

westrup

EQUIPPED FOR **CHANGE**

Based on 60 years of global expertise, in-depth knowledge, a curious mind and a strong desire to discover better ways, we explore opportunities, share in-sights and empower you to make the right decisions.







EQUIPPED FOR **CHANGE**

> The world is changing rapidly, and so is the seed and grain industry. Navigating complexity and achieving stability is challenging, yet it has never been more important. The key to a prosperous and sustainable business is the ability to adapt to change. This is what we help you do.

Based on 60 years of global expertise, in-depth industry knowledge and a strong desire to discover better ways, we explore opportunities, share insights and empower you to make the right decisions.

Our unique product platform, advanced technology and leading in-house test center enable us to design, build and validate solutions that are exactly right for you. Solutions of reliability, durability and performance guaranteed to power your stability.

You can expect a dedicated and transparent partnership based on accountability and continuous progress. From pre-engineering to full project management, from small adjustments to big transformations. Together we will find the solution that provides stability and equips you for change.

OUR GOAL IS YOUR SUCCES

> A statement from our CEO

Ever since our establishment in 1958, it has been our ambition to invent, develop and build machines; good craftsmanship and high quality remain the base of everything we do at Westrup.

You will experience our craftsmanship when our leading experts solve even your most complex cleaning tasks. Our foundation has been in mechanical cleaning since day one. Over the years we have acquired in-depth knowledge of the industry, which our experts use to advise you on the latest developments and technical advantages. This way you will always be up to date on the most recent industry advances.

We know that every customer is unique – and so is high quality results, which is why we are flexible in our approach to designing solutions. This way we make sure that you get the best engineering, the best service and ultimately the best return on investment. Our goal is to see you succeed.

We take pride in contributing to feeding the world – and are proud to be supporting your business in the important work of fulfilling the UN Sustainable Development Goals.



BO BORNE JØRGENSEN



WESTRUP 60+ YEARS

1958



The beginning of Westrup A/S – named Brdr. Westrup I/S at the time

1959



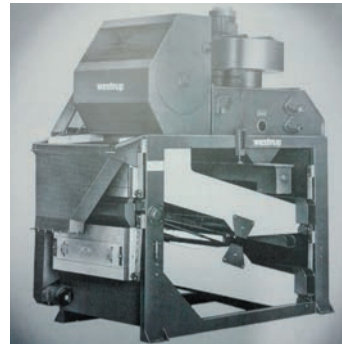
The first SA air and screen pre-cleaner is built and sold

1964



The factory on Soroevej is built

1969



Pre-cleaner SI is developed

1970

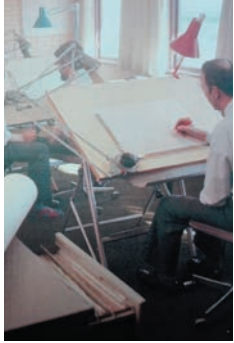


Development of our small-scale machines

1972



Development indented cyli. TR-730



rent of the first cylinder – the



Development of the modular programme begins



Opening of Westrup Inc. in the US

1982

1984

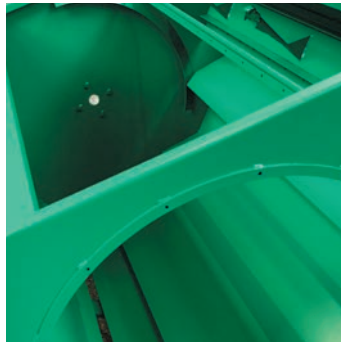
1985

1987

1988



Westrup is sold to the Swedish company Kamas



The switch to the well-known green colour of Westrup machines



Name change to Westrup A/S

WESTRUP 60+ YEARS



Development of the KA-2600, KA-3300, KA-4400 and KA-5500

1990



Opening of Westrup France and Westrup Germany

1994



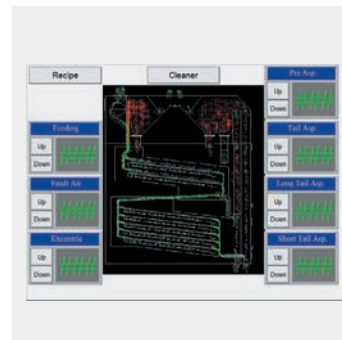
Development of the CC-2500

2006



Development of the PC and AS pre-cleaners and the AP fine cleaner

1993



The Navigator system for fine cleaners is developed

2000



Opening of Westrup South Pacific

2007

2008



Development of the FP and UP flat screen graders

2009



of Westrup cific

2014



New office building

2017



Opening of our sales office in China

2018



Westrup's 60th anniversary



Development of a new screen cleaner has begun




CHOOSING THE RIGHT EQUIPMENT

> Every seed has been subject to its own set of conditions. From the agronomic traits of the field, to climatic influencers and the choices made before and after planting the seed. This makes every seed and grain unique and in need of its own specific processing.

