



**PETKUS**

# PETKUS S-Cleaner

**01** Cleaning / Calibration



 **Strong Seed. Healthy Grain.**

# PETKUS S Cleaner – setting the new Benchmark

The new generation of PETKUS Cleaners takes seed cleaning to the next level. The S Series is equipped with features that offer a whole new added value while providing proven PETKUS quality.

#### SAFETY:

The S Cleaner is entirely enclosed with gas strut assisted doors for sieve changing access.

#### QUICK CLEANDOWN and CHANGEOVER:

The S Cleaner answers with industry exclusive tensioning mechanism and roller removal of sieves. Now one operator can complete screen changes in 2/3 the time it used to take 2 operators.

#### PRECISION:

The SC provides high quality calibration with an improved capacity on up to ten sieve levels and five calibers.

#### TWO STEPS in ONE MACHINE:

The S AIO combines seed cleaning and seed calibration in one machine. Take advantage of precise separation in a combined platform that saves space.

#### QUALITY:

The S Airmax and S AIO provide the highest quality cleaning on the market, featuring redesigned top and bottom aspiration to make precise decisions about marginal seeds.

#### THE BEST PERFORMANCE:

The S Airmax and S AIO offer intelligent and continuous control with optional roeber performance. With data from sensors and cameras, recipe creation becomes even more simple and can be easily controlled by our user friendly touch screen.



## S Airmax

for ultimate seed cleaning



## S AIO

for seed cleaning and  
calibration in one machine



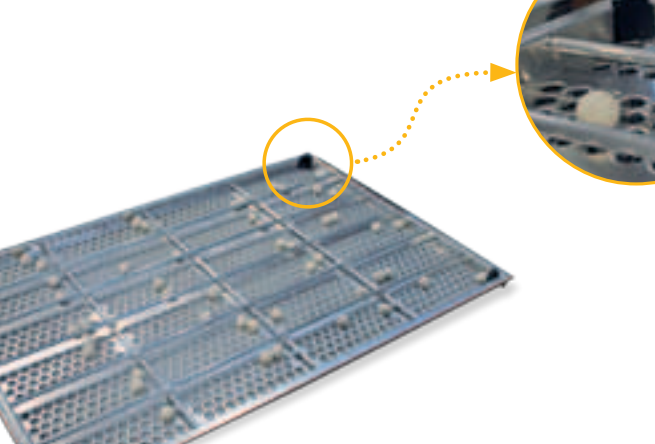
## SC / SCC

for precise calibration

Your seed.  
Our challenge.  
New quality standard.



## Main features and options




Easy replacement of sieves in

ELR (Easy Lock Release)

Ingenious design for complete  
and easy clean down

with scraper chain for better  
flow of raw material



Ultrasonic sensors for optimal adjustment of aspiration channels

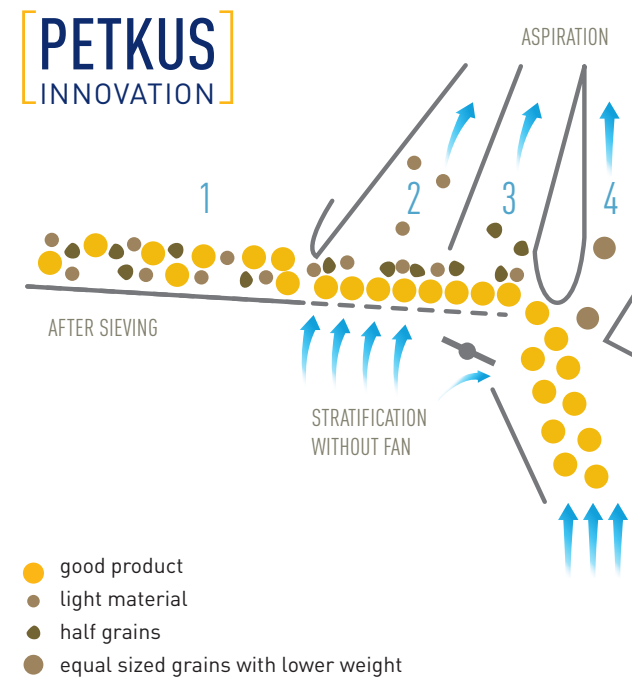


### 3 Channel aspiration

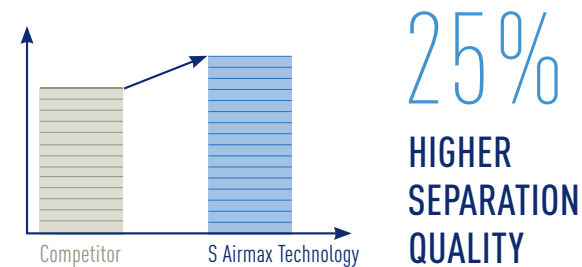


# Airmax Technology

## 3 Channel Aspiration



- 1 Stratification: Light particles are moved upwards by special movement and inclination
- 2 Light Material Aspiration: Light particles are removed through the first aspiration channel
- 3 Aspiration of half grains: Due to increased air supply/speed all half grains can be sorted out in the second aspiration channel
- 4 Cross sifting: Use of a cross sifter to sort out grains of equal size but lower weight



# The ELR / ALR System



ELR System



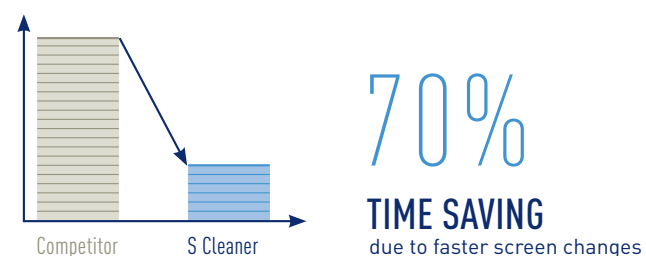
ALR System

## ELR-System (Easy Lock Release)

Tedious sieve changes are a thing of the past. With two handles per screen level, the screen tensioning can be easily released. The screen segments are lifted on rollers and can be pulled out of the cleaner one after the other with minimal effort.

