activities and receiving orders from other countries, particularly in the international market. As such, it is important for Turkish manufacturers to remain competitive in terms of both quality and price in order to remain successful in the global market.





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# FIREARMS

TURKEY'S DEFENCE SHOPPING MAGAZINE

## The Shotgun Show: A Comprehensive Look at Types of Shotguns in Turkey

### Pump-Action Shotguns

Pump-action shotguns are one of the most popular types of shotguns. They are used for hunting, competition shooting, and home defense. These shotguns use a pump-action mechanism to load and fire shells. The user manually pumps the action to load a shell into the chamber and then fires the gun.



Pump-action shotguns are reliable and easy to use. They are available in a variety of sizes and gauges, and can be used with a variety of ammunition types. They are also relatively inexpensive, making them a popular choice for shooters of all levels.



### Break-Action Shotguns

Break-action shotguns are one of the oldest types of shotguns. They are single-barrel guns that are manually opened and closed to load and unload shells. These shotguns are popular for hunting and target shooting, and are available in a variety of gauges and barrel lengths.



Break-action shotguns are reliable and easy to use. They are lightweight and can be used with a variety of ammunition types. They are also relatively inexpensive, making them a popular choice for shooters of all levels.



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# FIREARMS

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## Semi-Automatic Shotguns are Preferred on Multipurpose in Service

Semi-automatic shotguns are one of the most popular types of shotguns, used for hunting, competition shooting, and home defense. These shotguns use a semi-automatic action to load and fire shells. The gun automatically ejects the spent shell and loads the next shell into the chamber after each shot.



Semi-automatic shotguns are reliable and easy to use. They are available in a variety of sizes and gauges, and can be used with a variety of ammunition types. They are also relatively inexpensive, making them a popular choice for shooters of all levels.



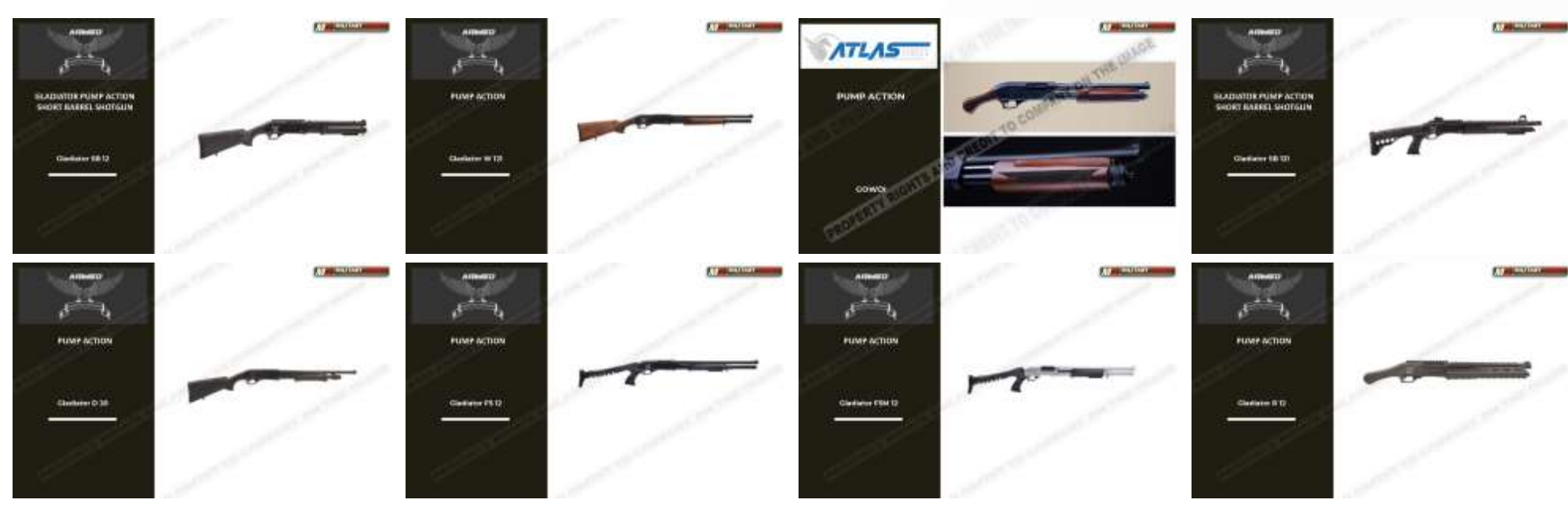




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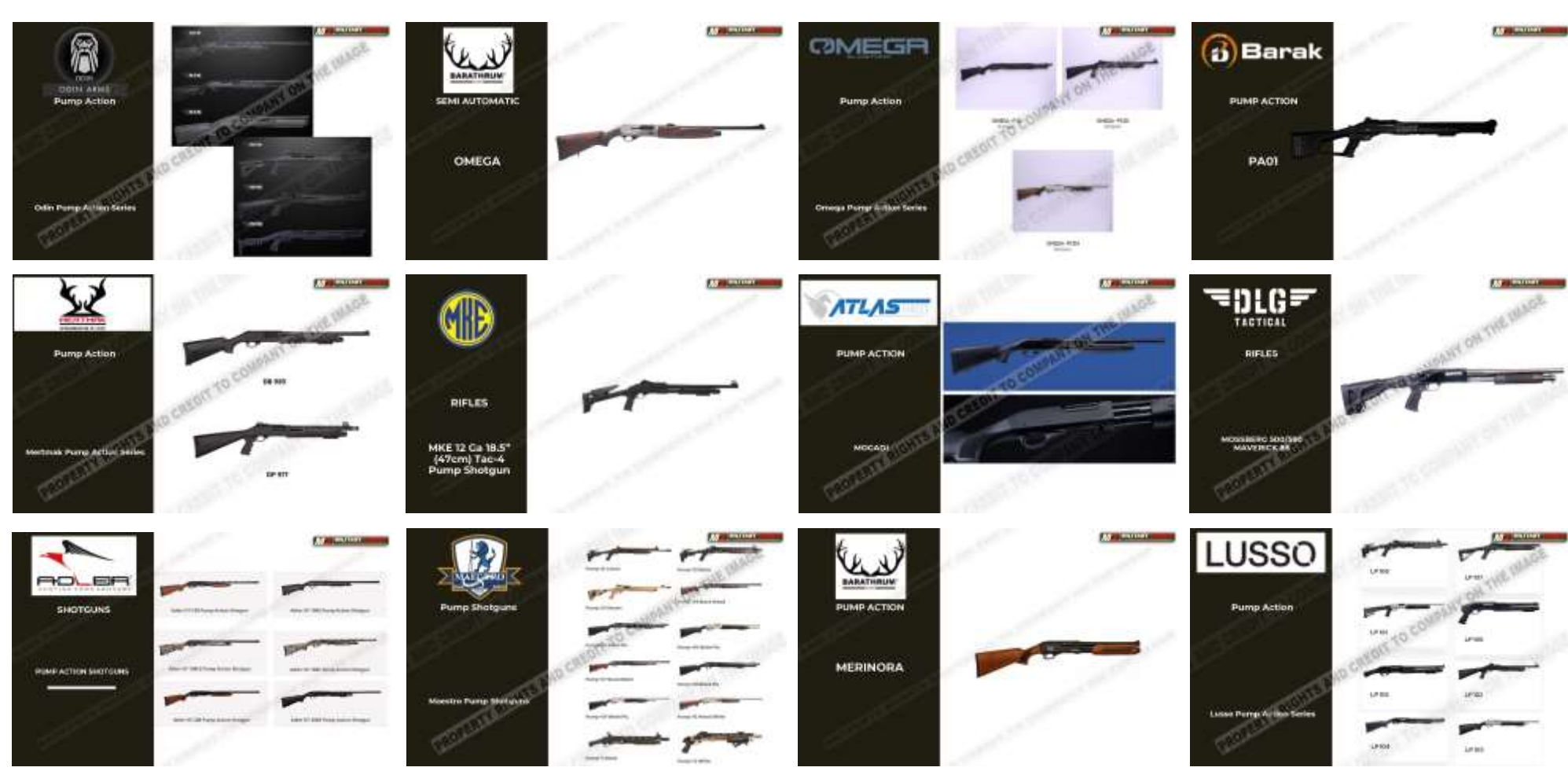
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## The Benefits of Turkish Shotguns

Turkish shotguns are renowned for their quality and craftsmanship. They are made with precision and attention to detail, ensuring that each gun is reliable and durable. Turkish shotguns are also known for their innovative designs, incorporating modern technology into their weapons. This makes them both reliable and easy to use. In addition,

Turkish shotguns are often more affordable than their counterparts from other countries. This makes them a great option for those looking for a quality, reliable firearm without breaking the bank. As a result, Turkish shotguns have become popular with hunters and shooters around the world.





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## The Future of Shotgun Manufacturing in Turkey

Turkey is a major player in the global shotgun market, and this is likely to continue in the future. The country produces a wide variety of shotguns, from hunting and sporting guns to military and police weapons.

As a result, Turkish firearms are in demand around the world, and the country is well-positioned to continue to be a major player in the global shotgun market. In addition, Turkey is investing in new technologies and designs to ensure that its shotguns remain competitive in the global market.

This includes the development of new materials and manufacturing techniques, as well as the use of advanced computer-aided design (CAD) software. As a result, Turkish gun manufacturers are well-positioned to remain at the forefront of the global shotgun market.







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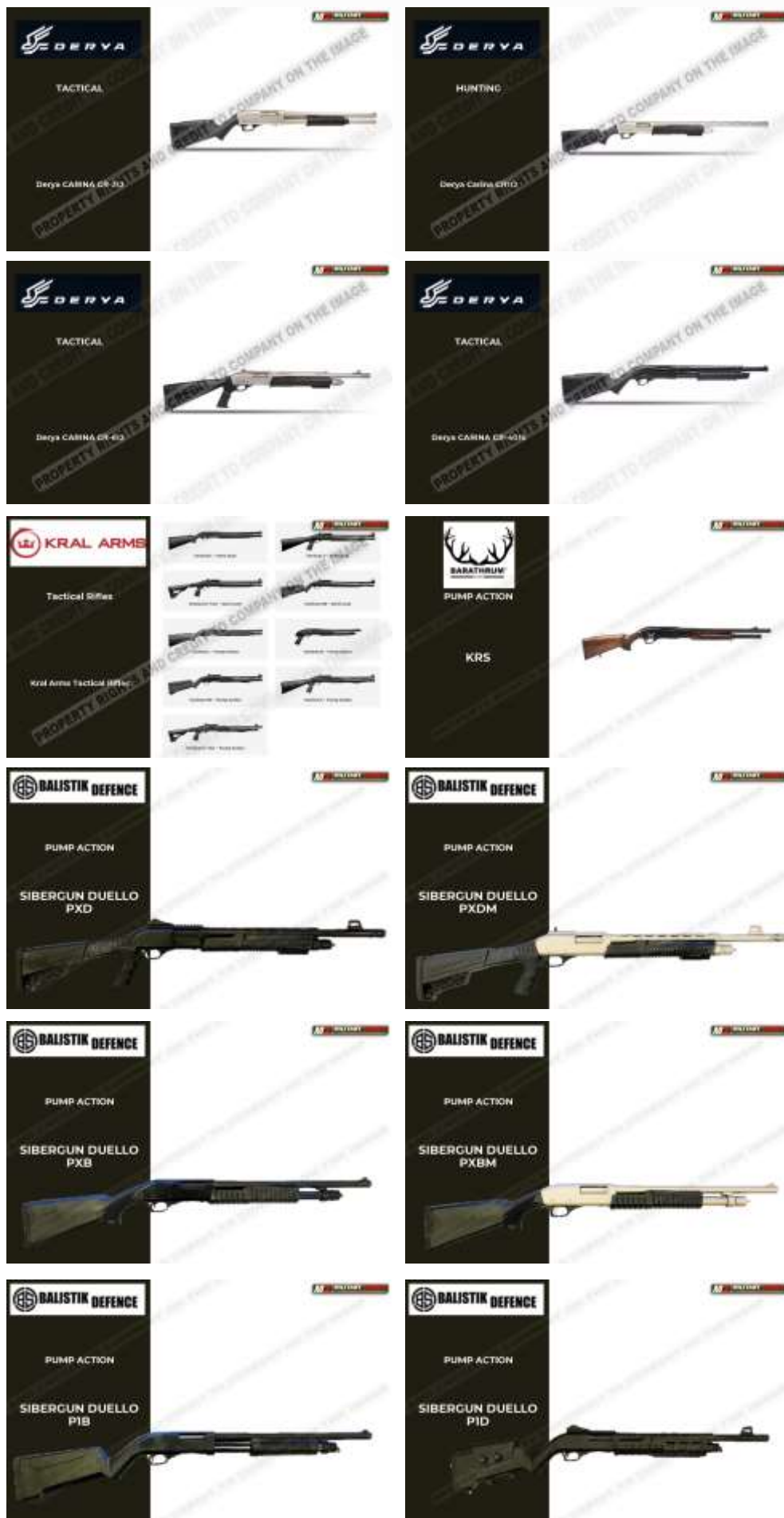
## The Impact of Shotgun Manufacturing in Turkey

Turkey's success in the global shotgun market has had a positive impact on the country's economy.

The industry has created jobs and generated revenue, helping to boost the country's economy. In addition, the industry has helped to promote Turkey's image as a modern, technologically advanced nation.

This has helped to attract foreign investment and create new opportunities for the country. Turkey's success in the global shotgun market has also had a positive impact on its citizens.

The industry has created jobs and generated revenue, helping to improve the lives of many people. In addition, the industry has helped to promote Turkey's image as a modern, technologically advanced nation. This has helped to create a more positive image of the country, both domestically and internationally.





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# FIREARMS

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## Unlocking the Mysteries of Firearms Mechanisms

Firearms mechanisms are the components of a firearm that enable it to discharge rounds. They are responsible for the loading, firing, and unloading of the firearm's ammunition. Understanding the working of these mechanisms is essential for safe and responsible use of firearms.

The most common type of firearms mechanism is the semi-automatic, which uses a recoil-operated system to cycle the action. This system is composed of several parts, including a hammer, trigger, and magazine.

**Ottomanguns**

RICEL PUMP ACTION

PAZIO NEXT C3

**SARATHRUM**

SEMI AUTOMATIC

RANGER

Pump and Action Shotguns

**HUNT GROUP**

Pump Action

Hard Group Pump Action

**ARMSTAR**

OVER UNDER

PP 903 ST PUMP ACTION

PP 903-ST Pump Action

**ARMSAN**

SHOTGUN

RS-A3 CaraboteSana

**ATLAS**

PUMP ACTION

RAPIDOL

**SULUN ARMS**

SHOTGUNS

PUMP ACTION

**GLOBAL**

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SIBERGUN DUELLO CSSPH

**ARMSAN**

SHOTGUN

RS-A3 CaraboteSana

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RICEL PUMP ACTION

BOBOMED PAZIO PINK VISTA

**RETAY**

Pump Action Shotguns

Relay Pump Action Shotguns

**AYKAL KALIPÇILIK**

WEAPON COMPONENTS

PUMP ACTION COMPONENTS

**aksa**

PUMP ACTION

**ARTTECH**

PUMP ACTION

PRIMA SP

**DALISTIK DEFENCE**

PUMP ACTION

SIBERGUN DUELLO CSSPM

**DALISTIK DEFENCE**

PUMP ACTION

SIBERGUN DUELLO 12GA

**ARMSAN**

SHOTGUN

RS-A3

**Ottomanguns**

RICEL PUMP ACTION

PAZIO5

**ATLAS**

BULLPUP

SAFELL

**DILBILI**

PUMP ACTION

PUMP ACTION

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PUMP ACTION

PRIMA SP

PRIMA XP SYNTHETIC

PRIMA XP SNOW

PRIMA XP BLAZE

PRIMA XP FOREST





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# FIREARMS

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## A Deeper Look: The Main Firearm Components & Mechanisms, which type of firearms to purchase for a comprehensive lifetime service?

A firearm is a weapon that utilizes an explosive force to propel a projectile. Firearms are used for hunting, self-defense, and in military and law enforcement applications.

The components of a firearm include the barrel, action, stock, and sights. The barrel is the tube that the bullet travels through and the action is the mechanism used to load, fire, and eject the bullet.

## Sights

Sights are the mechanisms used to aim a firearm. They are usually located on the top of the firearm and can be either open or adjustable. Open sights are simpler and less expensive, while adjustable sights are more accurate.

The sights are also used to adjust the point of impact of the bullet. This is done by adjusting the elevation and windage of the sights. This is important for long-range shooting and accuracy.



