

The **DUPLEX MICRO** type mills manufactured by **GRUBER HERMANOS, S. A.** are indicated to grind or micronize **soft materials** to particle sizes **smaller than 500 microns**.

The Duplex Micro mill has two drive motors, one on each plate of pins which rotate in opposite directions. In this way, adding the rotational speeds of the two plates, are achieved, without classification or later stages of screening, products with less than 100µm particle size.

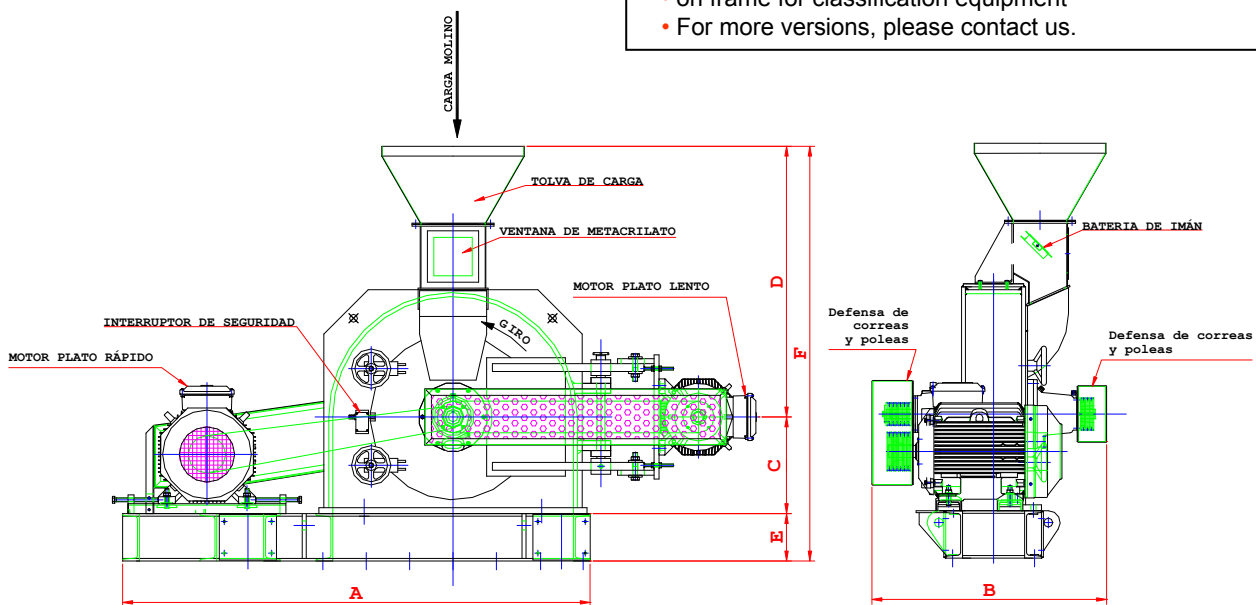
This type of mills can easily **replace** some complex micronizing installations and **cut down on running costs**: price, energy consumption, maintenance expenses are lower). In addition, their rugged construction and design assures a long operating life and a lower down time costs.



Dúplex 26-MICRO

### usual executions:

- on frame (according to sketch)
- supported by legs
- hopper to worm screw construction, conveyor belt, etc...
- on frame for pneumatic conveyer
- on frame for classification equipment
- For more versions, please contact us.



