AZO Cyclone Screener
type FLF 650 for separating solids from liquids

Control screening

Safety screening

Fractioning

Separation of foreign particles

Breaking of lumps

Aeration of products

Preferred applications

For continuous separation of solids from liquids, e.g.

- cheese fines from whey
- butter from buttermilk
- fruit remains from fruit juice
- safety screening in the production of latex and varnish
- preliminary clarification of sewage water
- wherever agglomerates may develop when stirring powder into liquids
- recovery of solids from liquids
- separation of solid chemicals from sewage
- removal of remains in used oil

Special advantages

- Optimum screening results with a minimum of operational effort.
- Extremely short amortization period, sometimes considerably less than half a year.
- High throughput capacities, even with fine mesh sizes.
- Automatic elimination of solids and screen cleaning.
- All product contacting parts are made of stainless steel.
- Sturdy and high-quality design at a favourable price.
- Special design for operations with USDA monitoring.
- Little maintenance required, easy-to-clean design; simple dismantling due to quick-release clamps.
- Screen element can be changed without tools.
- Easy, uncomplicated operation, well-tried
- construction

THE INNOVATION

How it works

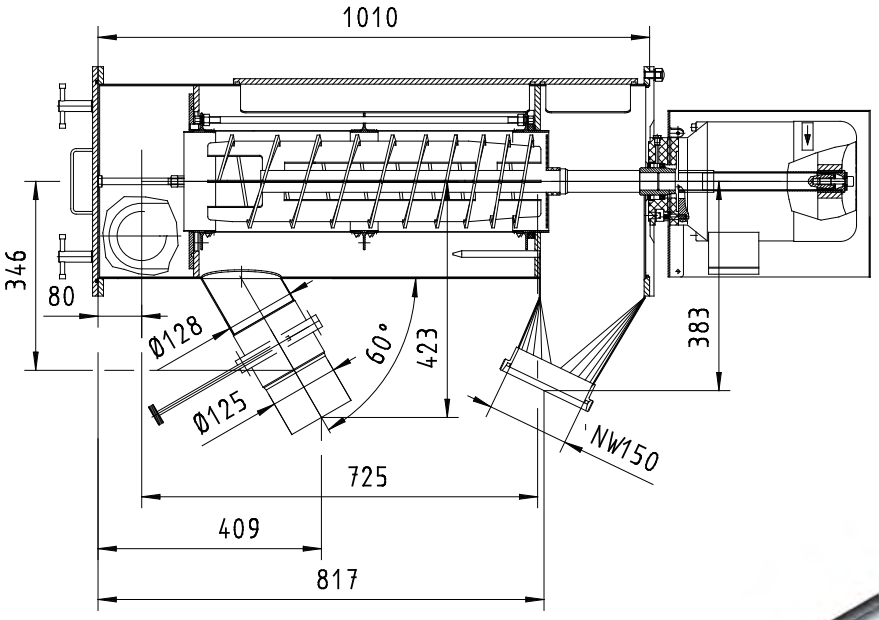
The liquid with the solids is metered continuously and without bubbles into the screener via the inlet pipe. The rotor with the feeding screw transfers the liquid into the screening chamber where it is gently swirled through the screen fabric by the fluidizing bars. The liquid then flows through the screen fabric into a collecting vessel via the liquids discharge. The solids are conveyed to the solids outlet where they are discharged into a chute and transferred to the production process.

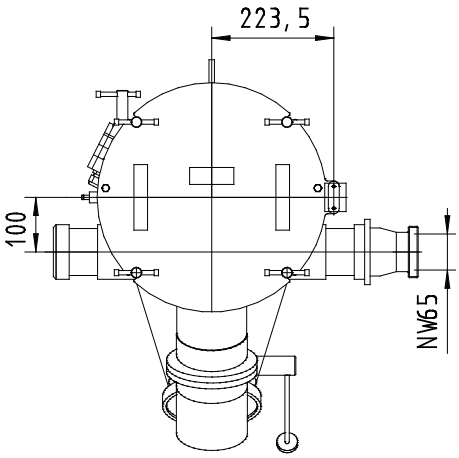
The residence time in the screen chamber and thus the residual moisture of the solids can be influenced within certain limits by the adjustable tilt. The throughput capacity especially depends on the mesh size and the driving speed of the frequency converter (optional). The screen fabric can vibrate freely and thus cleans itself automatically. Blows caused by smaller foreign substances can also be get under control so that there is no damage.

AZO® SOLIDS

3515 1014 GB

Technical data





Type:	**FLF 650**
Drive:	1.5 kW
Rotor speed:	171 - 853 rpm continuously variable
Weight without frame:	160 kg

Screener type FLF 650 in operation.

Screener type FLF 650 in cleaning position.

Output data

Mesh size		Screening outpu
5 - 10 µm	=	up to 5.000 l/h
11 - 20 µm	=	5.000 - 20.000 l/h
21 - 30 µm	=	20.000 - 30.000 l/h
31 - 50 µm	=	30.000 - 40.000 l/h

The above output data are approximate values. Exact data may be provided upon request or can be determined by our technology workshop. The data are based on whey with a solids content of 1-3 g/l.

Large inspection flap for screen control.

Output adjustment

Primarily depends on 4 factors:

- mesh size of the screen
- tilt of the liquids screener
- rotor speed
- flow volume

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