

NoroGard • **westrup**

SEED TREATERS
SOPHISTICATED TREATMENT SOLUTIONS



NOROGARD X WESTRUP SEED TREATMENT

In the ever-evolving world of seed and grain, stability and adaptability are paramount. Norogard X Westrup is here to empower your business with over 60 years of combined expertise and innovation.

NoroGard's journey began in Sweden in 1965, where they pioneered the development and production of high-quality Seed Treatment Equipment. This legacy of excellence was seamlessly integrated into Westrup ApS in 2022, creating a powerful fusion of knowledge and experience.

BUILT TO LAST, PROVEN IN THE FIELD

Norogard X Westrup Seed Treaters are renowned for their exceptional reliability and longevity. These machines have been rigorously tested in diverse operating conditions and across various crops for decades, ensuring they can withstand the challenges of real-world use.

The unique dosage systems, equipped with proprietary pumps and flow meters, deliver unparalleled application accuracy and dependability.

We understand that every customer is unique, so we prioritize personalized service and customization to create tailored solutions that meet your specific needs.

Norogard X Westrup proudly serves customers worldwide with comprehensive support. Our commitment to your success extends beyond the sale, ensuring you have access to expert assistance and readily available spare parts whenever you need them.

CHOOSE NOROGARD X WESTRUP FOR:

> TIME-TESTED RELIABILITY

Seed treaters built to last over 20 years, backed by decades of field experience.

> PRECISION APPLICATION

Unique dosage systems for optimal treatment quality.

> PERSONALIZED SOLUTIONS

Tailored to your specific requirements.

> GLOBAL SUPPORT

Expert assistance and readily available spare parts.



Presenninger
i højeste
kvalitet til
ethvert formål

Tlf.: 57 67 40 57 | west@west-presenning.dk
www.west-presenning.dk

> A WORD FROM OUR CEO

In 2022, Westrup expanded its portfolio by taking over the production and service of NoroGard Seed Treaters, allowing Westrup to offer our customers a full range of products for the post-harvest industry.

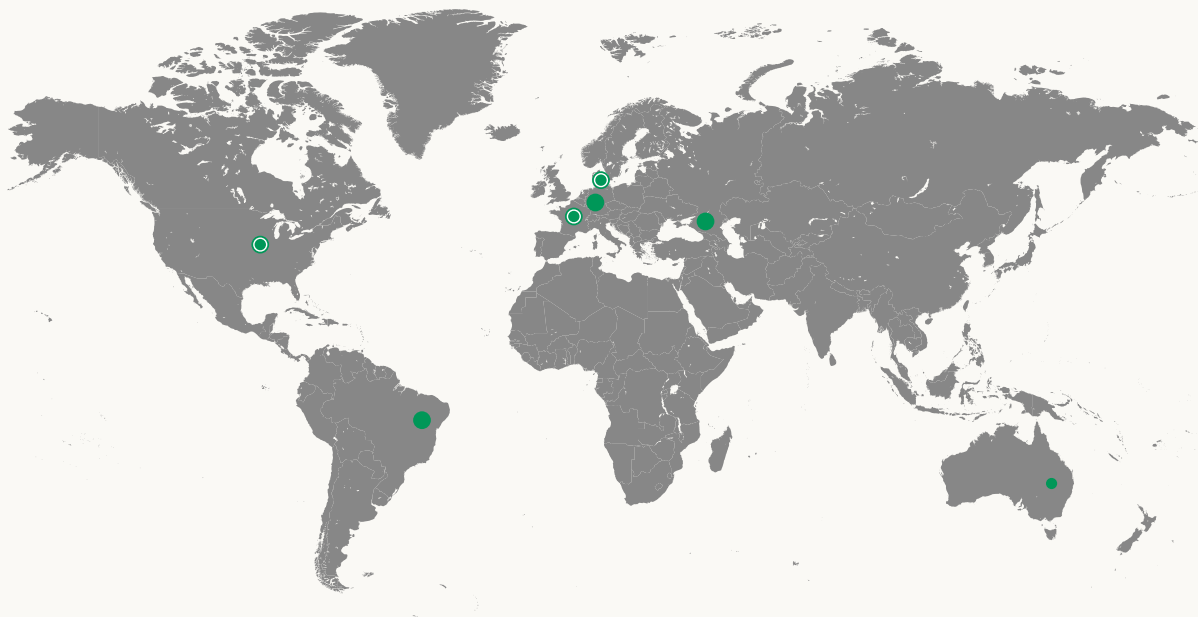


LOCAL ROOTS, GLOBAL REACH

From our base in Denmark, we serve the global market with 100% Danish products. Our principal markets are Scandinavia, Germany, France, and the US, but our products are used in all corners of the world – from Russia to Australia and from Brazil to Kazakhstan.