Cleaning seed and grain to achieve the optimum high quality of germination, purity and uniformity involves many processes. We share all our expertise to guide you towards the best process configuration and are flexible in our approach to designing solutions. We always strive to ensure that you have the knowledge required to make you feel confident in your decision.

We know, you want the highest possible quality of seed and grain. Our experts are ready to assist you in finding the machine solution that is best suited for your needs.





GRAINS, LEGUMES AND SUNFLOWER SEED

Processing grains, legumes and sunflower seed requires high-precision machine installations to achieve the optimal quality of vigour, germination and purity. The seeds come in many variations that require their own special processes. Common for all seed is the need for a treatment process to protect it in the initial germination stage.

WHEAT: *An indented cylinder can be used to remove weed seeds and broken seeds. A gravity table then separates the seeds by specific weight to get the right density of kernels and avoid empty kernels in the final product.*

SOYA BEANS: *Before planting the seed, soya beans need to be pre-watered to increase the likelihood of germination. Soya bean seeds can be spherical to oval in shape and therefore a spiral separator is used to remove the split seeds and other flat weed seeds.*

SUNFLOWER: *There are many types of sunflower seed that differ in size and usage. The sunflower seeds' shape is oval and flat; flat screen separation is therefore the most efficient way of separating the seeds into specific sizes.*

