FRITSCH

EASY WORKING.
GREAT RESULTS.

Top laboratory instruments for milling, sizing and dividing

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EASY WORKING. GREAT RESULTS.

4-5

THEREFORE FRITSCH

Laboratory, quality control, research: colleagues all over the world are fans of FRITSCH. Our performance is impressive. And contact with us is inspiring. Welcome to the family!

OUR BENCHMARK: ENTHUSIASM

We want you to enjoy work. With intelligent laboratory equipment for grinding, measuring, sieving, dividing and feeding that make your day easier and let you shine with excellent results. We are also an experienced sparring partner for specific application-related questions.

“Achieving precise results more easily together: That pretty much describes what you can expect from us. This is how we work with our customers to achieve quality and progress – and ensure that they feel they are in good hands.”

FRITSCH

EASY WORKING. GREAT RESULTS.

Your work ensures quality, opens up new possibilities, makes the future possible, saves lives and perhaps even solves criminal cases. That's why you deserve the best laboratory equipment on the market.

THOSE WHO WORK ON BIG THINGS NEED THE BEST EQUIPMENT

Quality made in Germany

All FRITSCH instruments are manufactured 100% at our headquarters in Germany. From the initial ideas from our application technology laboratory, through development and design, to production of the final product. And no instrument leaves our factory without intensive testing and quality control. You can rely 100% on the result in your day-to-day work: long-term and even in harsh environments.

FRITSCH

“You want to do your job. We provide you with the best instrument: smartly designed, easy to use and with convincing results. Exactly what you need.”

EASY WORKING. GREAT RESULTS.

FRITSCH SERVICE

At FRITSCH, you don't just buy instruments for your laboratory. We are there for you personally at 125 locations worldwide and support you in your tasks as an experienced partner. Always close and personal – and in your language.

TOGETHER FOR THE BEST SOLUTION WORLDWIDE

We are here for you on site

In the countries highlighted, you have a direct FRITSCH contact for your region. They will help you with instrument selection and technical service, answer all your questions, offer you technical application advice and remain your consistent personal contact.

FRITSCH
YOUR
DIRECT
CONTACT:
CLICK HERE
EASY WORKING. GREAT RESULTS.

10-11

FRITSCH KNOWLEDGE

When your material is a strong challenger, we are your sparring partner. With over 100 years of application expertise and our own in-house laboratory, we can help you select and configure your laboratory equipment and coach you to achieve the best results.

WE'LL STEP INTO THE RING WITH YOU

Application engineers by nature

In the FRITSCH laboratory, we work on similar things like you every day, tinker with even better ways to achieve outstanding results, grind and measure a wide variety of materials and deal with our customers' tasks. With this in-depth experience in application technology, we help you in a wide range of industries worldwide to achieve the best possible size reduction, analysis and processing of your material samples. Tell us what you have in mind. We'll show you the best way.

FRITSCH
“Tell us what task you are facing, what material you want to grind or measure or which lab instruments you are interested in. Then we'll tackle it together!”

12-13

GRINDING WITH FRITSCH

Your samples are your working life and your material presents you with special challenges. We provide you with exactly the right laboratory mill for this. For easy work, highly accurate, reproducible results and fast, contamination-free cleaning. In the laboratory, in quality control, in research: FRITSCH can grind anything!

HIGHLY EFFICIENT LABORATORY MILLS WITH FINENESS DOWN TO THE NANOMETRE RANGE

Complete programme for all areas of application

In the extensive FRITSCH programme you will find the right laboratory mill for every grinding technique, sample type and sample quantity. With the right feed size and the desired final fineness plus an extensive range of accessories. Regardless of the industry and area of application: there is always a FRITSCH solution.

FRITSCH FACT

Did you know? Many of the key innovations that set the modern standard for laboratory mills today originate from FRITSCH. That makes us a little proud.

ALL FRITSCH LABORATORY MILLS AT A GLANCE:

CLICK HERE

EASY WORKING. GREAT RESULTS.

