



Mill Series – JCF



Equipment Specifications

The JCF series grinding mill is a new combined system, consisting of a horizontal grinding unit and a selection drum, in a single compact machine.

The maximum allowable particle size at material ingress is 15 mm, and the degree of fineness of the end product ranges from 8 to 150 μ .

This system is universally suitable for most products with a maximum hardness of around 3.5 Mohs.

It can also be adapted for materials with a hardness of 7 Mohs when constructed with specific anti-wear materials.

The grinding and classifying chamber can easily be opened, with the aid of a pneumatic mechanism, for inspection, cleaning and maintenance.



Principles of Operation

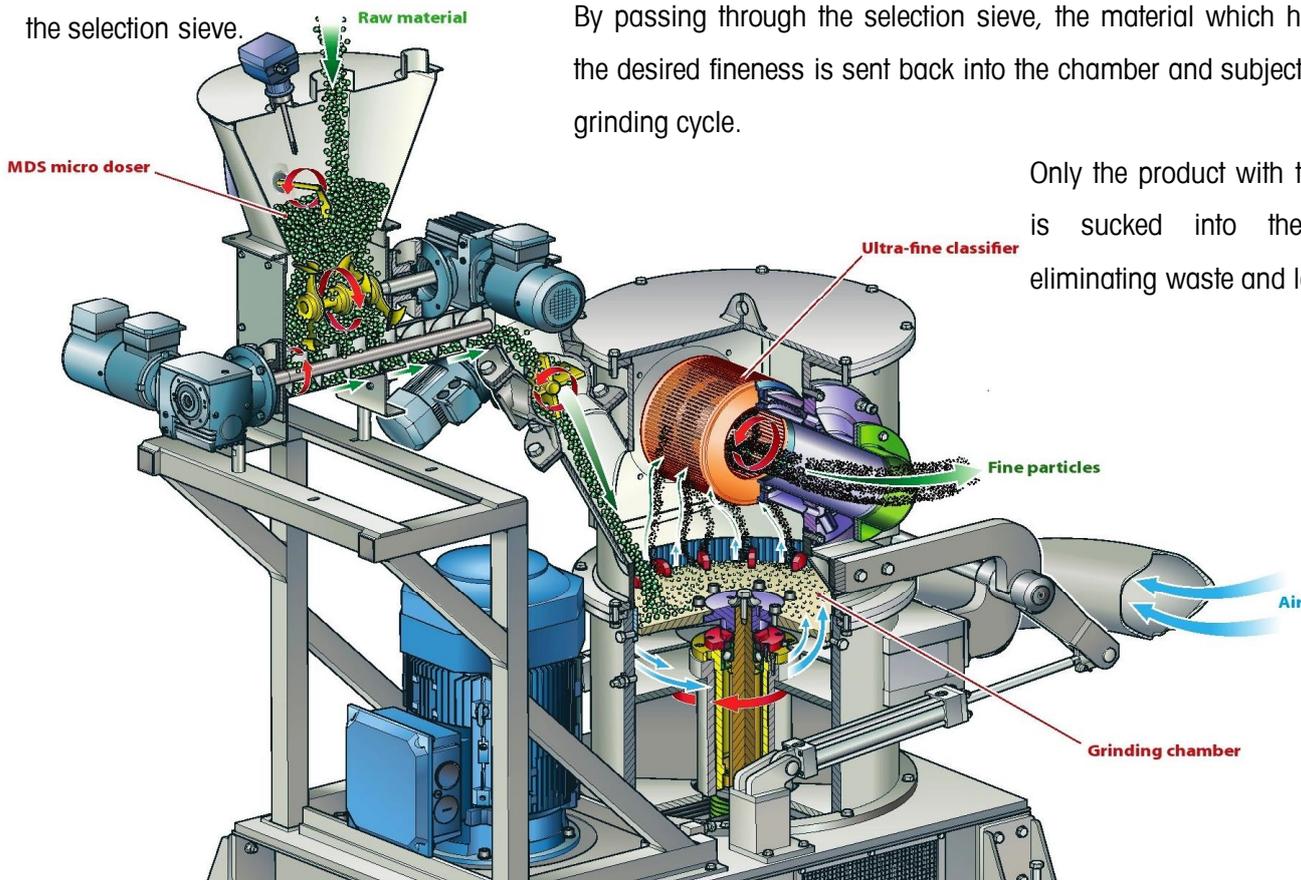
The product to be milled is introduced into the grinding chamber from above, via a variable capacity feed screw, and then by star valves which insert the product directly into the center of the impact chamber.

Here the particles smash against each other and against the grinding mechanism; for a more efficient grinding action, the material is subjected to collision, friction and cutting in the space between the grinding mechanism and the toothed lining of the chamber.

