



## 에어젯 분체기 AS 200 JET

**For sieving specialists: With the AS 200 jet pro and the GMP-conform AS 200 jet pharma, laboratory teams get a space-saving and user-friendly all-in-one sieving machine.**

Sieve, weigh, and evaluate with a single device: Combining state-of-the-art air jet sieving with a built-in balance ensures precise and reliable sieve analysis in the shortest amount of time. The integrated AS 200 jet pro software via touch display ensures smart processes with maximum ease of use.

## BENEFITS

- | **All-in-One** combining sieving, weighing, and evaluation in one device
- | **Enhanced Process Reliability via checks and clever assistants**
- | **Flexible & Precise Sieving** of fine powders 10 µm – ~4 mm
- | **GMP conform & Regulatory Readiness**



비디오 시청 클릭

AIR JET SIEVING MACHINES AS 200 JET PRO / AS 200 JET PHARMA

## AT A GLANCE: VERSATILITY AND AUTONOMY IN A TABLETOP DEVICE FORMAT



- | User and audit trail management (optional in the pharma version)
- | Easy access to all operating parameters
- | Space saving device with a small footprint (460 x 288 x 305 mm)
- | Internal balance
- | Onboard computer
- | LAN and USB interface
- | Touch display: intuitive system control and result evaluation
- | Clear 10-inch user interface

All you need to use the AS 200 jet pro / pharma is an external industrial vacuum cleaner. You can find suitable vacuum cleaners here:

### **REALLY ROBUST AND SUPER SENSITIVE: THE INTERNAL BALANCE**

The balance, which has been integrated into the machine design for the first time, is extremely robust – and patented in this setting! You can even use a rubber hammer to loosen any material that sticks to the lid during sieving without affecting the accuracy of the balance.

The integration of the balance not only saves additional space in your laboratory but also reduces errors. There is no need to transfer material between the sieving machine and an external balance, which effectively prevents material loss. Thanks to a high weighing readability of 0.01 g, all necessary data are recorded precisely during sieving, and the respective particle size is evaluated using the integrated software.

### **MODERN AIR JET SIEVING TECHNOLOGY THAT PROTECTS YOUR SAMPLE**

The air jet sieving process:

- ✓ eliminates the need for additional mechanical sieving aids
- ✓ protects the sample material through individual selection of pressure, speed and height of the used sieve
- ✓ enables short sieving times (typically 2-3 minutes per process)

### **COMPLY WITH QUALITY ASSURANCE STANDARDS SUCH AS ISO 9000 FF**

As part of test equipment monitoring, you can calibrate the sieving machine (clock, speed & pressure sensor) and internal balance. As part of the RETSCH maintenance service, we are happy to take care of all calibration processes for you.

*"Even when using the new AS 200 jet pharma for the first time, you immediately notice how well thought-out and user-friendly it is. I am particularly impressed by the guided sieving: the clear step-by-step instructions practically eliminate errors caused by omitted steps.*

*The integrated, robust balance is a real plus—it makes handling noticeably easier and saves valuable space in the laboratory, as an external balance is no longer necessary. Additional safety features such as the Weighing-Assistant, Backweigh-Tolerance, and trend analysis ensure even greater process reliability in our everyday laboratory work."*

**Dr. Michael Ostendorf, Senior Expert Particle Technology/  
Science Fellow, Bayer AG**

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## NATIVE SOFTWARE INTEGRATION – YOUR DIGITAL ASSISTANT IN THE LABORATORY

Thanks to native software integration, you always have control over the entire process chain via an intuitive touch display:

- ✓ Sieve Management
- ✓ Parameter Setup
- ✓ Method Setup
- ✓ Sieve Analysis
- ✓ Weighing
- ✓ Data Evaluation & Reporting via USB or LAN connection
- ✓ Optional User Management (in the pharma version)



### OUR PATENT, YOUR ADVANTAGE: COMBINED SIEVING AND WEIGHING

The patented combination of sieving and weighing in the AS 200 jet pro offers you real added value.

The principle behind this: for sieving, the sieving chamber is connected airtight to the vacuum cleaner. For a precise weighing process, the airtight sieving chamber is mechanically decoupled.

Your advantage in everyday laboratory work: error-free, time-saving weighing and subsequent evaluation in a single process, without the hassle of transferring the sieve between the machine and the balance.