14-15
PLANETARY MILLS

FRITSCH PLANETARY MILLS: VERSATILE ALL-ROUNDERS

Our planetary mills are your high-performance all-rounders for simple, efficient work and outstanding fine grinding down to the nano range.

Grind with them dry, in suspension or under inert gas. Process materials with a wide range of properties. Mix and homogenise emulsions and pastes. Or use planetary technology for mechanical alloying and activation in materials research. For an extremely wide range of applications.

FRITSCH FACT

The original remains the original: The first commercially usable planetary ball mill on the market came from FRITSCH in 1962. Since then, we have continued to set the standards – and are still ahead in terms of nano-grinding, strength and performance.

FRITSCH

EASY WORKING. GREAT RESULTS.

16-17
PLANETARY MILLS

P-5 PREMIUM

YOUR PLANETARY MILL FOR THE NANO RANGE

The flagship of our planetary mill fleet is the best choice if you want to grind larger sample quantities with a feed size of up to 10 mm wet and dry extremely quickly to high final finenesses. Also ideal for mechanochemistry, mixing or homogenising.

P-7 PREMIUM

THE TOUGHEST PLANETARY MILL IN THE WORLD

No alternative instrument on the market has a similar acceleration of the grinding bowls. This allows you to achieve grinding results of up to 100 nm and finer for smaller sample quantities in the shortest possible time. Or utilise its extraordinary power for mechanochemical processes.

P-5

ROBUST PLANETARY MILL FOR HIGH-THROUGH-PUT LABORATORIES AND QUALITY CONTROL

Use the FRITSCH planetary mill P-5 with 2 or 4 grinding stations for loss-free grinding of large sample quantities – dry or in suspension – down to colloidal fineness. Mix and homogenise emulsions and pastes quickly and easily. Or use it to simplify your mechanical alloying.

P-6

VERSATILE PLANETARY MILLS FOR SMALL AND LARGE AMOUNTS

With one grinding station, our P-6 is your perfect planetary mill for changing materials and sample quantities. Also for grinding under inert gas or for measuring gas pressure and temperature. Or use it for mechanical alloying at the touch of a button.

FRITSCH

P-7

THE STANDARD PLANETARY MILL FOR SMALL AND SMALLEST QUANTITIES

The FRITSCH P-7 is your space-saving planetary mill for fast, uniform ultra-fine grinding of small sample quantities to colloidal fineness or for mixing and homogenising emulsions and pastes.

EASY WORKING. GREAT RESULTS.

18-19
VIBRATORY MILLS

FRITSCH VIBRATORY MILLS COMPACT PERFORMANCE

Vibratory mills in FRITSCH quality are ideal for applications such as mining and metallurgy, the environment, forensics, materials science and development or for synthesising valuable materials.

They are convincing wherever only medium to small sample quantities are available that need to be processed with the utmost precision and reproducibility. Or for the trouble-free cold grinding of challenging materials.

P-23

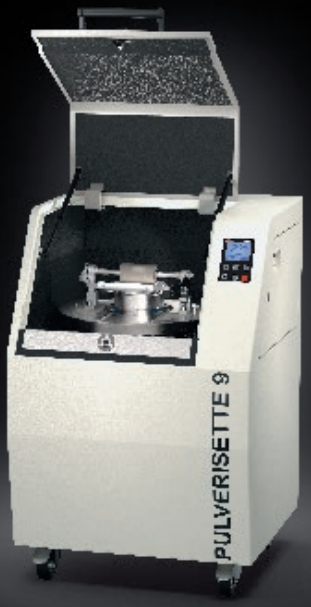
THE MOST COMPACT VIBRATORY MILL UP TO 5 ML SAMPLE VOLUME

Your best choice if you are looking for an ultra-compact solution for fine grinding very small quantities.
Its optimised grinding bowl geometry ensures significantly better grinding, mixing or homogenisation than comparable models.

