



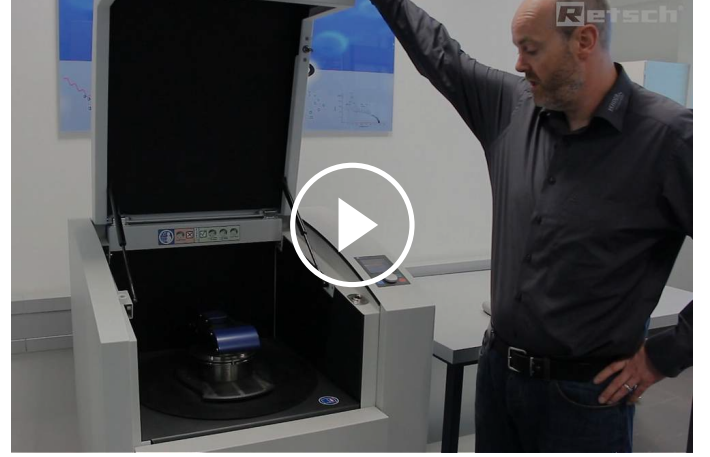
TITREŞİMLİ DISKLI ÖÇÜTÜCÜ RS 200

Fast sample homogenization for spectral analysis

No grinder can beat the speed of a Vibratory Disc Mill when it comes to preparing samples for spectral analyses. RETSCH's Vibratory Disc Mill RS 200 is ideally suited for fast and reproducible pulverization of hard, brittle and fibrous sample materials to analytical fineness.

The RS 200 runs steadily and smoothly, even with heavy grinding sets and at maximum speed thanks to its powerful Stabilized-Plane-Drive. It achieves grind sizes between 20 and 100 microns within seconds and with excellent reproducibility.

Grinding sets are available in a variety of sizes and materials. A set of sensors will recognize jars of tungsten or agate and automatically sets the maximum permissible speed, ensuring optimum results while protecting the material.



[Videoyu izlemek için tıklayın](#)

Ürün Videosu



FAST & REPRODUCIBLE

- | Very short grinding times, typically in the range of 60 to 180 seconds to achieve a fineness around 100 μm
- | Ergonomic design and carry handles ensure easy handling of the grinding set
- | Quick-action clamping system enables convenient and safe tightening of the grinding set
- | Automatic speed reduction for agate and tungsten carbide sets
- | Powerful Stabilized-Plane-Drive improves reproducibility
- | Variable speed from 700 to 1500 rpm

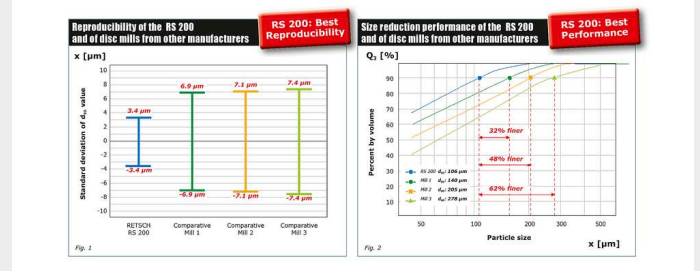
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PERFORMANCE TEST: SIZE REDUCTION AND REPRODUCIBILITY

The grinding results of a vibratory disc mill are significantly influenced by the movement patterns of the free masses inside the grinding jar. The new, powerful Stabilized-Plane-Drive of the RS 200 allows for extremely rapid formation of the movement pattern which is reflected in higher fineness and ultimately leads to significantly better reproducibility.

Figure 1 shows the standard deviation after 60 sec grinding time. It only takes a few large particles to impair the reproducibility of XRF measurements. Because of that, a small standard deviation for the d90 value is crucial.

Fig. 2: A “Quarter Minute Test” (QMT) evaluates the formation and stability of the movement patterns of Vibratory Disc Mills. Figure 2 shows that with the RS 200 a d90 value of 106 µm was obtained after a grinding time of only 15 seconds. The mills from three other manufacturers showed considerably inferior results.