STRAW DRUM
UNIT

HG

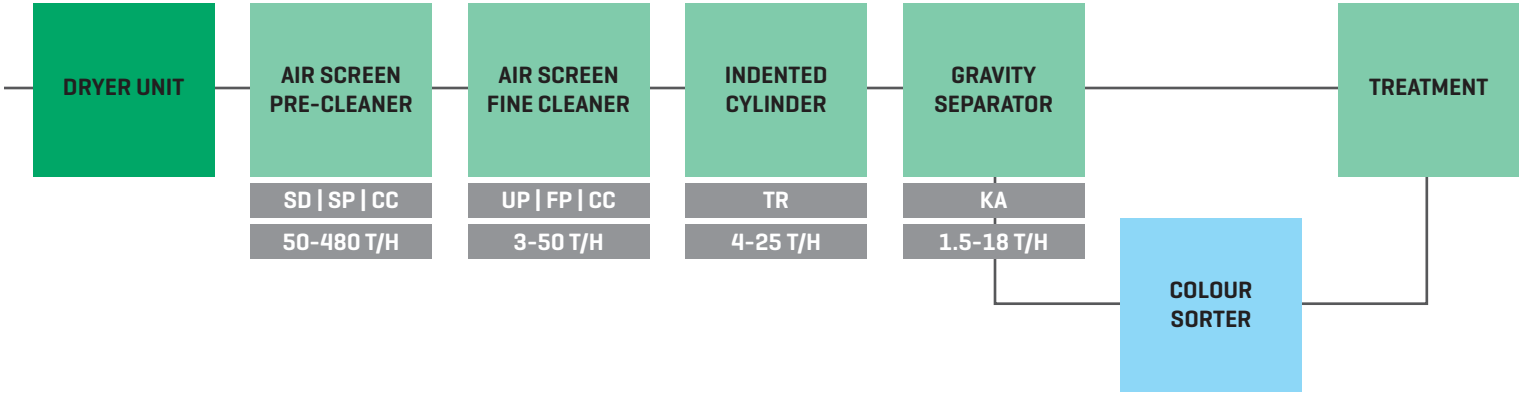
80-250 T/H

THRESHER
UNIT

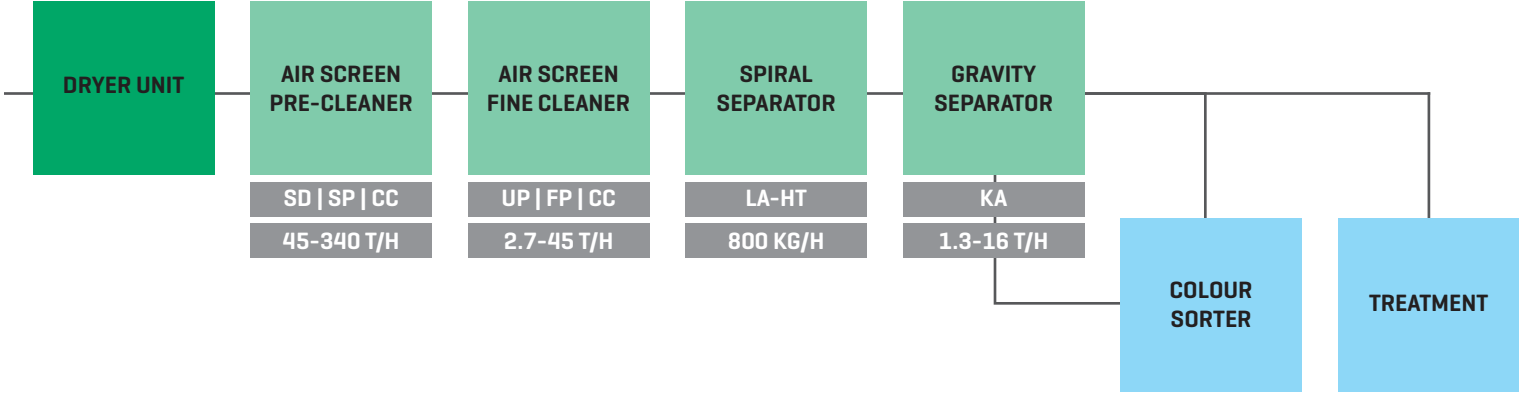
THRESHER
UNIT

DRYER UNIT

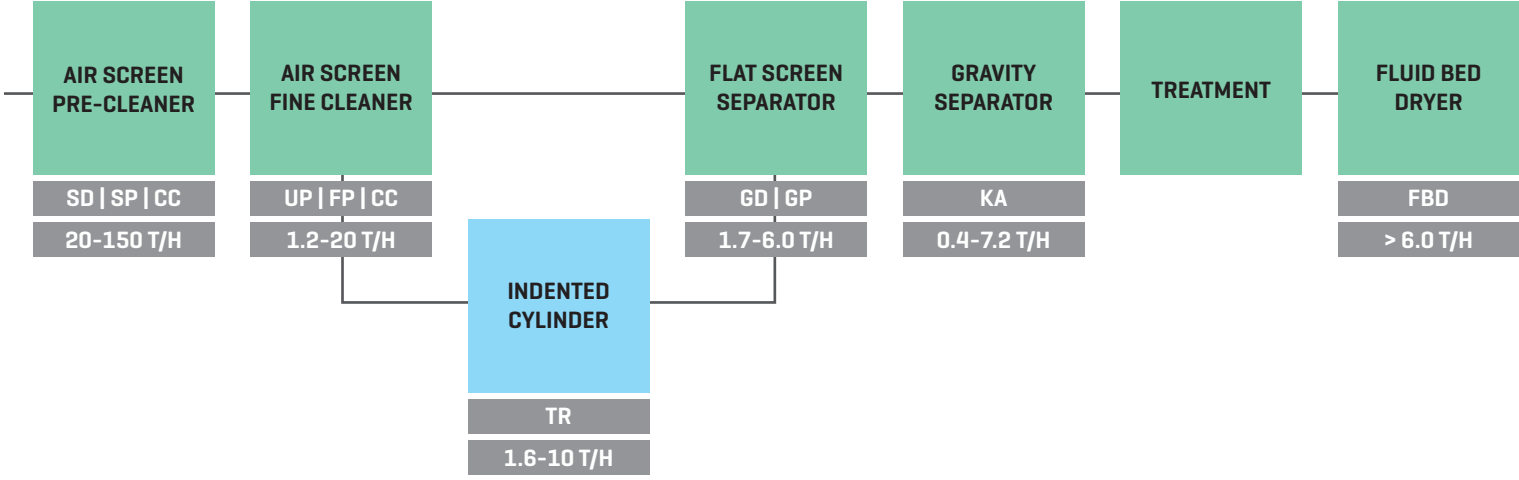
WHEAT



SOYA BEANS



SUNFLOWER



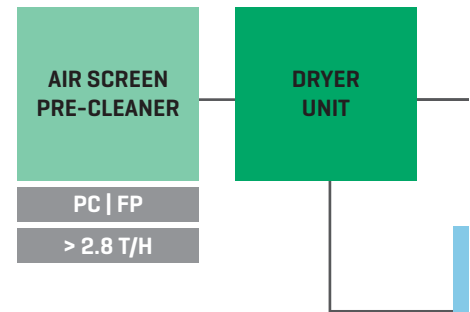
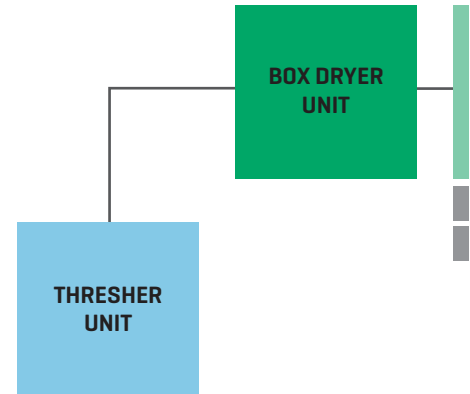
GRASS AND CLOVER SEED

Grass and clover seed require large machine installations due to big volumes of incoming product. To ensure the ideal seed mix, a precise cleaning is required, as it is important to remove the weed seeds that can otherwise do great damage to the field crop. Seeds used in parks, gardens and sport facilities often require a treatment process.

