

Nammo

COST EFFECTIVE AND ENVIRONMENTALLY RESPONSIBLE
DEMILITARIZATION



REDEFINING DEMILITARIZATION

THE NAMMO GROUP BELIEVES IN SAFE AND SECURE DEMILITARIZATION WITH A FOCUS ON ENVIRONMENTALLY RESPONSIBLE PROCESSES AND PRODUCTION CAPABILITIES.

The market demand for the demilitarization of obsolete or outdated munitions within defense communities has steadily increased over the last 20 years. It has been supported by recent global legislation such as the Oslo Convention, which prohibits the use, production, transfer and stockpiling of cluster munitions, and the similar Ottawa Convention that focused on anti-personnel mines. Under these agreements, governments have agreed to destroy existing stockpiles of the weaponry within pre-agreed timeframes.

With over 40 years of industry experience, we have evolved and fine-tuned our engineering and production methods to exceed the highest standards of safety legislation and environmental consideration within our demilitarization processes.

We offer a complete demil service including sea or road transportation, secure storage, controlled demilitarization and full recycling. With multiple facilities and supporting logistics teams in locations across Europe, we have the capacity and specialist experience to solve any demilitarization challenge.

DRIVING INNOVATION

We strive to develop better processes, always seeking innovative solutions to the complex challenges of today. We achieve this through investment in research and development, ensuring we are constantly at the forefront of demilitarization capabilities and technological advances.

Our demilitarization abilities span from small caliber conventional munitions, right through to highly complex cluster ammunition, aircraft bombs and missile systems.





WE CAN RECYCLE
NEARLY 100% OF
ALL COMPONENTS
WE HANDLE

ENVIRONMENTAL COMMITMENT

Nammo's Demilitarization Division plays a vital role in limiting the environmental and safety impact of outdated or obsolete munitions. Depending on customer requirements and the type of demilitarization project, we have the ability to recycle nearly 100% of all components we handle. In addition, our sites meet and exceed all local and international environmental laws and all sites prohibit any open burning or open detonation.

CUSTOMER FOCUSED

Our production facilities offer exceptional demilitarization solutions, and utilize a vast array of technologies. This means we're always best placed to meet customer requirements – whatever they are. Additionally, we can offer customers multiple processes on different sites, which is especially helpful when project lead times are short or programs are required urgently.

OUR PROCESSES

OUR PROCESSES ARE CONSTANTLY EVOLVING – HELPING US TO COPE WITH THE HUGE VARIETY OF MUNITIONS WE DEMILITARIZE EVERY YEAR.



CLUSTER MUNITIONS

The demilitarization of cluster munitions is challenging – due to safety issues and quantity of sub-munitions. Consequently, we have developed fully automated high speed processes in an explosion-safe environment dedicated to these tasks. To date, millions of sub-munitions have been disposed of from customers the world over.

HIGH SPEED DISASSEMBLY

For projects with high volumes of product for demil, Nammo designs and builds operating lines and machinery in-house. As far as possible, the machinery automatically disassembles and separates different components including explosives and fuzes.



UNDERGROUND DETONATION

Our unique facilities allow us to detonate explosive components in chambers more than 900 meters underground. This closed detonation process ensures the complete disposal of objects and packaging if necessary.

ROCKET MOTOR WASH-OUT

Our internally designed water wash-out system ensures that we can quickly and safely extract high volumes of missile/rocket propellant from the motor case before sending it for recycling or incineration.

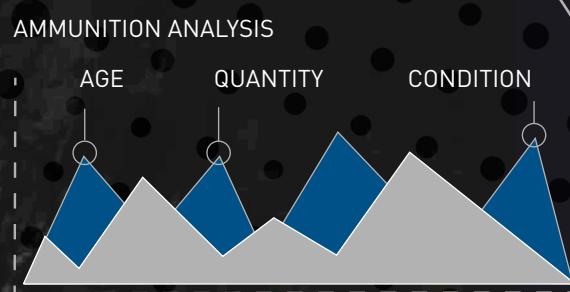
DEMILITARIZATION IN PRACTICE

We approach each demilitarization project in a similar way. Our efficient, safe and precise processes utilize both manual and automated procedures to achieve accurate results.