### VARIOUS TEST SIEVES FOR YOUR REQUIREMENTS – THE CHOICE IS YOURS

Not only existing customers benefit from our modular and sustainable development design. The AS 200 jet pro allows the use of all RETSCH test sieves with a diameter of 203 mm (8") and 200 mm (with adapter) and a height of 25 and 50 mm (1" and 2").

### STEP BY STEP TO THE DESIRED RESULT

With the integrated software, you can easily perform both simple routine sieving and complex distribution analyses: and display all results immediately afterwards in both graphical and tabular form.

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## **IMPROVED PROCESS RELIABILITY**

## SIEVE-CHECK – THE DIRECT ROUTE TO THE RIGHT SIEVE VIA BARCODE

Ensure that the test sieve corresponds to the selected method and identify your samples by simply scanning the corresponding barcode! With a standard USB barcode scanner and the Sieve-Check option, you can check the compatibility of the selected method and the required test sieve. This reduces the potential for errors in the long term.



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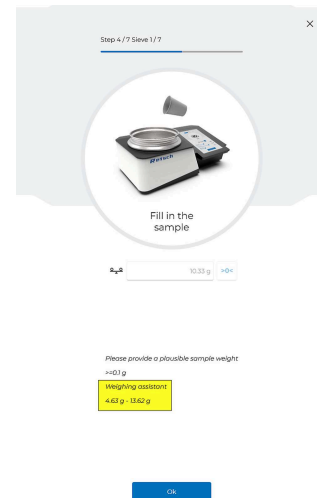
## **IMPROVED PROCESS RELIABILITY**

## THE DIGITAL WEIGHING-ASSISTANT

Determining adequate sample quantities is a real time-consuming task, especially when dealing with different sample materials in series.

- | Overloading the sieve leads to non-reproducible sieving results, as the sample cannot be sieved (quickly enough).
- | Insufficient sample quantities lead to incorrect results, as their representativeness cannot be guaranteed.

Thanks to the new Weighing-Assistant in the AS 200 jet pro, this problem is now a thing of the past. After entering the respective sample bulk density, the system recommends a sieve-specific weighing range. This allows you to meet the specifications for the maximum permissible sieve load and the required minimum quantity in equal measure – and avoid incorrect sieving!



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## **IMPROVED PROCESS RELIABILITY**

## WEIGH-IN-TOLERANCE

This function allows you to set your own parameters for your individual weighing processes. First, specify the sample quantity to be weighed. Then you can define deviation tolerances as upper and/or lower limit in percent. Compared to the Weighing-Assistant (which refers to general standards), a narrower process-related loading range can be specified—tailored precisely to your needs.

The screenshot shows the 'Sieving' configuration screen in the Retsch software. The interface is divided into several sections:

- Navigation:** 'Fast sieving', 'Manual sieving', and 'Methods' tabs are visible at the top.
- Search and Actions:** A search bar and buttons for 'Back', 'Print', 'Refresh', and 'Delete' are located below the tabs.
- Define sample information:** This section includes fields for 'Sample material\*' (ADPAZ), 'Sample preparation\*' (No sample preparation), 'Density' (100 g/cm³), 'Source' (Container), and 'Sampling'.
- Sample weight:** A field is set to '3000 g'.
- Sample tolerance and check:** A toggle switch is turned 'On' for 'Weigh-in tolerance', with a range of '-5.00 %' to '5.00 %'. The 'Weighing assistant' option is turned 'Off'.
- Comment:** A text input field is provided at the bottom.

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## **IMPROVED PROCESS RELIABILITY**

## BACKWEIGH-TOLERANCE

Does your sample comply with the preset quality limits? With the Backweigh-Tolerance, you can ensure that the particle size and particle size distribution of the sample meet your requirements.

- | First, use the Weigh-In-Tolerance to weigh the sample accurately.
- | With the Backweigh-Tolerance, you can also define the expected backweigh (as oversize or undersize) in grams.
- | You can define a deviation in percent to adjust the permitted tolerance range.

Deviations from the specifications appear immediately as a message on the display, giving you even greater process reliability!



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## **IMPROVED PROCESS RELIABILITY**

## TREND ANALYSIS: TEST EQUIPMENT AND PROCESS MONITORING - PROACTIVELY AVOID INCORRECT SIEVING

Trend analysis can be used to compare several sieving processes based on freely selectable parameters. This allows you to benefit from simple and reliable monitoring of various quality criteria.