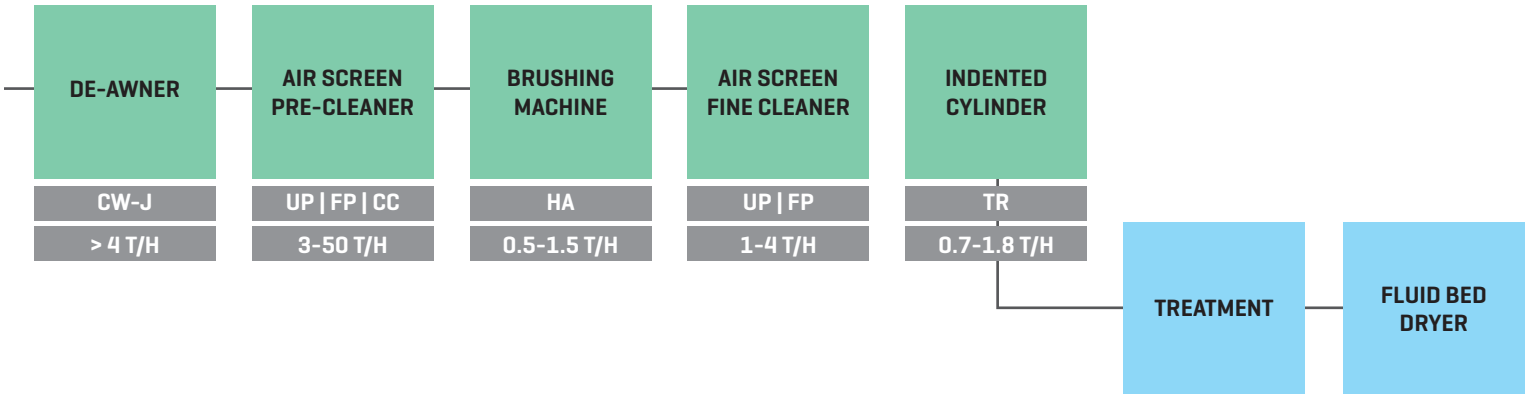
RYE GRASS: Cleaning the seeds require a de-awning process to loosen the seeds from the stack and pods before further processing. A brushing machine is required to split twin seeds and due to the rectangular shape of the seeds, an indented cylinder is ideal to separate the seeds by length.

RED CLOVER: The seeds often require de-stoning to remove stones. Also, dodder is frequently found in clover fields, and since it can damage the final crop, it is recommended to use a dodder mill. A magnetic separator fills the empty seeds with iron powder, which are then removed using a magnet.

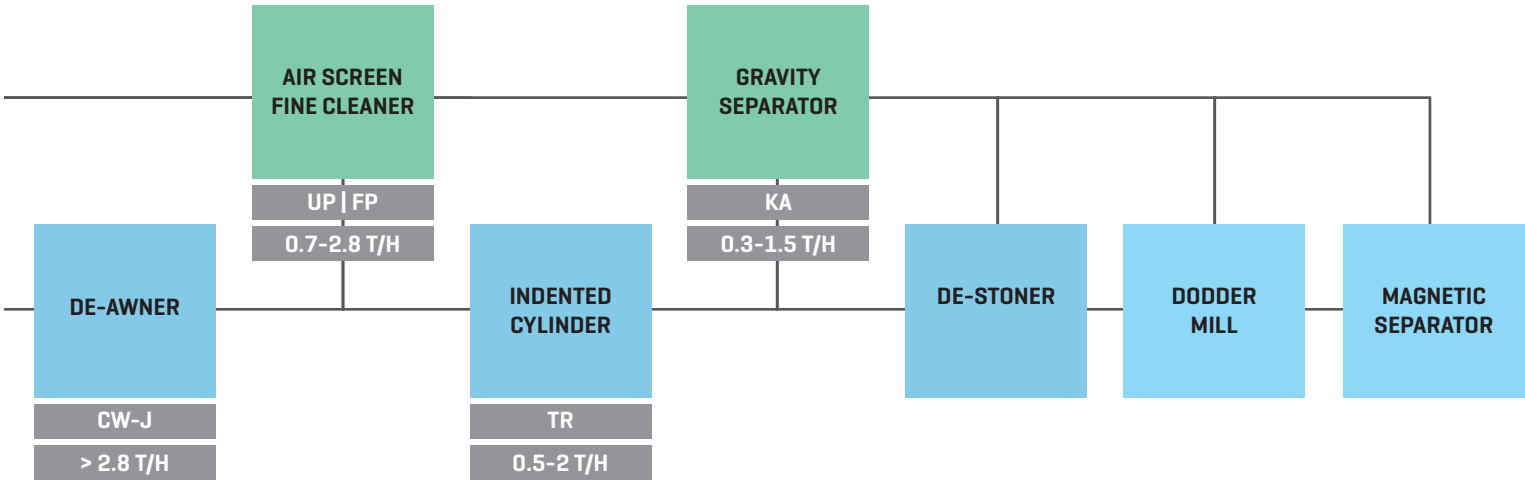
TIMOTHY: The process of cleaning timothy seeds is short and only requires pre-cleaning, fine cleaning and an indented cylinder to remove broken, short and too long seeds.