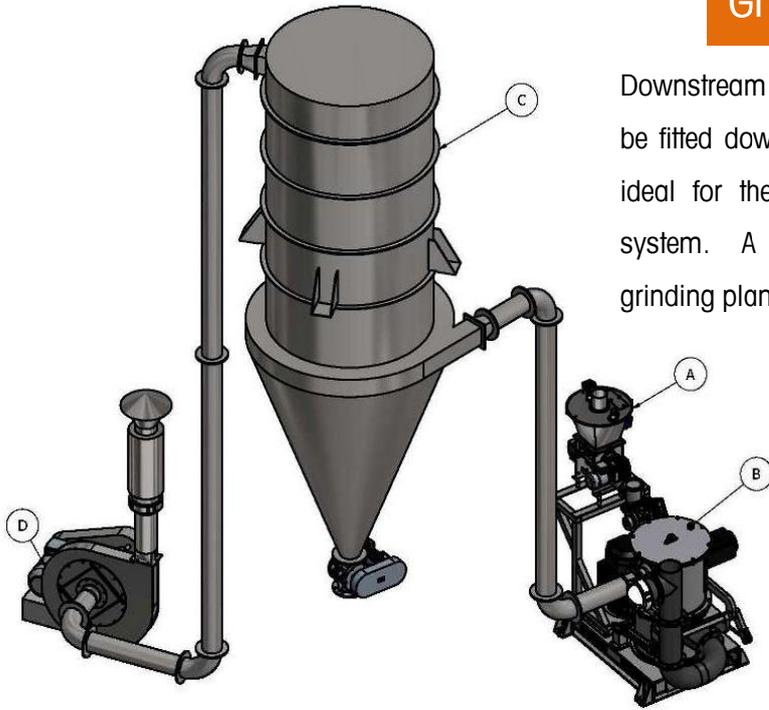
The milled material is conveyed via an extraction fan to the ultra-fine classifier, of adjustable rotational velocity, passing through the selection sieve.

By passing through the selection sieve, the material which has not yet reached the desired fineness is sent back into the chamber and subjected to an additional grinding cycle.

Only the product with the correct fineness is sucked into the transport tube, eliminating waste and loss of material.



Grinding Mill Plant



Downstream of the grinding machine, this flexible and modular plant can be fitted downstream of the process with a multi-pipe propulsion system, ideal for the transport of micronized material, and/or with a bagging system. A variety of dosing systems can be integrated into a single grinding plant.

Complete Grinding Mill Plant:

- ~ Dosing system (A)
- ~ Grinding mill (B)
- ~ Dedusting of micronized product (C)
- ~ Suction fan (D)

Technical Data – Mill Series JCFF

STM Mill Series		Total Installed Power	Total Power Consumption	Hourly Production	Supply	Particle Size*	Volume Airflow	Pressure	Dedusting Filter
type	size	kW	kW	Range kg/hr			m ³ /hr	mmH ₂ O	m ²
JCFF	300	18.4	16.6	40 - 450	< 10 mm	d.90 < 20µm d.50 < 5µm	1600	500	12.0
JCFF	400	29.2	26.3	100 - 1000	< 10 mm	d.90 < 20µm d.50 < 5µm	3000	800	24.0
JCFF	600	64.2	57.8	100 - 1400	< 10 mm	d.90 < 20µm d.50 < 5µm	5000	800	30.0
JCFF	800	98.0	88.2	100 - 1800	< 10 mm	d.90 < 20µm d.50 < 5µm	12000	1000	55.0
JCFF	1000	129.0	116.1	250 - 3000	< 10 mm	d.90 < 20µm d.50 < 5µm	20000	1000	91.0

* Data Reference: CALCIUM CARBONATE

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Operational Advantages

- ~ Highest energy efficiency
- ~ Low noise levels
- ~ Low maintenance
- ~ Compact design with reduced space requirements
- ~ Highest quality and reliability
- ~ Easy cleaning and maintenance
- ~ Ability to grind a wide range of materials

Know How

IMPACT MILL JCFF (Granulometry database available):

Clay	Sodium Carbonate	Aluminum Hydroxide	Ferrous Sulfate
Bakelite	Activated Carbon	Wood (chipped)	Antimony Sulfide
Bauxite	Mineral Carbon	Lithopone	Molybdenum Sulfide
Bentonite	Choline Chloride	Mica Muscovite	Talcum
Sodium Bicarbonate	CMC	Soft mineral oxides	Rare Earths
Hydrated Lime	Cromite	Lime Oxide	Potassium Titanate
Kaolin	Feldspar	Magnesium Oxide	Wollastonite
Barium Carbonate	Fluorine	Zinc Oxide	Sulfur
Calcium Carbonate	Natural Graphite	Perlite	
Magnesium Carbonate	Synthetic Grafite	Pyrite	

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