Grinding parameters

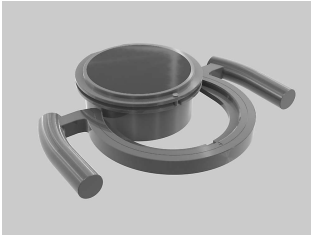
- | Grinding jar: 100 ml
- | Sample: Çimento klinker 0.85 to 3.15 mm
- | Speed: Maximum (1200 rpm)
- | Grinding time: 60 sec (Figür 1), 15 sec (Figür 2)

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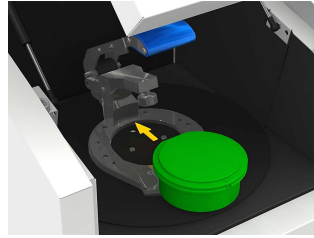
EXCEPTIONALLY SAFE AND SIMPLE HANDLING

Operation and handling of the RS 200 and its grinding sets is convenient and ergonomic. The grinding jars are equipped with carry handles which facilitate transport of the heavy jar to the mill where it is slid on a rail into its grinding station. The clamping device allows for safe fastening of the jar with less force; a sensor checks its correct position.

The grinding parameters are entered using a single button. The user can store up to 10 parameter combinations and choose between 13 languages for menu guidance. In addition to the current settings a colored graphics display shows service and operating information.



carry handles



rail



quick-action clamping device



graphic display

The grinding sets have been developed especially for extreme test conditions such as high sample throughput and high mechanical stress. Features include.

- | safe, non-slip attachment with integral safety devices on cover and base
- | gap between dish and cover edge for easy opening
- | optimum sealing with O-ring
- | protective jacket made from stainless steel (for agate, zirconium oxide and tungsten carbide dishes)
- | grinding set identification (article number, material and volume)
- | marking field (e. g. for information about sample)
- | available in 3 sizes and 5 materials



POWERFUL TWIN PACK FOR XRF ANALYSIS

To ensure accurate and reproducible XRF analysis results, the sample needs to have a uniform particle size distribution and the pellet to be pressed needs to be as dense as possible. Both requirements are easily met when using our vibratory disc mills and pellet presses for sample preparation to XRF analysis.



TITREŞİMLİ DISKLI ÖĞÜTÜCÜ RS 200

TIPIK ÖRNEK MALZEMELER

RETSCH's Vibratory Disc Mills rapidly pulverize materials such as cement, cement clinker, ceramics, coal, coke, concrete, corundum, glass, metal oxides, minerals, ores, silicate, slag, soil, etc.



Cüruf



Elektronik hurda



iridium



dolomite

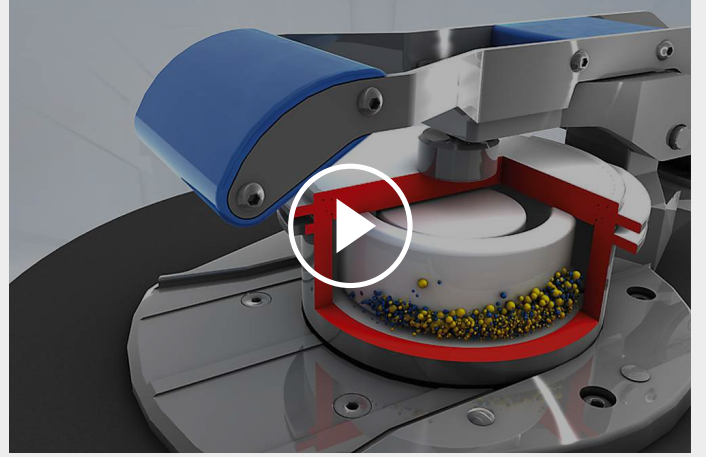
Örnek hazırlama göreviniz için en iyi çözümü bulmak için uygulama veri tabanımızı ziyaret ediniz

TITREŞİMLİ DISKLI ÖĞÜTÜCÜ RS 200

FONKSIYON PRENSİBİ

The Vibratory Disc Mill RS 200 comminutes by pressure and friction. The grinding set is firmly attached to the vibration plate with a quick-action lever. The plate with the grinding set is subjected to circular horizontal vibrations.

The centrifugal force acting on the grinding rings in the dish results in extreme pressure and frictional forces acting on the sample, producing analytical fineness in 1-3 minutes. The circular vibrations are produced by a frequency controlled 1.5 kW 3-phase motor. A sensor recognizes the presence of agate grinding sets and automatically limits the speed to 700 min⁻¹ to avoid damaging the agate. The cover of the noiseinsulated grinding chamber has a safety interlock and can only be opened when the mill is at a standstill.