## Barrel

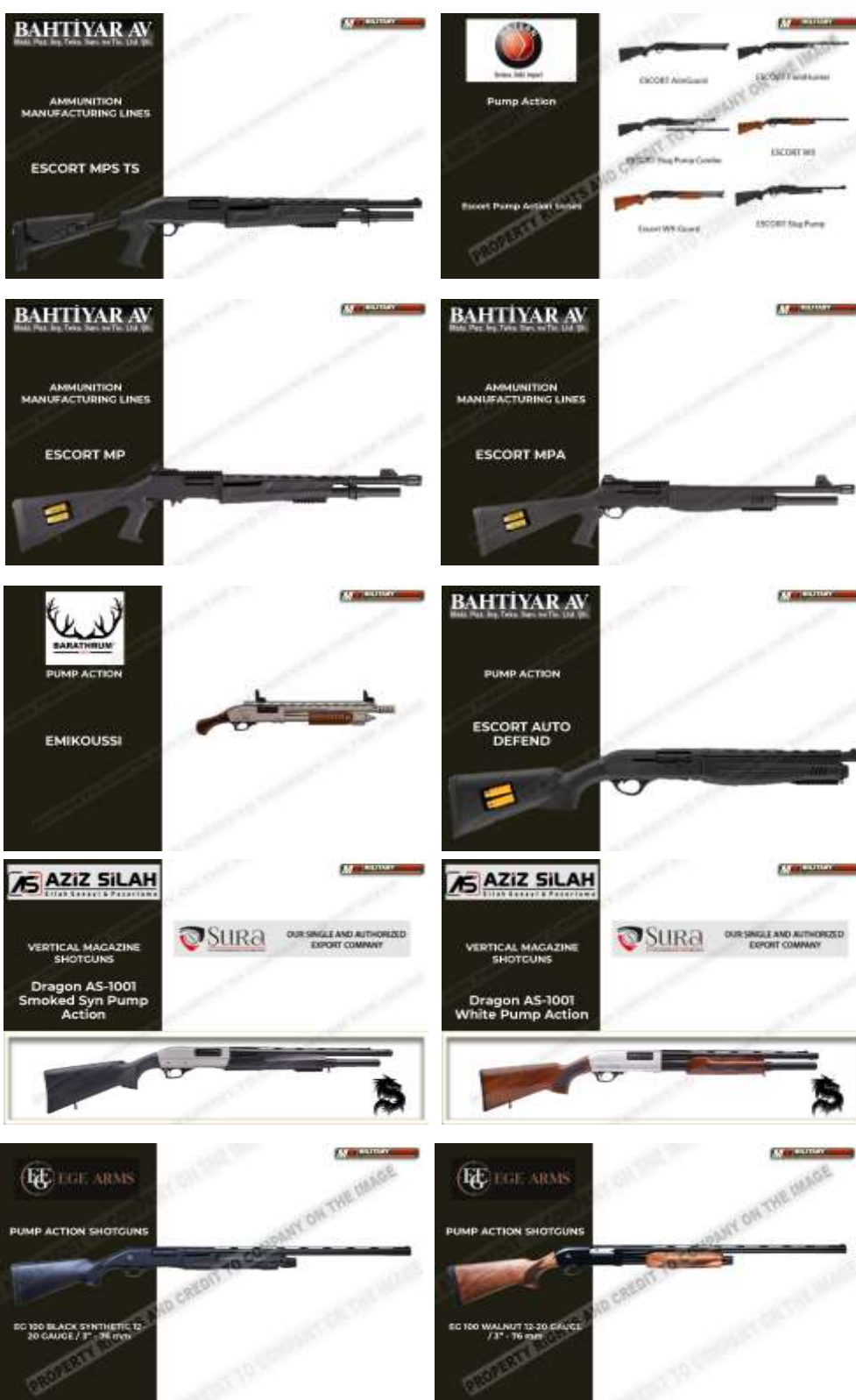
The barrel of a firearm is the tube that the bullet travels through. It is usually made of steel and is the most important component of the firearm. The barrel length, rifling, and twist rate all affect the accuracy and performance of the firearm.

The barrel is connected to the action, which is the mechanism used to load, fire, and eject the bullet. The action is usually made of metal and is the most complex part of the firearm.

## Magazine

The magazine of a firearm is the part that holds the ammunition. It is usually made of metal and is inserted into the firearm to allow for rapid reloading. The capacity of the magazine can vary depending on the type of firearm.

The magazine is also used to store the ammunition in a safe and secure manner. It is important to make sure that the magazine is properly inserted and locked into place before firing the firearm.





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# FIREARMS

TURKEY'S DEFENCE SHOPPING MAGAZINE

## The Rising Popularity of Shotgun Series: Pump action Rifles

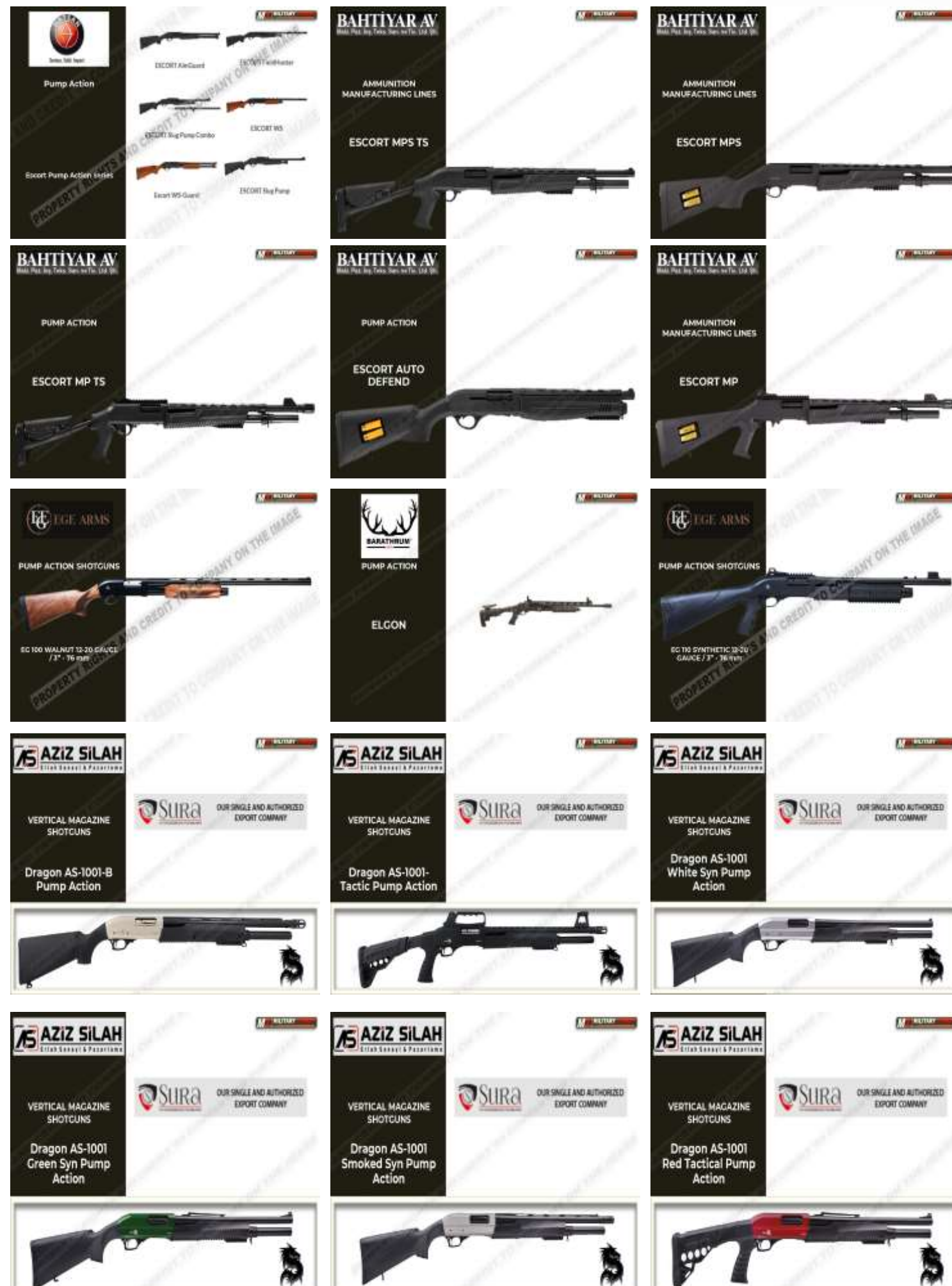
Pump action or slide action is a repeating firearm action that is operated manually by moving a sliding handguard on the gun's forestock.

When shooting, the sliding forend is pulled rearward to eject any expended cartridge and typically to cock the hammer/striker, and then pushed forward to load (chamber) a new cartridge into the chamber.

Most pump-action firearms use an integral tubular magazine, although some do use detachable box magazines. Pump-action is typically associated with shotguns, although it has been used in rifles and other firearms as well.

Because the forend is manipulated usually with the support hand, a pump-action gun is much faster than a bolt-action and somewhat faster than a lever-action, as it does not require the trigger hand to be removed from the trigger while reloading.

Also because the action is cycled in a linear fashion, it creates less torque that can tilt and throw the gun off aim when repeat-firing rapidly.



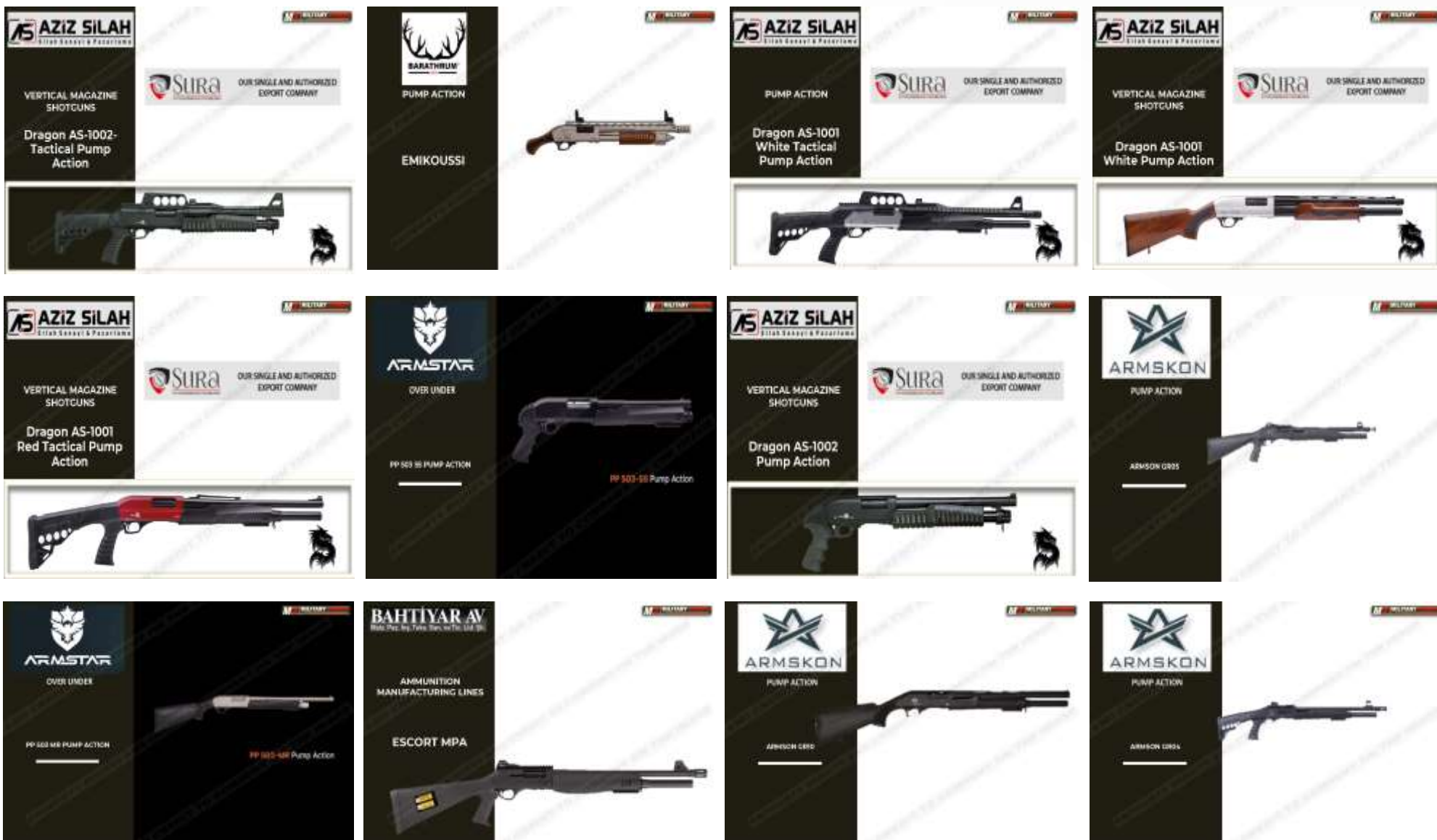




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# FIREARMS

TURKEY'S DEFENCE SHOPPING MAGAZINE



## THE QUESTION IS: SEMI-AUTOMATIC VS AUTOMATIC?

There are many different types of guns and each variety is different. One factor to be aware of is the action mechanism, which is how the weapon reloads after firing. The mechanism that is most common for modern firearms is semi-automatic. Although this may be compared to automatic guns, they are two different types of mechanisms and work differently.

A pump-action firearm is typically fed from a tubular magazine underneath the barrel, which also serves as a guide to the movable forend. The rounds are fed in one by one through a port in the receiver, where they are pushed forward. A latch at the rear of the magazine holds the rounds in place in the magazine until they are needed.

If it is desired to load the gun fully, a round may be loaded through the ejection port directly into the chamber, or cycled from the magazine, which is then topped off with another round. Pump shotguns with detachable box magazines or even drums exist, and may or may not allow the magazine to be inserted without stripping the top round.





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# FIREARMS

TURKEY'S DEFENCE SHOPPING MAGAZINE

## Over-and-Under Shotguns

Over-and-under shotguns are one of the most popular types of shotguns. They are used for hunting, competition shooting, and home defense. These shotguns have usually two barrels some of them are one and even triple barrel sections are also available in the market which are sometimes stacked one above the other. The user can choose which barrel to fire by using a selector switch. Over-and-under shotguns are reliable and easy to use. They are available in a variety of sizes and gauges, and can be used with a variety of ammunition types. They are also relatively expensive, making them a popular choice for experienced shooters. **Over-and-Under Shotguns**

Over-and-under shotguns are one of the most popular types of shotguns. They are used for hunting and preferred for home defense activities in widely used for close action strategies. These shotguns have two barrels that are stacked one above the other.

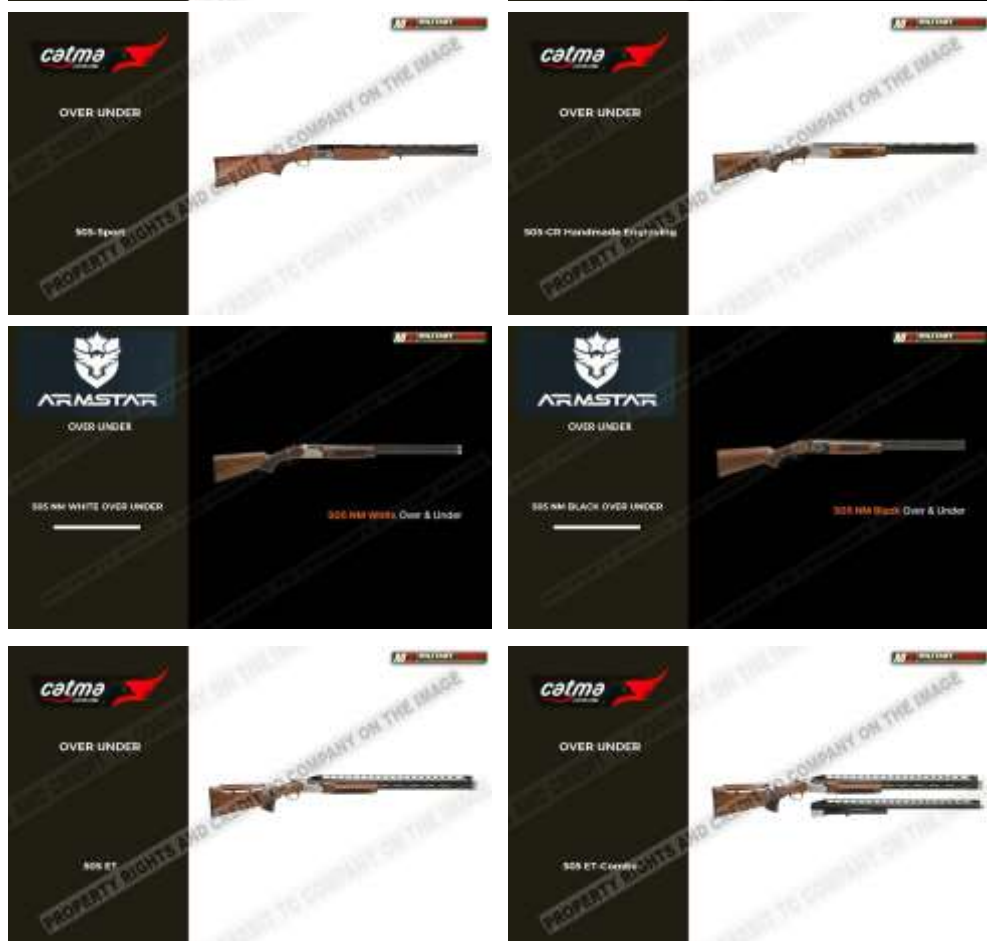


## HOW SEMI-AUTOMATIC GUNS WORK?

A firearm is semi-automatic if a bullet automatically reloads and if the gun only fires once per trigger pull. There are two main ways a gun can reload automatically. The first is by using the force of the recoil. The “blowback” sends the barrel back rapidly, which ejects the spent cartridge and loads a new one. This mechanism is most often used for smaller calibers and is common for pistols, although variations such as delayed blowback can be used for more high-powered firearms.

A gas operation mechanism uses a portion of the gases that the gun generates while firing to cycle a new cartridge into the chamber. A well-known example of this is the AR-15 model, which uses gas impingement.

