

MICRONISATION



❶ Cobalt aluminate

CoAl_2O_4 $D_{50} = 4 \mu\text{m}$



❷ Titanium brown

$(\text{Ti, Mn, Sb}) \text{O}_2$ $D_{50} = 3 \mu\text{m}$



❸ Tungsten carbide

WC , $D_{50} = 2 \mu\text{m}$



❹ Calcium titanate

CaTiO_3 $D_{50} = 1 \mu\text{m}$

NOLL toll processing uses a variety of machinery to process bulk materials up to Mohs hardness 10 to your required fineness. We are especially equipped for the iron-free and contamination-free processing of products down to $<2 \mu\text{m}$ as well as for smallest batches of 5 kg to be processed on our laboratory machines. Highly modern internal classifiers ensure sharp particle distributions and top cuts. Moreover we build shock pressure-proof systems and special versions adapted to our customers' requirements.

- **Feed size range:** 2 mm up to 500 mm
- **Fineness range:** $<2 \mu\text{m}$ up to 10 mm
- **Capacity:** up to 15,000 mt/year

YOU DELIVER

- Big bags up to 1,000 kg
- Drums, barrels, containers up to 50 kg
- Paper foil bags sewed or drilled up to 25 kg

WE PACK

- Big bags up to 1,000 kg
- Drums, barrels, containers up to 200 litres
- Paper foil bags sewed or drilled up to 25 kg



CONTACT

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PROCESSING SYSTEM	PERFORMANCE RANGE		FEED SIZE RANGE	FINENESS RANGE	ADMISS. HARDNESS	LINING MATERIAL OPTIONS							
	(kg/h)	(mt/year)				NS	SS	HG	SG	HM	KE	PA	PU
HAMMER MILL	100-1,000	4,000	< 500	0.5 - 5 mm	1-5	•	•						
JAW BREAKER	20-1,000	1,000	< 150	2-50 mm	1-9		•	•					
ROLLER MILL	100-1,000	4,000	< 10	0.5-5mm	1-9		•				•		
IMPACT JET MILL	100-1,000	4,000	<10	30-300 µm	1-7		•		•	•	•		
AGITATED MEDIA MILL	100-1,200	4,000	< 2	5-100 µm	1-9						•		•
OPPOSED JET MILL	1-500	4,000	< 5	2-200 µm	1-10		•			•	•	•	•
AIR CLASSIFIER	5-1,000	10,000	< 0.5	2-150 µm	1-9		•				•	•	•
SIEVE MACHINE	10-500	1,000	< 5	100-2,000 µm	1-9		•					•	
MIXER	10-500	7,000	< 4	-	1-6		•						

OUR SPECIALITIES

Iron- to contamination-free processing of small and large batches and various processing procedures for applications with the following properties: stickiness (resins), abrasiveness (silicon carbide), sensitivity to temperature, hygroscopic (salts), elasticity (rubbers), extreme fineness (toner), ductility (polymers) high purity (silica), plasticity (waxes), homogeneity (pigments), extreme hardness (silicon carbide), specialties (dental)

QUALITY CONTROL

Our production facilities in Bobingen, Germany, are fitted with modern CILAS laser particle size determination machinery, LS 200 sieve analysis, and JEL sieve tower. Productions are documented using customer-specific or NOLL production protocols, machinery and shift logbooks and ERP system with charge backtracking.

WE BUILD MACHINERY FOR, BUT DO NOT PROCESS

Foodstuffs and luxury foodstuffs, pharmaceuticals, carcinogenic, very toxic or radioactive oxidizing products. We neither process dust explosive products with an ultimate pressure above 10 bar.

LEGEND

NS: Steel
SS: Special steel
HG: Hard steel
SG: Cast steel

HM: Hard metal
KE: Ceramic
PA: Polyamide
PU: Polyurethane

K = Cryogenic milling possible
D = Shock pressure-proof design 10 bar
G = Inert gas operation possible
M = Metal-free processing

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