## ALR-System (Automatic Lock Release)

The ALR system consists of an electrical mechanism which is easily operated with the press of a button. This gives the sieves proper tensioning and increases operational safety through automatic feedback control.

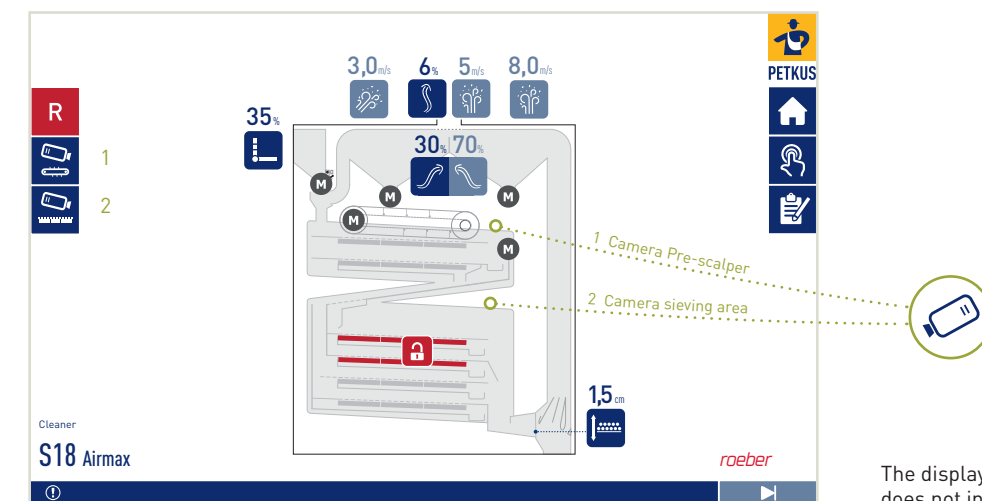


# roeber performance

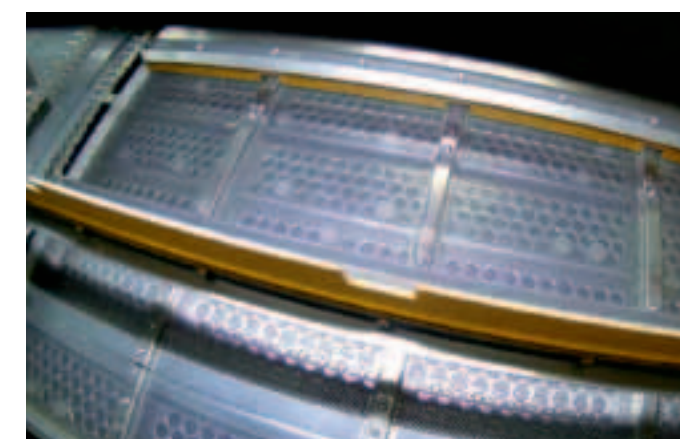
In order to control and automate the cleaning process intelligently, extensive sensor technology is provided for the cleaner:

- + Ultrasonic sensors for optimal adjustment of sifter channels
- + Sensors for air speed measurement
- + Continuous control of sieving process by cameras for the pre-scalper and sieving area

This allows all parameters to be measured in order to monitor the working performance. The collected data is saved as a recipe in the PLC. Continuous monitoring and the assurance of continuous quality through the new intelligence make the PETKUS S Airmax and S A10 with roeber performance the most innovative and unique cleaners on the market and bring an added value to the entire seed and grain business.



The display shown is an example and does not indicate maximum values



1 Camera Pre-scalper with scraper chain

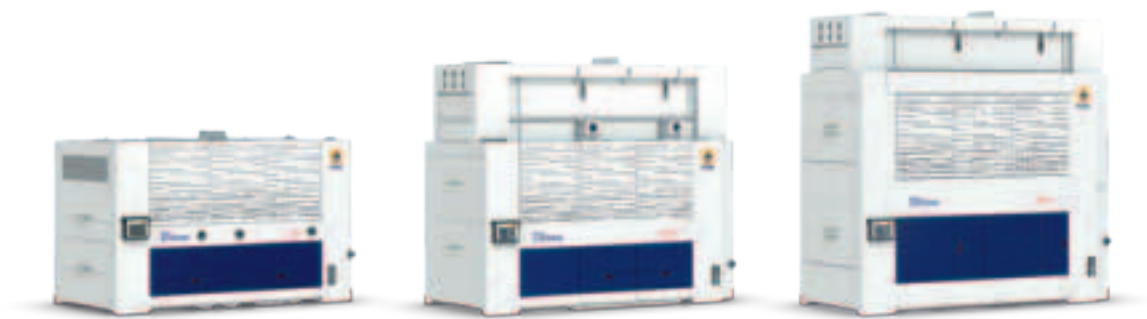


2 Camera sieving area



Seed Cleaner

# S Airmax



The PETKUS S Airmax Seed Cleaner sets the new standard for what a seed/grain cleaner should be. With the customers' input, PETKUS has created the most advanced air screen cleaner on the market.