After firing, the gases flow through a tube into a gas block, which then transfers the gas to a bolt key in order to cycle the action. Other types of gas operation include long-stroke piston and short-stroke piston



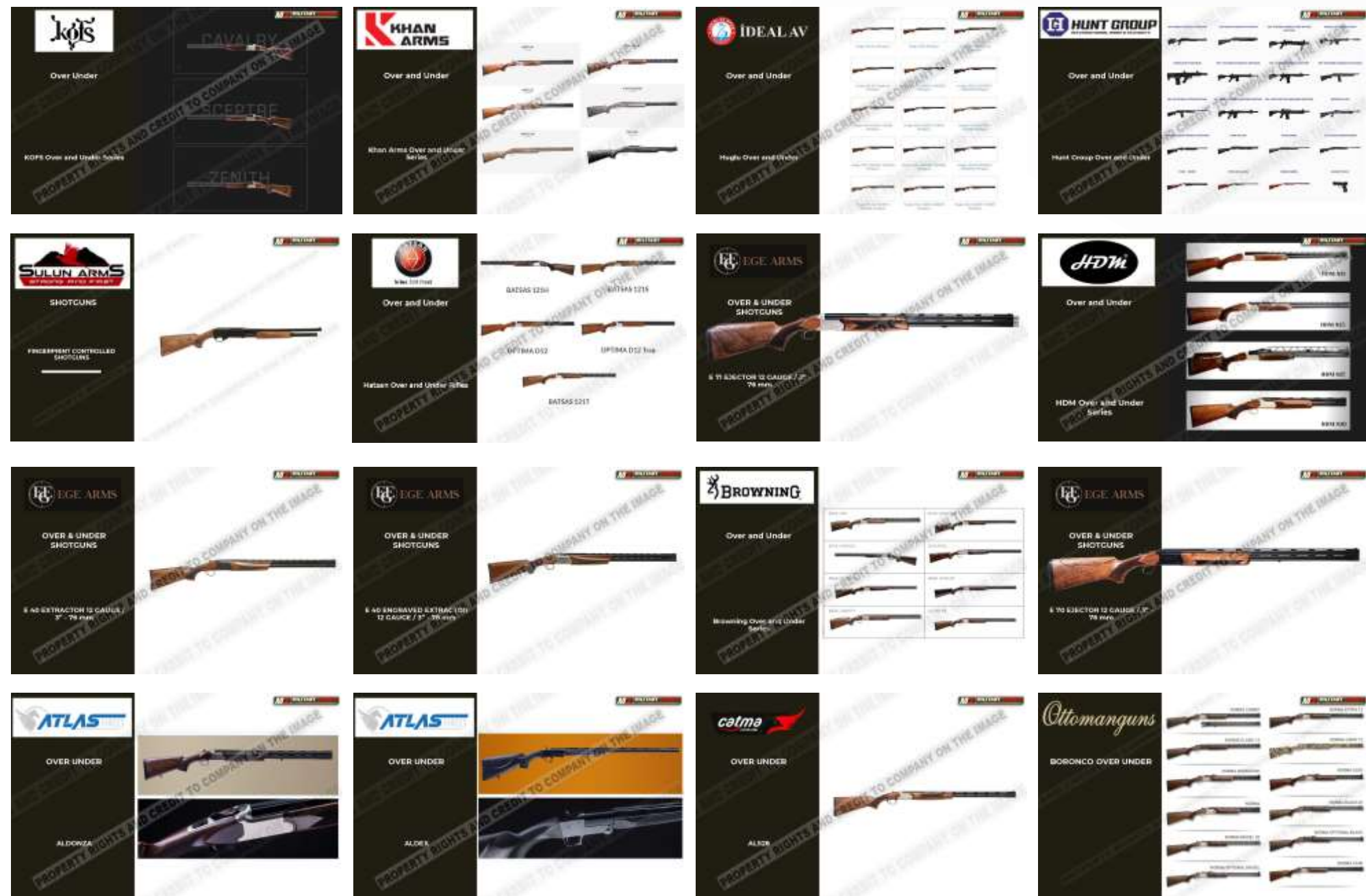




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# FIREARMS

TURKEY'S DEFENCE SHOPPING MAGAZINE



## A Brief History of Shotgun Manufacturing in Turkey

Turkey has a long history of producing high-quality shotguns. The country has been producing firearms since the mid-1800s, when it began producing shotguns for the Ottoman Empire. Today, Turkish gun manufacturers are renowned for their craftsmanship and attention to detail, producing shotguns of exceptional quality. They are also known for their innovative designs, incorporating modern technology into their weapons.

Turkey has a long history of producing high-quality shotguns. The country has been producing firearms since the mid-1800s, when it began producing shotguns for the Ottoman Empire. Today, Turkish gun manufacturers are renowned for their craftsmanship and attention to detail, producing shotguns of exceptional quality. They are also known for their innovative designs, incorporating modern technology into their weapons.

In recent years, Turkey has become a major player in the global shotgun market. The country produces a wide variety of shotguns, from hunting and sporting guns to military and police weapons. Turkish gun manufacturers have earned a reputation for producing reliable, well-crafted firearms that are both affordable and durable. As a result, Turkish shotguns are popular with hunters and shooters around the world.



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<p><b>LUSSO</b></p> <p>Semi Automatic</p> <p>Lusso Pump Action Series</p>		<p><b>catma</b></p> <p>OVER UNDER</p> <p>505 ESD</p>		<p><b>ARMSTAR</b></p> <p>OVER UNDER</p> <p>505 ESD Over &amp; Under</p>		<p><b>catma</b></p> <p>OVER UNDER</p> <p>AL 505-AM</p>	
<p><b>ATLAS</b></p> <p>MWOMD</p>		<p><b>DERYA</b></p> <p>HUNTING</p> <p>Derya Carina USB 8TC 307</p>		<p><b>BALISTIK DEFENCE</b></p> <p>PUMP ACTION</p> <p>SIBERCUN DUELLO CSSPD</p>		<p><b>catma</b></p> <p>OVER UNDER</p> <p>505 ED</p>	
<p><b>DERYA</b></p> <p>TACTICAL</p> <p>Derya CARINA CR 7C</p>		<p><b>DERYA</b></p> <p>TACTICAL</p> <p>Derya CARINA CR 7C</p>		<p><b>DERYA</b></p> <p>TACTICAL</p> <p>Derya CARINA CR 7C</p>		<p><b>LANDOOR ARMS</b></p> <p>Pump Action</p> <p>Landoor Pump Action Series</p>	
<p><b>DERYA</b></p> <p>HUNTING</p> <p>Derya CARINA CR20</p>		<p><b>DERYA</b></p> <p>TACTICAL</p> <p>Derya CARINA CR 10</p>		<p><b>DERYA</b></p> <p>HUNTING</p> <p>Derya Carina USB 8TC 3D</p>		<p><b>DERYA</b></p> <p>TACTICAL</p> <p>Derya CARINA CR 10</p>	
<p><b>eternal</b></p> <p>Pump Action Shotguns</p> <p>Oldbest Series</p>		<p><b>SARATHRUM</b></p> <p>PUMP ACTION</p> <p>NIMBA 5</p>		<p><b>DERYA</b></p> <p>TACTICAL</p> <p>Derya CARINA CR 10</p>		<p><b>DERYA</b></p> <p>HUNTING</p> <p>Derya CARINA CR20</p>	
<p><b>IMTSILAH</b></p> <p>Rifle Manufacturing</p> <p>MT Series</p>		<p><b>PUMP ACTION SHOTGUNS</b></p> <p>CF95</p>		<p><b>ARMED</b></p> <p>PUMP ACTION</p> <p>Galleaner D 120</p>		<p><b>ARMED</b></p> <p>PUMP ACTION</p> <p>Galleaner D 120</p>	





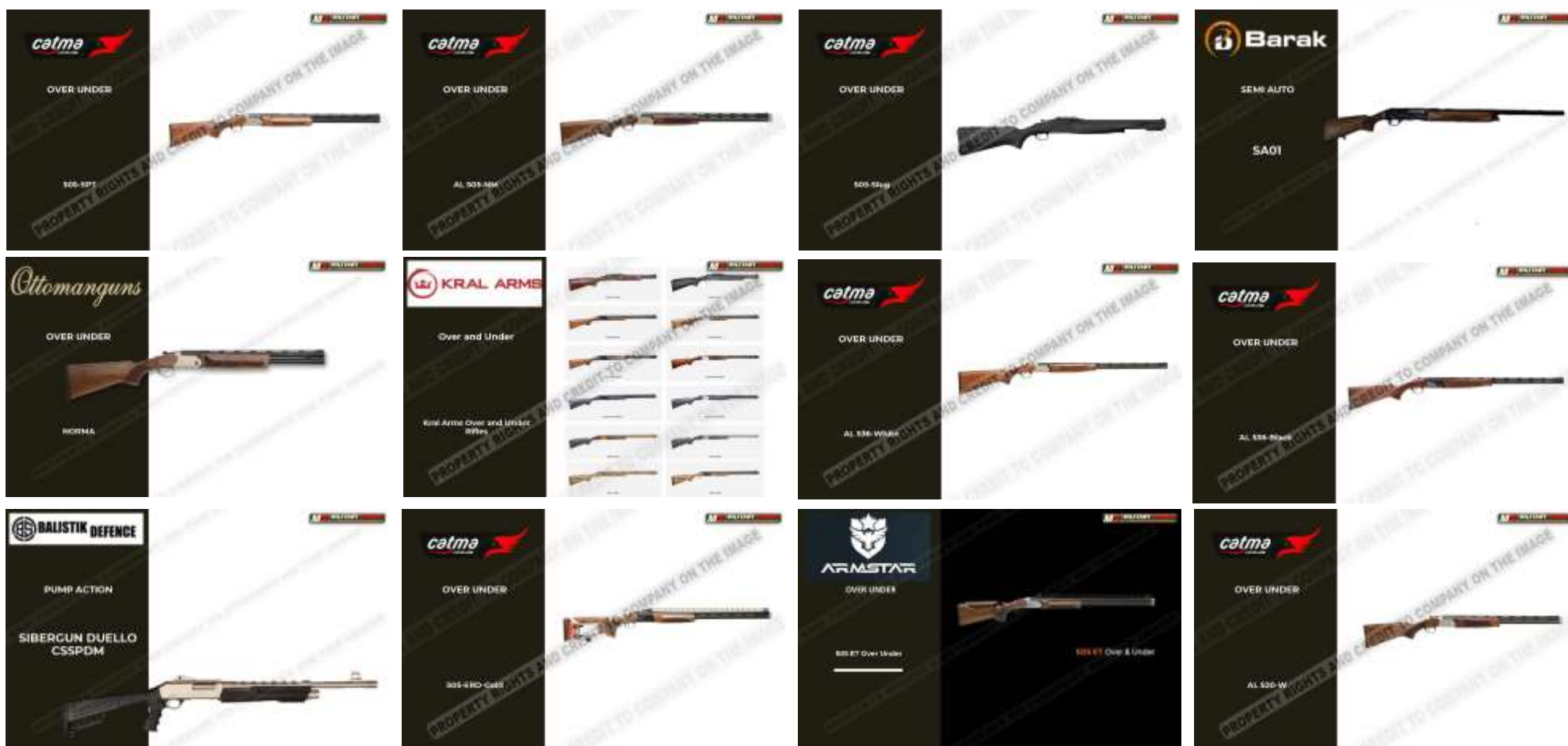
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## SEMI-AUTOMATIC VS AUTOMATIC

Semi-automatics and automatics both automatically reload after firing. However, they are not the same thing. The difference is a semi-auto gun will fire only once for each pull of the trigger. A fully-automatic gun will continue to fire as long as the trigger is held. Semi-automatic firearms are fairly common. Fully-automatic machine guns, on the other hand, are more difficult to obtain. These are usually collector's pieces and there are many regulations for owning one.



## Lever-Action Shotguns

Lever-action shotguns are one of the oldest types of shotguns. They are manually operated guns that use a lever to load and unload shells. These shotguns are popular for hunting and target shooting and are available in a variety of gauges and barrel lengths.

Lever-action is usually associated with rifles, there are some lever-action shotguns in production today that are mainly used for hunting and sport shooting, probably not going to be the most popular guns comparably to other firearms even popularity has its own roots from the firearms history.

Lever-action shotguns are reliable and easy to use. They are lightweight and can be used with a variety of ammunition types.

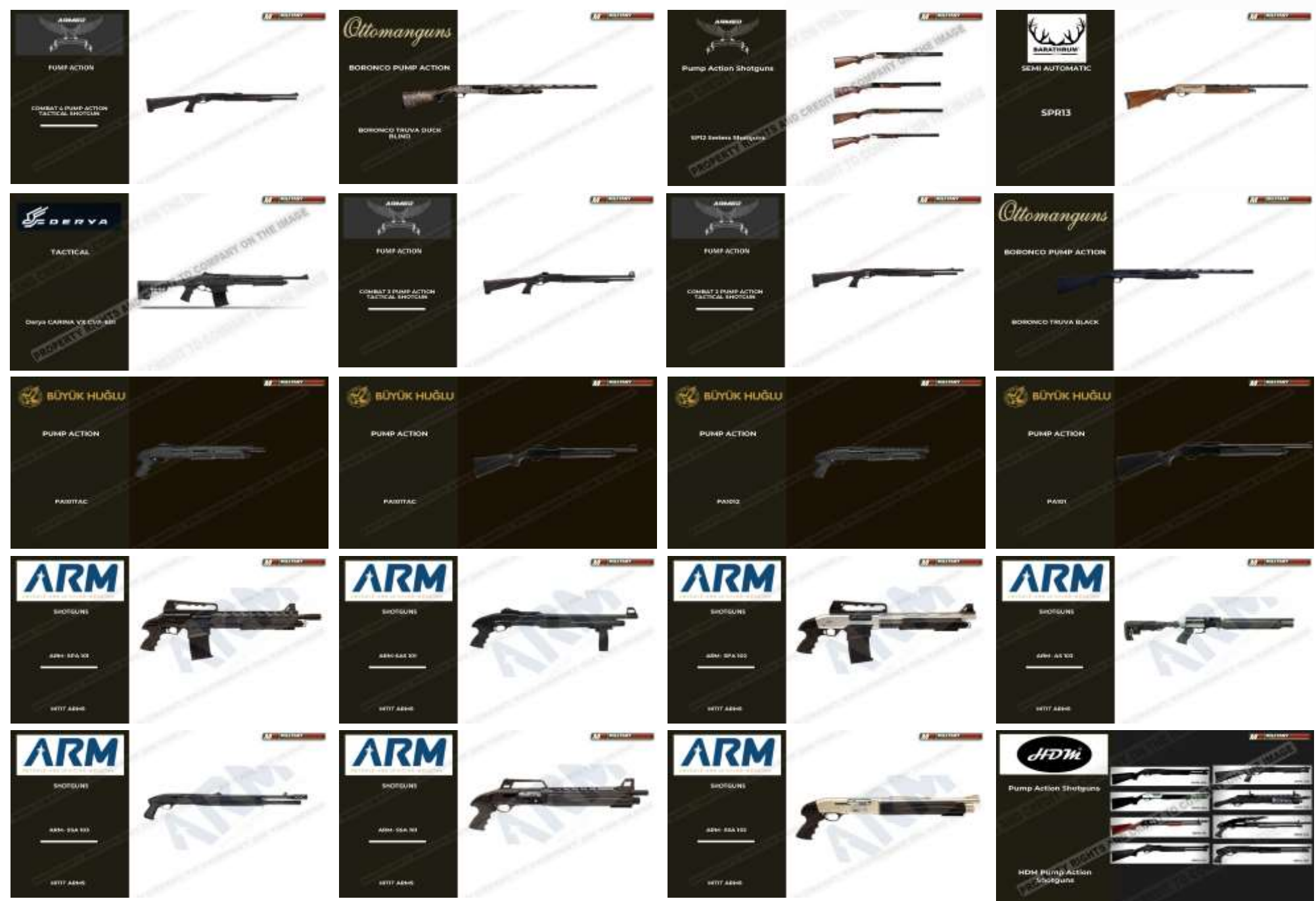




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## WHAT ABOUT LIMITING THE OPTIONS? :Other Types of Mechanisms

Some guns are neither semi-automatic nor automatic. For example, revolvers rotate to line each cartridge up with the chamber. The rotation of the cylinder and the firing of the weapon are two separate processes, even though double-action revolvers accomplish both during the trigger pull, so these guns are not semi-automatic. Most shotguns are also not semi-automatic and use a pump-action mechanism for firing. However, some modern shotguns are semi-auto.







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## The Magazine-Fed Revolution

Magazine fed firearms are a type of firearm that uses a magazine to store and feed rounds of ammunition into the chamber. This type of firearm is used in both military and civilian settings, and is a popular choice for self-defense and hunting.

The magazine is typically located below the receiver, and is used to store multiple rounds of ammunition. This allows the user to quickly reload the firearm, making it a great choice for those who need quick reloading in a combat or hunting environment.





