

# Classiel for lab Type N-01

CLASSIFIER



## FEATURE

- The main body of classifier and miscellaneous equipment are packaged for research and exploitation.
- Classification-point can change extensively by adjusting revolving number of classification rotor and air flow rate.
- Performance of classification of this machine is capable of scale up to midrange or large machine.
- all parts which touch powder can be dismantled, cleaned and washed easily, so there is no worry of contamination.



## FEATURE

Type	Air volume (m³/min)	Throughput (t/h)	Rotor speed (min⁻¹)	Motor power (kw)
N-5	5	0.01~0.1	9000	3.7
N-20	20	0.1~3.0	~6100	3.7~7.5
N-50	50	0.3~7.5	~4100	5.5~15
N-80	80	0.5~12.0	~3400	11~22

※The specification will change depending on the situation.

### ●N-01 specification

Revolving rotor speed	: Max 15,000
Air volume	: 1~2.5
Classification-point	: 1~200
Throughput	: 0.5~5
Motor power	: 1.5
Dimension	: 1200W×800D×1700H
Estimated weight	: 400

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Manufacturer : PAT.Taiheyo engineering Co.,Ltd.



High-Performance Air Separator for Fine Material

CLASSIEL

SEISHIN  
ENTERPRISE CO., LTD.

CLASSIFICATION

# CLASSIEL High-Performance Air Separator for Fine Material

## FEATURE

1. Using the forced vortex by rotation of rotor together with the free vortex which is rectified by guide vane could minimize turbulence in classification-room.
2. Because the angle of guide vane could change voluntarily, material density which is in classification-room could be took to the classification rotor side. also, there is rarely influence by specific gravity classification material, so the classifier can remove coarse particles in materials and can enhance the productivity.
3. Due to the primary dispersion of dispersion plate by upper classification rotor and secondary dispersion by collision plate, single particles of classification materials will be implemented.

Beautiful flowing..... A wonderful encounter with free vortex and forced vortex.

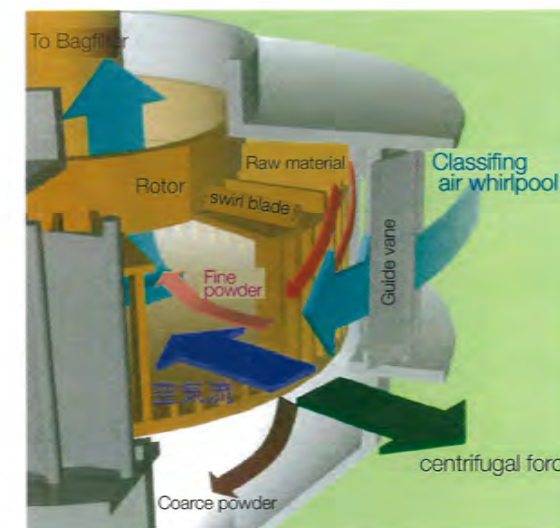
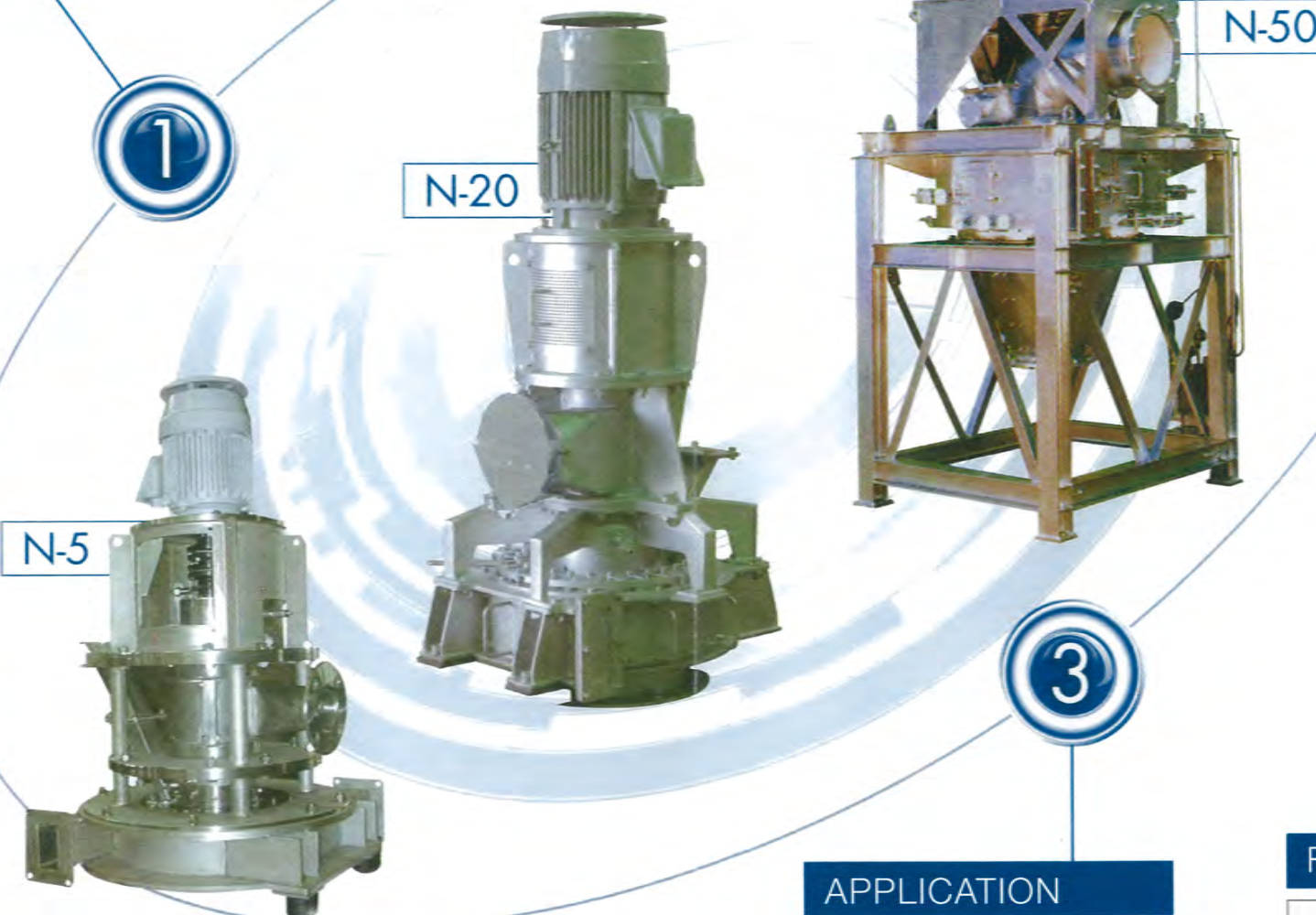
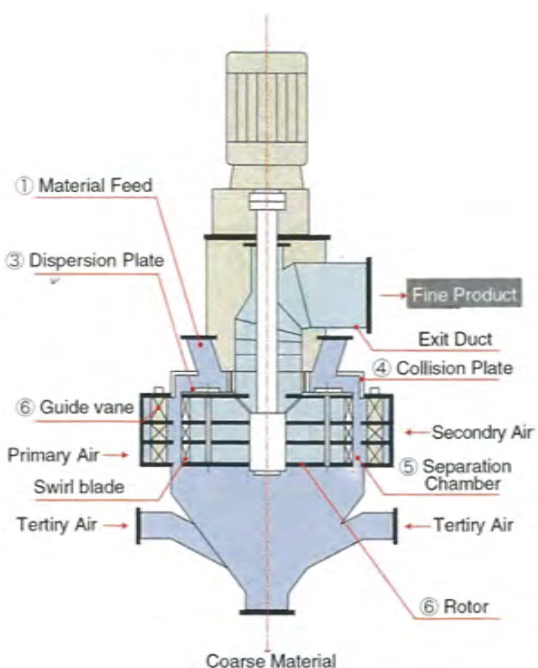
## CLASSIFICATION

