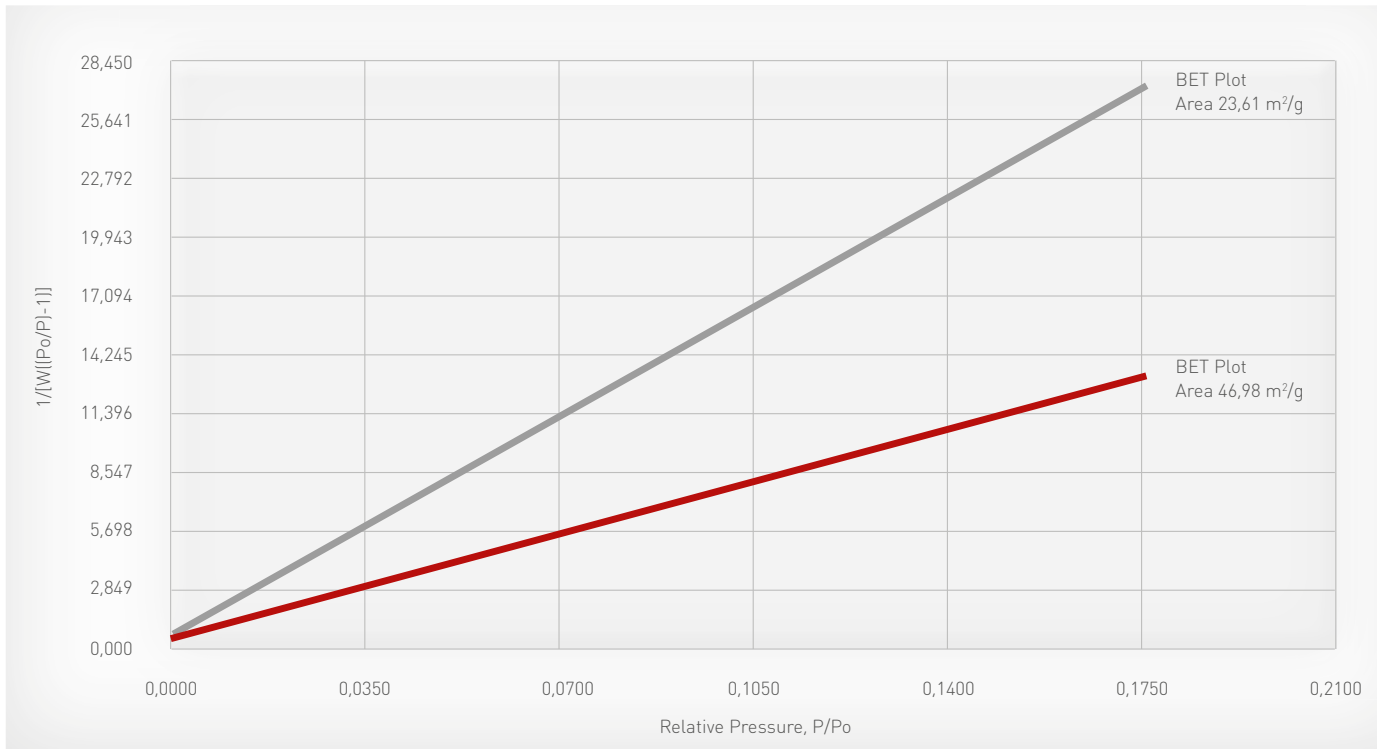
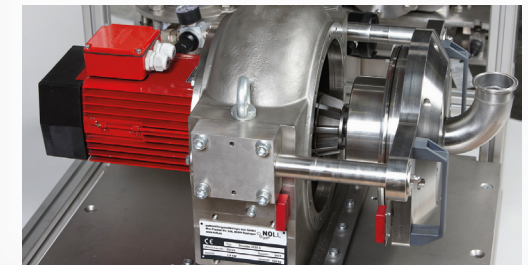