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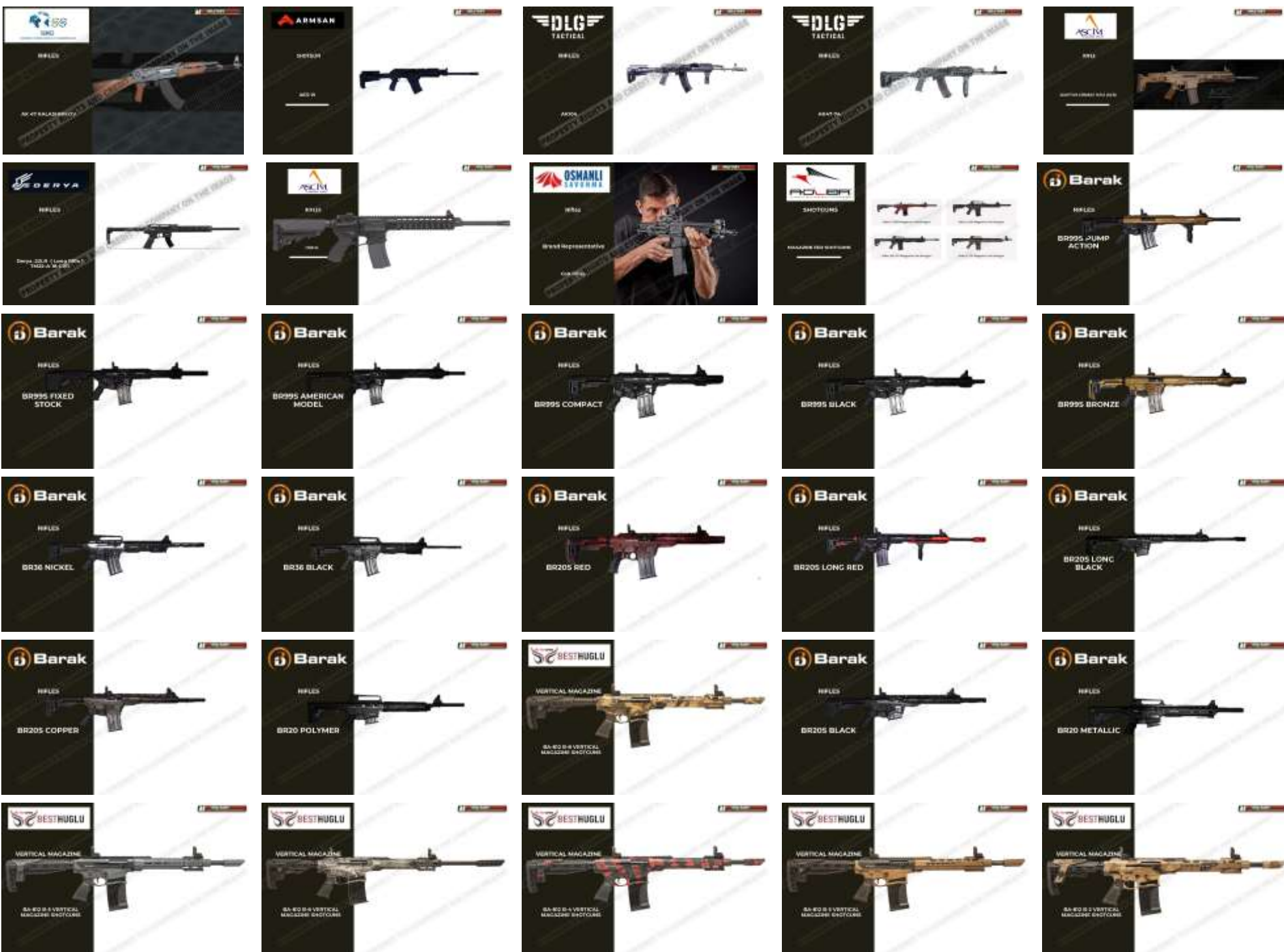
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## Advantages of Magazine Fed Firearms

The main advantage of magazine fed firearms is the ability to quickly reload the firearm. With the magazine loaded, the user can quickly reload the firearm without having to manually load each round. This allows the user to keep firing without interruption. Another advantage of magazine fed firearms is their versatility. The user can choose from a variety of magazines, each with different capacities and types of ammunition. This allows the user to customize their firearm to fit their needs.







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## Types of Magazine Fed Firearms

There are several types of magazine fed firearms, including handguns, rifles, and shotguns. Handguns typically use detachable box magazines, while rifles and shotguns typically use detachable box or tube magazines. The type of magazine used in a magazine fed firearm will depend on the type of ammunition being used. Different types of ammunition will require different types of magazines, so it is important to research the type of ammunition you plan to use before purchasing a magazine fed firearm.





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### Tactical Rifles

### Escort Tactical Series





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 MAGAZINE FED MPT-01	 MAGAZINE FED MPT-01	 MAGAZINE FED MPT-01	 Magazine Fed MCF 8	 MAGAZINE FED MPT-01
 Magazine Fed Pardus Magazine Fed	 RIFLES MPT-01	 RIFLES MPT-01	 RIFLES REACTOR 4V2	 RIFLES MPT-01
 SUBMACHINE GUNS MPT-34 SH	 WEAPONS MPT-65K (5.56mm x 45) INFANTRY RIFLE	 WEAPONS MPT-76MH (7.62mm x 31) INFANTRY RIFLE	 FIREARMS MPT763C National Infantry Rifle	 Infantry Rifle MPT-34
 MAGAZINE FED MPT-01	 MAGAZINE FED MPT-01	 STRAIGHT RULL MPT-01	 STRAIGHT RULL MPT-01	 STRAIGHT RULL MPT-01
 Shotgun Hunt Group Shotgun	 MAGAZINE FED MPT-01	 RIFLES ARM SAR 93	 RIFLES REACTOR 4V2	 RIFLES ARM SAR 93
 RIFLES MPT-01	 VERTICAL MAGAZINE RIFLES MPT-01	 OVER UNDER MPT-01	 OVER UNDER MPT-01	 OVER UNDER MPT-01
 WEAPONS KAAN-717 7.62 mm x 31 NATO CARBINE RIFLE	 FIREARMS KCR739	 FIREARMS KCR739	 FIREARMS KCR762	 FIREARMS KCR556
 Magazine Fed MCF GR	 RIFLES MKE T-43 (5.56mm x 45 NATO) SEMI-AUTOMATIC PRECISION RIFLE	 RIFLES MPT-01	 RIFLES MPT-01	 WEAPONS MOT-319 9 mm x 19 INFANTRY SUBMACHINE GUN





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A grid of 48 product cards showcasing various firearms from different manufacturers. Each card includes a logo, a title, and images of the weapon.

- SULUN ARMS:** SHOTGUNS, MAGAZINE FED
- AKSA:** MAGAZINE FED
- HUGLU:** MAGAZINE FED
- MBC:** WEAPONS, MPT-76 INFANTRY RIFLE
- OSMANLI SAVUNMA:** Grand Representative, Kaliber 6,5 mm
- OSMANLI SAVUNMA:** WEAPONS, MPT-43 9 mm x 19 Submachine Gun
- OSMANLI SAVUNMA:** WEAPONS, MPT-43 9 mm x 19 Submachine Gun
- OSMANLI SAVUNMA:** WEAPONS, MPT-43 9 mm x 19 Submachine Gun
- ÖZSAN:** Magazine Fed
- NIKSAN:** Magazine Fed
- OMEGA:** Magazine Fed
- CARETTA ARMS:** MAGAZINE FED, HEDON CARAB
- CARETTA ARMS:** MAGAZINE FED, HEDON CARAB
- CARETTA ARMS:** MAGAZINE FED, HEDON CARAB
- ARM:** SHOTGUNS, ARM PA 90, 917 ARMS
- ARM:** SHOTGUNS, 917 ARMS
- KRAL ARMS:** Magazine Fed, KRAL ARMS Magazine Fed
- KALEKALIP:** FIREARMS, KMP763
- KHAN ARMS:** Magazine Fed, Khan Arms Magazine Fed
- ASCİM:** RIFLES, ASCİM RIFLES
- LAMOR ARMS:** Vertical Magazine Fed, LAMOR Vertical Magazine Fed
- HEDEF:** MAGAZINE FED, HeDef Arms 437 Series Magazine Fed Rifle
- HEDEF:** Magazine Fed Rifle, HEDEF Magazine Fed Rifle
- HEDEF:** MAGAZINE FED, HeDef Arms Magazine Fed Rifle
- CARETTA ARMS:** MAGAZINE FED, HEDON BLACK
- ATLAS:** MAGAZINE FED, CARAB
- MBC:** WEAPONS, 03 AS-44 7,62 mm x 41 NATO INFANTRY RIFLE
- eternal:** Tactical Shotgun, F40 Tactical Shotgun
- DAĞLIDOLU SHOTGUNS:** TO AT 5000
- CARETTA ARMS:** MAGAZINE SHOTGUNS, SPK01
- HEDEF:** Magazine Fed Rifle, HEDEF Magazine Fed Rifle
- ASCİM:** RIFLES, ASCİM RIFLES
- ASCİM:** Vertical Magazine Fed, ASCİM Vertical Magazine Fed
- ASCİM:** RIFLES, ASCİM RIFLES
- LUSO:** Magazine Fed, LUSO MAGAZINE FED
- ASCİM:** RIFLES, ASCİM RIFLES





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**Magazine Fed Shotguns**

**Vezir Magazine Fed Shotguns**

**MILITARY TURKEY**







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**Magazine Fed Rifles**

**Torun Arms Magazine Fed Rifles**



	
Torun M-12 W Magazine Shotgun	Torun Taylor Magazine Shotgun
	
Torun TS M1 W Magazine Shotgun	Torun TS M1 Magazine Shotgun
	
Torun TS H1 Magazine Shotgun	Torun M12 C Camouflage Magazine Shotgun
	
Torun M12 W Yellow Magazine Shotgun	Torun M12 S Black Magazine Shotgun




Tigris 600 Pro 6MM 4

Tigris 600 Pro 6MM 3

Tigris 600 3

Tigris 600 2

Tigris 600 1

Tigris 600 2

Ottomanguns YAC 4041

Tigris 600 3

**TOMAHAWK FIREARMS**

**Semi Automatic Magazine Fed**

**Tomahawk Semi Automatic Magazine Fed Series**




NAVY

LEGEND

BOXER

G-5

SA22





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## SET ARMS

Magazine Fed

Set Arms Magazine Fed Series




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# FIREARMS

TURKEY'S DEFENCE SHOPPING MAGAZINE

## The Power of Bullpup Firearms

A bullpup firearm is a type of firearm that has the action behind the trigger group. This design allows for a shorter overall length while still maintaining the same barrel length.

This makes them ideal for close-quarters combat and makes them more maneuverable in tight spaces. The design also allows for a more comfortable firing position and improved recoil control. This makes them an ideal choice for those who need a reliable and accurate weapon for close-quarters combat.

**Bull Pup Rifles**

**Vezir Bull Pup Series**



CARRERA B200 Bullpup Shotgun With Magazine



CARRERA B100 Bullpup Shotgun With Magazine



CARRERA B100 Bullpup Shotgun With Magazine



CARRERA B100 Bullpup Shotgun With Magazine



CARRERA B100 Bullpup Shotgun With Magazine



CARRERA B100 Bullpup Shotgun With Magazine



CARRERA B100 Bullpup Shotgun With Magazine







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# FIREARMS

TURKEY'S DEFENCE SHOPPING MAGAZINE

## Advantages of Bullpup Firearms

Bullpup firearms offer several advantages over traditional firearms. The most notable of these is their compact size.

This makes them ideal for close-quarters combat and makes them more maneuverable in tight spaces. The design also allows for a more comfortable firing position and improved recoil control.

This makes them an ideal choice for those who need a reliable and accurate weapon for close-quarters combat.



## History of Bullpup Firearms

The first bullpup firearm was developed in the early 20th century. It was designed by a British engineer named James Puckle and was known as the Puckle Gun. This weapon was designed for close-quarters combat and was used by the British military during World War I.

Since then, bullpup firearms have been used by militaries and law enforcement agencies around the world. They have also become popular with civilian shooters for hunting and target shooting, Turkey is taking a great position in the entire defence industry on this section.

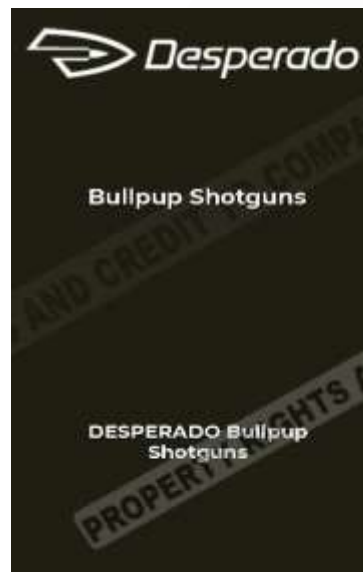




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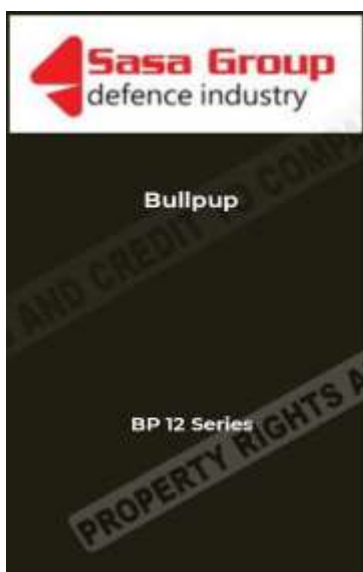
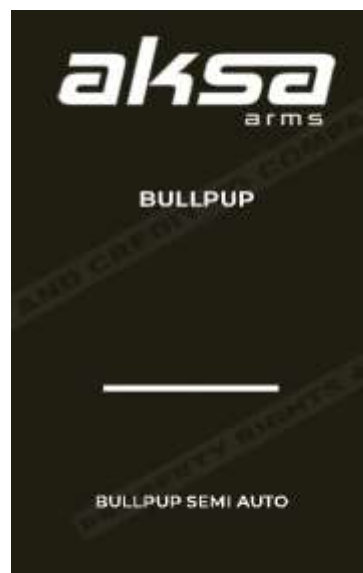


## Advantages of Bullpup Firearms

Bullpup firearms also have some disadvantages. The most notable of these is the difficulty of reloading.

The action is located behind the trigger group, making it difficult to reload the weapon quickly. Bullpup firearms also tend to be heavier than traditional firearms due to the extra components required for the design.

This can make them less comfortable to carry and more difficult to maneuver in tight spaces.



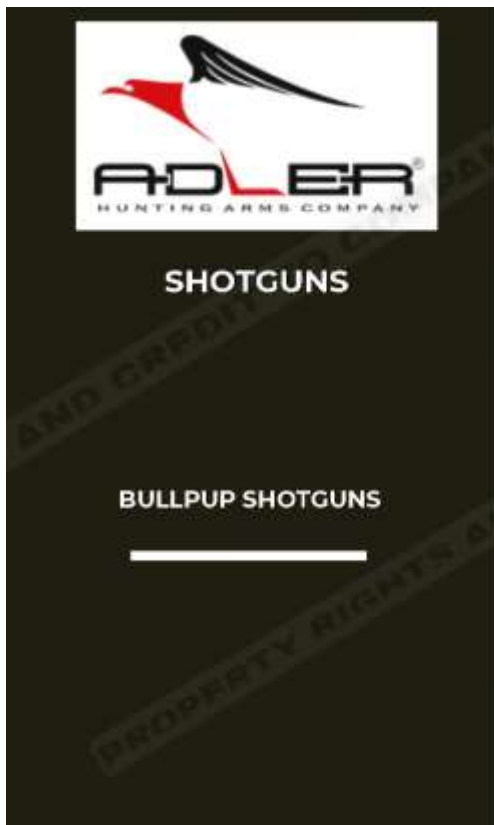




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# FIREARMS

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## The Ultimate Power of Machine Guns

Machine guns have been around since the late 19th century. Early designs used the recoil of the gun to reload the next round, allowing for a higher rate of fire than traditional rifles.

These early machine guns were used in the Spanish-American War and the Russo-Japanese War. By World War I, the machine gun had become a mainstay of the battlefield. It was used to devastating effect in trench warfare, where its ability to fire hundreds of rounds per minute allowed it to quickly cut down enemy forces. This led to the development of more powerful and reliable designs, such as the famous Maxim gun.

## Modern Machine Guns

Today, machine guns are used by militaries around the world. Modern designs are lighter and more reliable than their predecessors, allowing them to be used in a variety of roles. They are often used as squad support weapons, allowing a single soldier to provide covering fire for their comrades.

Machine guns also come in a variety of calibers, from the small 5.56mm rounds used in assault rifles to the larger 12.7mm rounds used in anti-materiel rifles. This allows them to be used in a variety of roles, from suppressing enemy forces to destroying vehicles and even aircraft



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## Machine Gun Tactics

Machine guns are often used in a variety of tactics, from suppressive fire to flanking maneuvers. In suppressive fire, the machine gun is used to pin down target, allowing friendly troops to maneuver into position.

Flanking maneuvers involve using the machine gun to fire on enemy forces from the side or rear, allowing friendly forces to attack from a more advantageous position.

Machine guns can also be used for defensive purposes. By setting up a defensive perimeter with machine guns, a small force can hold off a much larger enemy force.







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## Machine Gun Accuracy

Despite their reputation for being inaccurate, modern machine guns are actually quite accurate. With the right ammunition and proper maintenance, machine guns can be accurate up to 500 meters. This accuracy is further improved by the use of optics and laser rangefinders, allowing for more precise targeting. In addition, modern machine guns are often equipped with muzzle brakes and flash suppressors. These devices reduce the recoil of the gun, allowing for more accurate follow-up shots. This makes machine guns even more effective in suppressive fire, as well as in defensive operations.





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## Machine Gun Safety

Machine guns are powerful weapons and must be treated with respect. All operators should be properly trained in the use of the weapon, as well as in basic safety procedures. This includes knowing the proper way to load and unload the gun, as well as how to safely store it when not in use.

In addition, all operators should wear proper eye and ear protection when firing the gun. This is to protect them from the intense noise and flash of the gun, as well as from any debris that may be kicked up by the muzzle blast.



## The Future of Machine Guns

The future of machine guns seems more active with the advances in technology on all the aspects of design, material duration, technology on machining, maintenance, molding, welding and entire procurement cycle of the raw materials. Machine guns are becoming lighter, more reliable, and more accurate.

This will allow them to be used in an even greater variety of roles, from squad support to defensive operations. In addition, new materials and designs are allowing for the development of more powerful and accurate designs.

This will allow for greater firepower and accuracy, making machine guns even more effective on the battlefield.