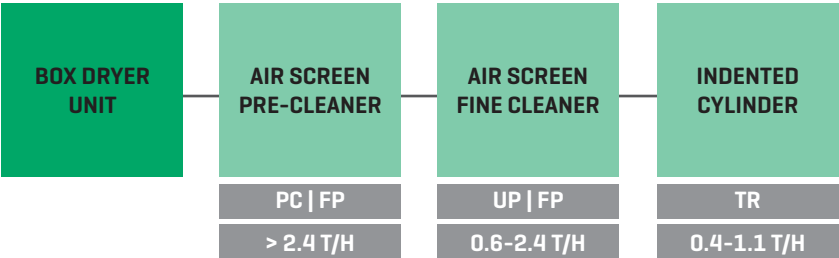
RYE GRASS



RED CLOVER



TIMOTHY



VEGETABLE AND GARDEN SEED

Vegetable and garden seed are of high value and can be processed in small machines. Each seed requires a specific machine composition to achieve the optimal final product. Many garden seeds undergo a treatment process to protect the seeds from insects in the initial germination stage.

TOMATO: *A brushing machine is used to separate seeds stuck together and give the seeds a gentle rubbing ensuring a better flow through the next processes. A gravity table can remove lightweight and low germinating seeds.*

RADISH: *Indented cylinders are required to remove the too short and long seeds as well as seeds from other plants. A gravity table can then remove light-weight and immature seeds. As radish seeds are round to egg-formed in shape, a spiral separator can be used to remove the foreign and broken seeds.*

CABBAGE: *Due to the round shape of the seeds, a spiral separator is ideal to remove the flat foreign seeds. A gravity table is then used to separate the seeds by specific weight and remove lightweight impurities.*