P-0

PERFECT COMBO OF VIBRATORY MILL AND SIEVE SHAKER

If you regularly work with very small sample quantities in a narrow, homogeneous particle size range, our small vibratory mill P-0 is the right choice for you. It is particularly impressive for cryogenic grinding or the production of homogeneous emulsions and pastes. And in just a few simple steps, you can convert it into a fully functional sieve shaker.



P-9

FROM ZERO TO ANALYTICAL FINENESS IN NO TIME

Our P-9 vibratory mill offers you many practical advantages in all areas where you need to grind hard, brittle or fibrous material to analytical fineness extremely quickly. Easy to operate, quick to clean, extremely quiet – everything you need!

EASY WORKING. GREAT RESULTS.

20-21
CUTTING MILLS

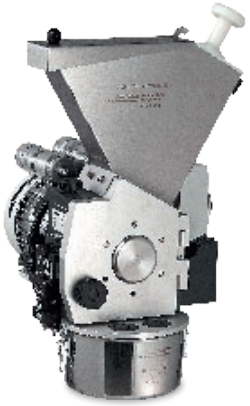
FRITSCH TIP

Increase your throughput and reduce the thermal load of your samples with a FRITSCH Cyclone. More info on page 29.

FRITSCH CUTTING MILLS: FLEXIBLE MODULAR SYSTEM

These are our specialists for the powerful grinding of soft, fibrous or elastic organic materials. As an extremely flexible modular system, it can be customised to any application – impressing with its simple operation and fast, residue-free cleaning.

For example, use them to shred textiles, paper and cardboard, biological materials or plastics and polymers in large quantities for environmental analysis, waste management and recycling or secondary fuels in the construction materials industry and power generation. Or utilise their shearing force for food and animal feed, in the pharmaceutical and chemical industries and many other fields of application.



P-15

THE ENTRY-LEVEL CUTTING MILL FOR MANY SAMPLES

If you are looking for price and performance, this cutting mill is a must: With the FRITSCH P-15, you can grind a wide range of dry materials in the shortest possible time. These can be plastics or textiles, building materials or foodstuffs. Or samples in the fields of agriculture and forestry, environment, analytics and chemistry.

EASY WORKING. GREAT RESULTS.

P-19

UNIVERSAL CUTTING MILL FOR EVERY APPLICATION

This is your high-performance mill for heterogeneous material mixtures or polymers of any kind. It grinds up to 60 l/h, its big sister P-19 large, up to 85 l/h. With both, you can achieve final finenesses of up to 100 µm. Choose the right speed: variable from 300 to 3,000 rpm for efficient, fast grinding or from 50 to 700 rpm for powerful, gentle processing.

P-29

YOUR EXPERT CUTTING MILL FOR SMALL AMOUNTS

If you regularly comminute small sample quantities of materials with a low specific density, such as plastics, grains or seeds, the FRITSCH cutting mill P-29 is exactly the right choice. Particularly suitable for sample preparation for NIR analysis.

P-19 COMBINATION

HIGHLY EFFICIENT PRE- AND FINE COMMINUTION IN ONE STEP

With this patented FRITSCH solution consisting of a slow-running P-19 large, a fast-running P-19 and a FRITSCH high-performance cyclone, you can, for example, bring 2 litres of sample material with a particle size of 30 mm to a final fineness of < 500 µm in just one work step and in a matter of minutes. Even with highly heterogeneous material mixtures. Ask us about it!

22-23

ROTOR MILLS

FRITSCH TIP

Get even more out of your rotor mill with a FRITSCH Cyclone and benefit from additional advantages (see page 29).

FRITSCH ROTOR MILLS: HOMOGENEOUS RESULTS

Rotor mills are particularly suitable if you need a fine and uniform comminution of smaller sample quantities in areas such as food, animal feed, plastics, environmental analysis or stones and soils.

