



TOLL PROCESSING > MICRONISATION

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- << COBALT ALUMINATE
 CoAl_2O_4 $D_{50} = 4 \mu\text{M}$
- < TITANIUM BROWN
 $(\text{Ti, Mn, Sb})\text{O}_2$ $D_{50} = 3 \mu\text{M}$



- << TUNGSTEN CARBIDE
WC, $D_{50} = 2 \mu\text{M}$
- < 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 METAL-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 UP 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
- ▶ **PERFORMANCE RANGE:** up to 10000 MT/year

CONTACT:

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FIGURES - DATA - FACTS

PROCESSING SYSTEM	PERFORMANCE RANGE		FEED SIZE RANGE	FINES-RANGE	ADMISS. HARDNESS	MATERIAL LINING							
	(kg/h)	(MT/year)	(mm)	(mm/μm)	(Mohs)	NS	SS	HG	SG	HM	KE	PA	PU
HAMMER MILL	100 – 1000	4000	< 150	0,5 – 5 mm	1 – 5	•	•						
JAW BREAKER	20 – 1000	1000	< 150	2 – 50 mm	1 – 9		•	•					
ROLLER MILLS	100 – 1000	4000	< 10	0,5 – 5 mm	1 – 9		•				•		
IMPACT JET MILLS	100 – 1000	4000	< 10	30 – 300 μm	1 – 4		•		•	•	•		
BATCH BALL MILLS	5 – 50	50	< 5	5 – 50 μm	1 – 9	•					•	•	
AGITATED MEDIA MILL	100 – 1200	4000	< 2	5 – 100 μm	1 – 9					•	•		•
OPPOSED JET MILLS	1 – 500	4000	< 5	2 – 200 μm	1 – 10		•				•	•	•
AIR CLASSIFIERS	5 – 1000	6000	< 0,5	2 – 150 μm	1 – 9		•				•	•	•
SIEVE MACHINES	10 – 500	1000	< 5	100 – 2.000 μm	1 – 9		•					•	
MIXERS	10 – 500	1000	< 4	—	1 – 6		•						

OUR SPECIALITIES:

Earths and minerals, polymers and rubbers, construction materials, chemicals, ceramics, graphites, cosmetics, metals, pigments, recycles, abrasives and toners, etc.

QUALITY CONTROL:

The production plants in Cologne and 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 products. We neither process dust explosive products with an ultimate pressure above 10 bar.

YOU DELIVER ...

- ▶ Big bags up to 1000 kg
- ▶ Drums, barrels, containers up to 50 kg
- ▶ Paper foil bags sewed or drilled up to 50 kg

WE PACK ...

- ▶ Big bags up to 1000 kg
- ▶ Drums, barrels, containers up to 200 litres
- ▶ Paper foil bags sewed or drilled up to 50 kg

LEGEND

NS: Steel HM: Hard. steel
 SS: Special steel KE: Ceramic
 HG: Hard steel PA: Polyamide
 SG: Cast steel PU: Polyurethane

K = Cryogenic milling possible
 D = Explosion proof design 10 bar
 G = Controlled-atmosphere operation possible
 M = Metal-free processing

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