### TEST EQUIPMENT MONITORING

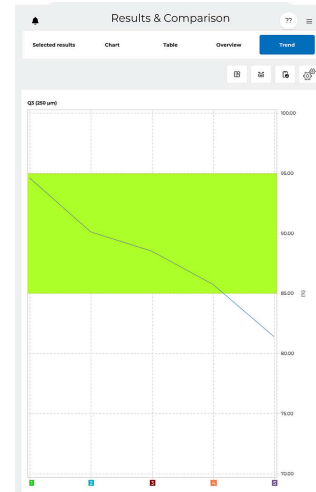
Detect early on when your sieves are no longer functioning in accordance with standards and need to be replaced.

- | Blinding refers to a wear process in which the sieve mesh becomes clogged with particles.
- | Aging processes and wear-promoting handling in the often-hectic everyday laboratory routine lead to a decrease in sieve tension or an expansion of the sieve meshes on the material side.

Replace the often purely subjective assessments with objective measurement data that realistically reflects the current condition of your sieve. Trend analysis allows changes in sieve quality to be detected and faulty sieves to be replaced at an early stage. For certified sieve testing we offer the Retsch calibration service.

### PROCESS MONITORING

Monitor production processes change by continuously comparing multiple sieving processes. This allows you to identify potential changes in ongoing processes at an early stage and make immediate adjustments.



Trend Analysis with downward outliers of 5 consecutive sieve analyses (blinding)

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## **RETSCH'S GUIDED SIEVING AND WEIGHING ASSISTANT ENSURES ACCURATE RESULTS.**

The internal wizard guides the user step by step through the entire process. Every process step is clearly explained and ensures reliable sieve processes. Human errors are reduced to a minimum.

The optional "Weighing Assistant" recommends a suitable sample amount which avoids errors based on overcharging the sieve but still keeping a minimum amount for a reliable sieve analysis by considering the sample's representativeness.

The "Weighing Assistant" exclusively can be used with RETSCH test sieves and can easily be activated/deactivated in the method.

🔔

## Sieving

?? ☰

Fast sieving
Manual sieving
Methods





+ Add method

Name <span style="float: right;">⌵</span>	Sample material <span style="float: right;">⌵</span>	Actions
Coffee Arabica	Ground Coffee	<span style="border: 1px solid #ccc; padding: 2px 5px; border-radius: 4px;">▶</span> <span style="border: 1px solid #ccc; padding: 2px 5px; border-radius: 4px; background-color: #fff9c4;">⋮</span>
Coffee Barista	Ground Coffee	<span style="border: 1px solid #ccc; padding: 2px 5px; border-radius: 4px;">▶</span> <span style="border: 1px solid #ccc; padding: 2px 5px; border-radius: 4px;">⋮</span>
LAST USED	Ground Coffee	<span style="border: 1px solid #ccc; padding: 2px 5px; border-radius: 4px;">▶</span> <span style="border: 1px solid #ccc; padding: 2px 5px; border-radius: 4px;">⋮</span>

**1/11 OPTIONAL SETUP  
CHOOSE A METHOD FOR EDITING**

Sieving

Fast sieving Manual sieving **Methods**

Search Cancel    


Basic **Sample** Methodology Data Device

Define sample information

**Characteristics**

Sample material

Sample preparation

Density  

Source

Sampling

Sample weight

**Sample tolerances and check**

Off  Weigh-in tolerance  To

**On**  Weighing assistant

Comment

**2/11 OPTIONAL SETUP  
ACTIVATION OF THE WEIGHING ASSISTANT**

Sieving

?? ☰

Fast sieving   Manual sieving   **Methods**

Search + Add method

Name	Sample material	Actions
Coffee Arabica	Ground Coffee	
Coffee Barista	Ground Coffee	
LAST USED	Ground Coffee	

