

Screening solutions

# Metso UltraFine Screen (UFS)



# More accurate classification with less variability

The new Metso UltraFine Screen delivers an innovative fine wet screening solution that complements Metso's existing fine grinding technologies for mineral processing industries including metallic, industrial, and aggregates.



## Challenges in Fine Screening

Fine screen media is currently manufactured to a standard size, resulting in limitations in the screening unit capacities. In higher capacity applications, this results in the need for multiple units and a large overall footprint relative to alternative classifiers such as hydrocyclones. In addition, the application of fine screening technology typically requires a higher capital expenditure for a given feed capacity.

## Metso UltraFine Screens

The Metso UltraFine screening technology incorporates several patent pending features to deliver the highest levels of performance, reliability, and maintainability in a compact and cost effective unit.

The new Metso UltraFine high frequency vibrating wet screen is designed for separation from 0.075 to 1 mm, providing greater separation, energy efficiency and reduced water consumption.



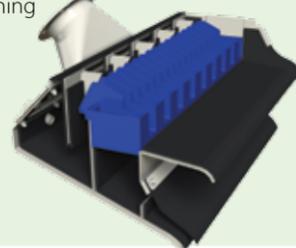
## Key Features

### 1 Accurate Feed Distribution

Innovative feed distributors were incorporated into the UFS design to allow for the compact arrangement of the nested screening decks. These two-way feed splitters provide a mechanism to both split an incoming stream between two screening decks and ensure that the feed is evenly distributed across the width of each individual deck.

**Double the Screening**

**High separation efficiency**



## Benefits of Fine Screening

Fine wet screening offers several key advantages to existing technologies, including:

- Modular concept allowing for multiple screen deck options and easy maintenance.
- Two-way feed splitter designed to evenly distribute feed across pairs of decks.
- Double the screening area of the Derrick StackSizer in the same footprint.
- Highly competitive unit cost while delivering advanced features.

Frontal view



Side view



Top view



## Technical Specifications

Model	UFS 10	UFS 8	UFS 6	UFS 4	UFS 2
Number of decks	10	8	6	4	2
Screening area (m <sup>2</sup> )	15	12	9	6	3
Motor power	2x 3.8 HP				
Speed (rpm)	1800 to 3600				
Stroke (mm)	0.5 to 2.6				
Screen total width (m)	1.8				
Screen total length (m)	5.3	5.1	5.0	4.3	4.1
Screen total height (m)	3.8	3.3	2.9	2.4	1.9
Discharge chutes height (m)	Variable (according to the lay-out)				
Available PU media apertures	0.075, 0.100, 0.120, 0.150, 0.180, 0.220, 0.320, 0.430 and 1mm				

### 2 Reduced Footprint

Using the compact nested design of the Metso UltraFine Screen, the required footprint for screening is greatly reduced. This allows for the potential to realize the benefits of fine wet screening while reducing the required plant footprint and overall capital expenditure.

In applications requiring multiple units, the footprint can be further improved via unique arrangement of two UltraFine Screen assemblies facing a common discharge chute assembly.

### 3 Capacity

In order to address the relatively low unit capacity of a single fine screen, Metso's UltraFine Screen utilizes a modular design with up to 10 individual screen decks nested together into a single vibrating assembly. This delivers double the screening capacity relative to other fine screen technologies in a much more compact overall assembly.

**Modular screen decks provides easy maintenance**



## The Metso Way – Making the big difference to our customers

Everything we do is based on deep industry knowledge and expertise that makes the big difference to our customers. Decades of close customer collaboration and adapting to our customers' ever changing needs have transformed us into a knowledge company.

Through our knowledge and experience, we work with our customers to create solutions that enable them to attain their objectives. We call this The Metso Way, which focuses on creating value to our customers. The Metso Way is built upon knowledge, people and solutions.

## The Metso Way

### MAKING THE BIG DIFFERENCE

The message that covers everything we do



#### knowledge

We have deep knowledge about our customers' business environment, processes and challenges



#### people

Our committed and highly competent people make the difference to our customers



#### solutions

We create the technology and services required to meet our customer needs



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