Impact Mill combined with
Dynamic Air Classifier system

STM Microtec

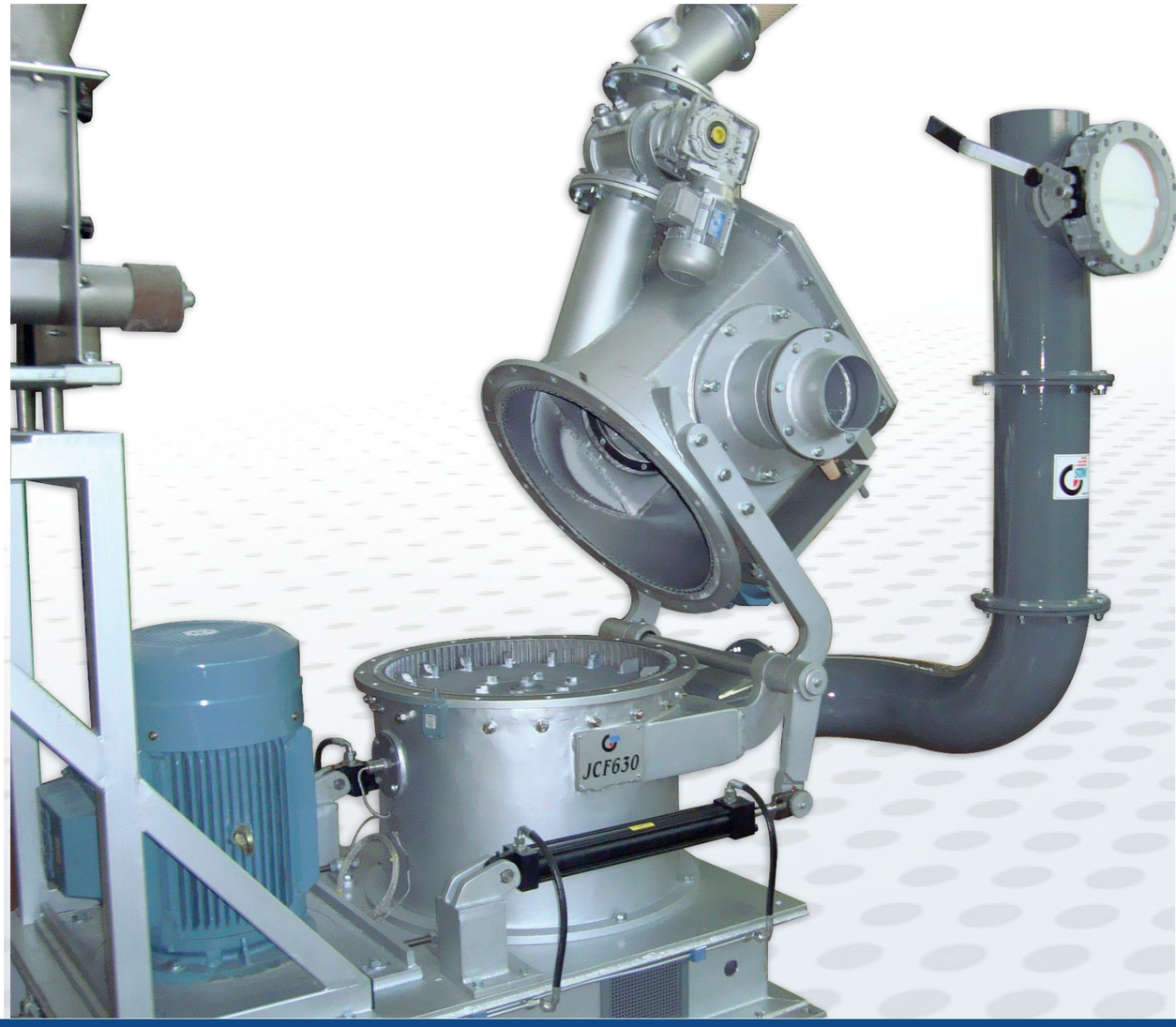
Since 1971 STM Microtec provides integrated solutions and tests for milling and dosing technologies. A wide and complete range of customized services, from single machine to complete packages for industrial and environmental applications.