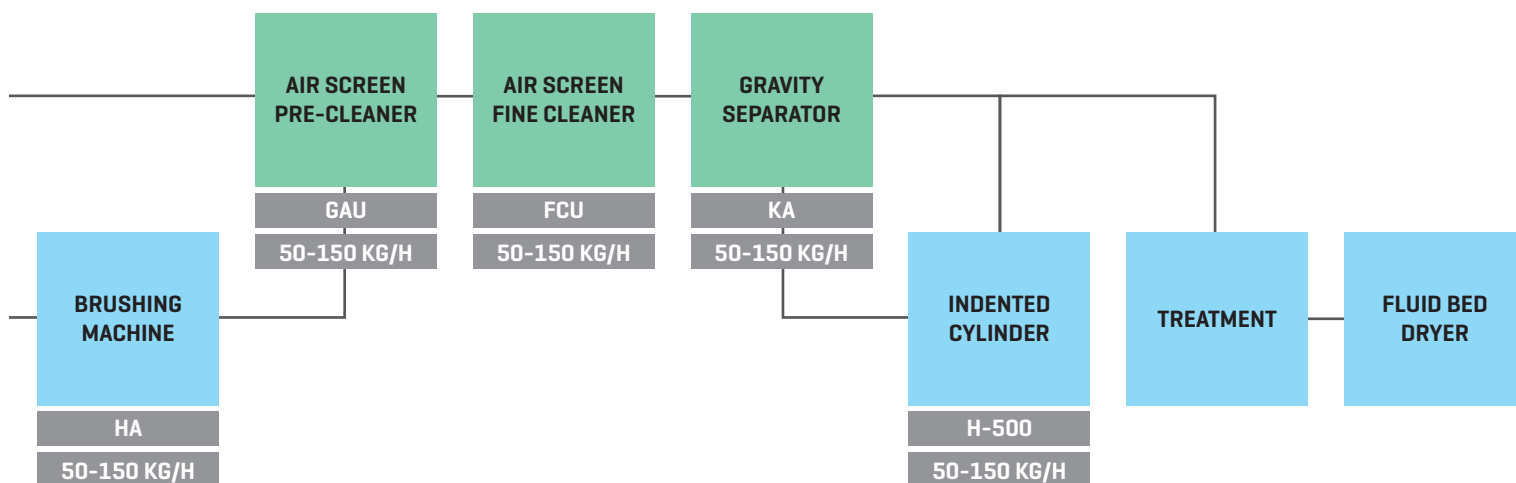


BOX DRYER
UNIT

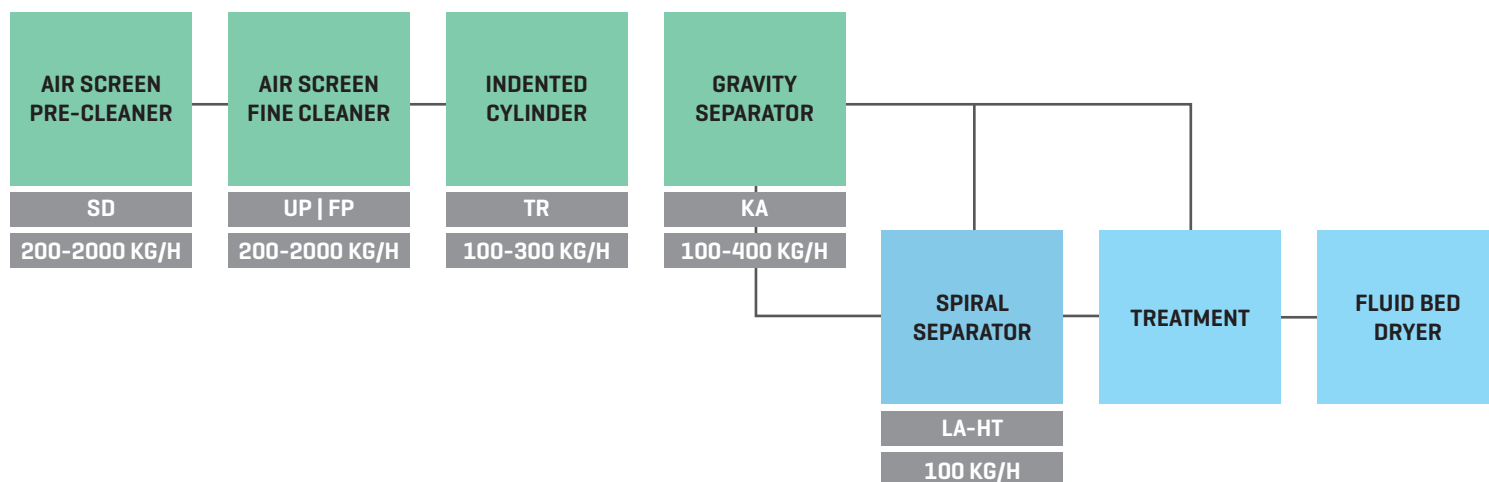


BOX DRYER
UNIT

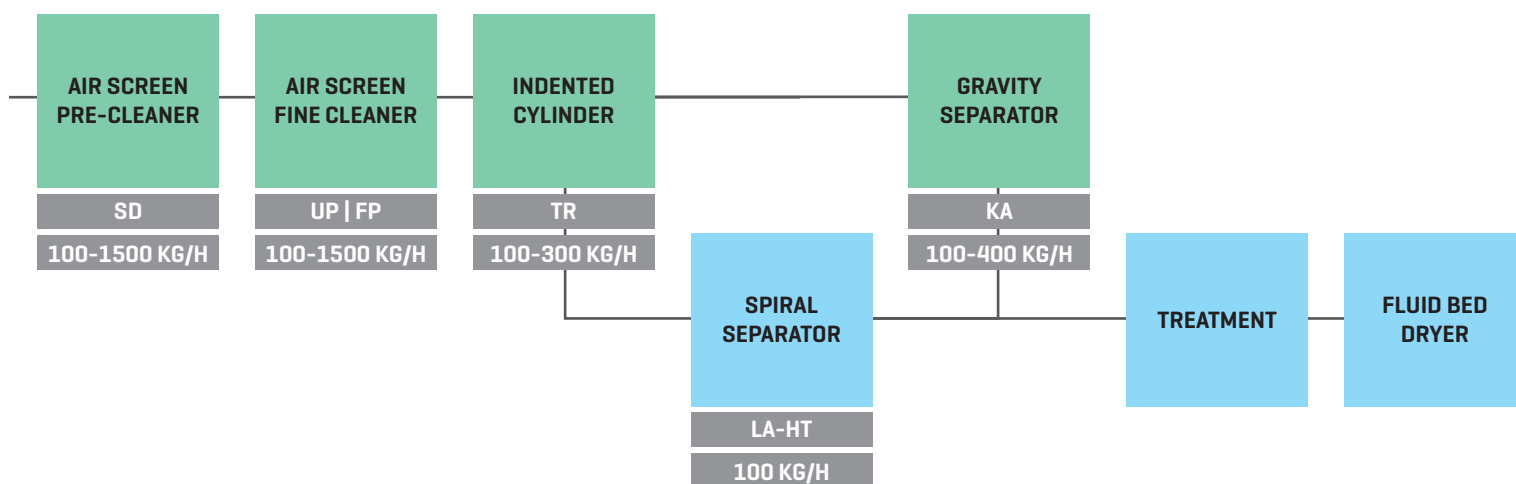
TOMATO



RADISH



CABBAGE



CROP DIAGRAM

PRODUCT \ PROCESS	ROUGH PRE-CLEANING				DRYING				PRE-/FINE CLEANING			
	DRUM CLEANER	STRAW SEPARATOR	AIR SEPARATOR	THRESHER UNIT	CONTINUOUS DRYER	BATCH DRYER	BOX DRYER	EAR CORN DRYER	AIR SCREEN PRE-CLEANER	AIR SCREEN FINE CLEANER	CYLINDER GRADER	INDENTED CYLINDER
BARLEY	●	●	●		●				●	●		●
BUCKWHEAT		●							●	●	●	●
CABBAGE							●		●	●		●
COCKSFOOT				●			●		●	●		●
CORIANDER						●	●		●	●		●
EAR CORN								●	●	●		●
ITALIAN RYEGRASS				●			●		●	●		●
LENTILS		●							●	●		
ALFALFA							●		●	●		●
MEADOW GRASS				●			●		●	●		●
MILLET		●				●			●	●		●
MILO						●	●		●	●		●
OATS	●	●	●		●				●	●		●
PADDY	●	●	●		●				●	●		●
GROUNDNUTS		●				●	●		●	●		
RADISH									●	●		●
RED CLOVER							●		●	●		●
RED FESCUE				●			●		●	●		●
RYE	●	●	●		●				●	●		●
RYE GRASS				●			●		●	●		●
SORGHUM					●	●			●	●		●
SOYA BEANS				●		●	●		●	●		
SUNFLOWER				●	●				●	●		●
TIMOTHY							●		●	●		●
TOMATO						●			●	●		●
WHEAT	●	●	●		●				●	●		●



