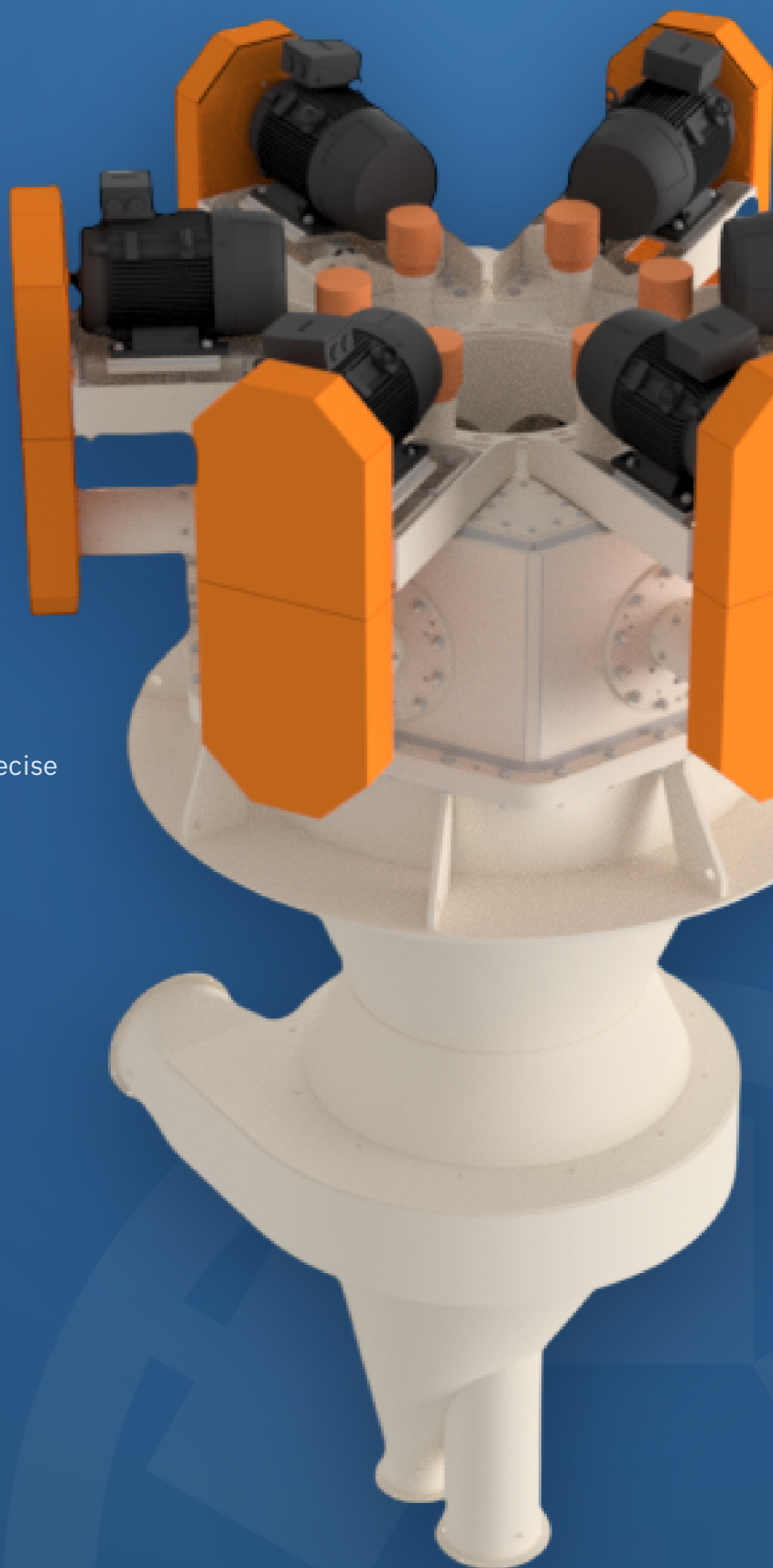


**THS SERIES**

# AIR CLASSIFIER

A high-efficiency air separator system for precise particle-size control.



# PRECISE PARTICLE SIZE CONTROL

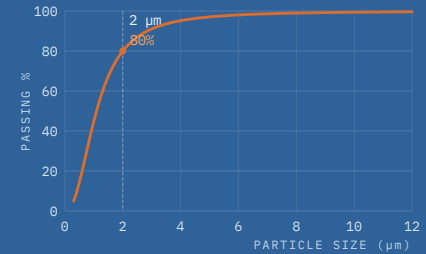
**T**he THS Air Classifier is a high-efficiency air separator developed for classifying dry mineral powders with precise particle-size control. It is engineered to deliver high efficiency and sharp separation across the ultrafine range.

Through independent control of rotor speed and air flow, a target cut size of  $d_{50} \leq 1 \mu\text{m}$  is achieved, with a sharp separation limit and a narrow particle-size distribution. Low pressure drop and low specific energy consumption ensure economical and reliable operation.

Operating in a closed circuit with ultrafine grinding lines, the system enables the production of premium-quality micronized products for the plastics, paint, paper and pharmaceutical industries.

## CUT SIZE CONTROL

CUMULATIVE PASSING %



— 80% < 2 μm

## KEY FEATURES

01

### SHARP SEPARATION

$d_{50} \leq 1 \mu\text{m}$ ; sharp cut limit and narrow particle-size distribution.

02

### INDEPENDENT CONTROL

Rotor speed and air flow are adjusted independently for flexible fineness control.

03

### LOW ENERGY

Low pressure drop and low specific energy consumption.

04

### WEAR PROTECTION

Long service life through a wear-resistant rotor/blade design.

05

### LOW CONTAMINATION

Material selection that minimizes metal/iron contamination.

06

### EASY INTEGRATION

Easy, closed-circuit integration into grinding lines.

# TECHNICAL SPECIFICATIONS & MODELS

## MODEL OPTIONS

| PARAMETER            | THS-030-4       | THS-030-6       |
|----------------------|-----------------|-----------------|
| Capacity             | 0.5 – 1 t/h     | 1 – 3 t/h       |
| Target particle size | d97 ≤ 5 – 10 μm | d97 ≤ 5 – 10 μm |
| Rotor speed          | 600 – 6000 rpm  | 600 – 6000 rpm  |
| Motor power          | 88 kW           | 132 kW          |

## APPLICATIONS

- Calcite, limestone and dolomite
- Talc and similar soft minerals
- Micronized mineral fillers

## WORKING PRINCIPLE

The dry feed powder is directed toward the rotating classifier rotor together with the air stream. The balance between the rotor’s centrifugal force and the drag force of the air flow determines the cut size: fine particles are collected as product, while coarse particles are returned. Independent adjustment of rotor speed and air flow rate ensures sharp and repeatable separation.



Forms a closed-circuit grinding–classification line together with the **TAM Beads Mill**.

WHY TDD TECHNIC

# ENGINEERING THE MICRON UNDER ONE ROOF.

01

## ULTRAFINE LEVEL

Original machine design and manufacturing at the ultrafine particle-size level in Türkiye.

02

## SINGLE-SOURCE SOLUTION

Engineering, machine manufacturing and spare-part supply under one roof.

03

## CORE PRODUCT GROUP

The THS Air Classifier is the core product group that TDD Technic manufactures and services in Türkiye.

## LET'S BRING YOUR PROJECT TO LIFE

Let's assess your needs with our expert team — request a quotation.



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