Remote Assistance

Remote assistance for the verification and optimization of all operating parameters by STM technicians with the possibility of resolving anomalies without intervention, using remote connection technologies. Periodic maintenance plans for complete control and verification of the entire system.
One annual intervention with replacement of wear elements (hub/fan bearings - grinding hammers ...).

Test Plant and Laboratory

STM is equipped with a complete laboratory where every kind of test and analysis relating to grinding and classifying can be carried out.
By exactly simulating the performance of machines installed at clients' premises, productivity can be optimized in terms of technology and economics.



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STM MICROTEC

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Serie JCF

Grinding products has never been easier!

GMP Good Manufacturing Practice · USDA · FDA · CE · PED

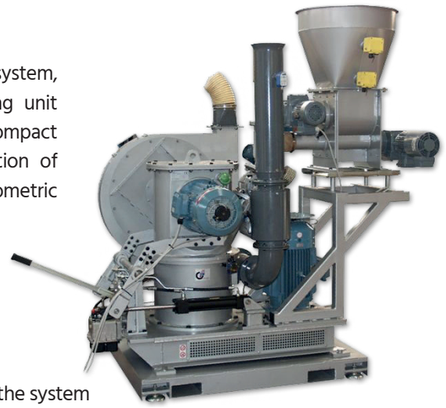
Battery · Ceramic · Chemistry · Environment · Food · Plastic

More performance, less consumption

JCF grinding mill is a new combined system, consisting of a horizontal grinding unit and a selection drum in a single compact machine. It allows the micronization of products with a narrow granulometric curve.

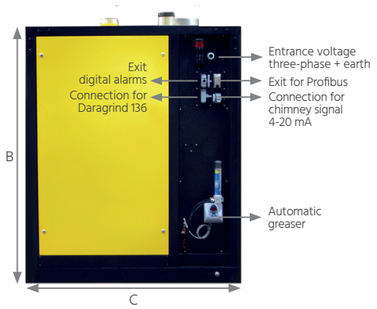
Benefits:

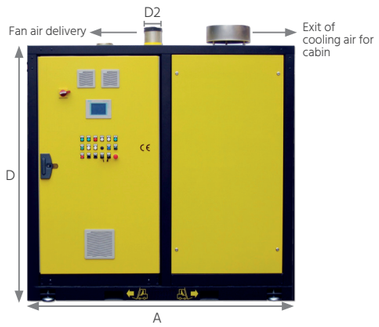
- Low energy consumption
- Low acoustic emission
- Minimal maintenance
- Elevated reliability and quality of the system

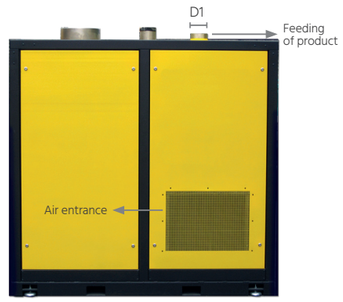


Mod. JCF 400

Mod. CABINMILL PRO 400







Dimensions and weight	A	B	C	D	D1	D2	Weight
CABINMILL PRO **300**	2.000mm	2.120 mm	1.600 mm	2.270 mm	154 mm	114 mm	1.780 Kg
CABINMILL PRO **400**	2.200mm	2.120 mm	1.750 mm	2.270 mm	154 mm	154 mm	2.150 Kg
CABINMILL PRO **630**	3.000mm	2.300 mm	2.000 mm	2.450 mm	154 mm	180 mm	3.200 Kg