They are particularly suitable for the fine grinding of samples that require homogeneous pulverisation. These can also be fibrous and soft biomaterials such as plant tissue, textiles or plastics. The option of cryogenic grinding makes them particularly versatile. Or use them for sample preparation for chemical analyses, for example.

FRITSCH

P-16

UNIVERSALLY APPLICABLE ROTOR MILL FOR FAST PRE-GRINDING AND FINE GRINDING

If you work with coal, coke, lime, shale or other materials up to Mohs hardness 6 in the laboratory, pilot plant or industry, the P-16 rotor mill is exactly what you need. It grinds bulk materials up to 25 mm in batches or continuously, often down to 100 µm and smaller in the first working cycle. Extremely easy to clean thanks to tool-free removable grinding tools.

P-14

UNIQUE COMBINATION OF ROTOR MILL AND CUTTING MILL IN ONE DEVICE

Depending on the accessories used, you can either use the FRITSCH P-14 as a rotor mill for medium-hard, brittle materials such as coffee, grain or feed pellets or as a cutting mill for samples that are difficult to grind, tough and temperature-sensitive. This makes it the ideal two-in-one instrument for applications such as food & feed, plastics and the environment. With extremely high speeds, unique patented cooling and an extra durable motor. And the display shows you step-by-step how to use the grinding accessories – another FRITSCH patent.

EASY WORKING. GREAT RESULTS.

24-25
DISK MILLS

FRITSCH TIP

Combine your disk mill with a FRITSCH jaw crusher for efficient pre- and fine grinding in one work cycle (see page 28).

FRITSCH DISK MILLS: THEY CAN TAKE A BEATING

Our disk mills are a good solution wherever hard and brittle material needs to be ground to analytical fineness as efficiently and uniformly as possible on a pilot plant scale.

These can be building materials, ores, coal, minerals, glass, ceramics or other materials from the stone and earth sector. Use our disk mills to analyse soil samples in environmental research and soil science, waste and recycling materials or to process pharmaceutical raw materials. Or utilise them to homogenise a wide range of materials from fertilisers to metallic powders.

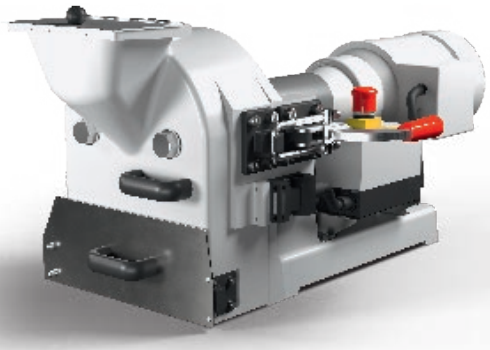
FRITSCH TIP

Let your P-13 work together with a FRITSCH Cyclone and benefit from its advantages (see page 29).

P-13

SOLID PERFORMANCE
UP TO 100 µm FINAL FINENESS

The robust FRITSCH P-13 disk mill grinds up to 150 kg of hard-brittle or medium-hard material per hour. In batches or continuously. Its maximum feed size is around 20 mm edge length, and you can freely adjust the final fineness between 12 mm and 100 µm.



P-13 PREMIUM

UP TO 50 µm FINAL FINENESS WITH DIGITAL PRECISION

Our P-13 premium disk mill is in demand worldwide when it comes to medium-hard and hard-brittle samples: it sets the standard in mining, in metallurgy, for stone and earth, ceramics, glass or soil research. Extremely high throughput of up to 150 kg/h. Extremely precise thanks to its motorised grinding gap adjustment with digital gap display. Extremely safe thanks to the automatic locking of the grinding container and grinding chamber. And you can keep an eye on all parameters directly on the clearly structured display.

26
KNIFE MILL

FRITSCH KNIFE MILL: ROTATING BLADES

In the knife mill, you can grind fresh, raw food and substances that are moist, greasy, oily or in any other way problematic.

