



NIBROTOM 4000 pregrinder of cocoa, peanuts and other oil bearing seeds

The product

The machinery manufactured by Duyvis/Wiener is well known to the cocoa and chocolate industry. The Nibrotom 4000 has been designed specially for the pre-grinding of cocoa nibs, nuts, almonds and other seeds with a high fat/oil content.

The Nibrotom 4000 combines optimal results and an excellent particle-size distribution with a relatively low wet-screen residue. This provides the best possible performance and product for all down stream refining equipment.



The process

The raw material is fed into the chamber from the top via a screw conveyor and a magnetic filter. While the nibs fall down they are broken and refined by the knives that rotate with approximately 1500 rpm, resulting in the mass becoming fluid. When the refined material is passed through a sieve, which is positioned around the grinding chamber, the required fineness has been obtained. The mass is then collected in a circular chamber around the screen and leaves the Nibrotom 4000 through a discharge opening.

Advantages

- Central product inlet in product vortex: Better PSD curve due to less tendency to "splatter" dry nibs.
- Exhaust suction placed in the middle, for more efficient cooling and cleaner exhaust.
- Re-designed knife holder for more efficient grinding and a longer lifespan of the knives.
- Magnetic filter with 6 rotating bars for better filtration and less frequent cleaning.
- New design sieve profile, which results in 10% larger throughput and 10% more grinding area.

Technical specifications

NIBROTOM 4000

Type	Capacity up to*	Installed power (total)	Dimensions (lxwxh)	Weight (empty)
Nibrotom 4000	5000 kg/hr	200 kW	3140x1600x3040 mm	4500 kg

* Capacity is influenced by, product, bean type, harvest season, cleaning, moisture content, way of roasting, required fat content etc. By fat content of nibs between 46-50%, the Nibrotom 4000 facilitates adding additional butter.



COCOA, COMPOUND AND CHOCOLATE EQUIPMENT

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WIENER