- + ELR/ALR System for fast screen changes
- + Mainly for seed cleaning also suitable for intensive cleaning/grain cleaning

- + Touch panel (HMI) for smart control\* and recipe management
- + High quality cleaning due to dynamically adapted aspiration
- + Control of sieving performance and safety through integrated sensors and cameras\*\*

\* only roeber performance    \*\* optional roeber performance

		S9 Airmax	S12 Airmax	S18 Airmax	S30 Airmax
Length L	mm	4 100	4 100	4 100	4 400
Width W	mm	2 000	2 000	2 000	2 000
Height H	mm	2 500	3 815	3 815	4 380
Weight	kg	5 000	5 500	6 000	7 670
Air Volume (Wheat)	m³/h	12 000 - 15 000	12 000 - 15 000	12 000 - 15 000	12 000 - 15 000
Working width	mm	1 250	1 250	1 250	1 250
Screen area	m²	9	12	18	30
Energy consumption	kW/h	5,3	6	6,5	8
Capacity					
Seed cleaning	t/h	8	12	20	30
Industrial cleaning	t/h	24	36	60	90

Descriptions and measurements are approximate. We reserve the right to implement technical changes.

S9

Level	Sieves / Level	Screen Area
3	3	9 m²

S12

Level	Sieves / Level	Screen Area
4	3	12 m²

S18

Level	Sieves / Level	Screen Area
6	3	18 m²

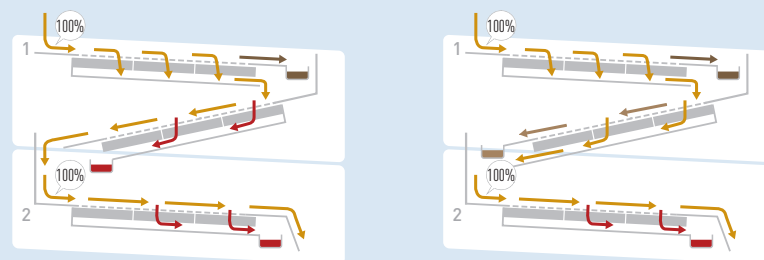
S30

Level	Sieves / Level	Screen Area
10	3	30 m²

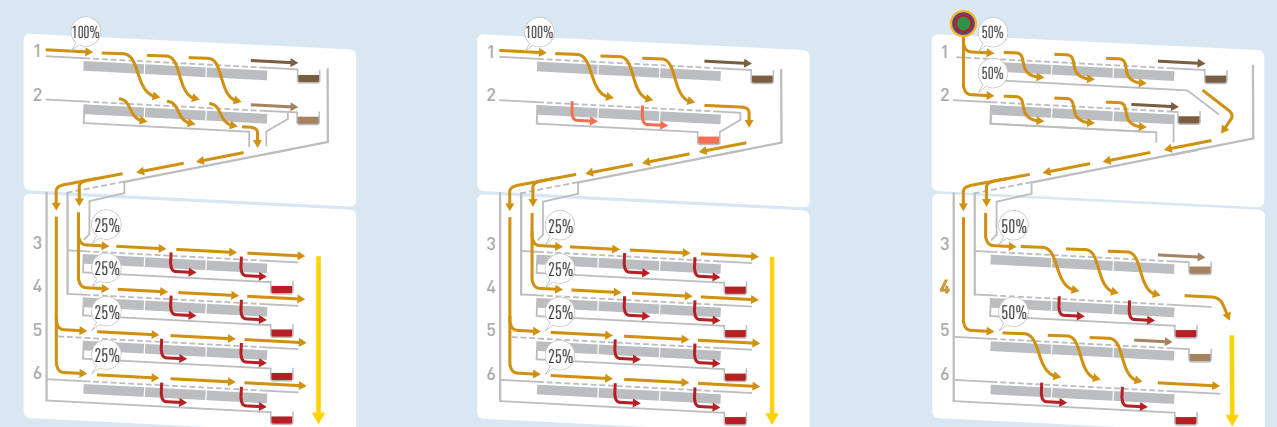
# Solutions

The ideal sieve diagram for every situation

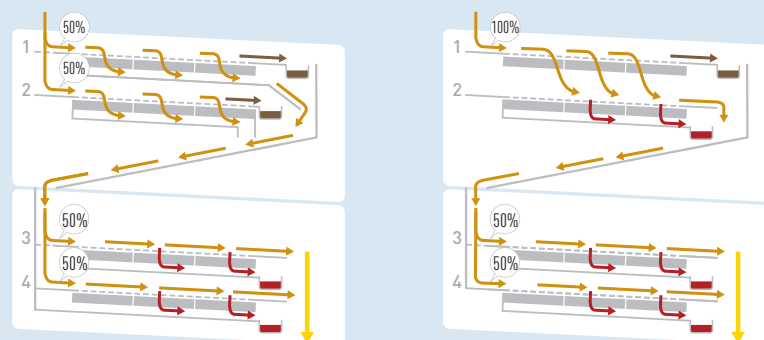
**S9**  
Airmax



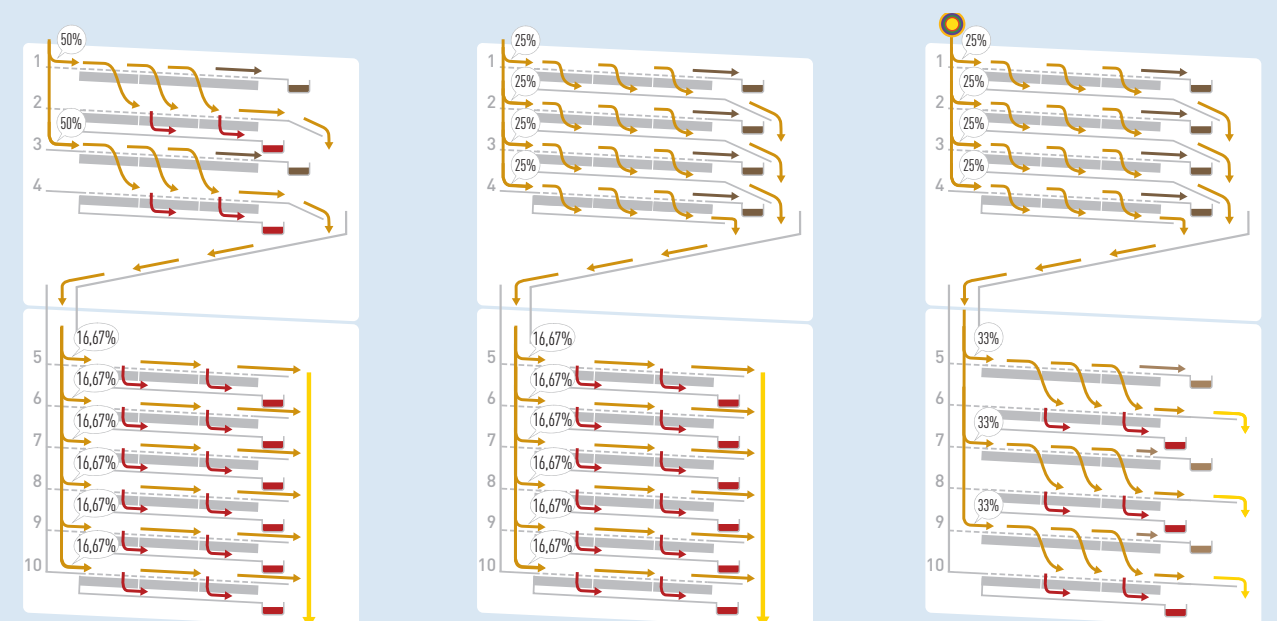
**S18**  
Airmax



**S12**  
Airmax



**S30**  
Airmax



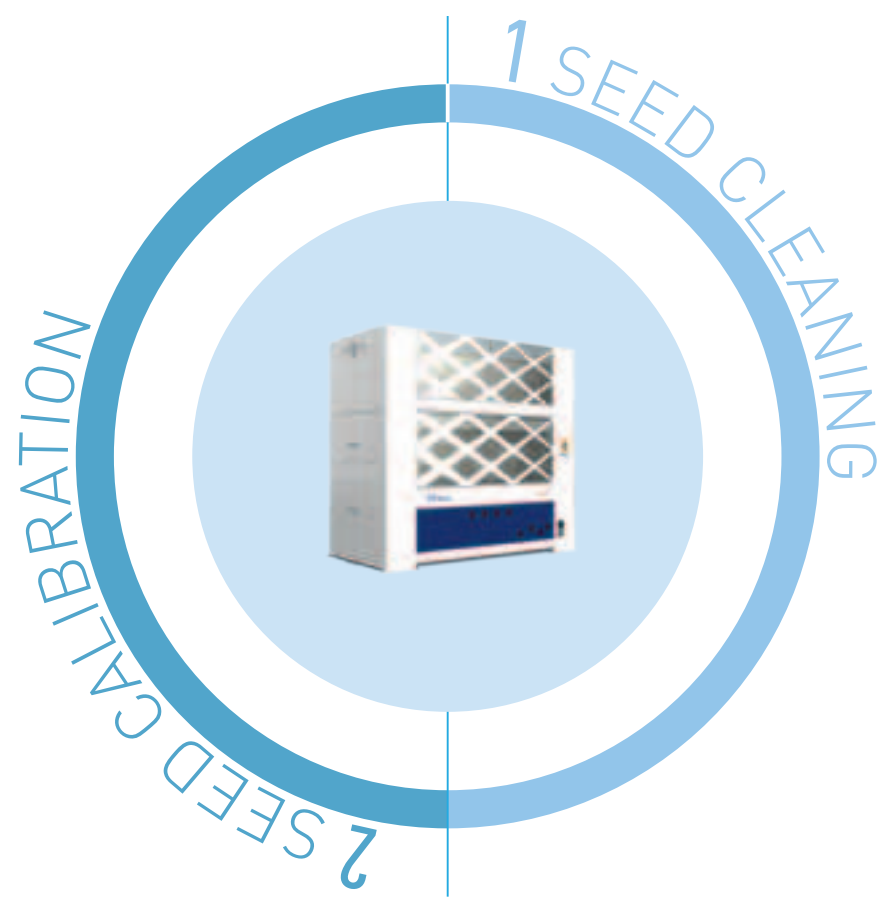
## Seed cleaning

- raw material
- pre-scalping
- scalping
- sifting
- pre- and main-aspiration
- accept