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# FIREARMS

## The Art of Sniper Rifle Manufacturing

Sniper rifle manufacturing is a complex and highly specialized process that requires a deep understanding of the materials and technology involved. This process requires precision and accuracy in order to produce a reliable, high-quality rifle. From the selection of the raw materials to the assembly of the finished product, each step must be carefully monitored and controlled to ensure the highest standard of quality.

The manufacturing process begins with the selection of the raw materials. The choice of materials used will depend on the type of rifle being produced, as different materials are better suited to different types of rifles. Once the materials have been selected, they are cut and machined to the exact specifications required for the rifle. This process requires the use of specialized machinery and tools to ensure that the parts are cut and machined to precise tolerances.



## Assembly and Finishing

Once the parts have been machined and cut, they are then assembled into the finished product. This process requires a high level of skill and precision in order to ensure that the rifle operates correctly and that all of the parts fit together properly. Once the rifle has been assembled, it is then given a final inspection to ensure that it meets all of the necessary specifications.

The final step in the manufacturing process is the finishing of the rifle. This includes painting, polishing, and other treatments to give the rifle a professional look and feel. The finishing process is often done by hand, as it requires a high level of attention to detail in order to achieve the desired results.



## Quality Control

Quality control is an essential part of the sniper rifle manufacturing process. Every step of the process must be monitored and inspected to ensure that the finished product meets the highest standards of quality. This includes testing the rifle for accuracy and reliability, as well as inspecting it for any defects or imperfections.

The quality control process also includes testing the rifle for safety. All of the components must be tested to ensure that they meet the necessary safety standards. Once the rifle has passed all of the quality control tests, it is then ready to be shipped to the customer.





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## Packaging and Shipping of Rifles

Once the rifle has passed all of the necessary quality control tests, it is then packaged and shipped to the customer. The packaging must be designed to protect the rifle from damage during shipping. The rifle must also be properly labeled and documented in order to ensure that it is shipped to the correct address.

Once the rifle has been shipped, it is then up to the customer to inspect the rifle and make sure that it meets their expectations. If there are any issues with the rifle, the customer can then contact the manufacturer to arrange a return or exchange.



WEAPONS

MAM-15 (12.7 mm x 99) ANTIMATERIAL SNIPER RIFLE




FIREARMS

KSR338 Sniper Rifle




WEAPONS

KNT-76 (7.62 mm x 51) Semi-Automatic Sniper Rifle




RIFLE

Semi-automatic rifle




WEAPONS

KN-12 SNIPER RIFLE




WEAPONS

JMK BORA-12 (7.62mm x 51) SNIPER RIFLE







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**GLOBAL DEFENSE**

Sniper Rifles

JMK BORA II

**MHE**

RIFLES

KANS (7.62mm x 51) GROOVED HUNTING RIFLE

**ARM**

SHOTGUNS

ARM-6AS III

HITT ARMS

**DLG TACTICAL**

Sniper

DLG Sniper Series

**GLOBAL DEFENSE**

Sniper Rifles

KNT 76

**ASCIM**

SNIPER

ELI KROSS SNIPER RIFLE

**OSMANLI SAVUNMA**

Snipers

**ORSIS**

Brand Representative

Orsis Sniper Series

**OSMANLI SAVUNMA**

Snipers

**ORSIS**

Brand Representative

Orsis Sniper Series

**OMEGA**

Sniper

Omega Sniper Series

**ASCIM**

SNIPER

MODULAR SNIPER RIFLE (MSR)

**DLG TACTICAL**

RIFLES

BOLT ACTION RIFLES

**ASCIM**

SNIPER

M93 LONG RANGE RIFLE

**BALISTIK DEFENCE**

SNIPER

COSMOS

**ASCIM**

SNIPER

NEOS SNIPER RIFLE

**ÖZYURT SİLAH SANAYİ**

Sniper Rifles

BMZ 338





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## Ammunition for Firearms

Pistols use a variety of ammunition, including handgun, rifle, and shotgun shells. Handgun ammunition is typically used for self-defense and recreational shooting, while rifle and shotgun ammunition is typically used for hunting and target shooting. Different types of ammunition have different characteristics, such as velocity, accuracy, and recoil.

It is important to use the proper ammunition for your pistol. Always check the manufacturer's specifications to ensure you are using the correct ammunition. Never use ammunition that is damaged, corroded, or otherwise not suitable for use in your pistol.

Firearms ammunition is an essential component of any firearm. It is the projectile that is fired from the gun and is the source of the weapon's power. Ammunition can come in a variety of sizes, shapes, and types, each with its own unique characteristics.

The most common types of firearms ammunition are bullets, cartridges, and shells. Bullets are the projectiles that are fired from a gun and can range from small, lightweight rounds to large, heavy rounds with more stopping power.

Cartridges are the complete unit of ammunition that contains the bullet, primer, and propellant. Shells are similar to cartridges, but they contain a larger amount of propellant and are typically used in shotguns and other larger firearms.





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## ***The Main Types of Ammunition***

The two main types of ammunition are centerfire and rimfire. Centerfire ammunition is more powerful and is typically used in handguns and rifles. Rimfire ammunition is less powerful and is typically used in handguns and rifles for target shooting and small game hunting.

Ammunition can also be divided into categories based on its size. The most common sizes are .22 caliber, .38 caliber, .45 caliber, and .50 caliber. Each size has its own unique characteristics and is suitable for different types of firearms.

## ***Ammunition Safety and Maintenance***

It is important to use the correct type of ammunition for your firearm. Using the wrong type of ammunition can be dangerous and can cause the firearm to malfunction. It is also important to store ammunition in a safe, dry place away from children and pets.

When handling ammunition, it is important to wear eye and ear protection. It is also important to never point a firearm at anything you do not intend to shoot. Always keep the firearm pointed in a safe direction and be aware of your surroundings.

It is important to regularly inspect and clean your ammunition. Regular cleaning and inspection can help ensure that your ammunition is in proper working condition and can help prevent malfunctions. It is also important to store ammunition in a cool, dry place away from direct sunlight.

When loading ammunition, it is important to follow the instructions on the package. Never use force to load a cartridge into a firearm. Always use the correct size of ammunition for your firearm and never mix ammunition types in the same magazine or chamber.

## ***Ammunition Reloading***

Ammunition reloading is the process of reloading spent ammunition. This process can help save money and can be a fun and rewarding hobby. It is important to follow the instructions on the reloading equipment and to use the correct components for each type of ammunition.

It is important to be aware of the different components of ammunition when reloading. It is also important to use the correct tools and to follow all safety guidelines. Never use force to load a cartridge into a firearm and always wear eye and ear protection when reloading ammunition.

## ***Are Turkish guns good quality?***

Turkish guns have been around for centuries and have been used in many military operations. They are known for their quality and accuracy, making them a popular choice for many gun owners. In this presentation, we will explore the quality of Turkish guns and how they compare to other firearms on the market.

Over the years, they have been improved and modernized to meet the needs of today's gun owners. Turkish guns are known for their reliability and accuracy, making them a popular choice for many gun owners. They are also known for their craftsmanship, with many of the guns being made from high-quality materials.

Turkish guns are known for their quality and accuracy. They are also known for their craftsmanship, with many of the guns being made from high-quality materials. They also come with a variety of features, such as adjustable sights, adjustable stocks, and ambidextrous controls.

Turkish guns also come with a variety of safety features, such as manual safeties, trigger locks, and magazine disconnects. These features help ensure that the gun is used responsibly and safely.

## ***Beyond the Expectations for Reasonable in Price Levels in the Market***

Turkish guns are known for their quality and accuracy, but they are also known for their affordability. Many of the guns are priced lower than their competitors, making them a great choice for those on a budget.

Turkish guns are also known for their durability, making them a great choice for those who need a reliable gun that will last for years. This makes them a great investment for those who are looking for a quality gun at an affordable price.



### MINISTER OF NATIONAL DEFENSE HULUSI AKAR MADE EXAMINATIONS IN HATAY

- Minister of National Defense Hulusi Akar made investigations in Hatay Minister Akar, who was in Defne and Kumluca districts, visited the leaders of the city and was closely interested in the citizens.
- Listened the demands of the earthquake victims one by one, Akar used the following statements; The earthquake showed its effect in a very wide area.
- Citizens thanked Minister, besides, "You give us strength" Expressing that he was very honored by the visit, Eskiocak said, "Our prayers are with you always."

- After the earthquake, Minister Akar met with the workers in the factories affiliated to the Ministry of National Defense, who were assigned to participate in the works in the region, then went to the Kumlu district and received a briefing on the works at the AFAD Coordination Center.

### MINISTRY OF NATIONAL DEFENSE : THE 3RD ANNIVERSARY OF OPERATION SPRING SHIELD

It has been 3 years since Operation Spring Shield carried out in northern Syria.

- Ministry of National Defense celebrated its anniversary on its social media account.
- The Turkish Armed Forces continues its operations successfully.
- Operation Spring Shield was launched on 27 February 2020 in northern Syria.
- The following statements were conveyed about the operation, which ensures border security, prevents new migration and averts the human tragedy; "Mercy to our martyrs, healthy life to our veterans" May have mercy on our martyrs on the 3rd anniversary of Operation Spring Shield, which prevented a great human tragedy in northern Syria, ensured the security of our borders and prevented a new migration; We wish our veterans a healthy, happy and long life.
- Operation Spring Shield is a cross-border military operation conducted by the Turkish Armed Forces (TSK) against the Syrian Arab Army in the Idlib Governorate of northwestern Syria. The operation began on February 27, 2020, in response to a Syrian airstrike that killed 33 Turkish soldiers . As part of the operation, Turkey has shot down two Syrian warplanes and killed more than 50 Syrian soldiers . The main aim of the operation is to establish a "safe zone" in the area and to push the Syrian forces away from the Turkish border, as well as to protect Turkish observation posts in the area. The operation is ongoing and has been successful in achieving its goals thus far.







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## US DEPARTMENT OF DEFENSE SENDS FIELD HOSPITAL TO TURKEY

- Captain MacKenzie Margroum INCIRLIK AIRBASE, Turkey – At the request of the Government of the Republic of Turkey, Marines, sailors, soldiers and airmen of the United States Army, as part of the United States' determination to assist earthquake victims in the aftermath of the disaster, worked day and night to deliver the emergency field hospital from the United States to Incirlik Air Base in Turkey.
- Brigadier General Andrew Priddy, Commander of the 61/2 Task Force, said, "We are responding to the government's support request for the provision of critically important medical facilities as the Turkish Government carries out reconstruction activities in the earthquake-affected area.
- Airborne soldiers on duty at the Air Base Wing establish the hospital within a week, and hand over the facility to the Ministry of Health of the Republic of Turkey when the establishment of the hospital is completed.
- For more than 80 years, the US Navy Europe-Africa Command (NAVEUR-NAVAF) has established strategic relationships with allies and partners based on shared values to maintain security and stability.
- The US Department of Defense is sending a field hospital to Turkey in response to the deadly earthquake that struck the country in February 2023. The hospital is being set up in cooperation with the United Nations Office for the Coordination of Humanitarian Affairs, and is intended to provide medical assistance to those affected by the quake. The field hospital is equipped with a range of medical resources and personnel, including doctors, nurses and medical technicians, and is expected to be operational within a few days. The US Department of Defense is also sending supplies, including food, water and blankets, to Turkey to help provide relief to those affected by the quake.

## BAYRAKTAR AKINCI WAS EXHIBITED FOR THE FIRST TIME AT A DEFENSE FAIR ABROAD

- Abu Dhabi Bayraktar Akıncı TİHA exhibited for the first time at a defense fair abroad IDEX International Defense Fair and Conference and NAVDEX Maritime Defense and Maritime Security Event were held simultaneously in Abu Dhabi, the capital of the United Arab Emirates (UAE).
- The Turkish defense industry took its place in the event with the highest participation in recent years.







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- Baykar exhibited Bayraktar Akıncı at the event.
- The number of Turkish defense industry products will increase in the UAE.
- Bayraktar Akıncı, which has been operating operationally since 29 August 2021, when it entered the Turkish Armed Forces inventory, has carried out military missions and contributed to the coordination of works carried out in natural disasters.
- Baykar signed an agreement with 5 countries for Bayraktar Akıncı, in addition to Bayraktar TB2, which is the unmanned aerial vehicle with which export contracts are signed with the most countries.
- Bayraktar first exhibited at the IDEX International Defense Exhibition and Conference , which was held in Europe in February 2023. This was the first time the Bayraktar unmanned combat aerial vehicle (UCAV) was exhibited for international audiences . The Bayraktar was also showcased at the exhibition, along with other defense products such as the TB2 UCAV and the Atak helicopter.



## UAE INTERESTED IN HYDROGEN LAUNCH TECHNOLOGY OF GÜRBAĞ DEFENSE

- The United Arab Emirates is interested in the hydrogen launch system developed by Gürbağ Defense.
  - The United Arab Emirates (UAE) is interested in the hydrogen launch system developed by Gürbağ Defense Technologies (GST).
  - Thus, the GIDS Intelligent Defense System; offers its user an integrated solution from target detection to destruction.
  - The most critical feature of GIDS, which can transfer the target data obtained through radar and electro-optic payloads to the command-control center, is hidden in the launcher system it contains.
- Gürbağ Defense Technologies, which has already completed the production of the prototype of the GIDS System, which can shoot fixed-wing ammunition, continues to work on GIDS configurations that can shoot different ammunition.
  - The United Arab Emirates (UAE) has been exploring opportunities for collaboration with Gürbağ Defense Technologies (GST) in the area of hydrogen launch technology. In 2020, GST launched the GST Intelligent Defense System (IDS), a defense system that utilizes hydrogen-based propulsion technology. Moreover, the UAE has been collaborating with Raytheon Technologies, EDGE, and BAE Systems to explore co-creation opportunities across the country's defense industry . Additionally, KO Defense and Technology Company has recently displayed the Smartium Clean Catamaran , a hydrogen-powered vessel, as part of its effort to increase its UK innovation footprint and develop new hydrogen technologies. These developments demonstrate the UAE's continued interest to combine capabilities with hydrogen launch technology, particularly as it relates to the defense industry.





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## KIRIKKALE WILL BECOME STRONGER IN THE DEFENSE INDUSTRY

- Kirikkale, which is described as a "key intersection" with its proximity to Ankara and its location on the transit route of 43 provinces, strengthened its presence in the city by Machinery and Chemical Industry Inc. increasing its importance in the field of defense industry.
- Recently, especially the restructuring of MKE, investments made by ROKETSAN, Gendarmerie General Command and private companies are transforming Kirikkale into the defense industry center of the country."
- There is a high demand for Arms Specialized Area, which is the first in Turkey.
- Kirikkale is a city in central Anatolia, Turkey that is well-known for its defense industry. The city is home to the Machinery and Chemical Industry Institution (MKEK), which is the backbone of the Turkish Defense Industry . The city has a number of factories that produce ammunition, brass, heavy weapons, explosives, and small-arms weapons. Additionally, there is a Steel Factory, Rifle and Artillery Facility, and Canga Defense Industrial Company in the city. The city has also been the home of the Kirikkale Military Factories Group Directorate since 1925 . Kirikkale is an important center for defense industry investments, with factories such as the Ankara Weapons Factory (1923), Ankara Cartridge Factory (1928), and Kirikkale Steel Casting and Tilt-Mill (1933) all being located in the city.

## TURKISH DEFENSE INDUSTRY CAPABILITIES AND TECHNOLOGIES USED IN THE EARTHQUAKE ZONE

- At the meeting of the Board of Directors of the Turkish Armed Forces Foundation (TSKGV) regarding the earthquake in Kahramanmaraş, it was reported that defense industry companies will support search and rescue efforts in the field and the necessary equipment shipment has begun.
- TSKGV, Chairman of the Board Prof. Dr. İsmail Demir stated that the earthquake affected many provinces with a magnitude of 7.7 centered in Kahramanmaraş, it was noted that defense industry companies, especially the affiliates of the TAFF, were on alert for post-earthquake aid activities.







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- In the statement, it was told that the necessary coordination was provided with AFAD, and it was stated that the defense industry is at the disposal of the field teams with all their capabilities and technologies to support search and rescue activities, and in this sense, the necessary equipment shipment to the field has begun.
- The Turkish defense industry has made great strides in recent years, with many of their capabilities and technologies being used in the earthquake zone. The Bayraktar Akinci and Bayraktar TB2 UCAVs developed by Turkish drone magnate Baykar have been used to great effect in the relief effort, providing reconnaissance and data collection. Turkey's military industry also produces several of its own defense systems, including the DAR device, which was used outside its regular area for the first time in the earthquake zone. Additionally, Turkey has used its economic counter-units to increase its own defense capabilities in the region. These capabilities have allowed Turkey to become a trusted leader in advanced technology solutions and open architecture integrations in aerospace and defense, making it a great supportive usage asset in the relief effort.



## MILITARY RADAR AND BORDER SECURITY SUMMIT WILL BRING THE DEFENSE INDUSTRY SECTOR TOGETHER IN ANKARA

The defense industry, which draws attention with its 4 billion 395 million dollars export and whose domesticization rate increases every year, is getting ready to meet at MRBS, whose volume has doubled, Independent Industrialists' and Businessmen's Association – Military Radar and Border Security Summit, organized for the fourth time this year by MUSIAD Ankara Branch. MRBS doubled its size.

- The number of domestic companies serving the defense industry has approached 2,000.
- The exports of the sector, which was about 800 million dollars 10 years ago, increased to 4 billion 395 million dollars last year.
- MUSIAD, encourage industrialists to produce for the defense sector.
- For this purpose, MRBS, which we organized for the first time in 2018, is preparing to open its doors by doubling its volume this year.





