

Types of Equipment Used in Military Fields

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Abstract: There is some military equipment information in this article. There is a list of some of them along with a description of their unique qualities and applications.

Keywords: military equipment, tanks and armored vehicles, military aircraft, military naval equipment.

INTRODUCTION

Devices and equipment created and/or intended for use in warfare are referred to as military equipment. This can include tools of war, automobiles, radios, safety gear, and more. Military hardware is crucial in both peacetime and conflict situations. Because without military hardware, no nation can preserve its security in the modern day. As new discoveries are discovered in a variety of disciplines, including computer science, electronics, materials science, and engineering, military technology is always changing. As a result, there is an increase in the variety of equipment utilized in the military. Now let's introduce ourselves to a few of their groups.

The first and the most used are ground military equipment. Techniques of this type are also divided into several subgroups:

- Armoured cars and tanks. Military tanks are large, heavily armed combat vehicles that are employed in ground combat. They are made to protect the personnel within and are typically armed with powerful weapons. Tanks are an essential part of many contemporary military formations and can be utilized in both offensive and defensive operations.
- Artillery. Large-caliber weapons like mortars, howitzers, and cannons that are intended to fire long-range projectiles are referred to as artillery in general. These weapons are frequently employed to attack entrenched positions or to support ground forces with fire.
- Equipment for infantry. Numerous items, including as helmets, body armor, weapons, ammunition, communications equipment, first aid kits, and other tactical gear, might be included in an infantryman's equipment. Depending on the infantry's function, the operating environment, and the objectives of the mission, different equipment may be needed.

Military technology deployed from the air is the second kind. This category include unmanned aerial vehicles (UAVs), bombers, and fighter jets.

- High-performance military aircraft, fighter jets are mostly made for air-to-air combat with other aircraft. They have strong engines, cutting-edge avionics, and armaments including bombs, cannons, and missiles.

Fighter planes can outmaneuver and engage opposing aircraft in dogfights because of their great speeds, agility, and maneuverability. They are also employed in missions including interception, ground assault, and reconnaissance.

In contemporary combat, fighter planes are essential for establishing air superiority and shielding ground forces. To stay up with the ever-changing threats in the contemporary battlefield, they undergo continuous upgrades and modernization.

- Bombers are aircraft intended for strategic bombing operations and long-range attacks.
- Drones, also referred to as unmanned aerial vehicles (UAVs), are aircraft that are flown without a human pilot present. With the use of GPS, onboard sensors, or pre-programmed flight routes, they can be piloted remotely or independently.

UAVs are used in many different fields, such as agriculture, aerial photography and cinematography, disaster response and management, animal and habitat monitoring, military surveillance and reconnaissance, and package delivery.

Unmanned Aerial Vehicles (UAVs) come in a variety of sizes and shapes, from tiny recreational drones to massive military drones that can conduct extended missions. Their dimensions, forms, and functionalities might differ, and some are outfitted with sensors, cameras, and other payloads for particular purposes.

Improvements in autonomy, payload capacity, range, and battery life are all part of the ongoing evolution of UAV technology. But there are also worries about safety, privacy, and regulations related to drone use, especially in populous areas or close to airports.

In general, unmanned aerial vehicles (UAVs) possess the capacity to transform businesses and enhance efficacy and security in diverse uses; nonetheless, continued investigation and advancement are imperative to tackle obstacles and alleviate hazards related to their deployment.

Military technology for the navy is the third kind. The term "naval technology" refers to a broad category of tools, machinery, and systems that are employed by navies worldwide. For naval warfare and maritime security, this includes ships, submarines, naval planes, missiles, torpedoes, and other cutting-edge technology. Aircraft carriers, destroyers, frigates, nuclear submarines, anti-ship missiles, naval radars, and communications systems are a few instances of naval technology. In order to preserve naval superiority, project power, and defend national interests at sea, these technologies are essential.

- Large battleships having flight decks for taking off and landing aircraft are known as aircraft carriers. Due to their ability to serve as a mobile air base for air operations at sea, they are essential to modern naval warfare. Fighter, reconnaissance, and support aircraft are just a few of the fixed-wing aircraft that can be transported on aircraft carriers. In naval operations, these vessels are vital for both force protection and power projection.
- Destroyers are a class of warship with a strong weaponry, agility, and speed. They are frequently employed in anti-submarine warfare, tracking big ships, and offensive and defensive maritime operations.
- Compared to traditional battleships, frigates are speedier and smaller naval units. They are utilized for surface combat, anti-submarine warfare, tracking and protecting other ships, and offensive and defensive maneuvers. Frigates are a vital component of the Navy, offering adaptability and agility in a range of military operations.
- Guided missiles intended to target and destroy ships or other naval vessels are known as anti-ship missiles. To engage and eliminate enemy ships, they can cover great distances at high speeds and are typically outfitted with advanced guidance systems. These missiles are a vital part of many nations' naval defense plans and play a significant role in contemporary naval warfare.

- A ship's operational and defensive capacities greatly depend on its marine radar and communication systems. Naval radars are used for navigation and situational awareness, as well as for the detection and tracking of objects, such as ships, planes, and missiles. Coordination and decision-making are made easier by the information that ships may exchange via communication systems with other ships, airplanes, and command centers. These systems offer secure and dependable communications as well as radar capabilities to assist maritime activities, and they are built to withstand the rigors of the sea.
- Submarines: submersible vehicles built for stealthy tasks like surveillance and strategic missile firing.
- Warships: Surface battle ships of all shapes and sizes that are outfitted with armaments and defense mechanisms fall under this category.

The fourth type is technologies based on cyber and information warfare:

- Cyber warfare tools: This includes malware, hacking techniques, and electronic warfare systems used to disrupt or disable enemy computer systems.
- Communication and intelligence systems: technologies used for secure communication and intelligence gathering from various sources.

Military technology in space is the fifth category. A vast array of tools and systems for both national security and defense are part of space-based military technology. These consist of early warning and missile defense, satellite communications, navigation and targeting systems, intelligence and surveillance, and space situational awareness.

Satellites offer secure communications capabilities to military leaders and troops deployed in the field, along with real-time intelligence, surveillance, and reconnaissance, satellites are indispensable to military operations. Furthermore, space assets are utilized to track and monitor prospective missile launches and to warn of ballistic missile threats in advance.

The creation of anti-satellite armaments and defense systems against possible threats is another example of space-based military technology. Enhancing space situational awareness and space traffic control are becoming crucial components of space military technology as space gets more crowded and disputed.

Space-based military technology generally contributes significantly to contemporary defense plans and gives armed forces a considerable advantage in terms of communications, intelligence collection, navigation, and monitoring.

In summary, it can be concluded that it will continue to play a significant role in the area of international security and defense. The advancement of military technology gives the armed services more power, more effectiveness, and fewer casualties overall. But it's important to acknowledge that there are moral and tactical issues surrounding the creation and application of military technology. Leaders in the military, decision-makers in government, and scholars in the field must carefully weigh the possible advantages of new technology developments against their possible drawbacks and hazards as we proceed. When applied sensibly and morally, military technology can help maintain security and stability in a world that is always changing.

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