## PRINCIPLE

The classification materials are thrown into machine from material input port, then the classification materials which are dispersed by dispersion plate(A) and collision plate fall to the classification-room as circling around the classification rotor.

In classification-room, dispersion materials circle with classification air vortex which is rectified by guide vane(E). Due to the balance between circle centrifugal force and airflow which flow forward the center of classification rotor, the classification materials will be classified into coarse powder and fine powder.

Coarse powder go down as circling around circumference of classification rotor, and move to hopper which retrieve coarse powder. fine powder will be borne on airflow from classification airflow vortex, and sucked into classification rotor, finally, fine powder will be retrieved by bag filter via fine powder duct.

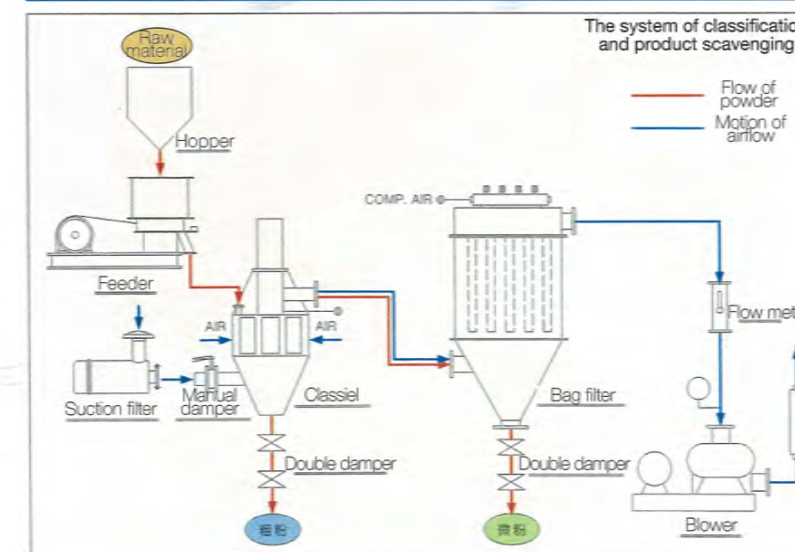


Classifying principle

## APPLICATION

- mineral (CaCo<sub>3</sub>, dolomite, talc)
- resin, chemicals
- toner
- ceramic raw material (feldspar, crystal, zircon, wallastonite)
- food, agrochemical product, medicine
- fine powder for fine ceramics
- metal
- flyash, silica sand, special cement, gypsum
- others high-performance powder

## Flow sheet



## Classifying performance

Several examples of Tromp's curve