GREATER SURFACE AREA & SURFACE ACTIVATION



SURFACE ACTIVATION AT A GLANCE

- Enhancing flow characteristics or fines weight
- Energy-efficient milling: minimal energy consumption and minimal systems' wear-and tear
- Ultra-fine grinding down to the nano range <2000 nm
- Specially gentle, high-quality processing
- Conserving molecular structures
- High energy induction into the products – up to 40% more than with comparable procedures



IMPACT JET MILL DEMINO[®]

- Low energy consumption
- Rotor flexibly adaptable to product-specific requirements
- Quick and easy impact elements change
- Left and right-way milling
- Low tool abrasion
- Increased service life of impact elements
- 3 patents

DYNAMIC AIR CLASSIFIER SEPARANO[®]

- Extremely low abrasion
- Highly efficient classification
- Wide classification range and high selectivity
- Compact construction
- 3 patents

CONTACT

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SELECTIVE GRINDING

SELECTIVE GRINDING: REGAIN AND CREATE PRECIOUS VALUE.

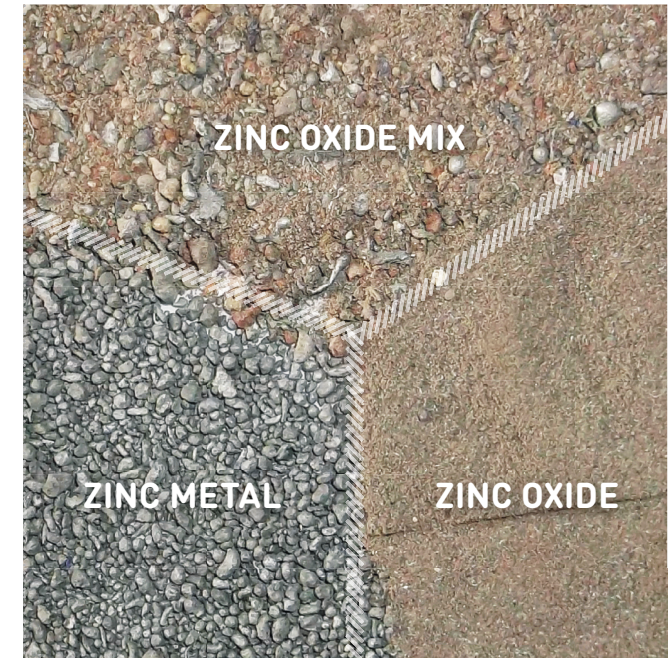
To obtain a pure product which reduces wear and tear on industrial machinery like paper rollers or plastic extruders: selective grinding is the perfect solution. It is also an effective method to purify contaminated powders in order to regain the valuable materials they contain.

Using NOLL's innovative classifying procedures, materials of different densities can be separated with ultra-high precision. The specific product characteristics and individual refinement objectives determine which processing systems are chosen for selective grinding: whether it's DemiNo[®] and SeparaNo[®] and/or MultiNo[®]-M/S/M, the patented opposed jet mill for grinding, classifying and mixing on only one system. The machines can be connected in continuous, online operation according to process and product requirements. The result is highest product purity: valuable raw materials that can be re-directed into the productive cycles.

REGAINING PRECIOUS MATERIALS.

Goals. Costly waste disposal? With intelligent processing, do without it! Selective grinding of contaminated material solves an important problem today: regaining precious raw materials in order to re-direct them into the productive cycle.

Processing examples and equipment. The reduction of quartz in clay powders, the elimination of finest metallic contaminations (titanium dioxide) in ceramic glazes, or the extraction of zinc oxide from zinc metals. To regain aluminum from aluminum-plastic foils, the synthetic (1.0 g/cm³) and aluminum (3.5 g/cm³) have to be separated. In a first step, the material is deagglomerated and its particles rounded by impact jet mill DemiNo[®]. The aluminum can then be extracted using the dynamic air classifier SeparaNo[®]. In a second step, the regained material is processed to powder, with optional further micronisation.



After deagglomeration with impact jet mill DemiNo[®], product extracted by our dynamic air classifier SeparaNo[®].

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