



# SKIOLD DAMAS OMEGA



SKIOLD MAKES THE DIFFERENCE!



## SKIOLD DAMAS OMEGA UNIVERSAL CLEANING MACHINE

The OMEGA cleaner/grader combines high grading efficiency with ease of operation and significantly reduced air exhaust and power consumption.

# Omega universal cleaning machine

## Efficiency up, power consumption down

The OMEGA is a flexible and efficient cleaning/grading machine which can be used for a wide variety of cereals and seeds, from light to heavy seeds all the way from pre-cleaning to fine cleaning. The OMEGA is capable of handling up to 300 tons per hour when cleaning cereals – and up to 30 tons per hour when grading seeds.

Whatever your needs (and seeds), OMEGA can match them with only minor customization needed – in most cases with no customization whatsoever.

### How it works

The OMEGA air screen cleaner grades and cleans your grain or seeds by evenly distributing the material across screens which vibrate in the special “Damas pattern”. This motion increases the efficiency of the cleaning/grading process and significantly reduce the pay-back time of the machine.

### Ideal for many different grain and seed types

Omega is available in a number of different designs and sizes for different purposes and grain or seed types and can be tailored to any need you may have.

### Your direct benefits

OMEGA offers much higher grading efficiency than any other comparable machine on the market today. Due to its optimized screen motion, OMEGA can deliver a grading efficiency up to 60 % higher than other grading machines on the market today.

For instance, wheat can be graded in the OMEGA at a rate of up to 1.7 t/h per m<sup>2</sup> of bottom screen – significantly higher than the industry standard of just 1.2 t/h.

### Simpler operation

The OMEGA range of machine offers independent pre-suction and after-suction systems.

This means that you can adjust one air system without having to adjust the other one as well, saving you valuable operational time and allowing you to optimize the running of the machine quickly and easily.

The independent pre-suction and after-suction systems also mean that any adjustment of the pre-suction system will not influence the after-suction system.

### Air exhaust reduced up to 80 %

The OMEGA is fitted with two recycling air systems, reducing the air exhaust to a minimum. In fact, tests have shown that the OMEGA will need an air exhaust of 2\* 800 m<sup>3</sup> per hour when cleaning cereals.

Most machines on the market today will produce a minimum of 16,000 m<sup>3</sup> of air per hour – up to 20,000 m<sup>3</sup> per hour when they have the same cleaning capacity as the OMEGA.

This has a major impact on the working environment in your plant – and it will also impact the size and bulkiness of the other installations you need. For instance, you will need much smaller (and therefore cheaper) filters in your installation, making the whole grading/cleaning line smaller, more compact and much more cost-effective.

### Better working environment and improved daily economy

The adjustment of the suction systems is carried out using frequency converters, reducing the turbulence in the air ducts and making it possible to optimise the running of the entire system smoothly and quickly.

The feeding system is modular and can handle all types of cereals and seeds.

The sturdy construction of the OMEGA will also ensure its running with no service needed for many years – for instance, the screen boxes are made with Wisa-Form plywood which adds to the long life-span of the OMEGA. The construction of the OMEGA also means that it will run equally well for many years regardless of the climate in which it is installed.

### Practical clipping effect when cleaning barley

In most cases, you won't need to invest in a clipper/de-awner for barley when you have the OMEGA in your production line. The built-in distributor worms in the inlet hopper and the large feed roller produce a substantial clipping effect, large enough in many cases to eliminate the need for a dedicated clipper machine.

Specifications		From	To
Guiding capacity, precleaning	t/h	90	300
Guiding capacity, malting barley grading	t/h	19	87
Guiding capacity, fine cleaning wheat	t/h	7	50
Screen width	mm	1250	1650
Screen area	m <sup>2</sup>	9	40
Number of screens	pcs.	9	30
Number of screen boxes	pcs.	1	2
Width	mm	1700	2100
Length	mm	4000	4260