WESTRUP WORLDWIDE

Our machines are operating in more than 150 countries around the globe.



Westrup office



Westrup office and test center



Crocus designs and produces custom-built solutions for grain handling.

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Tlf.: 87 95 93 00 | crocus@crocus.dk | www.crocus.dk

HIGH-VOLUME SEED TREATMENT

CONTINUOUS SEED TREATERS

Optimize your seed-treatment process with NoroGard x Westrup Continuous Seed Treaters. Designed for high-volume operations, our continuous treaters deliver precise and uniform application of seed treatments, ensuring consistent results and maximizing seed potential.

> **HIGH APPLICATION QUALITY**

Precise construction guarantees even distribution of treatments, ensuring every seed receives optimal coverage.

> **ACCURATE DOSAGE RATE**

Advanced dosing systems and continuous monitoring maintain accurate dosage rates, minimizing waste and reducing costs.

> **EASY OPERATION**

User-friendly PLC systems simplify operation and monitoring, enabling seamless integration into your workflow.

> **VERSATILE SOLUTIONS**

Our diverse range of continuous treaters caters to various capacities and product types, providing tailored solutions for your specific needs.

> **PROVEN RELIABILITY**

Engineered for demanding tasks, our treaters deliver reliable performance and durability, minimizing downtime and maximizing productivity.



COMPLEX TREATMENT NEEDS

BATCH SEED TREATERS

Unlock the full potential of your seed treatment capabilities with NoroGard x Westrup Batch Seed Treaters. Designed for versatility and precision, our batch treaters offer a comprehensive range of functions, including pelleting, coating, incrustation, and dressing to meet your unique requirements.

> FLEXIBLE TREATMENT OPTIONS

Accommodate a variety of seed types and treatment formulations, allowing you to customize your process for optimal results.

> RECIPE-HANDLING SYSTEM

Streamline your operations with automated recipe management, capable of encoding up to 99 different recipes for easy operations. Our precise dosing systems ensure consistent and reproducible results every time.

> HIGH APPLICATION QUALITY

Achieve superior treatment quality with precise control over mixing, coating.

> USER-FRIENDLY OPERATION

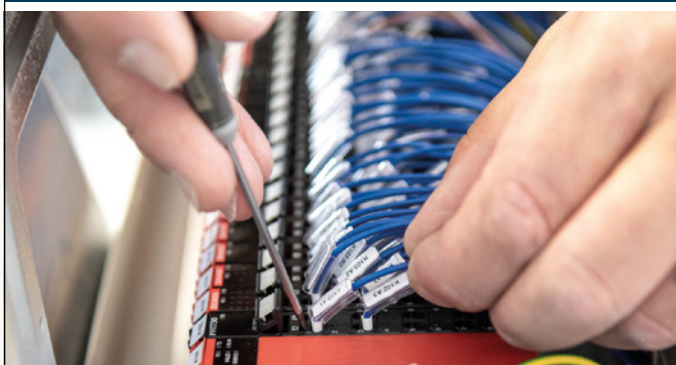
Intuitive controls and automated features simplify operation and reduce labor requirements.

> RELIABLE PERFORMANCE

Built with durable components and advanced technology, our batch treaters deliver reliable performance and long-lasting value.



AD Control ApS
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PRECISE, EFFICIENT, AND RELIABLE **SEED TREATMENT**

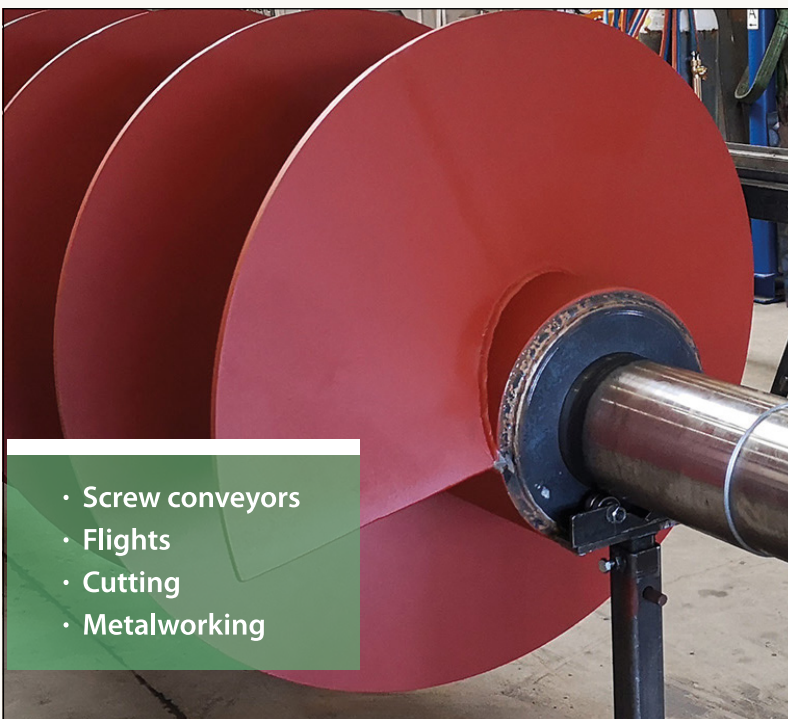
NoroGard x Westrup Seed Treaters work by precisely metering seeds and applying treatment solutions in a controlled environment.