## Seed calibration

- big
- medium
- small

Seed Cleaning & Calibration  
S AIO (All in one)

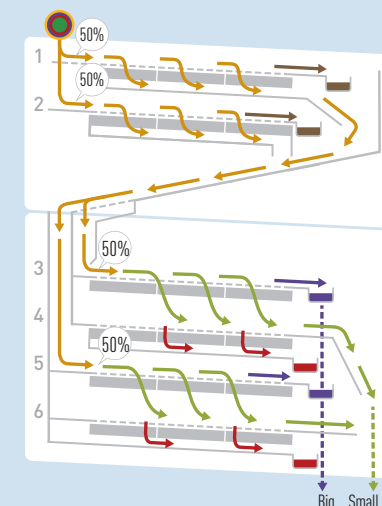


		S18 AIO	S30 AIO	S36 AIO
Length L	mm	4 100	4 400	5 500
Width W	mm	2 000	2 000	2 000
Height H	mm	3 815	4 380	5 982
Weight	kg	6 000	7 670	9 700
Air Volume (Wheat)	m³/h	12 000 -15 000	12 000 -15 000	20 000 -25 000
Working width	mm	1 250	1 250	1 250
Screen area	m²	18	30	36
Energy consumption	kW/h	6,5	8	17
Capacity				
Seed cleaning + calibration	t/h	up to 10	up to 15	up to 20

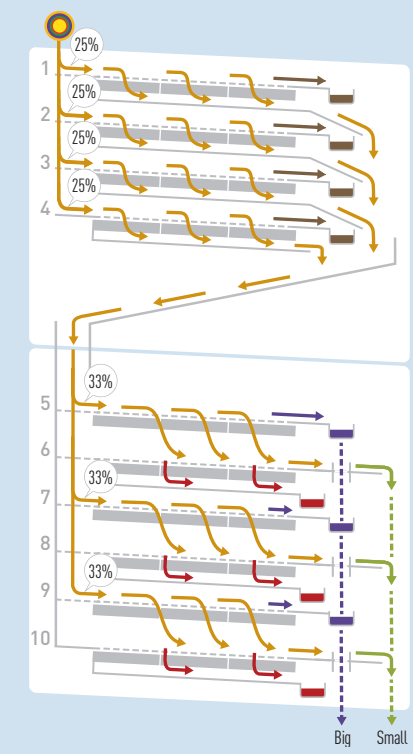
Descriptions and measurements are approximate. We reserve the right to implement technical changes

- Seed cleaning
- raw material
  - pre-scalping
  - scalping
  - sifting
  - pre- and main-aspiration
  - accept
- Seed calibration
- big
  - medium
  - small

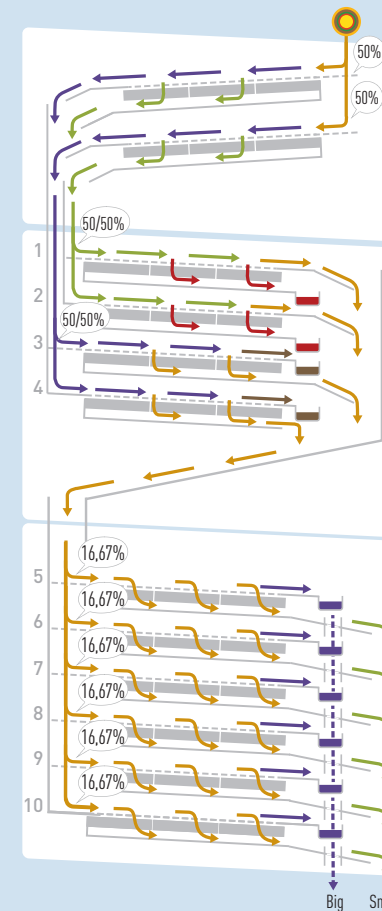
S18  
AIO



S30  
AIO



S36  
AIO



AIO stands for All In One – seed cleaning and seed calibration combined in one single machine. Now, two processing steps can be implemented in a small footprint, offering increased efficiencies and potential savings:

- + Half the time for sieve changing and full machine clean down
- + Lower maintenance costs
- + Shorter distances and reduced number of conveyors