This makes them the ideal choice for sample preparation in areas such as food and animal feed, pharmaceuticals, cosmetics, chemicals and many other fields of application. Our single-use technology offers you additional options for absolute safety against cross-contamination.

P-11

POWERFUL KNIFE MILL FOR VERSATILE USE

Our P-11 delivers gentle comminution and homogenisation of a wide range of different materials in a matter of seconds. Its extra powerful motor and the 4-blade knife effortlessly handle even challenging samples with a high fat or water content. With final finenesses of up to 300 µm and finer.

27

MORTAR GRINDER

FRITSCH MORTAR GRINDER: EXTRA GENTLE

Our robust mortar grinder ensures the particularly thermally gentle grinding of a wide range of sensitive materials that could be damaged or altered by strong mechanical impact.

With fixed grinding parameters, you can achieve exactly the fine, uniform and reproducible particle size distribution that is required in a wide range of applications such as pharmaceuticals, soil science, food or glass and ceramics. The ideal universal grinder in the laboratory – for preparing analyses for quality control and material testing.

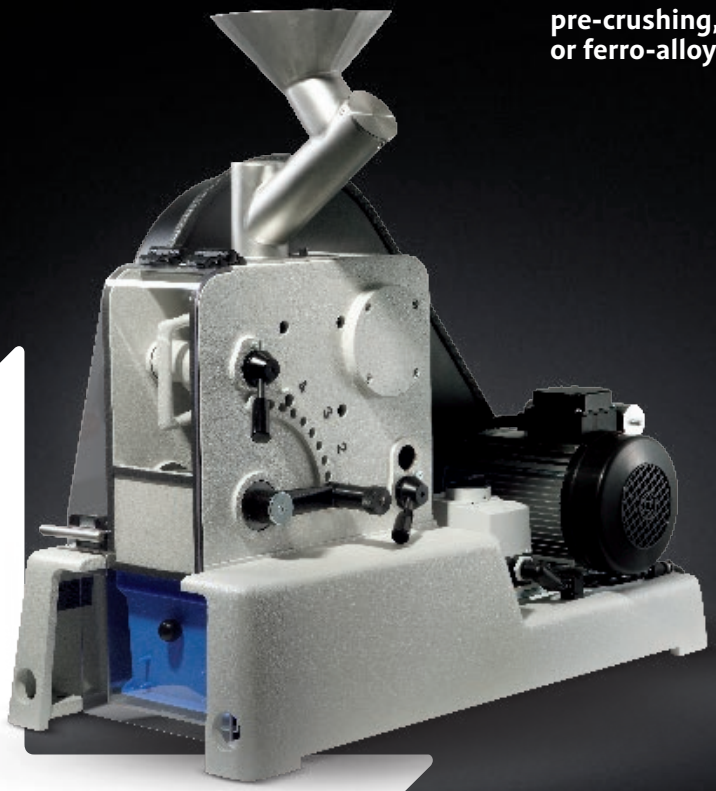
P-2

GENTLE GRINDING, MIXING AND EMULSIFYING

Your perfect helper for finenesses up to 10 µm.
Or for simple mixing and homogenising of ointments, creams and pastes on a laboratory scale up to 190 ml.
It creates oil-in-water or oil-in-oil emulsions. It also grinds difficult samples with liquid nitrogen. And in galenics, it prepares tablets at a particularly low temperature.

FRITSCH JAW CRUSHER: NO MATERIAL IS TOO HARD

A real jaw crusher has to be able to take a beating. You can rely on that with FRITSCH! Our two models provide you with fast pre-crushing, even for the hardest materials or ferro-alloys.



This makes the FRITSCH jaw crusher the perfect workhorse for highly demanding applications such as mining and metallurgy, geology and mineralogy or glass and ceramics.