NoroGard x Westrup Seed Treaters offer highly accurate dosing of treatment solutions, allowing a relatively small amount of chemical to treat a large number of seeds or grains. Unlike most other seed treatment machines on the market, the dosing penetrates from the outside in, ensuring thorough coverage.

For continuous seed treaters, seeds flow steadily through the machine, where they are evenly coated with treatment solutions using atomizers or other applicators. The treated seeds are then gently mixed to ensure uniform coverage and dried if necessary.

In batch seed treaters, a pre-measured portion of seeds is loaded into the machine, and the treatment solutions are thoroughly mixed with the seeds. The treated seeds are then dried and discharged for further processing or packaging.

Both types of seed treaters are equipped with advanced control systems to ensure accurate dosing, efficient mixing, and optimal treatment conditions. These machines are safe to operate, easy to clean at the end of the day, and easy to handle. They offer easy access to all necessary parts, making it simple to prepare for the next day's treatment with just a few steps.



- Screw conveyors
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HIGH-QUALITY SEED TREATMENT FOR LOW CAPACITIES

LABORATORY MACHINES

With capacities from 40 to 3000 ml the NoroGard Laboratory Seed Treaters are designed for complex treatment to meet high demands regarding application quality, reliability, operator safety and economy. Suited for use in the laboratory on a wide variety of applications.

> **VERSATILE TREATMENT**

The laboratory seed treaters are designed for treating a wide range of seeds with a range of products, formulated as liquids, powders, flowables, slurries, gels, etc. It treats in batches up to 3000 ml.

> **ADJUSTABLE APPLICATION**

The application time varies depending on the amount of product that is to be applied and the type of seed to be treated.

> **EASY CLEANING**

The laboratory machines are provided with features to make the cleaning process effortless. The use of air pressure is optional for each use, based on the type of seed treated at the time.

> **HIGH ACCURACY AND QUALITY**

The accuracy and quality is as good as on the larger NoroGard machines with a focus on small batches and precise dosage.



THE ADVANTAGES OF SEED TREATMENT

A seed treater is used to give the seeds a high germination rate when sown out. It protects the seed from diseases, keeps any added fertilizer or pesticide on the seed, makes it visually easy to see when spreading, and most importantly, seed treatment prolongs the lifespan of the seed.

The seed treatment process involves precisely applying pesticides directly onto crop seeds to effectively protect them from pests and diseases during their early growth stage. This targeted approach is crucial for safeguarding the seeds and seedlings at the most most vulnerable stage.

By utilizing these protective substances, we can reliably prevent diseases that could hinder crop establishment and significantly reduce the impact of soil-dwelling pests. Proactively addressing these

challenges drastically decreases the likelihood of needing to replant. In contrast, the application of fungicides or insecticides during the initial growth phase is notably less effective than seed treatments, as sprays generally lack the same level of precision.

Therefore, seed treatment stands out as one of the most advanced and reliable crop protection technologies available today.



HIGH-CAPACITY RECYCLING EQUIPMENT SOLUTIONS!

- Tyre Recycling
- Aluminium Recycling
- Cable Recycling
- Electronics Recycling
- MSW Recycling
- Fridge Recycling
- ASR Recycling
- Various Scrap
- Car Battery Recycling
- Conveyor Belt Recycling
- Solar Panel Recycling
- ***NEWS*** Optical Sorting ***NEWS***

INTRODUCING



MPS - Multi Purpose Sorter

- Intelligence & Artificial Vision
- Data analysis, IoT & Automation
- State-of-the-art NIR technology



SPS - Small Purpose Sorter

- High-resolution camera
- State-of-the-art NIR technology
- Exceptional separation ratios

FROM PRE-CLEANING TO DRYING

SEED PROCESSING

Each step in the seed-processing flow is essential for producing high-quality seeds that will yield healthy and productive crops. The use of seed treaters in the seed treating process step plays a crucial role in protecting seeds and maximizing their potential for growth.

HARVESTING AND RECEIVING

Seeds are harvested from the field and transported to the processing facility. Upon arrival, they are weighed and assessed for initial quality.

CLEANING AND GRADING

Seeds are passed through various cleaning equipment like air screen cleaners and gravity separators to remove smaller impurities, weed seeds, and other unwanted materials. Grading then separates seeds based on size and density, ensuring uniformity.

