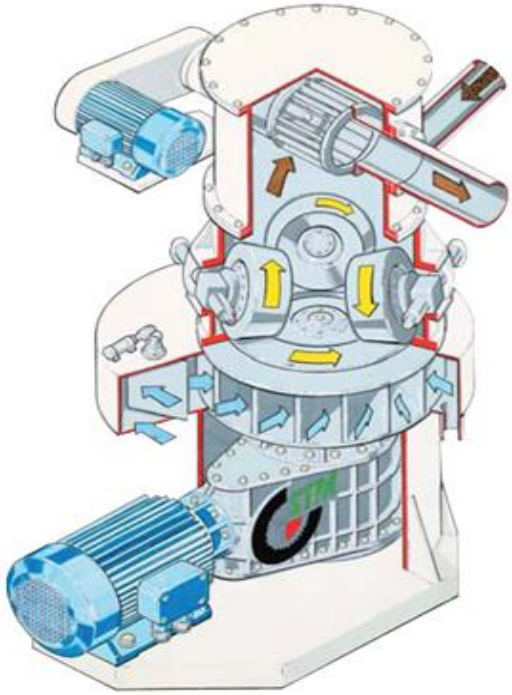
Mill Series – TRM

SISTEMI MACCHINE E TECNOLOGIE

STM

Equipment Specifications

- Mill equipped with high-pressure tapered grinding rollers.
- Controlled hydraulic pressure system.
- Easily accessible hydraulic roller movement system.
- Rollers and mill table constructed of special anti-wear material. These components must be surface-hardened after resurfacing. Roller bearings are provided with special seals to prevent dust penetration. Special anti-wear roller and turntable material, which can be reconditioned with re-applied surface hardening
- The system incorporates a high-performance basket.



Principles of Operation

Grinding occurs by crushing the material with high-pressure tapered roller bearings against a turntable.

The pressure can be adjusted to suit the hardness of the material, and to attain desired fineness.

The built-in selector is used for automatic recycling of the product until it reaches its desired particle size.

Final particle size is determined by:

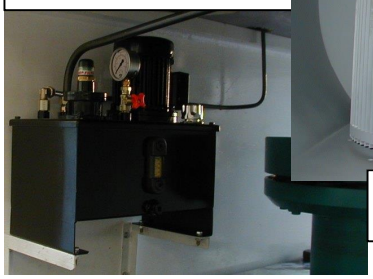
- Roller grinding pressure
- Rotational velocity of selector basket

Process Tools

Sieve selection in fixed grinding chamber:

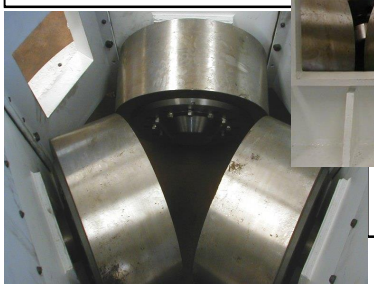
- Tool C – Hydraulic pump for ginder hub
- Toll D – High-performance selector basket

Tool C
Hydraulic pump for lubrication of ginder hub



Tool D
Selector basket

Tool B
Grinding rollers



Tool A
Torsion bar

Grinding by contact of the rollers with turntable

- Tool A – Torsion Bar
- Tool B – Grinding rollers

Particle Size and Products

For obtaining particle sizes of 10 - 360 microns up to a hardness of 6 Mohs, and with a quartz content up to 6%.

Technical Data – Mill Series TRM

STM Mill Series		Total Installed Power	Total Power Consumption	Hourly Production	Supply	Particle Size*	Volume Airflow	Noise Level
type	size	kW	kW	Range kg/hr			m^3/hr	dBA
TRM	600	100.0	90.0	800 - 3500	< 10 mm	d.97: 5 - 300 µm	5500	< 75
TRM	1000	225.0	202.5	2000 - 10000	< 10 mm	d.97: 10 - 500 µm	20000	< 75
* Data reference: CALCIUM CARBONATE								

Mill Series TRM – 600

Operational Advantages

- Easy cleaning and maintenance
- Energy efficient
- Easily adjustable product fineness
- Easy ressure regulation
- Can be used in combined processes

Know How

ROTARY TABLE MILL TRM (Granulometry database available):			
Clay	Sodium Carbonate	Aluminum Hydroxide	Ferrous Sulfate
Bakelite	Activated Carbon	Wood (chipped)	Antimony Sulfide
Bauxite	Mineral Carbon	Lithopone	Molybdenum Sulfide
Bentonite	Choline Chloride	Mica Muscovite	Talcum
Sodium Bicarbonate	CMC	Soft mineral oxides	Rare Earths
Hydrated Lime	Chromite	Lime Oxide	Potassium Titanate
Kaolin	Feldspar	Magnesium Oxide	Wollastonite
Barium Carbonate	Fluorine	Zinc Oxide	Sulfur
Calcium Carbonate	Natural Graphite	Perlite	
Magnesium Carbonate	Synthetic Grafite	Pyrite	

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