



# SECURITY ENFORCER

AS WE LIVE UP TO OUR RESPONSIBILITIES.



RHEINMETALL DEFENCE

# THE SECURITY PROMISE FOR A WORLD WITH LESS AND LESS SECURITY.

Political certainties and boundaries disappear into thin air in an amazingly short period of time. It is not even possible to approximately estimate the global effects of climate change, the consequences of urbanisation and demographic development. If we take this initial situation and also consider the fact that rapid technological development – in addition to the existing threat scenarios – is making cyber attacks, drone attacks and new forms of terrorism possible, it becomes clear just how great the current demands are in terms of security.

In order to be able to guarantee security and protection in the world of the future, we need the expertise and energy of a group that, with a successful past in the development of defence and security technology, already has these dangers in mind. In line with changing realities, we see it as our greatest challenge and responsibility to develop pioneering products and systems that are a decisive step ahead of real and future threats.



FUTURE CHALLENGE – DRONE DEFENCE

# MAINTAIN CONTROL WHERE THERE IS A RISK OF LOSING CONTROL.

Not only do they have a lot of dangerous potential, they also multiply rapidly: we are of course talking about drones, also called UAVs (Unmanned Aerial Vehicles). In 2016 alone, more than 10 million were sold worldwide – and the figure is now expected to be 6 times as high. Besides many useful practical applications, they are predestined for criminal abuse or terrorist attacks. Not only do they pose a threat to air traffic, they can also be used for carrying out terrorist attacks on stadiums or other major events.

This problem is not made any easier by the fact that drone performance is improving. And in contrast to airplanes and helicopters, they are currently able to completely elude the radar systems of German air traffic control. Admittedly, this all sounds rather dramatic. However, the comforting news is that drone detection is part of Rheinmetall's standard know-how, especially based on our experience in military air defence.

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## Our answer to the many different threat scenarios: a modular toolbox for drone defence

Military and civilian threat scenarios are increasingly merging. Thanks to its many years of experience in close-range military defence, Rheinmetall is able to offer a variety of countermeasures, including for civilian use, especially in the field of drone defence. This works on the basis of a simple, modular competence scheme: Sense – Decide – Act. Thanks to this toolbox, Rheinmetall Air Defence as a centre of competence is able to offer a feasible solution to this growing threat for every budget and every requirement.

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FUTURE CHALLENGE – MAIN GROUND COMBAT SYSTEM

## MAKING A STRONG STATEMENT WHERE ABSOLUTE STRENGTH IS REQUIRED.

For Germany and France, the Main Ground Combat System (MGCS) is both a declaration of intent and a self-confident political statement – with the important aim of strengthening national and alliance defence. It has been one of our greatest challenges and opportunities over the past few decades. In concrete terms, this ambitious armament project is about developing the successor to the Leopard 2. MGCS goes far beyond what has so far been understood as a main battle tank. MGCS is designed as

a military game changer – as an assertive and sustainable system in which unmanned and manned systems will interact. This means robotics will play a crucial role, as will superior weapons such as high-speed missiles and a unique 130 mm weapon system. From a pan-European perspective, a unified combat system is a decisive step forward in the EU's plan to develop Europe in terms of the military in such a way that it can stand up for its own security. We are working on this with all our expertise.



FUTURE CHALLENGE – ROBOTICS

# SITTING AT THE STEERING WHEEL WHERE NO ONE IS ACTUALLY AT THE WHEEL.

Autonomous driving is on everyone's lips in the civil sector. But while development, testing and trials are still being carried out in that sector, we already have unmanned vehicles – and this had been going quite successfully too. The best example is the networkable, autonomous robot platform Mission Master UGV. As a multi-purpose unmanned ground vehicle, this platform enables different mission profiles, ranging from transport tasks to the protection of operational forces and surveillance tasks.

Adaptable and modular throughout, the Mission Master can also be equipped with various subsystems. This means it can not only be used in areas that are difficult to access, but also offers protection and security to motorised and non-motorised forces, increases their effectiveness and keeps them away from danger. It's perfect, because this makes it ideal for scenarios that will become more and more demanding, more complex and less and less calculable in advance.



THREE STRONG DIVISIONS

# MOVE, SENSE, STRIKE. SO THAT THE DESIRE FOR SECURITY BECOMES REAL SECURITY.

We have shown many times over that in the present we are already working on the future of security. It is the way in which we organise ourselves that means we can do this in a unique way. The structure of the Rheinmetall Defence sector follows a logic that only has one goal: to supply uncompromisingly defensive systems for all possible scenarios. The breakdown into the three divisions of Vehicle Systems, Electronic Solutions and Weapon and Ammunition provides the decisive prerequisite for being able to implement the Move, Sense and Strike capabilities in line with scenarios and with unparalleled sovereignty. And this is modular, tailor-made and highly flexible across the entire range of services.

Only in this way is Rheinmetall in a position to respond quickly and effectively in times of ever faster changing realities to initiate developments that meet current and future security requirements. Thanks to system solutions deployed worldwide and a broad product range for mobility, reconnaissance, command, effect and protection capabilities, the Defence sector is the leading supplier to the international armed forces.