MACHINE TYPES

- **STRAW DRUM UNITS** > *Remove straw and coarse material.*
- **THRESHER UNITS** > *Separate the seed in high moisture products.*
- **DRYER UNITS** > *Lower the moisture content of the seed.*
- **BOX DRYING UNITS** > *Avoid mixing different types of seed during drying.*
- **BRUSHING MACHINES** > *Split twin seeds and remove the stack from the seed kernels.*
- **DE-AWNERS** > *Remove the stack from the seed kernels.*
- **AIR SCREEN PRE-CLEANERS** > *Remove larger impurities before further processing.*
- **AIR SCREEN FINE CLEANERS** > *Separate the seed by thickness and width.*
- **INDENTED CYLINDERS** > *Separate the seed by length and remove broken, short and too long kernels.*
- **FLAT SCREEN SEPARATORS** > *Separate the seed into specific sizes.*
- **SPIRAL SEPARATORS** > *Separate round seeds from flat seeds.*
- **GRAVITY SEPARATORS** > *Separate seeds of the same size into specific weight groups.*
- **DE-STONERS** > *Remove stones and other heavy objects.*
- **DODDER MILLS** > *Remove weed seed and dodder.*
- **SHELLER UNITS** > *Release the seed kernels from the cob or shell.*
- **MAGNETIC SEPARATORS** > *Filter ferromagnetic metal particles and can also be used to remove empty seed kernels.*
- **COLOUR SORTERS** > *Sort the seed by colour.*
- **CHEMICAL TREATERS** > *Apply a coating to the seed.*
- **FLUID BED DRYERS** > *Dry the seed after chemical treatment.*






EXECUTING YOUR **PROJECT**

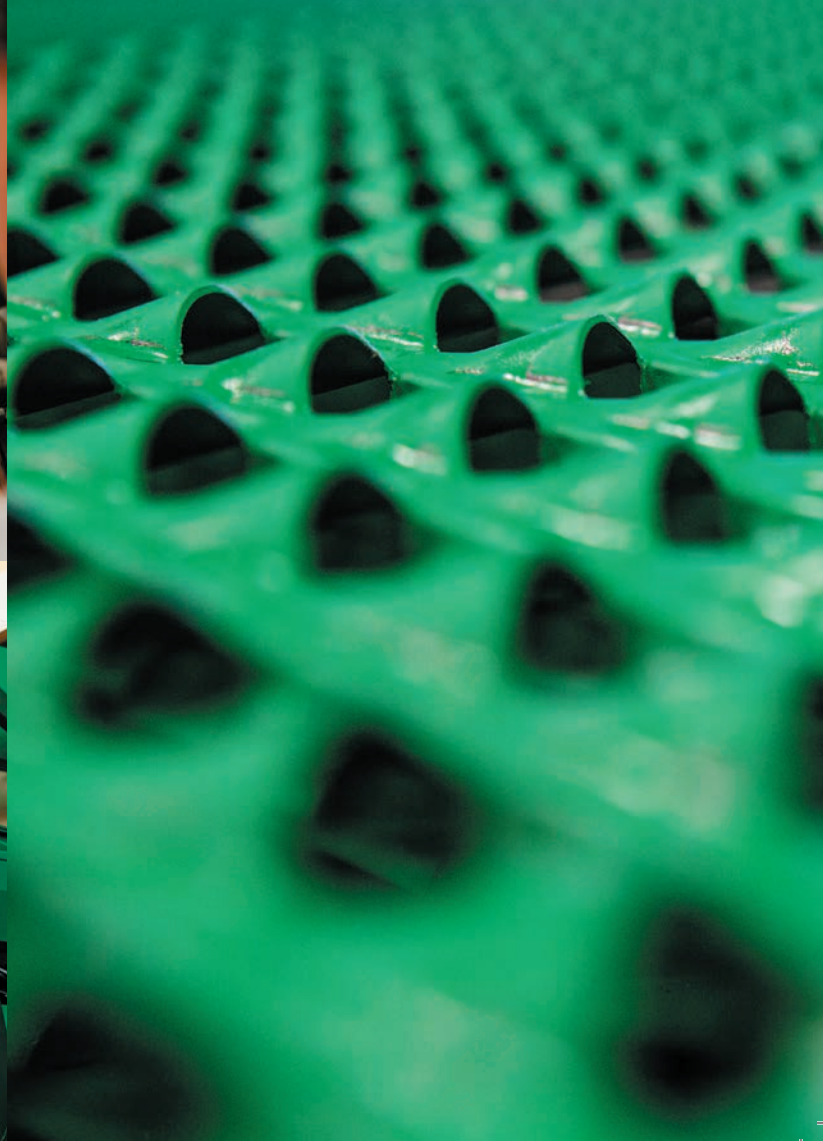
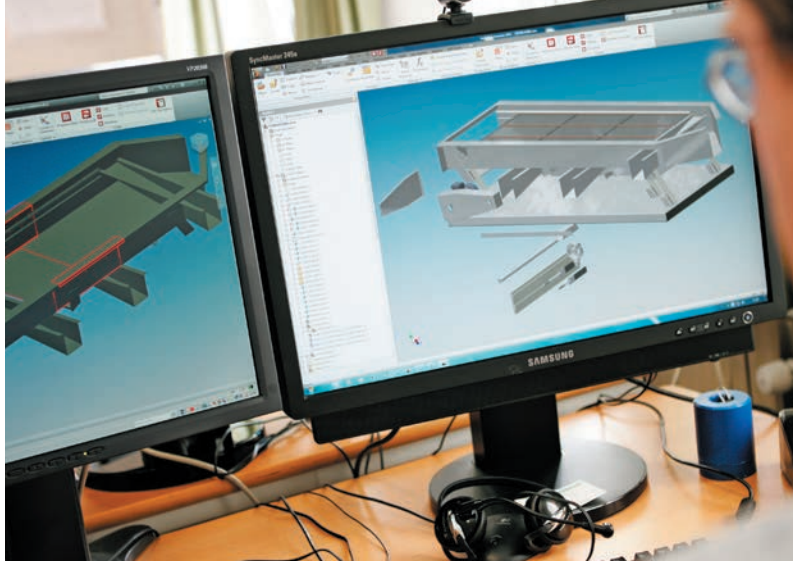
> Our consultants will work with you and provide the knowledge you need to make informed decisions. During the pre-engineering phase, we design project specific drawings of the process flow and plant layout that will best support your business.

