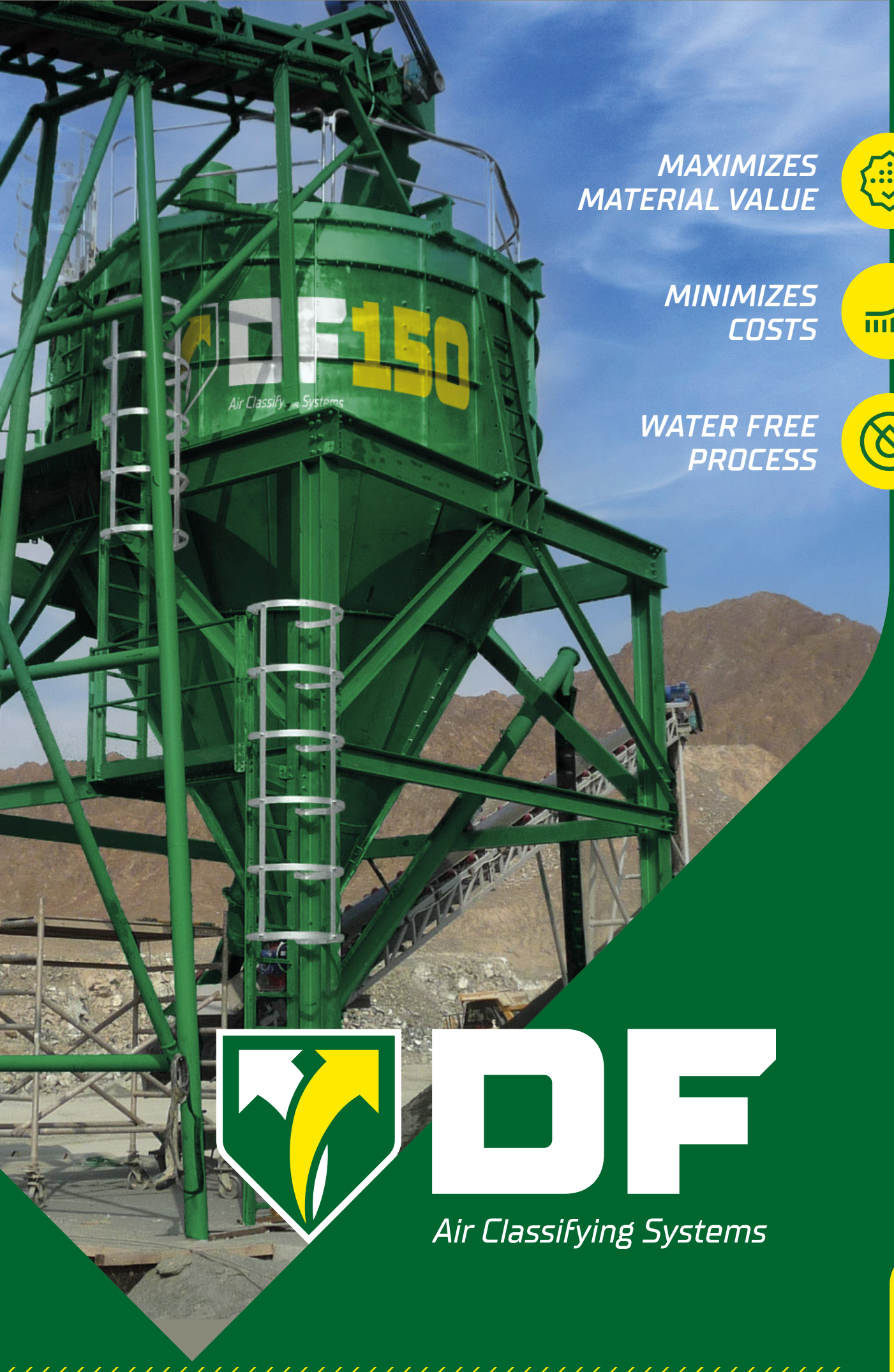


MAXIMIZES MATERIAL VALUE

MINIMIZES COSTS

WATER FREE PROCESS

DF

Air Classifying Systems

MAXIMIZES MATERIAL VALUE

DF puts your otherwise rejected materials **back in the market** at the right value by **dry separating** unwanted fines with a minimum energy and resource requirements.

MINIMIZES COSTS

No water consumption, **No** large **land** requirement, **No** expensive **transport, No disposal** costs, **No** auxiliary **equipment, No ponds, No** material **disposal**

WATER FREE PROCESS

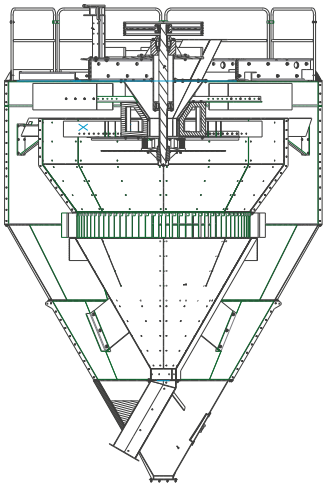
Run a **clean, low-cost, environmentally friendly** operation by **completely eliminating water** from your process. Now you can work where water is either scarce or not available

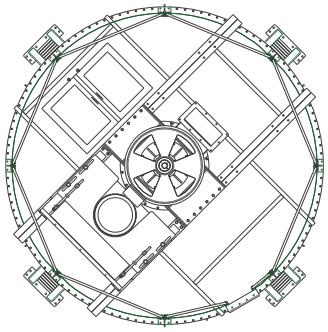
WHAT IS IT?