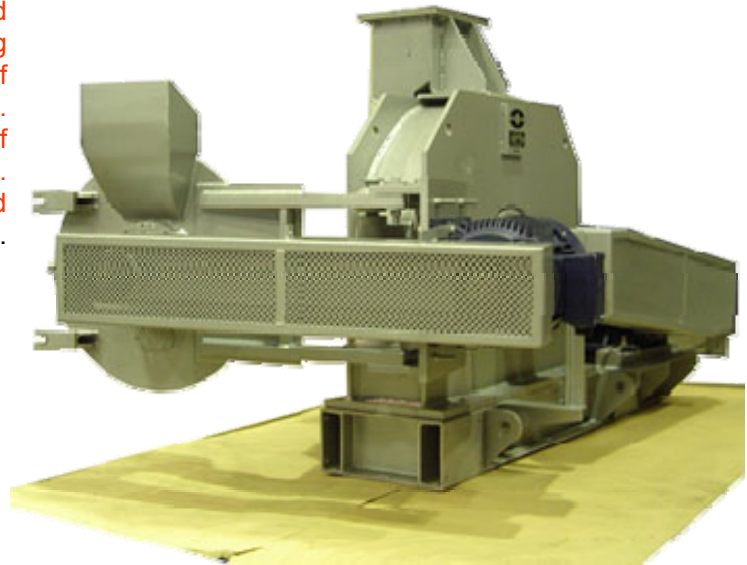
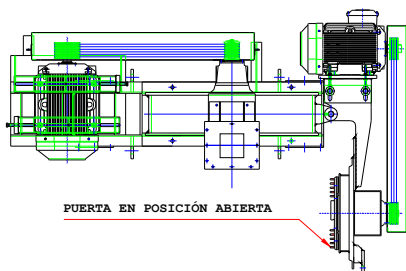
TIPO	CLASE	elementos de molienda	rpm	KW (HP)	A	B	C	D	E	F
Dúplex 26	MICRO	pitones	9 000	22/37 (30/50)	2 400	1 200	490	1 350	240	2 100

\*Medidas orientativas en milímetros, sujetas a confirmación

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GRUBER HERMANOS, S. A. has revolutionized the mill design enabling duplex MICRO opening the door without the uncomfortable work of removing the defense or belts. The slow motor plate rests directly on the hinge of the door opening. A safety system prevents the door to be opened while the pins plates are spinning.



Detail of the door of the Dúplex 26-MICRO

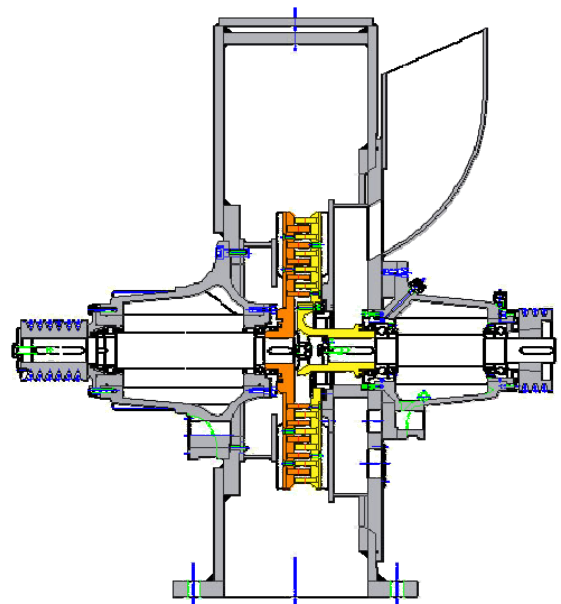
### Operating Rules

Pins Duplex Micro Mills have 2 plates, with several rows of pins arranged circularly. Those rows are concentric so the product introduced into the Mill must go through them while spinning at high speed, producing a pure impact reduction.

Reduction capacity and production of the Mill is a function of the rotational speed of the plates. Higher speed, higher production, thinner product.

In the Duplex MICRO Mill the plates spinning in counter-rotating. The fast plate (in the body) rotates to 6.000 rpm and the slow plate (at the door) rotates to 3.000 rpm. The sum of the speeds of the two plates is 9.000 rpm.

In the Duplex MICRO Mills the grinding becomes micronization.



Sectional drawing of the Dúplex MICRO

If you want to know more about machinery/equipments manufactured by GRUBER HERMANOS, do not hesitate to contact our technical department. They are at your disposal and will provide a **solution** tailored to your needs.

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