Our expert teams work with customers to deliver contracts on time and on budget. The process typically consists of four stages.

1 NEEDS, ANALYSIS AND REVIEW

First, we consider the ammunition or product type and its current location – specifically the quantity, age and condition. We then select an appropriate Nammo site or sites to ensure the most efficient solution for the customer. The ammunition's hazard class can then be established, along with a UN classification number. Finally we estimate a projected timescale.



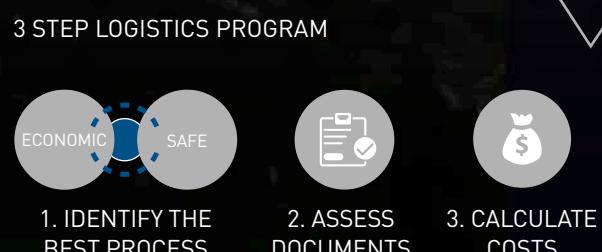
2 RESOURCES, RECOVERY AND RECYCLING

After understanding customer requirements, we employ our R3 principles (Resources, Recovery and Recycling) to identify ways of delivering the most cost-effective methods to the customer. Risk analysis and calculation of costs are then completed.



3 LOGISTICS PLANNING

From preparing packaging plans to designating storage capacity, we use the most economical and safe methods possible when planning logistics. Once the most appropriate processes have been identified, we assess documentation required, e.g. UN classification numbers, export/import licenses, and then calculate costs.



4 OFFER SUBMITTED AND ACCEPTED

Once an offer has been accepted, we draw up contract terms and we assign a project team who will then deliver the demilitarization – always to the timeframe and cost agreed. Once all munitions have been demilitarized, the customer is issued with a Certificate of Destruction (CoD).



WHERE WE OPERATE

WITH OPERATIONAL FACILITIES ACROSS EUROPE, FULLY CAPABLE OF HANDLING MOST TYPES OF CONVENTIONAL MUNITIONS, WE ARE WELL PLACED TO MEET ANY DEMILITARIZATION CHALLENGE.



NAMMO BUCK GMBH, PINNOW, GERMANY

Since 1991, Nammo Buck has dismantled, demilitarized, disposed of or recycled a range of munitions, including missiles, rockets, mines, hand grenades, detonators and pyrotechnical materials. At the heart of our ammunition disposal capability are automated processing lines with thermal treatment and pollution abatement systems. This offers customers safe and secure disposal of energetic materials.



NAMMO VINGÅKERSVERKEN AB, VINGÅKER, SWEDEN

Nammo Vingåkersverken AB has been engaged in demilitarization of ammunition for more than 40 years. Operations were started in the early 1970s and have grown to become the main activity in this location. The processes on site are tailored for the highest possible recycling level, with multiple methods and techniques allowing safe extraction of explosives of all types.





NAMMO HAS
VAST EXPERIENCE,
INDUSTRY EXPERTISE
AND SITE CAPACITY

NAMMO NAD AS, LØKKEN VERK, NORWAY

This site offers controlled underground detonations that supplement existing demilitarization methods at Nammo. Explosive products are demolished by detonation in chambers more than 900 meters underground. This site is unique, and is a major benefit to customers that request zero disassembly for safety or security reasons.

DIVISION

MANAGEMENT

Vingåkersverken
SE-643 92 Vingåker
Sweden
+46 151 19500



demil@nammo.com
www.nammo.com

SWEDEN

Nammo
Vingåkersverken AB
SE-643 92 Vingåker
Sweden
+46 151 19500

GERMANY

Nammo Buck GmbH
Industrie und Gewerbegebiet 1
DE-16278 Pinnow
Germany
+49 33335 46 421

NORWAY

Nammo NAD AS
Moshaugan 6 NO-7332
Løkken Verk
Norway
+47 72 49 70 80

