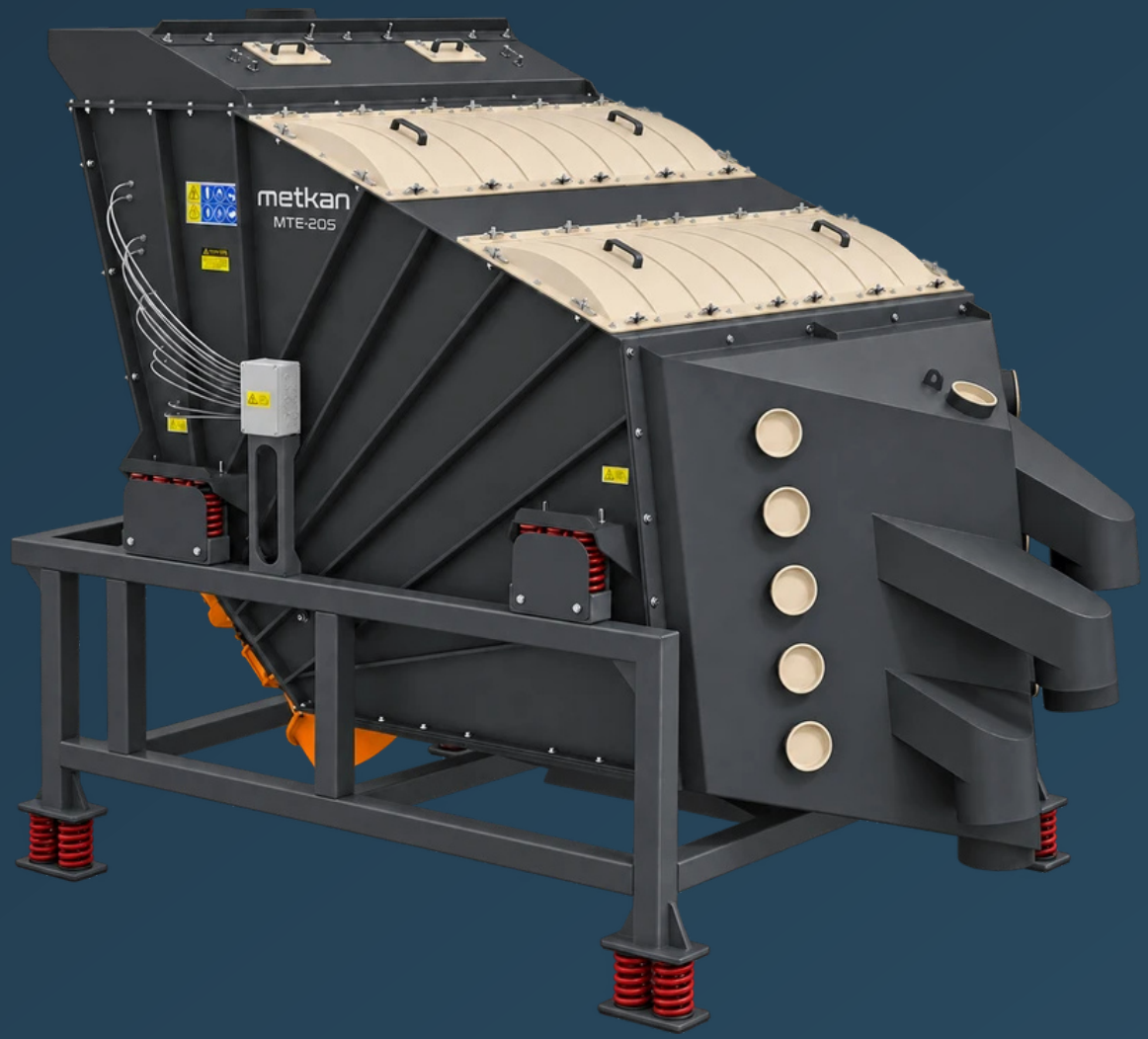
metkan

MTE Vibrating Screen



Multi-deck vibrating screening for fine material applications. Five sizes, each available with 1–5 decks, to suit your material.

APPLICATIONS

Calcite and mineral screening · Quartz sand and dry mortar · Closed-circuit classification

Operation and maintenance.

The Metkan MTE vibrating screen is designed to classify dry fine-grained and granular materials. This fine screening range is selected according to the target fractions in mineral applications such as calcite and quartz sand.

01

Feeding

Material is distributed evenly across the screening surface.

02

Classification

Vibratory motion moves the material across the screen surfaces. Feed distribution, drive settings and support structure are assessed for the process conditions.

03

Fraction discharge

The separated products move through their respective outlets to the next process step.

MACHINE DETAILS



01 Multi-deck screening

Each size is available with 1, 2, 3, 4 or 5 decks. Screen apertures and outlets are planned together for the required product fractions.

02 Vibratory drive

Vibratory motion moves the material across the screen surfaces. Feed distribution, drive settings and support structure are assessed for the process conditions.

APPLICATIONS

Calcite and mineral screening

Classification into target size fractions after crushing and grinding.

Quartz sand and dry mortar

Preparation of sand fractions for the recipe and separation of fines.

Closed-circuit classification

Separation of the finished fraction and return of oversize material to crushing or grinding.

Technical data.

Evaluate model selection together with material properties, target capacity and plant layout.

Technical specification	1000 × 2400	1500 × 2400	2000 × 2400	2000 × 3600	3000 × 3600
Width mm	1000	1500	2000	2000	3000
Length mm	2400	2400	2400	3600	3600
Deck options	1 / 2 / 3 / 4 / 5	1 / 2 / 3 / 4 / 5	1 / 2 / 3 / 4 / 5	1 / 2 / 3 / 4 / 5	1 / 2 / 3 / 4 / 5
Total motor power	4.4 - 7.8 kW	4.4 - 8 kW	8.5 - 15 kW	16.8 - 20 kW	22 - 31 kW
Machine weight kg	2 200 - 3 100	2 400 - 3 900	4 200 - 6 000	6 500 - 9 000	10 000 - 14 000

Selection notes

Dimensions are shown as width × length. Each size can be independently configured with 1, 2, 3, 4 or 5 decks.

Power ranges are the combined catalogue input power of both motors; calculations use 50 Hz, the 1000 rpm class and a total stroke of 5 mm (±2.5 mm amplitude).

Machine weight includes the motors and support frame, excluding the material load. Values vary with the number of decks and equipment. Final weight is established during project engineering.

The calculation adds a material load of 10% to the vibrating mass. Final power, eccentric setting and stroke are verified using the final mass, spring calculations and measurements under load.

Technical data support preliminary selection. Final capacity, power, dimensions and supply scope are defined in the technical quotation.

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From machine to plant. Engineering in every detail.

Metkan develops machinery and plant solutions for construction chemicals, minerals and aggregates. At our manufacturing centre in Elbistan, we consider equipment together with feeding, conveying and production flow.

Four inputs for selection

01 **Material and product**

Material properties; for bagged products, bag type, dimensions and weight.

02 **Process target**

Inlet conditions, required product and the next production stage.

03 **Production target**

Target hourly capacity, operating hours and production pattern.

04 **Installation**

Inlet/outlet levels, connections, drive and maintenance access.

Projects and sales

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Catalogue data support preliminary selection. Final capacity, power, dimensions and supply scope are defined in the technical quotation. Images represent the product family; configurations may vary.