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- The Military Radar and Border Security Summit is an annual event that brings together leading defense companies and experts from around the world to discuss the latest developments in Radar and Border Security technologies. The event usually takes place in Ankara, Turkey and features presentations, exhibitions, and panel discussions from various industry leaders. The summit also provides a platform for companies to showcase their latest products and technologies, and to network with potential customers and partners. The summit typically takes place in September and has previously featured speakers.



## TURKISH DEFENSE INDUSTRY IS GETTING STRONGER: KAPGAN FIRED FOR THE FIRST TIME

- Kapan, positioned as a medium class-2 unmanned ground vehicle, was transferred to Samsun Yurt Savunma's shooting range in Samsun after the work on the hull was completed for the displayed tests.
  - Kapan, who went to the field after the shooting tests, revealed his driving performance.
  - After the furnace, Kapan entered the process of gun shooting tests and different types of software capabilities at the same time.
- Kapan Unmanned Ground Vehicle, which successfully passed the first firing tests with a 12.7 mm heavy machine gun, is also looking forward to going to its brothers working in the field and got successful results after these shots.
  - Kapan is the name of a family of robots developed by HAVELSAN, a Turkish defence company. The first model, KAPAN I, is an armed, unmanned ground vehicle designed for military and security applications. A later model, KAPAN II, is a larger, more robust version of the original. Other models include the BARKAN and the HAVELSAN Unmanned Ground Vehicle (HUGV). The Kapan family of robots is known for its high maneuverability and ability to operate in harsh environmental conditions. Additionally, the robots are capable of performing a variety of tasks, such as reconnaissance, surveillance, and target acquisition.

## DEFENSE INDUSTRY PRESIDENT DEMIR ANNOUNCED DOMESTIC 'SECTION 50' DELIVERY TO THE TURKISH NAVY

- For the first time in Turkey, the head part of the submarine torpedo tubes, 'Section 50', which was produced under the engineering and coordination of STM with national resources, was delivered.
- Our steps to localize critical systems will continue.”
- Section 50, which will be located in submarines, is being produced in Gürdesan under the main subcontractor of STM in Turkey.







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- Submarines with low-noise navigation capability will be able to operate in secrecy for a long time.
- In the project, TCG Hızır Reis Submarine Towing and TCG Selman Reis Submarine First Welding Ceremony was held on May 23, 2022 with the participation of President Recep Tayyip Erdoğan.
- On February 4th, 2023, STM and Grdesan delivered the first Section 50 delivery to the Turkish Navy . This was the fourth and final Section 50 produced and delivered in Turkey for the Reis-class submarine TCG Selmanreis . Section 50 is the bow section of the submarine, which contains the submarine torpedo tubes. This delivery marked the completion of the integration of the modern submarine platform into the Turkish Navy fleet. The delivery of Section 50 was part of the government agreement between STM and Gürdesan, and the new submarines will be equipped with Section 50.

## JAPAN SELF-DEFENSE FORCES ARRIVED FOR EARTHQUAKE

- Japan Self-Defense Force personnel and aircraft are coming to Turkey.
- Japan sent the Self-Defense Forces personnel and aircraft to Turkey, which will take part in helping those affected by the earthquakes in Kahramanmaraş.
- On February 14, 2023, a Japanese Self-Defense Force plane carrying medical supplies arrived at a Turkish air base in response to a 7.8 magnitude earthquake that had occurred in Turkey earlier in the month [1]. Japan had mobilized military aircraft to transport the medical supplies, and the plane arrived with a team of medical personnel to provide aid to the victims of the earthquake.



## ARMORED AND DOMESTIC ENGINES: DEFENSE INDUSTRY CROSSED ANOTHER MILESTONE

- The rate of domesticity in Turkey's defense industry is increasing day by day.
- One of these nationalization moves is the domestic engine option.
- For users who prefer the domestic engine option, it will provide advantages such as cost, supply and lifetime support service.
- The opening ceremony of BMC Power's TTZA engine, which was developed with domestic facilities, was also held.





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- BMC Power's TTZA engine is a 400 hp diesel engine that was first ignited in February 2023. It is an inline 4 cylinder turbo diesel engine with an expected power output of 350 hp and 8.5 L combustion chamber. It is used in Vuran armored vehicles and is a domestically produced engine in Turkey. The engine was first showcased at the IDEX 2023 event and the shipment ceremony was held in February 2023. The engine is expected to be delivered in 2022.



## KALEKALIP TAKES TO THE FIELD WITH ITS NEW RIFLES

- KALEKALIP, one of Turkey's leading defense industry companies, takes the field with its new rifles developed with national resources.
- Hundreds of productions: KCR556 The most produced rifle by KALEKALIP, the KCR556, as its name suggests, is a rifle with a diameter of 5.56.
- KCR556; A product family with 7.5", 11" and 14.5" barrel lengths.
- The rifle has a 15,000 shot barrel life guarantee.
- The KCR556 is a service rifle developed by Kale Kalip, a Turkish firearms manufacturer. It is chambered in 5.56x45 mm NATO ammunition and has a free-floating barrel with precise fire feature, rotating bolt head & op-rod driven short-stroke gas piston, and a fixed gas system. It is especially designed for infantry use and is renowned for its reliability and accuracy.



## THOSE COUNTRIES KNOCKED ON THE DOOR OF THE TURKISH DEFENSE INDUSTRY! ANKA UAV ORDERS HAVE INCREASED!

- There has been a new development regarding the Turkish unmanned aerial vehicles that left their mark on the world.
- According to the information obtained from the source of SavunmaSanayiST, it was stated that ANKA UAV is preparing to expand abroad after Bayraktar TB2 and Akinci.
- Algeria ordered 10 ANKA SİHAs, Chad 2 and Indonesia 12 ANKA UAVs.
- It was also claimed that a total of 24 ANKA orders from 3 countries would earn more than 500 million dollars.
- ANKA UAV is an unmanned aerial vehicle designed by TUSAŞ by taking advantage of domestic and national opportunities.
- While it is estimated that approximately 50 ANKA SİHAs have been delivered to foreign countries so far, it is known that the production process of the same number continues.



- 24 ANKA UAVs ORDERS FROM 3 COUNTRIES TO TAI
- Indonesia, Chad and Algeria decided to procure ANKA SİHA from Turkey.
- Indonesia, Chad and Algeria decided to procure ANKA SİHA from TAI.
- Tunisian Air Force supplied 3 ANKA Unmanned Aerial Vehicles (UAV) and 3 Ground Control Stations (YKI) for 80 million USD.
- The second order from abroad for ANKA came from Kazakhstan, again 3 pieces.
- At least 2 countries have placed orders for AKSUNGUR so far.



### A SHOW OF STRENGTH IN THE UAE FROM THE DEFENSE INDUSTRY! 50 TURKISH COMPANIES ARE PARTICIPATED

- Among the companies participating in IDEX and NAVDEX from Turkey are ASFAT, Baykar, BİTES, BMC, DEARSAN, DESAN, Samsun Yurt Savunma (Canik), FNSS, Gürbağ Defense, IGG ASELSAN, IGG DASAL, IGG HAVELSAN, Makine ve Kimya Endüstrisi AŞ, OTOKAR, REPKON, ROKETSAN, Sarsılmaz, SDT, STM, TAIS and Turkish Aerospace Industries.
- The International Defense Exhibition & Conference (IDEX) is a tri-service defense exhibition held annually in Abu Dhabi, United Arab Emirates. The event draws exhibitors from around the world, including Turkey. Turkey is one of the largest international exhibitors at IDEX, showcasing a range of its defense products, from armored vehicles to small arms and ammunition. Turkish companies also take part in the accompanying Defense Technology Symposium (DTS), which provides a platform for industry experts and defense professionals to discuss the latest developments in military technology and defense policy.
- The Turkish defense industry showed up at the defense industry event in the United Arab Emirates (UAE) with the highest participation in recent years.
- IDEX International Defense Exhibition and Conference started in Abu Dhabi, the capital of the United Arab Emirates, with the participation of the defense industry and high-level official delegations of countries from all over the world.
- The latest technologies in the land, sea and air defense sectors are introduced at the fair.
- IDEX is held concurrently with the NAVDEX Maritime Defense and Maritime Security Event, which covers maritime issues.
- Cooperation opportunities will be evaluated and the Turkish delegation will hold talks with host country officials and delegations from other countries that will participate in the fair.

### DEFENSE INDUSTRY TECHNOLOGIES SAVE LIVES

- When the dates showed February 6, 2023, we were shaken by two earthquakes with a magnitude of 7.7 and 7.6, which caused great destruction in 11 provinces.
- Baykar Rapid Mapping System, which receives high-resolution images, was important in terms of contributing to damage assessment studies in the earthquake area.





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- In addition, its use in military operations continues to increase.
- The purpose of the human-machine interface used in Search and Rescue Studies is to create a new environment to assist humanoid robots in the task of bilateral feedback during teleoperation throughout the whole body.
- In this way, a wreck is made invisible and what is behind it is determined.



## TURKEY'S FIRST FOLDABLE STOCK PERSONAL DEFENSE WEAPON: KNG-C5

- KALEKALIP developed Turkey's first personal defense weapon with foldable stock.
- The weapon called KNG-C5 is an AR-15 type weapon.
- Due to its short and compact nature, it is very comfortable for the rear service troops in the built-up area.
- Today, PDW class weapons use ammunition such as 5.56, 7.62, .300 Blackout, 5.7×28 and 4.6×30.
- This weapon system, whose stock can be changed, also provides all the functions of the stock open, the stock is folded and when necessary, it is completely stockless, and it provides a unique use in areas where other rifles cannot enter.
- The KNG-C5 is a foldable stock rifle developed by KALEKALIP, a Turkish firearms company, for use in military, law enforcement, and civilian applications. It is chambered in 5.56x45mm NATO and has an effective range of 300 meters. It features a folding stock, adjustable gas system, and an adjustable trigger with a 2-stage trigger pull.
- Additionally, it has various mounting options and can accept various magazine types. This rifle is lightweight and reliable, making it an ideal choice for a variety of shooting scenarios.

## EXERCISE DYNAMIC MANTA-2023 TAKES PLACE FROM FEBRUARY 27 TO MARCH 10, 2023 IN THE CENTRAL MEDITERRANEAN, HOSTED BY ITALY

- The Ministry of National Defense shared on its social networking site Twitter account, "Dynamic Manta-2023 exercise will take place in the Central Mediterranean between February 27 and March 10, 2023, hosted by Italy. He announced that the 2023 exercise took place in the Central Mediterranean, hosted by Italy.



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- We are participating in the exercise with our TCG Preveze submarine and our NATO Permanent Naval Task Group-2 frigate TCG Barbaros."
- The NATO exercise Dynamic Manta (DYMA23) began on Monday , February 27, 2023 off the coast of Sicily in Italy. The exercise is aimed at improving the alliance's anti-submarine warfare capabilities and will involve ships, submarines, maritime patrol aircraft, and helicopters from various NATO member countries. The exercise is expected to last until March 10, 2023.

## TCG BAYRAKTAR SHIP OF TURKISH NAVAL FORCES CONVERTED INTO A HOSPITAL

- The Ministry of National Defense (MSB) shared on its social media account, "We continue to provide treatment services to our citizens who were damaged in the earthquake on the TCG BAYRAKTAR ship of our Naval Forces, which was converted into a hospital. Health services were provided to 4 thousand 850 citizens on our ship, 23 of which were operated.



- TCG Bayraktar is a class of landing ship tanks (LSTs) built in Turkey for the Turkish Navy by Anadolu Deniz naat ve Tersane A..Ş. The two amphibious vessels of the class are called TCG Bayraktar (L-402) and TCG Sancaktar (L-403). The vessels have a displacement of 7254 tons full load and measure 138.7 x 19 x 3 meters. They have a maximum speed of 16 knots and a range of 4,000 nm. The vessels are equipped with a 76mm gun, two 12.7mm machine guns, two 12.7mm remote control gun systems, and two 40mm grenade launchers. They are also capable of carrying and launching LCMs, LCVPs, RHIBs, and UAVs.

## COLLABORATION FROM KEYVAN AVIATION AND BITES

- "Two important forces of the defense industry are coming together."
- Keyvan Aviation and BITES cooperated to combine their forces.
- Providing aviation and navigation database services by supporting its customers with innovative ideas, products and solutions related to flight operation and data analytics, Keyvan Aviation is at IDEX 2023 Fair, one of the most important defense fairs of the world, which is held every two years with BITES, Turkey's leading defense software and innovation company. signed a collaboration.





- Keyvan Aviation and BITES have announced a collaboration agreement that will see the two companies working together on projects related to defense and aerospace technologies. The agreement will enable BITES to access the expertise and resources of Keyvan Aviation and vice versa, allowing them to work together to develop innovations and solutions for the aerospace and defense industries. Keyvan Aviation will benefit from access to BITES' expertise in defense and aerospace technologies, while BITES will gain access to Keyvan Aviation's engineering and software development capabilities. The collaboration is expected to further strengthen both companies' presence in the aerospace and defense industries.



**Keyvan Aviation** is a Turkish-based aviation and navigation technology company founded by Mehmet Keyvan. Keyvan Aviation provides global coverage of aeronautical and navigational databases that have been analysed and developed in line with the local and national technology standards. The company also offers services for aircraft avionics manufacturers, airlines' flight operations departments, flight planning systems, airports, and flight simulators. Keyvan Aviation is also involved in the development of the latest aviation technology, such as the integration of drones into the aviation network.

**BITES Defence** is a defense and aerospace industry and information technologies company based in Turkey. The company specializes in providing solutions for the defense and aerospace industries, including the design and manufacture of components, systems, and platforms. They offer a comprehensive range of services, including software and hardware development, engineering services, and manufacturing solutions. BITES Defence is committed to providing the highest quality products and services to its customers, and is ISO 9001:2015 and ISO/TS 22163:2017 certified.

- With this cooperation, I am sure that as Keyvan Aviation, we will leave a mark by signing very important projects together with BITES.”
- KEYVAN: “We have added a new one to our strong collaborations”.
- Congratulations on the cooperation we signed with BITES, Turkey's leading defense software and innovation company.

### AID MATERIALS SENT BY PAKISTAN TO THE EARTHQUAKE AREA WERE RECEIVED

In the statement made by the Ministry of National Defense:

- We received the 21 truck aid materials sent by the friendly and brotherly country Pakistan to the earthquake region with a ceremony in Malatya.
- We express our gratitude to all Pakistani people for their support.
- We received the 21 truck aid materials sent by the friendly and brotherly country Pakistan to the earthquake region with a ceremony in Malatya.
- We express our gratitude to all Pakistani people for their support.





### FOREIGN MINISTERS OF RUSSIA, SYRIA AND TURKEY MEET

- Russian Deputy Foreign Minister Mikhail Bogdanov; He stated that preparations are currently being made for the meeting of the foreign ministers of Russia, Syria and Turkey.
- "Now there is a meeting of foreign ministers on the agenda," Bogdanov said at a press conference today.
- Turkish Foreign Minister Mevlüt Çavuşoğlu said on January 12 that an agreement was not reached for a meeting with Syrian Foreign Minister Faisal Mikdat, but that the meeting would take place as soon as possible.
- Turkish National Defense Minister Hulusi Akar and Turkish National Intelligence Organization (MIT) Head Hakan Fidan met with Russian Defense Minister Sergey Shoygu and Syrian Defense Minister Ali Mahmud Abbas in Moscow with the intelligence chiefs of the two countries.
- Akar's meeting with the Syrian Minister of Defense was the first ministerial meeting between Syria and Turkey since 2011.



### FIRST FLIGHT FROM BAYRAKTAR TB2'S TWIN IN THE GULF, REACH S

- The Reach-S Armed Unmanned Aerial Vehicle (SİHA), developed by the United Arab Emirates-based EDGE company, made its first flight.
- Exhibited for the first time at the Dubai Airshow in November 2021, the Reach-S SİHA made its maiden flight very recently.
- Almost the twin of Bayraktar TB2 SİHA developed by Baykar, Reach-S made its first flight without any external payload.
- BAYKAR exhibited the AKINCI TİHA during the IDEX 2023 Fair, which ended today and held in Abu Dhabi.
- Each bit variant is named as Desert Sting 5, Desert Sting 8, Desert Sting 16 and Desert Sting 25 based on the weight of the warhead.
- The Reach-S and the TB2 are unmanned aerial vehicles (UAVs) developed by the EDGE Group, primarily for the Turkish Armed Forces . The Reach-S is a fixed-wing aircraft, while the TB2 is a rotary-wing aircraft. The Reach-S has a payload capacity of 4 MAM-L missiles, while the TB2 can carry up to 8 MAM-L missiles. Both use the Rotax 912 propeller engine , which allows for a flight ceiling of 18,000 feet . Both can be monitored and controlled by an aircrew in a ground control station , including weapons employment.





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- The munitions without any propulsion system have a range of 16km.
- The United Arab Emirates' EDGE Group subsidiary Halcon showcased the full-scale model of Reach-S fixed-wing armed medium-altitude long-endurance (MALE) unmanned aerial vehicle (UAV) during the expo. It is a multirole UAV very similar designed to Bayraktar with features of reconnaissance, surveillance, and target acquisition missions, and can be armed with various weapons. The Reach-S has a maximum take-off weight of one ton and a maximum payload capacity of 150 kg. It has a maximum flight time of more than 20 hours and a maximum operational altitude of 7,500 meters. The UAV also features a modular design, allowing for easy integration of various payloads, sensors, and weapons.