VEHICLE SYSTEMS

# MOBILITY SO FLEXIBLE THAT ANY FORM OF MOVEMENT ON THE GROUND IS POSSIBLE.



The complex demands placed on modern military vehicle systems today can only be met with consistently modular vehicle families that are therefore capable of multiple missions. They must always be both flexible enough to provide answers to future challenges and also well thought-out enough to enable integrated system logistics. Only in this way can fundamentally different requirements be reconciled. After all, a multitude of competencies are in demand: Protection against new types of threats, the ability to be deployed in remote areas, extreme off-road capability, high payload and effective weaponry. We manage to put together compositions that are almost impossible, also thanks to a product range that hardly any other manufacturer of military vehicles can offer.

## ELECTRONIC SOLUTIONS

# SHARPEN, EXPAND AND EMPOWER THE SENSES IN SUCH A WAY THAT NO SECURITY GAP REMAINS.

As in almost all areas of life, information and its availability is the decisive factor for successful action – this is particularly true in the military context. Thanks to new technologies, the quality of information is becoming the determining factor in every military operation and information superiority a key element for operational success. The networking of functional chains is also becoming increasingly important in the global fight against crime and terrorism.

Thanks to our broad technology base in defence electronics, we have the right solutions for all these requirements. Our product spectrum ranges from reconnaissance, fire control and command systems to drone systems for various applications. Always with the possibility of integration into an environment based on the information technology networking of platforms, individual soldiers or military units.



### C4I systems

C4I (Command, Control, Computers, Communications, Information) stands for a network of the functional chain of command, reconnaissance, situation assessment and impact. The goal: an optimal situation report.

### Electro-optics

Our portfolio consists of an innovative range of state-of-the-art electro-optical equipment. Decisive for the areas of observation and fire control, infantry equipment, sensors.

### Simulation

The effective and safe operation of high-tech systems requires well-trained people. Our simulation and training systems offer a wide range of training solutions for both military and civil users.

WEAPON AND AMMUNITION

# HAVE POWERFUL OPTIONS FOR ACTION WHEN PEACE AND FREEDOM ARE UNDER THREAT.

Security has many facets. We cover the decisive ones through our three divisions. Firstly, to secure the sovereignty of information. Secondly, to ensure the ability to move freely under all conditions and, thirdly, to respond effectively when important social values, national borders or public security are severely threatened. Our Weapon and Ammunition division stands for this response capacity.

Not only have we been international technology leaders in this specific sector for decades, but thanks to this experience we are also experts when it comes to mastering the entire system. Only the highly complex combination of gun, ammunition, charge and fuse technology enables a precision and effect that is unequalled internationally. Our product range is similarly impressive – in the medium and large calibre range, it extends from electronically programmed medium-calibre ammunition to seeker-fused ammunition for artillery. It also includes propulsion systems, such as artillery and mortar charges, propellant powders and combustible mouldings.

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#### Technological highlights

Outstanding technological achievements include the weapons system for the world's most powerful main battle tank, the Leopard 2, the Panzerhaubitze 2000 artillery system and new long-range ammunition types. With them, we are internationally recognised as one of the most innovative and efficient companies in the field of army equipment.

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THIS IS US

# FORCE PROTECTION IS OUR MISSION.

Our expertise, knowledge and success story in the field of security and defence technology has an unshakable foundation: we are part of the Rheinmetall Group. As an integrated technology group, it stands for a substantial, internationally successful company with two main pillars: environmentally friendly mobility and threat-based security technology. Our employees guarantee that our promise of security is more than just a promise.

The Group's Defence sector, as an in-demand and leading European systems supplier for defence and security technology, is a reliable partner of the armed forces. It is part of our claim to constantly set new technical standards: from vehicle, protection and weapon systems, infantry equipment and air defence, to the networking of functional chains and the fields of electro-optics and simulation. High-tech to protect soldiers in action – that is the mission of Rheinmetall Defence.



RHEINMETALL INTERNATIONAL

# GLOBALLY POSITIONED, FOR A NEED THAT IS IN DEMAND WORLDWIDE: SECURITY.

We are aware of the crucial role and the responsibility that our products play in the defence, protection and security of our customers. This alone has always made us more of a partner than a mere supplier of military equipment. We support our customers throughout the entire life cycle of our defence systems. This means that we are directly on site to ensure short distances. Accordingly, strategic partnerships with local companies are an essential component in the development and manufacture of military equipment. Within this framework we actively promote and seek cooperation with

local companies. In this way, we contribute to the promotion of local value creation. This is the only way we can meet the high expectations placed in us in a long-term, competent and reliable manner. Better yet: Our international presence provides us with the necessary insight into the different security requirements worldwide and thus guarantees our customers to have a partner in us who knows the different global threat scenarios first-hand.

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## Rheinmetall Defence operates internationally.

The group of companies has subsidiaries in Europe, North America, South Africa, Asia and Australia and controls a dense network of branches and agencies worldwide. Besides equipping the German armed forces as reference customer and most important partner, Rheinmetall Defence today realises more than 60 percent of its order volume with foreign customers.

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RHEINMETALL AS AN EMPLOYER

# A MULTITUDE OF EXCITING CAREER OPPORTUNITIES.



The guarantee of stability and security in the context of global change is the key challenge for us. As a technology group whose products make a significant contribution to better protecting those who protect us and which, at the same time, has advanced technology to counter future threats, we are looking for people who are enthusiastic about working on our security promise. Employees who work with us at the intersection of leading edge technology and social responsibility to develop solutions for a safe world tomorrow.

[www.rheinmetall.com/en/rheinmetall\\_ag/career\\_1](http://www.rheinmetall.com/en/rheinmetall_ag/career_1)



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