Examples of Cleaning

Wheat

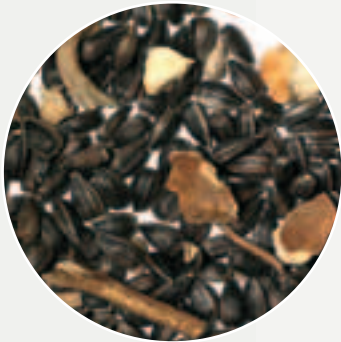
Barley

Corn

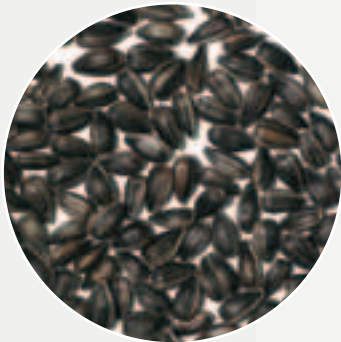
Sunflower

Soya

Raw material



Cleaned product



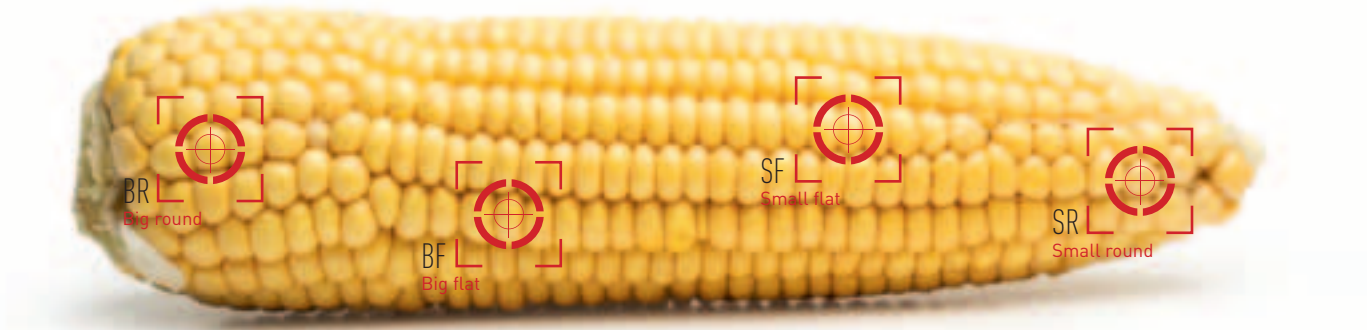
Aspiration outlet from  
**Airmax**  
3-Channel Air Sifter





Seed Calibration

# SC



Two, three or four calibers – flexible solutions for each seed

In order to achieve the correct calibration special calibrating machines are needed. Sorting various calibers must be done very carefully in order to protect and enhance the seed quality. Calibration can be made according to corn width or corn thickness. There are a number of interchangeable standard screen segments available for the calibrating systems.

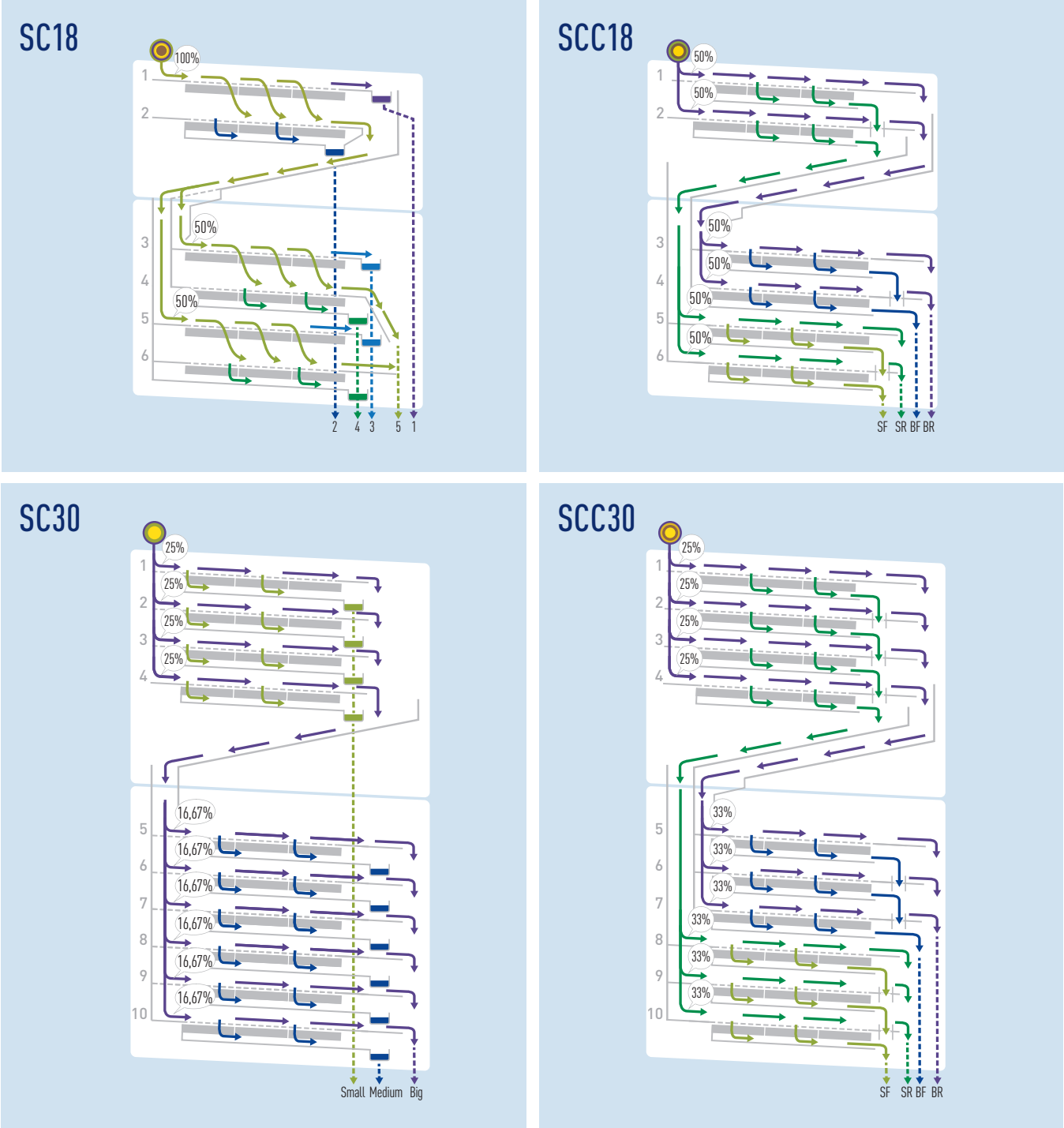
- + Vibration feeder for gentle handling
- + Optimal calibration performance through adjustable sieve frequency