## MILITARY FACTORIES CONTINUING UNINTERRUPTED CONTAINER PRODUCTION

- The Ministry of National Defense reported that the production of containers and tents continues uninterrupted in the factories affiliated to the General Directorate of Military Factories.
- In the post made on the social media account of the Ministry of National Defense, it was said, "Container and tent production continues uninterrupted for our citizens in the earthquake zone at the factories affiliated to our General Directorate of Military Factories."
- These factories are focused on producing military equipment and supplies for the Turkish armed forces. Additionally, the Nide Bor Yarn Factory has been opened in order to meet the military needs. This factory produces yarns and threads for military uniforms, as well as other types of fabrics.
- The 7th Main Maintenance Center Command is located in Nigde, Turkey. It is responsible for the maintenance and repair of the Turkish equipment and manufacture and lead the private sector corporation during the manufacturing stages. The Center also provides training for personnel and maintains its own training facility. The 7th Main Maintenance Center Command is part of the Turkish Logistics Command, which is responsible for the maintenance and repair of units and manufacture Life Support Units such as tents, containers, mobile military kitchens and now manufacturing containers and tents full capacity for earthquakes victims in Turkey.

## PRAISE FOR THE TURKISH UAV FROM THE AMERICAN TV CHANNEL: UKRAINE BAYRAKTAR STOOD UP WITH TB2

- Bayraktar TB2 armed unmanned aerial vehicle has been a weapon in the language of the whole world since the beginning of the war between Ukraine and Russia.
- The fame of the Turkish-made UAV, which contributed greatly to Ukraine's advantage over Russia, spread so much that after this success, military analysts included the TB2 among "weapons that changed the course of the war."
- Brad Lendon, senior defense industry writer of the American news network CNN International, praised Bayraktar TB2 in his article titled "Three weapons that changed the course of the Ukraine-Russia war".
- Lendon claimed that Bayraktar TB2 SİHA, Javelin and HIMARS weapon systems changed the course of the Russia-Ukraine war.



- American news channels and newspapers have been praising the Turkish unmanned aerial vehicles (UAVs) for their effectiveness in Ukraine. The UAVs, produced by Turkish company Bayraktar, have been used to great success by the Ukrainian military in operations against Russian forces. The UAVs have garnered praise for their accuracy, range, and loitering time, and have become a symbol of the Ukrainian struggle for independence. American news outlets have noted the success of the UAVs in the conflict, and have praised the Turkish company for their contributions to the conflict.
- Besides, The Turkish-made Bayraktar TB2 drone has played an important role in the conflict in Ukraine. It was first sold to Ukraine in 2019, and since then has been used by the Ukrainian military to search for and destroy key targets behind enemy lines . It has also been used as a diplomatic tool, helping to bring international attention to the conflict and to bolster Ukraine's position in the negotiations. The TB2 has also been donated to Lithuania, which has transferred them to Ukraine, and Ukraine has received 50+ armed drones from Baykar since 2019 .

### TURKISH ARMORED VEHICLES WITH RUSSIAN TOWERS IN KAZAKHSTAN

- TULPAR and ARMA 8x8 type armored vehicles developed by Otokar were seen in Kazakhstan with the Russian-made 2K23 Tower integrated.
- The 2K23 Tower, which has a maximum firing rate of 8-10 shots/minute, has a range of up to 4 kilometers with appropriate ammunition.
- BMP-2 ZMAs also have the 30mm 2A72 Gun used in the 2K23 Turret.
- TULPAR and ARMA 8x8 vehicles are expected to enter the Kazakhstan Army inventory in the near future.







- Otokar, a Turkish bus and military vehicle manufacturer, developed the TULPAR and ARMA 8x8 armored vehicles. The TULPAR is an 8x8 wheeled armored vehicle with a Gross Vehicle Weight (GVW) of 33 tons and a power-to-weight ratio of 26 hp/ton. It has the capability to carry up to 11 personnel, and is equipped with a 7.62mm machine gun. The ARMA 8x8 is a wheeled armored vehicle with a Gross Vehicle Weight (GVW) of 33 tons and a power-to-weight ratio of 27 hp/ton. It is designed to carry up to 12 personnel, and is equipped with a 12.7mm machine gun. Both vehicles have been seen in Kazakhstan, and are used for various military, law enforcement, and security operations.
- The 2K23 Tower is an armament system developed by the Russian company Kurganmashzavod (Kurgan Machine Building Plant). It has been integrated with Otokar's TULPAR and ARMA 8x8 armored vehicles and is used in Kazakhstan . The tower is equipped with a 30mm 2A42 automatic cannon, a 7.62mm PKT
- Kurganmashzavod is a manufacturing company based in Kurgan , Russia, that is known for its BMP series of infantry fighting vehicles. It is one of the largest enterprises of the military-industrial complex in the Russian Federation , producing infantry fighting vehicles, as well as other military and civilian vehicles. Kurganmashzavod has handed over a batch of the upgraded BMD-4M infantry fighting vehicle prototypes to the Russian Army , and manufactures the Kurganets infantry fighting vehicles. machine gun, and a guided missile launcher. It has a total weight of 7.3 tonnes and can traverse 360 degrees. The turret is also equipped with an automatic loader, 2K23, which can feed up to 22 rounds.



## INJURED EARTHQUAKE SURVIVOR WAS TRANSFERRED TO ADANA CITY HOSPITAL BY MILITARY HELICOPTER

- The military helicopter stationed on the TCG Giresun Frigate transferred the injured earthquake survivor from Hatay State Hospital to Adana City Hospital.
- The statement was made from the social media account of the Ministry of National Defense.
- In the post, "Our helicopter stationed on our TCG Giresun Frigate transferred the patient from Hatay State Hospital to Adana City Hospital.
- We wish our citizens a speedy recovery."



### UAE PRESIDENT RECEIVES INDONESIAN DEFENSE MINISTER

- His Highness Sheikh Mohammed bin Zayed Al Nahyan, President of the UAE, at the 16th Congress, in Abu Dhabi.
- He received the Minister of Defense of the Republic of Indonesia, Prabowo Subianto, who headed the delegation of his country participating in the International Defense Exhibition and Conference (IDEX) 2023.
- During the meeting held here at Qasr Al Bahr Majlis, the Indonesian minister conveyed to the President of the UAE the greetings of Indonesian President Joko Widodo and wishes for further progress and prosperity to the UAE.



### UAE OFFERS NEW FINANCING SOLUTIONS FOR DEFENSE INDUSTRIES

- UAE-based SMEs in the Soap Industry sector will soon have access to new financing solutions and facilitators, following a memorandum of understanding (MoU) signed at IDEX and NAVDEX 2023.
- " EDB is one of our most important strategic partners.
- Similarly, Tawazun Industrial Park, the UAE's integrated national hub for the defense, security and technology industries, is critical in enabling local defense contractors.
- "As a priority sector under the Department of Defense's 300 billion Operation, we are pleased to announce that EDB will seek to raise up to \$100 million in funding to further support the progress of the industry.



### TAIWAN SAYS 19 CHINESE FIGHTER JETS ENTERED ITS AIR DEFENCE ZONE

- A total of 25 Chinese warplanes and three warships were monitored operating off the Taiwanese coast.
- Taiwan's defence ministry said on Wednesday that 19 Chinese J-10 fighters had flown into the southwestern corner of the island's air defence identification zone, or ADIZ, though they remained closer to China's coast than Taiwan's, according to a map the ministry released of the air incursion.
- R.O.C. Armed Forces have monitored the situation and tasked CAP aircraft, Navy vessels, and land-based missile systems to respond these activities.



- The ADIZ is a broader area that Taiwan monitors in order to give it more time to respond to any threats.
- Wednesday's incursions were also relatively modest by recent standards.
- During China's National Day weekend in 2021, Beijing dispatched 149 military aircraft southwest of Taiwan in strike group formations. Democratically-elected Taiwan has repeatedly offered talks with China regarding the status of the island, but has also said it will defend itself if attacked, and that only the Taiwanese people can decide their future.



### BOEING FACES SIMILAR SUPPLY CHAIN CHALLENGES IN DEFENCE TO COMMERCIAL BUSINESS

- Boeing Co's (BA.N) defence business is facing some of the same supply chain challenges as its commercial business, including delays in receiving parts.
- "We have got a number of programmes that have both commercial and military components and the challenges that exist in the global supply chain also exist at Boeing Defence," Boeing Defence Australia Managing Director Scott Carpendale told reporters on the sidelines of the Australian International Airshow.



### IRAN LAUNCHES AIR DEFENCE DRILLS OVER TWO-THIRDS OF ITS AIRSPACE

- Iran's Armed Forces have launched a large-scale military exercise covering two-thirds of Iranian airspace with the aim of testing capabilities in the event of an attack on sensitive facilities.
- Iranian state TV said the manoeuvres are taking place with the participation of the air defence divisions of the army and the Islamic Revolutionary Guard Corps (IRGC).
- He added that the manoeuvres involve fighters, drones, radars, electronic warfare equipment and communications equipment.
- "In this exercise, the Seal of the Prophets Air Defence Base tested the vital, sensitive and important centres in the country, using the strength and local capabilities of the country's manpower and equipment and creating different layers of air and land defence.
- Last month, the Iranian Ministry of Defence said it had thwarted a drone attack on a military facility in the city of Isfahan.



### CHINESE BALLOON SAGA CREATES A TAILWIND FOR DEFENCE STOCKS

- The recent aerial invasion by the Chinese spy balloon of the U.S. and Canadian airspaces triggered a sense of panic and a rise in threat perception among the armed forces of both countries.
- While the balloon was ultimately shot down by U.S. fighter jets, the incident served to highlight the growing geopolitical instability and its potential military fallout.
- The Raytheon Technologies arms manufacturers are well positioned to benefit from the growing demand for their wares and technology as the U.S. and its allies bulk up their defence capabilities against growing Russian and Chinese belligerence.
- Recently, both have seen a spike in the U.S. and among many of its allies.
- Raytheon Technologies (RTX) is a diversified aerospace and defence industrial company that operates in four segments: Collins Aerospace (diversified aerospace supplier), Pratt & Whitney (engine manufacturer), Raytheon Intelligence & Space (sensors, hardware, and communications technology), and Raytheon Missiles & Defence (a defence prime contractor).

### COMMENTS ON NUCLEAR SUBMARINE CHOICE 'IRRESPONSIBLE' AHEAD OF AUKUS ANNOUNCEMENT - DEFENCE MINISTER

- Australia's former defence minister said on Wednesday he favoured Australia choosing a U.S. nuclear-powered submarine over a British model in its AUKUS alliance, comments swiftly labelled "irresponsible" by the government, which expects to announce a decision within weeks.
- "It was a proven design, it gave us interoperability with the Americans, and there'll be more American subs in the Indo-Pacific than there will be British submarines, who will concentrate, quite rightly, particularly given the Russian threat, to continental Europe," he said.
- "I worry that if the government's taken a decision to go for a cheaper design, that it will delay the delivery of those submarines," he added, when asked about defence industry speculation that a British submarine would be chosen.



### QATAR INAUGURATES COASTAL MISSILE DEFENCE SYSTEM

- The Qatar Emiri Naval Forces' (QENF's) new coastal anti-ship missile system was officially inaugurated by Minister of State for Defence Affairs Khalid bin Mohammed al-Attiyah at the new Al-Houl Naval Base, the Ministry of Defence (MoD) announced on 23 February.
- It provided no further details but released a short video clip showing components for the MBDA Exocet and Marte ER coastal anti-ship missile systems lined up at the base for the event.





- The MBDA announced during the DIMDEX show held in Doha in March 2016 that it had signed a memorandum of understanding (MOU) with Qatar that would pave the way for a EUR640 million (USD678.34 million) contract to supply the QENF with a coastal defence system with both the Exocet MM40 Block 3 and smaller Marte ER anti-ship missiles.
- The company confirmed in September 2016 that the contract had been signed.
- Qatar is the first customer for the extended-range development of the Marte and has also ordered the air-launched version for use with its NH90 NFH helicopters.

### **NATO DEFENCE MINISTERS STEP UP SUPPORT FOR UKRAINE, STRENGTHEN DETERRENCE AND DEFENCE**



- NATO is stepping up support for Ukraine, while further strengthening deterrence and defence and increasing stockpiles, Secretary General Jens Stoltenberg said, following a meeting of NATO Defence Ministers.
- This reflects the reality that we live in a more dangerous world.
- It will drive the capability changes for the years to come.
- And ensure that our deterrence and defence remain strong and credible " said Mr Stoltenberg.
- Highlighting Ukraine's window of opportunity to tip the balance of the war, Mr Stoltenberg welcomed the pledges of support made by NATO Allies to Ukraine, including more heavy weapons and military training.

### **DEFENCE PRODUCTION SECTOR IS OPEN TO EVERYONE, OR IS IT? L&T SAYS THERE IS NO LEVEL PLAYING FIELD**



- In a revelation about the defence production sector in India, Jayant Patil, a member of the executive committee of management of L&T said, "there is no level playing field in defence production".
- In a interview with the Hindu Businessline, Patil said that although "theoretically the defence production sector is open to both the public and private sectors, in practical terms, there is no level playing field".
- Patil further adds that about 85 per cent of the orders by value for warship programmes go to public-sector shipyards on a nomination basis.
- He also explains about the TATA-Airbus C-295 production plant in Vadodara. The final assembly portion of TATA is just about 12 per cent, Patil says.





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## SAAB RECEIVES ORDERS FOR DEFENCE SYSTEMS FROM 'WESTERN COUNTRY'

- Soldiers using the RBS 70 NG short-range air defence system.
- Saab's deliveries will take place from 2023 to 2026.
- The latest order was placed with circumstances concerning the customer and national security interests, with no further information regarding the orders or the customer being provided.
- Associated deliveries are expected to start later this year.
- RBS 70 NG is the latest version of the RBS 70 system that provides automatic target tracking, improved reaction times, and in-built night-sight capabilities to its users.



## DEFENCE MINISTER SIGNS CONTRACTS FOR 1,400 MILITARY VEHICLES

- Darek Delmanowicz/PAP The defence minister has signed a framework contract for the delivery of close to 1,000 infantry fighting vehicles and some 400 accompanying vehicles.
  - Poland rapidly increased its defence purchases after Russia invaded Ukraine in February last year.
  - The Borsuk (Polish for 'badger') infantry fighting vehicles (IFVs), which are manufactured by Polish arms producer HSW, are to replace the Soviet-era BWP-1 IFVs that the Polish army still uses.
- The other contracted vehicles include reconnaissance, command, medevac, technical support and contamination detection vehicles.
  - The times of the infantry fighting vehicles that the Polish Armed Forces have been using so far are over, now it's time for the Borsuk IFV era," Blaszczak said

## AJAX ARMoured VEHICLE PROJECT BACK ON TRACK, SAYS DEFENCE SECRETARY

- Ben Wallace was given a demonstration of a new Ajax vehicle at Bovington Camp military base in Dorset By Jonathan Beale Defence Correspondent The Army's "troubled" programme to build the new Ajax armoured vehicle "has turned a corner" according to the defence secretary.
- There was even speculation the programme might be cancelled.







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- After going for a drive in one of the vehicles, he told the BBC: "It's performing very well and I'm confident we've turned the corner."
- Noise has been reduced thanks to dual-layer hearing protection for soldiers operating the vehicle, with an inner ear piece for communication covered by noise-cancelling headphones.
- The final stage of trials is expected to last for 18 months but it could be another two years before Ajax finally enters service with the Army.

## POLAND DEFENCE SPENDING WILL HIT RECORD HIGH THIS YEAR

- Jerzy Muszyński/PAP Poland will become Nato's leading defence spender in 2023 in relation to its economic size owing to around 4 percent of GDP going on weapons, the newspaper Dziennik Gazeta Prawna reported.
- The war in Ukraine has prompted the Polish government to accelerate a multi-billion euro defence spending programme that includes large purchases of military hardware such as tanks and rocket systems.
- "And this is not all, as at least several dozen billions of zlotys should be added to this sum from the Armed Forces Support Fund," the daily wrote. "
- "But it is possible that the entire defence spending in 2022 totalled PLN 70 billion (EUR 14.9 billion) and exceeded 2.5 percent of GDP," the daily added.
- The newspaper added that the estimated value of a framework agreement, to be signed between the State Armament Agency, the Polish Armaments Group (PGZ), Stalowa Wola Steelworks (HSW) for the supply of BORSUK infantry fighting vehicles and specialised vehicles based on a universal modular tracked platform, amounted to "at least a dozen or so billion zlotys."



## NATO DEFENCE MINISTERS TO ADDRESS UKRAINE, STOCKPILES AND CRITICAL INFRASTRUCTURE

- NATO Defence Ministers are meeting in Brussels to strengthen the Alliance's deterrence and defence, and step up and sustain for Ukraine.
- Previewing the meeting on NATO Secretary General Jens Stoltenberg noted the urgency of delivering key capabilities to Ukraine before Russia can seize the initiative on the battlefield.
- Ministers are expected to agree a new level of ambition for NATO defence planning and address ways to increase defence industrial capacity and replenish stockpiles.
- They will also take steps to increase the protection of critical undersea infrastructure and discuss ways to maintain and step up defence spending across the Alliance.





### UAE SAYS \$6.4BN IN CONTRACTS SIGNED AT MAJOR DEFENCE EXPO

The United Arab Emirates signed defence deals worth a total of 23.34 billion dirhams (\$6.36 billion) over five days of a major defence expo in the capital Abu Dhabi, with big wins for local companies despite a strong showing by international firms.

- The week-long industry event saw participation from major players from the United States and Europe, and a strong Israeli presence.
- Russian firms also participated despite Western pressure on Gulf states to help isolate Moscow, with whom they have energy and economic ties.
- The deals were signed by the Tawazun Council, the UAE's defence and security acquisitions authority, on behalf of the ministry of defence, the UAE Armed Forces, security agencies and Abu Dhabi Police.