**3/11 STARTING THE METHOD**



Step 1 / 7 Sieve 1 / 7



Method name

Coffee Arabica

Sample name

Arabica

Sample ID

06

Comment

Username

GBE

Department

Ok

**4/11 GUIDED SIEVING**  
**STEP 1: SAMPLE IDENTIFICATION**



Step 2 / 7 Sieve 1 / 7



Remove sieve  
and lid

Ok



**5/11 GUIDED SIEVING**  
**STEP 2: PREPARATION OF BALANCE**



Step 3/7 Sieve 1/7



Insert the  
sieve - 125  $\mu\text{m}$

*Please provide a plausible sieve weight  
>=100 g*

Ok

**6/11 GUIDED SIEVING  
STEP 3: WEIGHING THE REQUESTED SIEVE**



Step 4 / 7 Sieve 1 / 7



*Please provide a plausible sample weight*

$\geq 0.1$  g

Weighing assistant  
4.63 g - 13.62 g

Ok


**7/11 GUIDED SIEVING**  
**STEP 4: WEIGHING THE SAMPLE. THE WEIGHING ASSISTANT RECOMMENDS A SUITABLE SAMPLE AMOUNT**



Step 5 / 7 Sieve 1 / 7



Put on the lid

*Please provide a plausible lid weight*

*>=200 g*

Ok

**8/11 GUIDED SIEVING  
STEP 5: WEIGHING THE LID**



Step 6 / 7 Sieve 1 / 7



Ready for  
sieving

Duration (mm:ss)

03:00



Pressure (Pa)

2,500 ^  
v



Speed of nozzle drive (rpm)

20.00 ^  
v



Start sieving



**9/11 GUIDED SIEVING**  
**STEP 6: OPTIONAL ADJUSTMENT OF THE SIEVING PARAMETERS AND START**

×

Step 7 / 7 Sieve 1 / 7



Remove sieve  
and lid

*Please provide a plausible lift-off weight*

<=-531.65 g

Next

**10/11 GUIDED SIEVING**  
**STEP 7: BACKWEIGHING THE RESIDUAL MASS**

Preliminary results

125 µm

Sieving completed successfully

**Results**

Oversize 7.73 g

**Sample information**

Sample amount 10.32 g

Undersize 2.59 g

**Device parameters**

Duration 01:30 mm:ss

Speed of nozzle drive 20 rpm

Pressure 3,000 Pa

Average pressure 2,784 Pa

Pressure std. dev. sigma 877 Pa

Pressure variance 768,927 Pa<sup>2</sup>

Next

11/11 DISPLAY OF RESULTS

AIR JET SIEVING MACHINES AS 200 JET PRO / AS 200 JET PHARMA

## EXCLUSIVE FEATURES OF THE AS 200 JET PHARMA MODEL

The AS 200 jet pharma is a separate model adapted to the needs of the pharmaceutical industry and other regulated environments. It offers all the functions of the AS 200 jet pro and has several additional features.

### YOUR PARTNER FOR GOOD MANUFACTURING PRACTICE (GMP)

The AS 200 jet pharma variant offers you all the functions you need to meet the requirements of modern particle size analysis in accordance with GMP guidelines.



The system meets the software validation requirements according to

- ✓ ISPE GAMP 5
- ✓ FDA 21 CFR Part 11
- ✓ EC GMP Annex 11

for fulfilling with the highest standards in quality assurance.

The user management ensures complete transparency and security through the optional assignment of hierarchical access rights and passwords, as well as the setup of legally compliant e-signatures.

## USEFUL TOOLS FOR YOUR QUALIFICATION DOCUMENTATION

To make it even easier to meet internal or GMP requirements, a comprehensive documentation package is available as an option.

### This includes

- ✓ Qualification Master Plan (QMP)
- ✓ Risk Analysis (FMEA)
- ✓ Installation Qualification (IQ)
- ✓ Operational Qualification (OQ)

The documents are customized for your company and make initial setup easier for you.



## "TRACK'N TRACE" FOR YOUR SIEVE ANALYSIS

An integrated audit trail records all process steps and activities and assigns them to the respective users. This guarantees genuine track and trace: all user activities and events can be traced back seamlessly.



AIR JET SIEVING MACHINES AS 200 JET PRO / AS 200 JET PHARMA

## ADDITIONAL FEATURES



### ACCESSORIES AND ADDITIONAL FEATURES

With the optional high-performance cyclone, even extremely fine particles can be recovered without significant pressure loss during the sieving process. In addition, the use of a cyclone helps to extend the service life of the vacuum cleaner filter.



### USE YOUR EXISTING EXTERNAL BALANCE

Optionally, you can easily connect your existing, qualified balance as an external device via USB. The internal software already offers factory-installed connection options for the most common balances.