[Videoyu izlemek için tıklayın](#)

TITREŞİMLİ DISKLI ÖĞÜTÜCÜ RS 200

TEKNİK VERİ

Uygulamalar	Kırma, karıştırma, toz haline getirme
Uygulama alanı	inşaat malzemeleri, çevre rekonstrüksiyon, ...
Besleme malzemesi	orta sert, sert, kırılğan, lifli
Boyut küçültme prensibi	baskın, sürtünme
Malzeme giriş büyüklüğü	< 15 mm
Çıkış büyüklüğü	< 20 µm
Parti boyutu / besleme miktarı	Öğütme setinin boyutuna bağlı olarak 15-250 ml
Hız, 50 Hz (60 Hz) de	700 - 1,500 dk ⁻¹ , ayarlanabilir
Öğütücü elemanların malzemesi	sert çelik, tungsten karbide, agat, ..
Öğütücü hazne ebatları	50 ml / 100 ml / 250 ml
Öğütme süresi ayarı	dijital, 00:01 to 99:59
Kaydedilebilir SOP	10
Tahrik	Frekans konvertörlü ile 3 fazlı asenkron motor
Motor gücü	1.5 kW
Elektriksel veriler	farklı voltajlar
Güç bağlantısı	1-faz

Koruma kodu	IP 20
G x Y x D kapalı	836 x 1220 x 780 mm
Net ağırlık	~ 225 kg (without grinding set)
Standartlar	CE

* besleme malzemesi ve cihaz yapılandırmasına / ayarlarına bağlıdır

www.retsched.com/rs200

SIPARIŞ BİLGİSİ

TİTREŞİMLİ DISKLI ÖĞÜTÜCÜ RS 200

Öğütme setleri için taşıma parçalı, titreşimli diskli öğütücü RS 200, tekerlekli (lütfen öğütme setini sipariş edin ve taşıma parçasını (gerekirse) ayrıca sipariş edin)

20.730.0001



RS 200 220-230 V, 50/60 Hz

aynı fiyata diğer elektrikli versiyonlar mevcuttur

ÖĞÜTME SETLERİ RS 200

SERTLEŞTİRİLMİŞ ÇELİK

01.462.0170



50 ml

01.462.0171



100 ml

01.462.0263



250 ml

TUNGSTEN KARBÜR

01.462.0353



50 ml (1200 dk-1'e kadar)

01.462.0354



100 ml (1200 dk-1'e kadar)

01.462.0355



250 ml (1200 dk-1'e kadar)

AGAT

01.462.0178



50 ml (sadece 700 dk-1)

01.462.0179



100 ml (sadece 700 dk-1)

ZIRKONYUM OKSİT

01.462.0193



50 ml

01.462.0192



100 ml

AĞIR METAL KİRLİLİĞİ OLMADAN ÖĞÜTME İÇİN ÇELİK 1.1740

01.462.0002



50 ml

01.462.0266



250 ml

AKSESUARLAR RS 200

RS 200 ÖĞÜTME SETLERİ İÇİN TAŞIMA SAPI VE AKSESUARLAR

03.225.0086



Tüm 250 ml öğütme setleri için taşıma sapı, -SR - 100 ml öğütme seti sertleştirilmiş çelik, agat, zirkonyum oksit, çelik 1.1740 -SR - ve taşıma sapı ekleriyle kullanım için

02.225.0087



50 ml taşlama seti sertleştirilmiş çelik, tungsten karbür, Çelik 1.1740 için taşıma sapı eki

02.225.0088



50 ml öğütme seti agat için taşıma sapı eki

02.225.0089



50 ml öğütme seti zirkonyum oksit için taşıma sapı eki

02.225.0090



100 ml öğütme seti tungsten karbür için taşıma sapı eki

EK ÖĞELER RS 200

05.114.0075



50 ml çelik öğütme seti için O-ring

05.114.0069



50 ml agat ve zirkonyum oksit öğütme seti için O-ring

05.114.0068



50 ml tungsten karbür öğütme seti için O-ring

05.114.0067		100 ml elik ve zirkonyum oksit, 250 ml tungsten karbür öğütme seti için O-ring
05.114.0070		100 ml agat ve tungsten karbür öğütme seti için O-ring
05.114.0076		250 ml elik öğütme seti için O-ring
99.200.0035		RS 200 için IQ / OQ Belgeleri