### EGYPTIAN MILITARY, EMIRATI TAWAZUN COUNCIL SIGNS MOU ON DEFENCE

- On the sidelines of the first day of the (IDEX 2023) exhibition held in Abu Dhabi, the Tawazun Council signed a memorandum of understanding with the Egyptian Ministry of Defense, represented by the Armed Forces Armament Authority, in an effort to enhance cooperation between the two brotherly countries in the fields of developing defense industries.
- Tawazun Council is an independent government entity that works closely with the Ministry of Defense and security agencies in the United Arab Emirates.
- The memorandum was signed by His Excellency Tariq Abdul Rahim Al Hosani, Secretary General of the Tawazun Council, and Major General Osama Ezzat, Assistant Minister of Defense for Armament, in the presence of Lieutenant General Osama Ahmed Askar, Chief of Staff of the Egyptian Armed Forces, and a number of officials from both sides.
- The memorandum aims to provide all aspects of support between the two sides in order to achieve integration in the development of defense and security industries and to enhance military cooperation between the two brotherly countries.
- The terms of the memorandum provide for strengthening cooperation between the two brotherly countries, supporting the strategy for developing defense industries, and discussing opportunities and mechanisms for joint cooperation between them in the field of defense and security industries in a way that



### MILSKIL JOINS TEAM AUSTRINGER'S BID FOR AIR 5428 PHASE 3

- CAE has announced that Australian-owned operational training services provider, Milskil, has joined CAE-led Team AUStringer to respond to the Air 5428 Phase 3 program which will provide a training solution for RAAF mission aviators.
- Together, Team AUStringer will comprise of CAE, Leidos, Milskil, and Nova Systems.
- The collective capabilities, reputation, and unique strengths contributed by Milskil bolsters the best-in-class solution to train and produce leading-edge RAAF aviators, enhancing their decision-making and performance in complex mission environments.





- The Future Aviation Mission Training System (F-AMTS) will be utilised to train the RAAF's mission aviators, including electronic warfare officers, maritime patrol and response officers, air battle managers, air traffic controllers, and other mission specialists.
- "Milskil is very pleased to join the CAE-led AUStringer team and is confident that the set of sovereign capabilities that CAE has brought together provides a unique combination that will meet and exceed the Australian Defence Force (ADF) needs for the future mission training," John Lonergan, Managing Director and Founder of Milskil said. "

### UK AND GREECE SEEK STRENGTHENED DEFENCE PARTNERSHIP

- Greece's Minister for National Defence, Nikos Panagiotopoulos, signed the Joint Vision Statement (JVS) with UK Defence Secretary, Ben Wallace, on a visit to the UK, which included a Guard of Honour in London and a tour of HMS Diamond – a Royal Navy destroyer - at His Majesty's Naval Base Portsmouth.
- The JVS highlights the shared determination to work together to enhance resilience against all security threats and challenges in the Euro-Atlantic area.
- To further develop the UK-Greek relationship, an annual 'Roadmap' outlining the defence cooperation priorities will be agreed each year.
- Defence Secretary, Ben Wallace said: Greece is our long-standing NATO ally and defence partner and I am delighted to welcome Nikos Panagiotopoulos.
- To address new threats and challenges, Greece and the UK will look to exploit new opportunities for collaboration, including enhancing the effectiveness and interoperability of our Armed Forces, and improving capabilities provided to NATO, including high readiness forces such as the Allied Rapid Reaction Corps.



### UK MINISTRY OF DEFENCE AWARDS CONTRACT TO THALES AND SCHIEBEL FOR "EYE IN THE SKY" UNCREWED AIR SYSTEM

- Thales and Schiebel recently announced that they have been granted a contract from the United Kingdom's Ministry of Defence with the goal of delivering a rotary wing Uncrewed Air System (UAS).
- With 81,000 employees, the company strives to develop new technologies involving artificial intelligence, big data, quantum technology, connectivity and cyber security.



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## RUSSIA'S MEDVEDEV SAYS DEFENCE FACTORIES MEETING DEMAND, DENIES MISSILE SHORTAGE

- Former Russian president Dmitry Medvedev said the country's factories are working round the clock to meet an exponential increase in defence orders, mocking the idea that Moscow's forces in Ukraine were running out of missiles.
- Medvedev said Moscow had increased military production "by tens of times" at some factories and was closely studying weapons fired into Russian-held areas from the Ukrainian side in an effort to gain an advantage.
- The reality convinced them of the opposite - they still cannot get over the shock," Medvedev said in an article published on Saturday in monthly magazine National Defence.

- Medvedev is deputy chairman of Russia's Security Council and was appointed in December to be President Vladimir Putin's deputy on the Military-Industrial Commission that oversees the defence industry.
- "Incidentally, we have also studied enemy weapons quite well, which were taken as trophies and dismantled to the last screw at our military construction bureaux," Medvedev added. "

## LOCKHEED MARTIN HOPES TO DELIVER MORE F-35S TO AUSTRALIA

- Lockheed Martin Corp (LMT.N) hopes Australia wants to buy more of its F-35 fighter planes after the country completes a defence review, an executive at the U.S. manufacturer said on Tuesday.
- It had initially expressed interest in buying 100.
- And much of this build-up is opaque," Marles said.
- Australia, a staunch U.S. ally, has joined the United States in pushing back against China's growing power and influence, particularly its military buildup, pressure on Taiwan and deployments in the contested South China Sea.
- Reporting by Jamie Freed in Avalon and Renju Jose in Sydney; Editing by Chris Reese, Christopher Cushing and Gerry Doyle Our Standards: The Thomson Reuters Trust Principles.



## ESTONIA TO PROCURE €132 MILLION IN EQUIPMENT FOR THE DEFENCE LEAGUE

- Estonia is planning to procure €132 million in equipment for the country's Defence League for territorial defence over the next four years, including individual combatant load-carrying systems, night vision and thermal equipment.
- "Building the capabilities of the Defence League and increasing military territorial defence is one of the most important lessons learned from the war in Ukraine," he said. "
- The government decided to increase territorial defence in the spring of 2022, following the Russian attack on Ukraine, allocating an additional €30





### AUSTRALIA TO MANUFACTURE HIMARS MISSILES LOCALLY?

- Australia is set to buy 20 HIMARS (high mobility artillery rocket systems) plus an initial 130 rockets, with the prospect that manufacture of the missiles may eventually start in Australia.
- With a capability to be transported aboard a RAAF C-130, HIMARS will give the ADF an expeditionary capability to conduct distant "shoot and scoot" fire missions.
- As to the US agreeing to allow release of this technology, Paula Hartley, Lockheed Martin, vice-president for enterprise performance for the company's missiles and fire control division, said that was a conversation that was occurring between the US and Australia "as we speak".
- HIMARS firing GMLRS, able to strike within 1-6 metres of a target, have proved very effective in Ukraine.

### THERE IS NO REASON WHY FINLAND CANNOT SELL AMMUNITION AND HEAVY ARMAMENT TO TURKEY

- There is no reason why Finland cannot sell ammunition and heavy armament to Turkey, Defence Minister Mikko Savola said in an interview with Uusi Suomi on Sunday.
- Interviewed by Uusi Suomi on Sunday evening at the Munich Security Conference, Savola (Center) said he saw no reason why Finland could not also sell ammunition and heavy armament to Turkey.
- Approaching NATO membership seems to anticipate changes to Finland's traditionally restrained arms export policy. The minister justified January's decision by saying that through NATO membership, Turkey must be considered a future ally.



### EGYPT COUNTS ON DEFENCE SHOWS TO FETCH CUSTOMERS

- Egyptian defence companies are relying on defence exhibitions and show to corral potential customers into taking an interest in their products.
- Cairo's participation at this event highlights progress in the homegrown defence industrial complex which is now able to supply the most cutting-edge requirements to the military, thereby reducing reliance on foreign suppliers.
- Also, models of the Egyptian Temsah family of armoured vehicles exhibited at IDEX 2023 included Temsah II MRAP, Temsah III Light Armored Vehicle (LAV), and Temsah Sherpa Light Tactical Armored Vehicle (LTAV).
- Egypt also displayed an upgrade of the Sakr/BM21 Multiple Rocket Launchers (MRLS) which features adjustable rocket tubes converted into disposable canisters, as well as installing an indigenously developed fire-control system (FCS).
- Cairo has developed its local defence and security industry that produces a range of products from small arms to armoured vehicles and naval vessels.
- The biennial Expo will showcase the latest military technology, equipment and systems across land, sea and air, with over 35,000 military and defence industry visitors expected to attend on 4-7 December 2023.



### AIRBUS' DEFENCE ARM SAYS BERLIN DELAYING EXPORTS WORTH BILLIONS

- An Airbus A400M military transport aircraft of the German Air Force is pictured in the air during the ILA Berlin Air Show 2022, in Berlin, Germany June 22, 2022.
- "Several countries are interested in the (military transport plane) A400M. Unfortunately we are having difficulties to get the German export licences on time," Michael Schoellhorn told Reuters in an interview at the Munich Security Conference.
- "Our problem is that we haven't received any contracts yet from the Zeitenwende and important exports are not being approved.
- This puts us in a very unsatisfactory situation," Schoellhorn said.
- He added that the company should eventually receive partial payments that customers held back.

### MINISTRY OF DEFENCE 'NOT UP TO THE TASK' OF DELIVERING DIGITAL STRATEGY – MPS

- The Ministry of Defence (MoD) has no plan in place to deliver its transformative digital strategy, a committee of MPs has warned.
- MPs have criticised the speed of the Ministry of Defence's digital transformation.
- Published today, the report follows an inquiry into the Digital Strategy for Defence, which was unveiled in 2021 and is supposed to provide a blueprint for the way the MoD will embrace better use of data and emerging technologies in the decade to 2030.
- Defence will persistently deliver transformative digital capabilities to enable sustainable military and business advantage.
- The scale and nature of the challenge of modern warfare is accelerating away from the ministry, while it's bogged down in critical projects that are years delayed and at risk of being obsolescent on delivery," she said.



### SENEGAL AIR FORCE MODERNISATION

Senegal's modernisation has included the procurement of several new aircraft for its air force.

- Among these were four KAI KA-1S light attack aircraft, which were commissioned into service in 2020 and 2021 and have since taken part in several counter-insurgency operations in the region of Casamance, acting as reconnaissance platforms in support of Senegalese ground forces.







- However, the government highlighted the growing serviceability issues of the A319 and its rising sustainment costs in justifying its replacement.
- The remaining example is due for delivery in late 2023 and, together with the three Indonesian-made CN235-220s currently in service, should provide the air force with a transport capability it had not possessed since the early 2000s, when it still fielded six Fokker F27-400Ms.
- The training of the C295W aircrews took place at Airbus facilities in Seville.



### US, SOUTH KOREA AND JAPAN PERFORM BALLISTIC MISSILE DEFENCE EXERCISE

- The trilateral defence drill was undertaken in the Sea of Japan on 22 February.
- Besides bolstering the interoperability of the participating forces, the drill intended to strengthen the trilateral cooperation, and their commitment to uphold a free and open Indo-Pacific.
- The drill with Japan was carried out above the Sea of Japan, and saw the deployment of US Indo-Pacific Command's (INDOPACOM) F-16 fighter jets and B-1 bomber aircraft, along with the Japan Air Self-Defense Force (JASDF) B-15 fighter aircraft.
- Now the latest trilateral missile defense exercise has taken place for the first time after October 2022.

### HELICOPTERS-THERE IS NOTHING WRONG WITH TIGER AND TAIPAN THE PROBLEM IS DEFENCE LOGISTICS

- This startling conclusion is the culmination of several years of effort to find out why Australia has had disproportionate problems keeping our 22 Tiger Armed Reconnaissance Helicopters (ARH) and 47 Taipan Multi-Role Helicopters (MRH) flying.
- Just about all the blame has been heaped on the manufacturer Airbus Helicopters and both classes are being retired and replaced about 20 years ahead of schedule.
- Apache was fourth on the list after the Mangusta and the Cobra.
- However, that fell apart with the cancellation of the Seasprite project in 2008 – Defence did not cover itself in glory after spending \$1.5 billion on that failed undertaking – and that led to the subsequent selection of the MH-60R. A further claim is that other MRH customers are also unhappy, and the prime example is Norway.



- The only problem is that the Norwegians purchased the ASW version of the helicopter – the NFH90 referred to above, not the MRH – and then decided to fit their own dipping sonar and indigenous lightweight torpedo, guaranteeing that it would be a program manager's nightmare.





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## EUROPEAN DEFENCE AGENCY PLOUGHS MILLIONS INTO AUTONOMY FOR COMBAT UGVs

- The European Defence Agency (EDA) has launched its largest research and technology project to develop highly autonomous combat UGVs.
- These modules will be integrated into Milrem Robotics' TheMIS, Rheinmetall's Wiesel and larger vehicles, including Milrem's Type X, the Iveco Lince 2 VTLM and the Patria AMV.
- The five platforms will be adapted in parallel with the development of the modules.
- Other partners include Belgium, Germany, Estonia, Finland, France, the Netherlands, Poland and Norway.
- Leonardo will head up the industrial consortium.

## LOSSES TO RUSSIAN MILITARY POWER, 7% RISE IN CHINA'S DEFENCE SPENDING IN 2022

- Russia has suffered significant losses in its military power since its invasion of Ukraine, while Kyiv is scrambling to offset the hit its airpower has taken in the last one year, according to data by a think tank.
- Further, China's increase in defence spending for 2022 is its largest increase in absolute terms.
- The Military Balance is the annual assessment of global military capabilities and defence economics from the IISS.
- Also Read: Four implications of a Russian defeat in Ukraine—one affects India the most Effects of Russia's war in Ukraine Russia has suffered major losses in personnel as a consequence of the war.
- According to the Military Balance, Russia has offset losses in personnel through mobilisation.
- To counter China, the Military Balance 2023 said that "Japan is planning to boost its military capability with additional investments and new partnerships, including with the United Kingdom; and Australia continues to work with the UK and the US on its plans to introduce a nuclear-powered submarine capability."







# #1

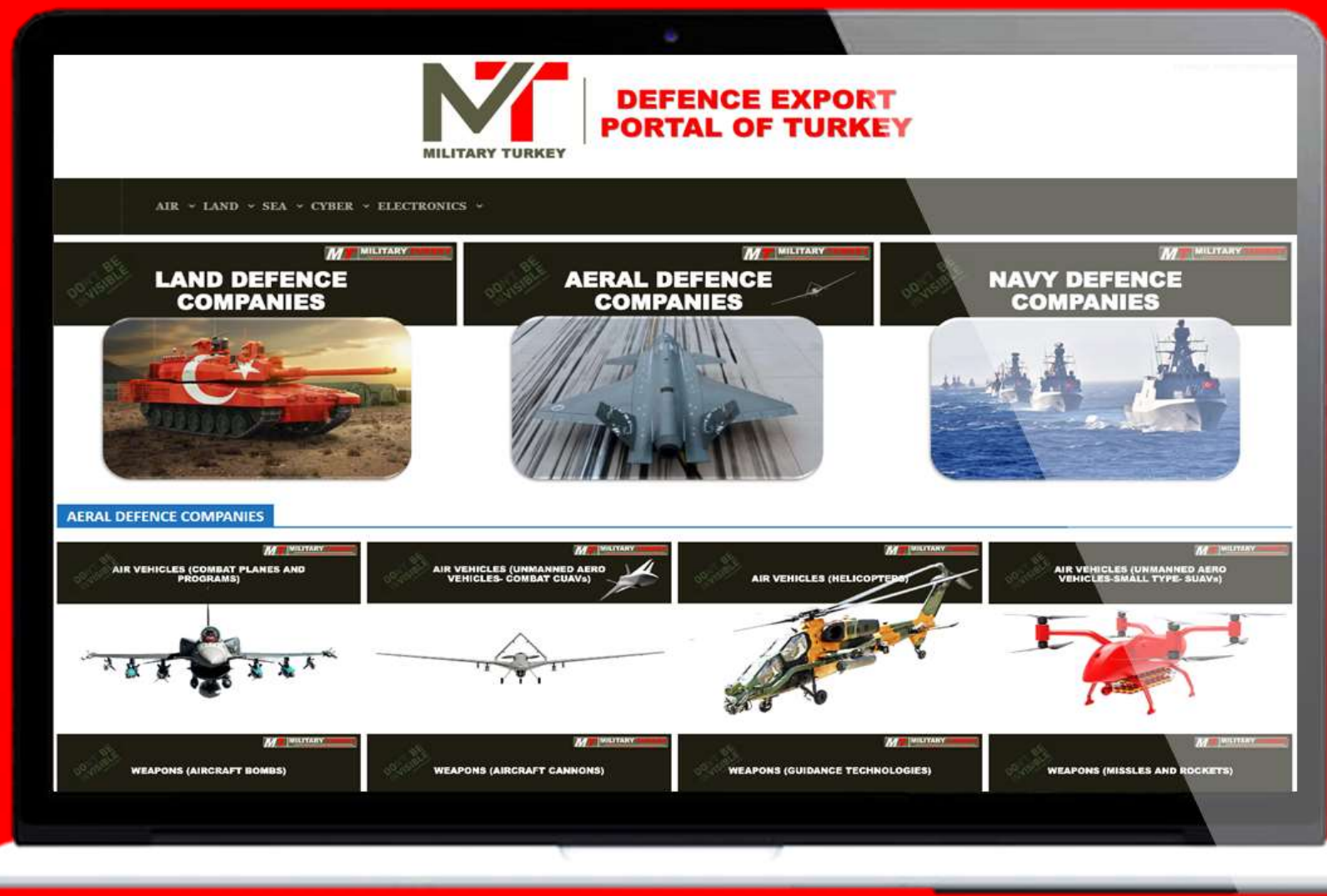
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