### ADVANCED DATA TRANSFER VIA LIMS

Data can be transferred from the AS 200 jet pro / pharma to your Laboratory Information Management System (LIMS) via a network connection. Possible export formats are .xls, .xlsx, .xps, .csv, .pdf, .png, .jpg, .txt, .rtf, html, .mht

AIR JET SIEVING MACHINES AS 200 JET PRO / AS 200 JET PHARMA

## LEARN EVERYTHING YOU NEED TO KNOW ABOUT MODERN AIR JET SIEVING

Air jet sieving is the optimal method for dry sieving of samples with a high proportion of fine particles. Compared to traditional sieving methods, this process saves time and reduces your costs in the long term.

- ✓ As an alternative to vibration screening, this method offers a significantly higher process speed for fine particle sizes.
- ✓ Unlike other methods, air jet sieving uses only one sieve per sieving process.

### THE RULE OF THUMB FOR CHOOSING THE BEST PARAMETERS:

1. Sensitive samples should be sieved with low vacuum pressure to protect the material. The vacuum pressure can be adjusted variably via the touch display. In addition, the sieve height can be varied to adjust the impact effect.
2. Higher vacuum pressure and/or a low test sieve are suitable for agglomerated samples. The increased impact intensity allows even strong agglomerates to be broken up in a short time.

### COMPREHENSIVE DISPLAY OF RESULTS

The following evaluation data is available as standard. A complete list, functions, and the underlying formulas can be found in our knowledge



### GUIDED SIEVING

After selecting the desired sieving method, the software guides you step by step through the sieving process. You can precisely control all relevant parameters via the control panel of the AS 200 jet pro. In addition, Guided sieving improves safety, as each step is clearly described, thereby reducing human error.

- | The speed of the nozzle influences the frequency of impact of the sample during the sieving process.
- | The vacuum has a significant influence on the sieving process and can be controlled by automatic vacuum cleaner control.
- | The sieving time can be set to the nearest second.

base:

- | Various percentiles
- | quantiles
- | Uneven grain size
- | Span value
- | RRSB
- | AFS fineness number
- | Specific surface area

and much more.

In addition, further comparisons, limit value monitoring, and trend analyses can be generated.

## AIR JET SIEVING MACHINES AS 200 JET PRO / AS 200 JET PHARMA

### 대표 시료

RETSCH's Air Jet Sieving Machines AS 200 jet pro / pharma are ideally suited for separation, fractioning and particle size determination of cement, pharmaceutical materials, ceramics, chemical products, cosmetics, food, minerals, pigments, plastics, powder coating, rubber, toner particles and washing powder.



*pharmaceuticals*



*coal*



*플라스틱*



*설탕*



*cement & minerals*

샘플 준비 작업에 가장 적합한 솔루션을 찾으려면 애플리케이션 데이터베이스를 방문하십시오.

## 작동 원리

The AS 200 jet pro / pharma is equipped with a

rotating slot nozzle, over which the sieve and cover are placed. A vacuum generates a strong air jet that swirls the sample particles on the sieve and distributes them. Sample material that is smaller than the mesh size of the sieve is transported by the reverse air flow to the cyclone or vacuum cleaner. The air jet also ensures continuous resolution of agglomerated particles (deagglomeration) and cleaning of the sieve mesh.



[비디오 시청 클릭](#)

AIR JET SIEVING MACHINES

**AS 200 JET PRO / AS 200 PHARMA**

**기술 데이터**

응용 분야	분리, 마찰, 입자 크기 측정
응용분야	건축자재, 식품, 유리 제품/ 세라믹, 의학/제약, 지질학 / 금속 공학, 화학/플라스틱 공학, 환경 / 재활용, ...
투입 시료	분말
측정 가능 범위*	10 µm - ~ 4 mm
분체 운동	공기에 의한 분산
<b>Typical. batch / feed capacity</b>	0.3 - 100 g
최대 분획	1 (사이클론 사용에 의해:2)
<b>Touch screen</b>	Yes with 10.1" display
<b>Speed</b>	digital, 5 – 80 min-1 (nozzle)
<b>Time display</b>	digital, 00:30 – 15:00 min
<b>Integrated balance</b>	Yes, with reading accuracy 0.01 g and calibration accuracy 0.1 g
<b>Vacuum</b>	500-6,500 Pa / 5-65 mbar / 0.07-0.95 psi
<b>Digital parameter setting</b>	Yes, software included, pro or pharma version
<b>Storable SOPs</b>	More than 40, depends only on storage capacity
<b>Connectivity</b>	Yes, 2 x USB, Ethernet
인터벌 작업	no
<b>Displayed Vacuum</b>	500 - 9,999 Pa / 5 - 99 mbar / 0.07 – 1.45 psi
건조 분체에 적합	가능
습식 분체에 적합	no