BAGGING AND STORAGE

Treated seeds are packed into bags or containers and stored under controlled conditions to maintain quality and viability until they are ready for planting.

DISTRIBUTION AND PLANTING

The processed and treated seeds are then distributed to farmers or retailers for planting.

PRE-CLEANING AND CONDITIONING

In this stage, larger debris like stalks, leaves, and stones are removed. Conditioning processes, such as drying or hulling, may be applied to prepare the seeds for further processing.

SEED TREATMENT

This is the crucial step where seed treaters come into play. Protective coatings like fungicides, insecticides, or other beneficial agents are applied to the seeds to enhance germination, protect against pests and diseases, improve overall crop health and plant establishment.

QUALITY CONTROL AND TESTING

Throughout the process, rigorous quality control checks are performed to ensure the seeds meet specific standards for purity, germination, and vigor.

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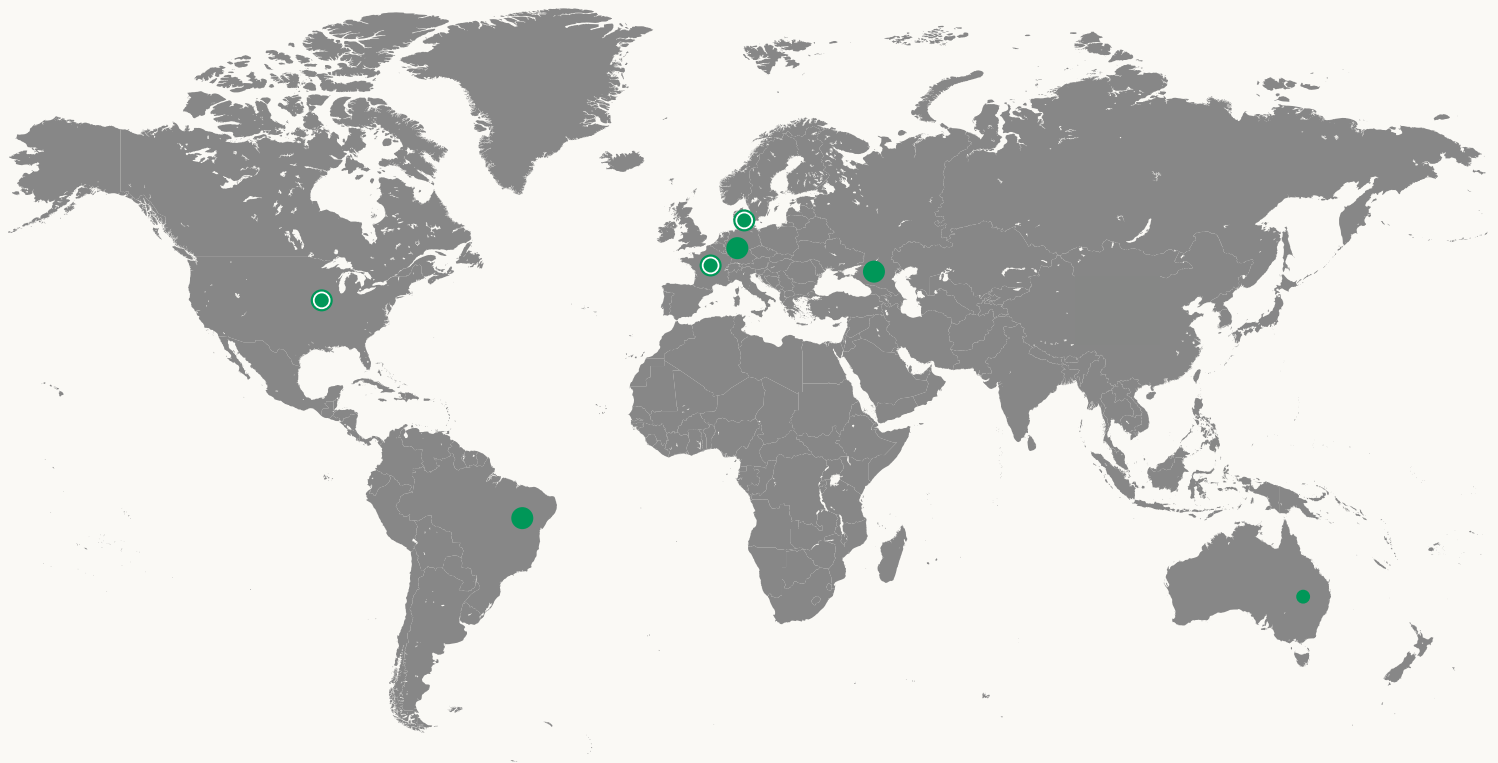
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