

IVA KOREA Co.,Ltd



Plant Design
Engineering
Manufacturing
Consulting

Dynamic Classifier Series IDC

Application:

- Mineral fillers
- Ceramic fillers
- Food
- Chemical products
- Other soft to hard minerals

Performance:

- Fines Capacity 40 to 20.000 kg/h
- Fineness $d_{97} = 20 \mu$ to 150μ

Features:

- Air separator with up to three independent drives for ventilator, classifying rotor and dispersing disc
- Cut point easily changed without stopping or opening the machine
- Rapid changeover from one product specification to another by altering the rotor speed via frequency converter
- Low operating speed for minimum wear
- Low power consumption requires no external fan or product collection system
- Unit construction inhibits dust emission
- Easy access for inspection and cleaning
- Robust construction and build quality for long service life
- Construction material mild steel or stainless steel
- Option abrasion resistant lining available in steel, rubber, polyurethane or ceramic



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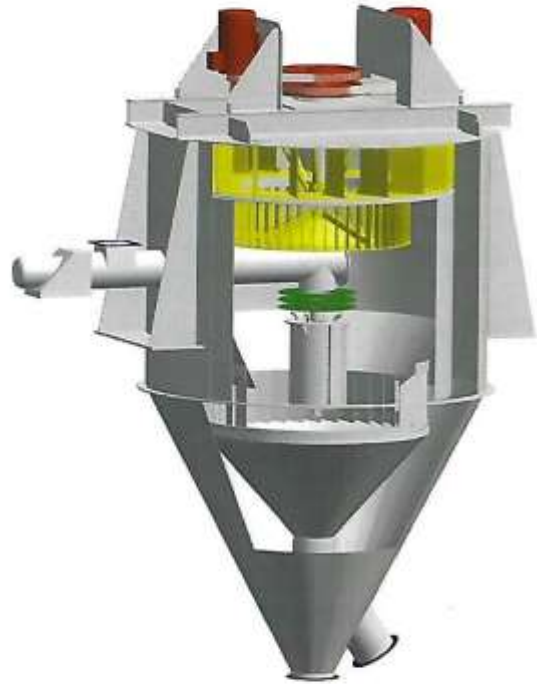


Operation:

Inner and outer casing form a cylindrical-conical double casing are connected via the main fan at the top and the guide vane system at the bottom. The main fan generates the helically rising air stream in the classifying space. The product to be classified is conveyed into the classifying space via a feeding device (central feed pipe, screw conveyor or air slide conveyor), onto the rotating dispersing disc and scattered into the air stream.

Owing to the influence of centrifugal, gravity and air resistance forces, the product is classified into coarse and fine fraction. The fine product carried by the air stream passes through the regulation rotor and the main fan. The fines is discharged in the separation chamber by the cyclone effect. The coarse product falls into the coarse collecting cone and will be discharged. The circulating air cleaned from the fine product returns into the classifying chamber via the annular guide vane system.

The cut size can be set through the circulating air volume by changing the speed of the main fan and/or by the circumferential velocity of the circulating air by changing the speed of the regulating rotor.



Technical Data:

Model IDC		15	18	21	25	28	32
Feed rate max.	[t/h]	11	17	25	35	55	80
Fines output d_{50}	[t/h]	0,4 - 2,2	0,7 - 3,5	1,0 - 5,4	1,3 - 7,5	2,1 - 12,0	3,0 - 17,0

with reservation of trials with original product