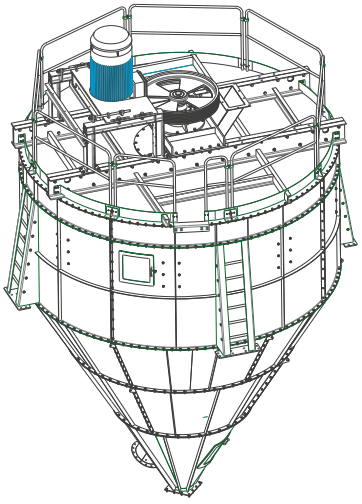
DF
Air Classifying Systems

We at DF Air Classifying Systems manufacture **dry separation** equipment for ultrafines (microns) present in construction sands and all kinds of materials with particle sizes of up to 8 mm, using **air streams** that **completely eliminate** the use of **water** in the **process.**

It consists of two cones (inner and outer) and two impellers (main and auxiliary) with blades made of wear-resistant material to generate a **rotating air circulation action.**





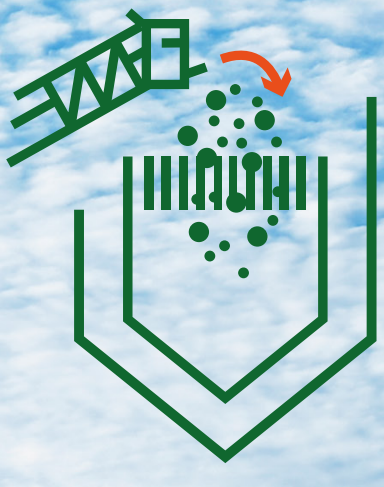


TECHNICAL SPECIFICATION

	DF75	DFX75	DF150	DFX150
Capacity	75 t/h	75 t/h	150 t/h	150 t/h
Wear resistant coating	No	SI	No	SI
Maximum feed size	8 mm	8 mm	8 mm	8 mm
Maximum feed humidity	6%	6%	6%	6%
Power	37 kw	37 kw	90 kw	90 kw
Diameter	3.060 mm	3.060 mm	4.890 mm	4.890 mm
Feed Height	7.363 mm	7.363 mm	9.198 mm	9.198 mm
Transport dimensions	1 x OT-40'(HC)	1 x OT-40'(HC)	1 x OT-40'(HC)	1 x OT-40'(HC)

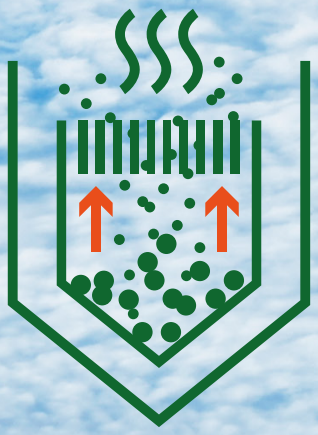
HOW DOES IT WORK?

1



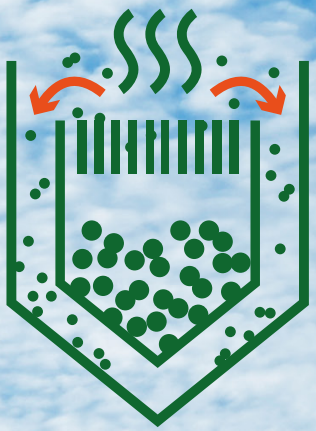
The feed material enters from the top and falls into the machine due to gravity. Two fans, one main and one auxiliary, generate air currents that act on the material and separate it.

2



The lighter particles are lifted by the air and directed towards an outlet duct, while the heavier particles fall to the bottom of the machine and are also directed towards an outlet duct.

3



This results in two separate products: coarse particles and finer particles, which vary in size according to the user's requirements.

*The **volume of air** and the **rotation speed** are key factors for achieving effective separation. **DF systems** are available in two variants with different production capacities.*

APPLICATIONS

AGGREGATES	No land or settling ponds required
	Water-free operation
	Minimal energy consumption
	No need for auxiliary equipment
	The recovered fines are dry and can be sold immediately
ANIMAL FOOD PROCESSING	Higher fine production capacity compared to a screen
	Simple structure, low maintenance, easy to use
	Adjustment without the need to halt production
	Enhanced resistance to abrasive materials
	Easily modifiable for cooling or drying the product
	Safe classification for heat-sensitive materials
	No screens to wear out, block, or break
CHEMICAL INDUSTRY	Coarse product contains higher protein and mineral and reduced ash
ULTRA-FINE RECOVERY IN QUARRIES	Cement manufacturing
	Soil recovery
	Agricultural use
	Landfill
PIGMENTS	Prevents dispersion
	Hot air helps deagglomeration of your product


COLOMBIA
Limestone

NORWAY
Granit

UAE
Gabro

DF

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