		SC18 SSC18	SC30 SSC30
Length L	mm	4 100	4 400
Width W	mm	2 000	2 000
Height H	mm	3 813	4 380
Weight	kg	4 750	6 070
Air Volume (Wheat)	m³/h	2 000	2 000*
Working width	mm	1 250	1 250
Screen area	m²	18	30
Energy consumption	kW/h	4,7	8
Capacity			
Seed calibration **	t/h	up to 12	up to 18

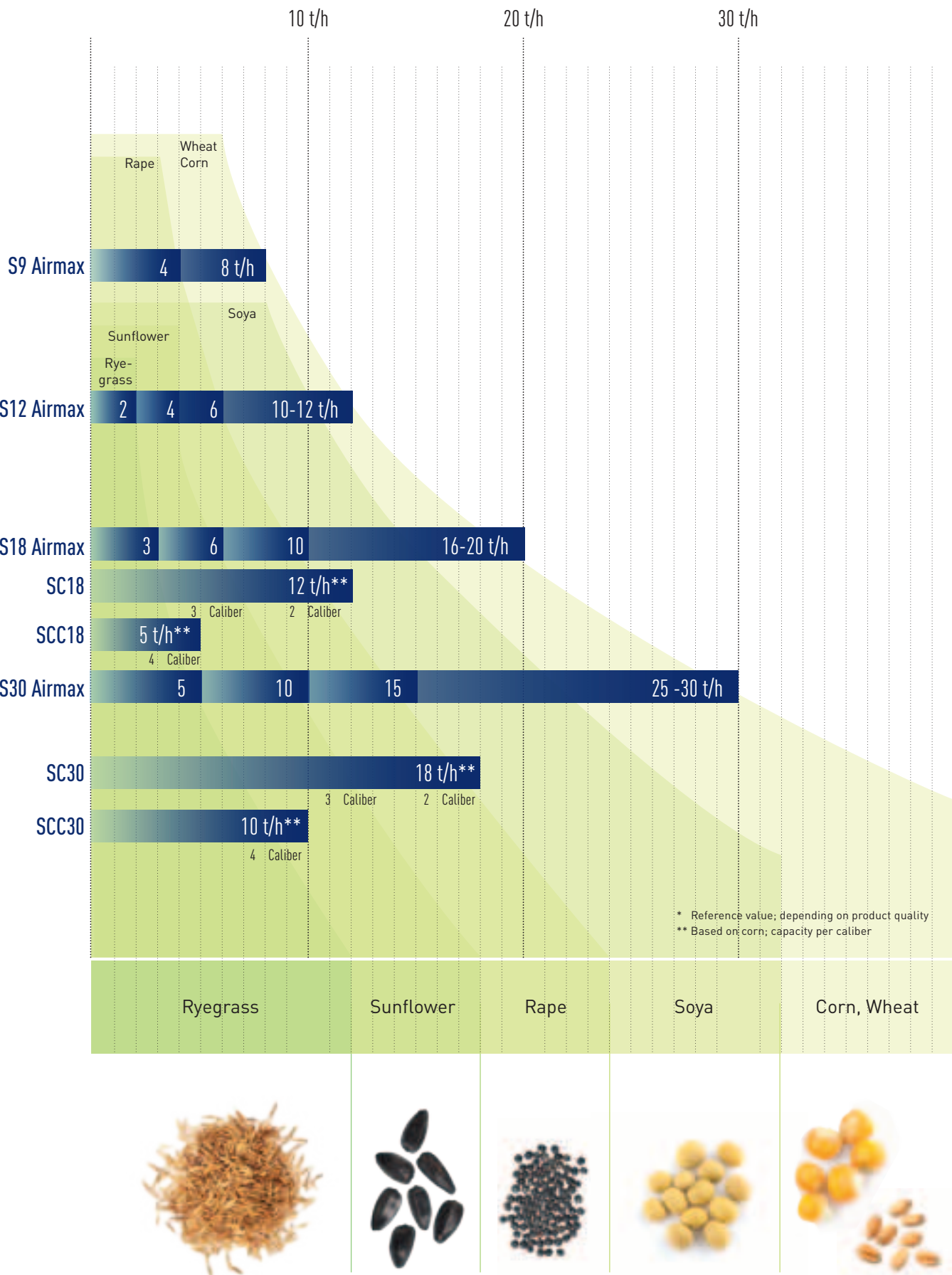
\* without air sifter      \*\* Depend on no. of calibers, ratio big and small and kind of seed  
Descriptions and measurements are approximate. We reserve the right to implement technical changes.



