

## The evolution of cyclone screening technology

**Control screening**

**Safety screening**

**Fractioning**

**Separation of foreign particles**

**Breaking of lumps**

**Aeration of products**

### Preferred applications

The DA-type cyclone screener is used for safety screening, fractionating, eliminating of undesired material, breaking up of lumps and for product loosening. The special feature of this machine type is its self-dosing function, which means that there is no extra dosing device required upstream.

### Special advantages of the DA type:

- Low overall height
- No extra dosing device required
- Completely extractable without tools
- Drive with dosing screw dismantlable by releasing rapid fasteners
- Drive with screen can be extractable and swingable

- Easy and fast inspecting of screen frame
- Nickel chromium steel design in different surface versions

### THE SPECIAL SOLUTION



1949



1960

2003

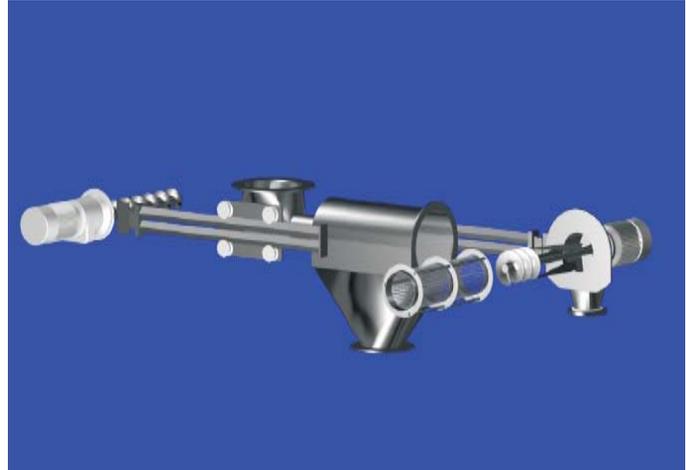
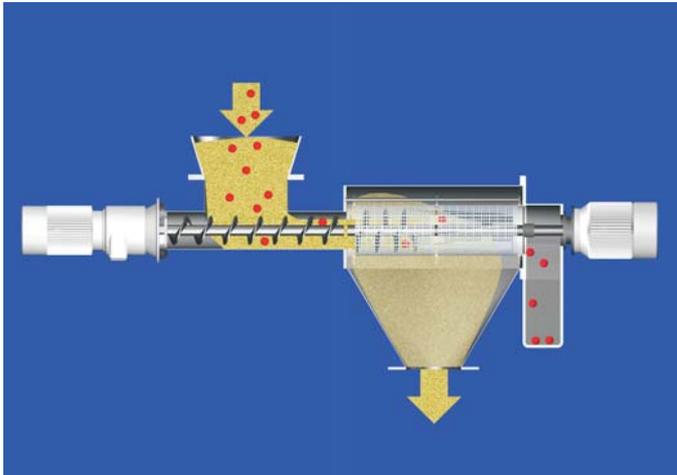
*Our cyclone screening systems have been frequently copied throughout the world, the convincing advantages of the AZO originals, however, have remained unmatched. This makes us proud and shows that we are on the right way.*

### A story of success: from the first machine, made of wood, to today's DA type

In 1949, the founder of the AZO company, Adolf Zimmermann, began with the development of the cyclone screening machine and its realization in wood. This was the foundation stone for the global enterprise that AZO represents today. As the wooden type sold so successfully, it was superseded in the nineteen-sixties by the steel version, produced in four sizes. These

models were soon complemented by versions for interesting special applications, such as a cyclone screener with bag tipping, for usage in a conveying stream or for eliminating solids from liquids, to give only a few examples. With the development of the latest type, DA, AZO has now succeeded in further improving the cyclone screener with the

effect that in installed state it can be easily inspected and cleaned at both the dosing and the screening side by means of extractable swivel devices. Like its predecessors, this new model is developing into a winner, revolutionizing the cyclone screening technology anew.



## How it works

The material reaches the dosing screw via the product inlet and is transported into the screen casing. The dosing required for screening the material can be done to product-specific values by setting the screw speed via a frequency converter. The product is taken over and swirled smoothly through the screen basked by the separately driven intake distributor with fluidizing bars. The fines fall through the screen into the fines outlet, the coarse product is transported to its particular outlet, where it is gently discharged. The special extraction device with rapid fasteners makes it simple to inspect the screen frame by pulling it out and swivelling it to the side. This enables thorough inspection and quick replacement

if necessary. The dosing screw is also quickly extractable by releasing its rapid fasteners. All safety-relevant connections have electrical safeguards (safety switches) which instantly stop the machine on opening. The screen fabric is fastened on rings, can vibrate freely and is thus self-cleaning. The built-in baffle plate prevents too much fine product getting into the coarse-product outlet.



AZO cyclone screener type DA, complete



Extractable dosing screw



Screen frame swivelled out