JCF & CABINMILL PRO technical specifications

Model	Total installed power	Total absorbed power	Air capacity m^3/h	Pressure mm H_2O	Fineness	Capacity per hour	Hourly consumption kW/Ton	Noisiness
300	18,4 kW	14,8 kW	800	500	d90 < 30 µ d50 < 15 µ	10 - 250 Kg	60	< 75 dBA
					d90 < 20 µ d50 < 5 µ	10 - 150 Kg	100	
400	29,2 kW	23,5 kW	1.500	800	d90 < 30 µ d50 < 15 µ	40 - 450 Kg	55	< 75 dBA
					d90 < 20 µ d50 < 5 µ	40 - 300 Kg	85	
630	64,2 kW	51,5 kW	2.700	800	d90 < 30 µ d50 < 15 µ	100 - 1000Kg	52	< 75 dBA
					d90 < 20 µ d50 < 5 µ	100-600 Kg	85	
800	98,0 kW	78,5 kW	4.700	1000	d90 < 30 µ d50 < 15 µ	100 -1400 Kg	55	< 75 dBA
					d90 < 20 µ d50 < 5 µ	100 -900 Kg	83	
1000	129,0 kW	103,0 kW	6.000	1300	d90 < 30 µ d50 < 15 µ	100 -1800 Kg	54	< 75 dBA
					d90 < 20 µ d50 < 5 µ	100 -1200 Kg	82	

*Details and dimensions may be subject to modification during engineering phase or change without notice.

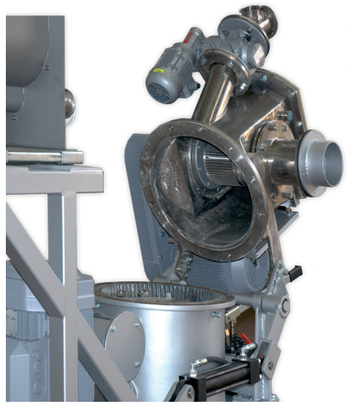
JCF's fundamental advantages:

Horizontal geometry

Since 1971 STM has been developing and proposing advanced technologies in the field of fine and ultrafine grinding.
Thanks to the perfect integration of mechanical and electronic technology, JCF guarantees high performance in terms of reliability, productivity and energy saving, because almost all the power is used for grinding and not dissipated as thermal energy.

Vibration control of the mill and fan

Thanks to the innovative sensors, cleaning and maintenance operations are reduced to what is strictly necessary and can be scheduled well in advance.



Ease of maintenance

Typical installation

Total control of the air flow

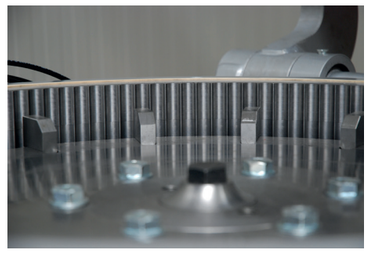
To ensure perfect correspondence to the desired particle size and to obtain a correct dilution of the product, the air flow is continuously regulated by an inverter that modulates the fan speed.
The pressuremeters installed in the grinding chamber and on the exit pipe of the fan evidence the forming of incrustations or obstructions and signal, on the control panel, the necessity to program an intervention of cleaning.

Temperature control of the grinding chamber

Thanks to a probe that detects the temperature inside the grinding chamber and the ability to set two intervention thresholds, it is possible to adjust the temperature to the most suitable values for each specific installation.

Automatic controlled greasing

Thanks to the advanced control unit, the correct amount of grease is dispensed frequently and in small doses. The machine is also interfaced with the PLC to signal any obstructions in the lubrication ducts or the need to refill grease in the tank. This allows important economic savings on extraordinary maintenance and a significant reduction in unscheduled machine downtime.



Easy to install and to maintain

Designed to be positioned in the pre-established point and leveled with a simple adjustment on the silent-blocks support, JCF does not need to be fixed to the ground. It is inserted inside a soundproofing booth equipped with internal lighting and easily removable panels in order to access all internal components easily and in complete safety.

Automatic cleaning system

A peristaltic pump for the dosing of non-sticky additives prevents the formation of incrustations on the impellers of the mill, the fan and in the pipes. The control system adjusts the quantity according to the quantity of sodium bicarbonate being grinded to keep it constant at the desired value (normally 1.5 ‰).

Automatic cleaning system