**SOFTWARE FEATURES**

<b>Graphical User Interface, guided sieving</b>	가능
<b>Mode of operation</b>	Fast sieving, manual sieving and methods
<b>Languages</b>	German and English
<b>Parameter units changeable</b>	Size: mm/µm/mesh/inch Mass: g/kg Time: s/min Pressure: mbar/Pa/psi Volume: ml/cl/l/cm3
<b>SOPs</b>	Yes, integrated in methods, more than 40
<b>Individual sample labelling</b>	Yes, for each sample, reference to method during data choice and in overview
<b>Parameter setting per test sieve</b>	가능
<b>LIMS ready</b>	가능
<b>possible export format</b>	.xls, .xlsx, .xps, .csv, .pdf, .png, .jpg, .txt, .rtf, html, .mht
<b>Teamviewer online support</b>	가능
<b>Screenshot function</b>	가능
<b>Back-up function</b>	가능
<b>Automatic storage of results</b>	Yes, in machine, auto report function, PDF document or to printer





[www.retsch.kr/AS200jet-pro-pharma](http://www.retsch.kr/AS200jet-pro-pharma)

## 주문 정보

### AIR JET SIEVING MACHINES AS 200 JET PRO / JET PHARMA

**Air Jet Sieving Machines for test sieves 203 mm (8") Ø, with automatic vacuum regulation and internal balance, incl. lids for test sieves 1" and 2" height and rubber mallet - please order test sieve and MANDATORY vacuum cleaner (Item No. 22.748.0020 or Item No. 22.748.0021) separately!**

30.034.0001		AS 200 100–240 V, 50/60 Hz jet pro	incl. test report acc. to EN 10204 2.2 evaluation software installed (no EasySieve required)
30.034.0002		AS 200 100–240 V, 50/60 Hz jet pharma (no EasySieve required)	incl. test report acc. to EN 10204 2.2 evaluation software installed incl. AuditTrail & User Management



### VACCUUM CLEANER AS 200 JET PRO / JET PHARMA


22.748.0020	Industrial vacuum cleaner ATTIX 33 230V 50/60Hz (other electrical versions available) MANDATORY vacuum cleaner for 30.034.0001 & 30.034.0002 NOT SUITABLE for 32.935.0008
32.524.0017	HEPA filter for ATTIX 33
32.524.0018	Cover for HEPA filter ATTIX 33
32.524.0019	Replacement filter bags for ATTIX 33, 5 pcs.

### CYCLONE AS 200 JET PRO / JET PHARMA

22.935.0042	High-performance cyclone including holder, collecting receptacle (250 ml and 500 ml sample bottle) and 1.5 m FDA certified hose with clamps (industrial vacuum cleaner 22.748.0020 or 22.748.0021 recommended)
05.707.0208	FDA certified hose, 1.5 m
02.183.0151	Connector for cyclone

### ACCESSORIES AS 200 JET / JET PRO / JET PHARMA

02.025.0070		시험 분체 200 mm Ø x 50 mm 및 200 mm Ø x 25 mm 용 어댑터와 덮개
03.107.0487		203 mm (8") Ø x 1" 용 예비 덮개

03.107.0448  시험 분체 203 mm (8") Ø x 2" 용 예비 덮개

22.523.0001  시료 병, 250 ml, 10 개

22.523.0002  시료 병, 500 ml, 10 개

## 전기 주조 시험 분체

60.142.000010 전기 주조 시험 분체 (ISO 3310-3), 203 mm Ø, 높이 25 mm, 10 µm

60.142.000016 전기 주조 시험 분체 (ISO 3310-3), 203 mm Ø, 높이 25 mm, 16 µm

## ADDITIONAL ITEMS AIR JET SIEVING MACHINES

99.200.0047 IQ/OQ Documentation for AS 200 jet pro

99.200.0046 IQ/OQ Documentation for AS 200 jet pharma

## RECALIBRATION AIR JET SIEVING MACHINES

**The Retsch Air Jet Sieving Machines can be calibrated at Retsch/Germany or at selected subsidiaries/agents**

SER-97.001.0021 Calibration of sieving machines AS 200 jet pro & AS 200 jet pharma at Retsch/Germany, incl. test report acc. to EN 10204 2.2