Our project department will gladly assist and coordinate all internal and external activities throughout the entire project. Also, our specialists are available to offer you guidance on optimal solutions for a sustainable success.

We offer installation and commissioning ranging from single machines to full site management of complete plants taking all suppliers under our supervision. We also provide training sessions in our test centre and offer practical on-site training, making you and your staff familiar with the equipment.

After installation, we continue to offer a wide range of customised service solutions from preventive maintenance to regular service check-ups. Original Westrup spare parts and interchangeable screens, mantles and decks are always available to you.

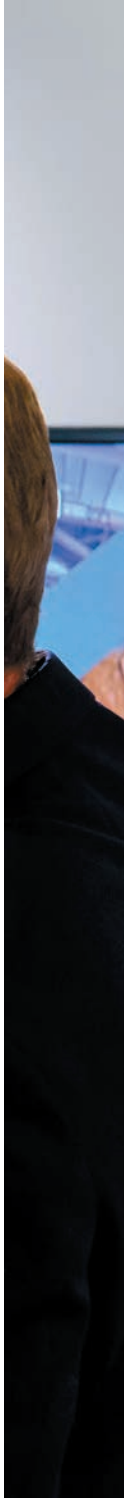








DEVELOPING THE **INDUSTRY**



> In this rapidly changing world you need to be one step ahead to remain successful. Our team of innovative experts use their skills to constantly develop new products and services to help you increase your efficiency.

At Westrup, we have always placed emphasis on creating valuable solutions for you. Today, our focus continues to be on True Customer Value that helps drive the growth of your economic, environmental and social bottom lines.

We monitor new technology and implement, only when it has been matured enough to provide the stability you are seeking. You will not have your productivity ruined due to constant bugfixes and updates to sketchy premature technology. We implement in close collaboration with you and always with the strongest possible value proposition in mind.

Our New Product Development department takes pride in being open and engaging. We apply our entire skillset when creating the right solution for you by making use of best practices in Product Development and Project Management.

We use an explorative Learning Loop Approach when searching for and evaluating new technology. This ensures that we have assessed the risks and have the required knowledge, before providing you with a product or service.

For us it is personal. Our team is committed to finding the right long-term solution – not the flavour of the month.

WESTRUP IT'S **PERSONAL**

Our 60 years in the industry has made us aware of the challenges you are facing. To ensure your success we make sure to integrate our experience, knowledge and resources, with your specific requirements, local conditions and the industry's best practices. We believe that your success is important for ours and therefore our solutions are designed for you, with you.

"Westrup is an important partner for us. With them, we are technically very well equipped"

- Carl Christian Knudsen, DLF

"We can build pretty much anything we want from their modules. They are very good at presenting the best option. They explain how to build better with different options and the solution is then reached in collaboration"

- Pioneer





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