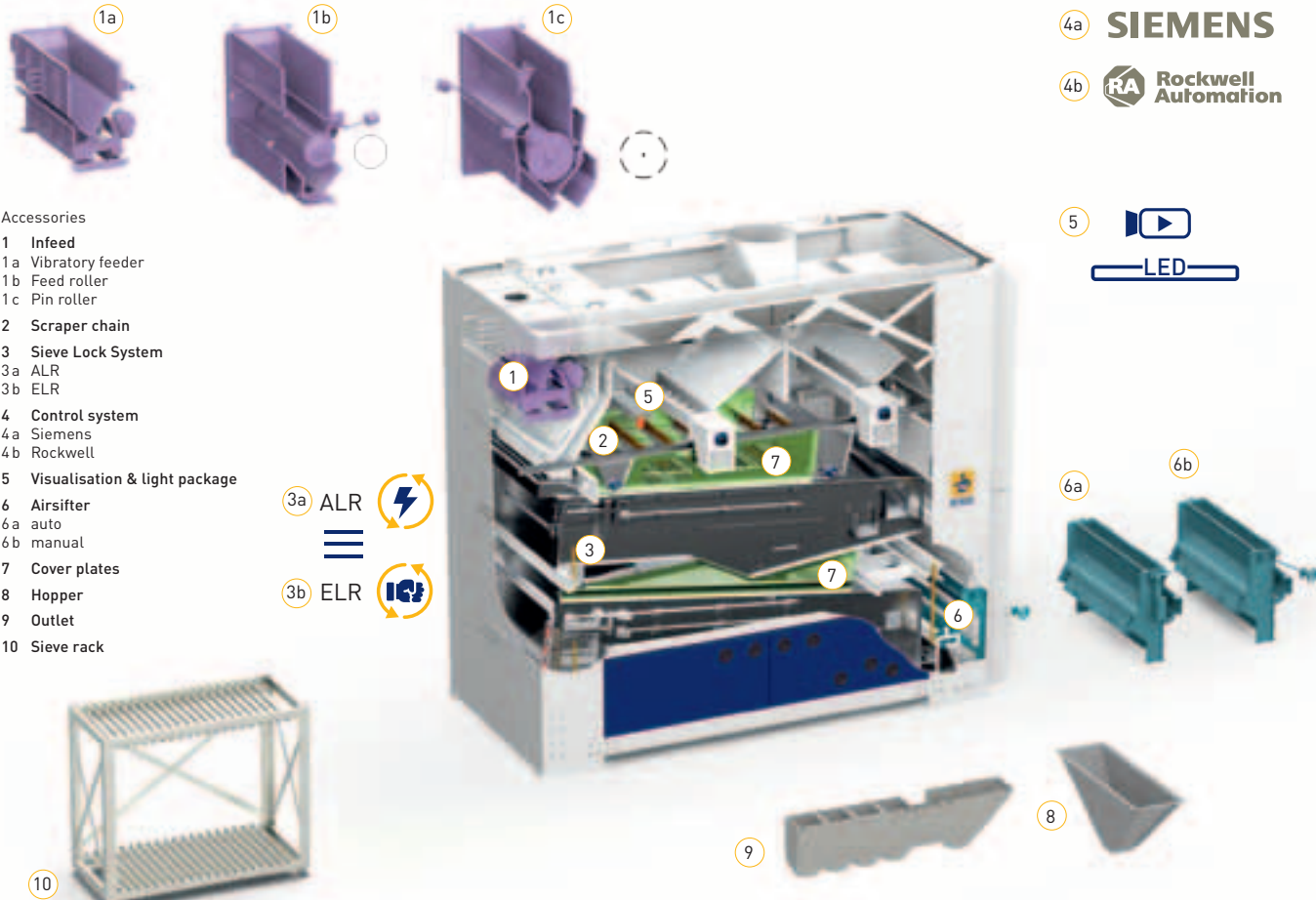
- Seed cleaning
- raw material
  - pre-scalping
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- Seed calibration
- big
  - medium
  - small



Product specific cleaner performance\*



Features / Options



	S Airmax	S AIO	roever performance	SC
1 Infeed				
1a Vibratory feeder incl. VFD	○	○	○	○
1b Feed roller <sup>1</sup>	●	●	●	●
1c Pin roller <sup>1</sup>	○	○	○	—
2 Seed flow				
Scraper chain <sup>1,2</sup>	○	○	○	—
3 Sieve lock system				
3a <b>ALR</b> (Automatic Lock Release)	○	○	●	○
3b <b>ELR</b> (Easy Lock Release)	●	●	—	●
4 Control system incl. touch panel	—	—	●	—
4a Siemens	○	○	○	○
4b Rockwell Automation	○	○	○	○
5 Visualisation and light package (cameras, light)	—	—	○	○
6 Aspiration				
Airmax Technology	●	● <sup>3</sup>	●	—
6a Adjustment (auto)	○	○	●	—
6b Adjustment (manual)	●	●	—	—
Automatic control of air flaps	—	—	●	—
Intelligence (sensors, data, recipes)				
Air speed measurement in pre-aspirator	—	—	●	—
Air speed measurements in main aspirator	—	—	●	—
Adjustment of sifter channels	—	—	●	—
Central lubrication	●	●	●	●

<sup>1</sup> optional with VFD    <sup>2</sup> Not applicable for S30    <sup>3</sup> Standard for one caliber main aspiration; optional for up to 4 calibers main aspiration  
● Standard    ○ Option    — not available



## Your Partner for Seed Solutions.

**01** CLEANING / CALIBRATION

**02** SORTING

**03** COATING

**04** DRYING

**05** CONVEYING

**06** STORAGE

**07** MOBILE PLANTS

 **Strong Seed. Healthy Grain.**

**PETKUS Technologie GmbH**

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