P-1

HIGHLY EFFICIENT PRE-CRUSHING OF UP TO 200 L/H

When the going gets really tough, the two models of the FRITSCH P-1 jaw crusher are your best friends in the laboratory and in quality control. Depending on the model and gap width, their powerful crushing plates crush material with feed sizes of up to 95 mm or 60 mm to final finenesses of 15 mm to 1 mm. Only on the FRITSCH jaw crusher can you change the crushing plate kinematics and thus even influence geometric shape factors. And by simply turning the crushing plates, you can double their service life.

29
CYCLONES

NEW POSSIBILITIES THROUGH OPTIMAL SAMPLE EXHAUSTION

Clean, practical, cool: Combine your FRITSCH cutting mill, rotor mill or disk mill with a FRITSCH Cyclone for sample exhaustion and achieve even better results.

Its powerful airflow makes filling of your mill easier, speeds up throughput and significantly reduces the thermal load on your samples. It makes things possible for many demanding samples that would otherwise be impossible. At the same time, it increases safety at work because the dust load is almost zero.

FRITSCH SMALL VOLUME CYCLONE SEPARATOR

We have developed the compact FRITSCH small volume Cyclone made of plastic especially for the extraction of small sample volumes. It can be completely disassembled and cleaned in the dishwasher without contamination. Sample collection tubes with a capacity of 250 ml or 500 ml are also available.

FRITSCH HIGH-PERFORMANCE CYCLONE

The FRITSCH high-performance Cyclone made entirely of 316L stainless steel is indispensable, especially in the analytical sector and in the food and pharmaceutical industries. Or use it for processing heterogeneous material mixtures – for example, secondary fuels in the building materials industry. With the additional collecting vessel, it can also be used for large quantities of up to 60 litres.

30-31
ACCESSORIES

EVERYTHING YOU NEED

FRITSCH laboratory mills only work with the right accessories. It is important that you adapt the size and material perfectly to your sample material and your specific application, depending on the type of mill. We will help you make the right choice. And also offer additional customised solutions.

LARGE VARIETY OF MATERIALS

Grinding bowls, grinding balls, rotors, knives, crushing plates and other accessories that come into direct contact with your samples are available from FRITSCH in a wide range of different materials. This allows you to match them precisely to the properties of your sample material or the requirements of special applications and avoid contamination through abrasion.

MEASUREMENT OF GAS PRESSURE AND TEMPERATURE

With the various EasyGTM systems, which consist of special grinding bowls and the associated software, you can turn FRITSCH planetary mills into an analytical measuring system for monitoring gas pressure and temperature.

EASY CRYO GRINDING

For the efficient cryogenic grinding of demanding samples FRITSCH has special grinding tools. With them you can grind samples embrittled in liquid nitrogen.

FRITSCH PELLET PRESS

With the FRITSCH pellet press, you can quickly and easily process solid samples into pellets that are both stable and highly permeable. Ideal for X-ray fluorescence analysis or infrared spectroscopy.

INDIVIDUAL SOLUTIONS

In addition to our extensive standard programme, we also offer you accessories for individual requirements or special areas of application – for example, for analysing samples in accordance with RoHS or FDA specifications. Choose from a wide range of options from heavy metal and iron-free to oil and acid-resistant grinding solutions. Or ask us about autoclavable solutions.

SINGLE-USE-TECHNOLOGY

For absolute contamination safety in areas such as pharmaceuticals, life sciences, forensics or biotech, there are single-use accessories for various FRITSCH laboratory mills available – your absolute protection against contamination.

32-33

MEASURING WITH FRITSCH

We make state-of-the-art particle measurement as easy as possible. With fewer components for less wear and maintenance. And a measuring process that is hard to beat in terms of simplicity and precision: fill in the sample, start the measurement, analyse the result, done. With dry or wet dispersion – and completely new findings through the measurement of particle size and particle shape.

MODERN PARTICLE ANALYSERS FOR LABORATORY AND QUALITY CONTROL

Modern software included

We have pre-installed the appropriate software for controlling, recording and perfectly analysing your measurement results on all FRITSCH particle sizers. All user entries, parameters and results are stored automatically and audit-proof in an SQL database and can also be conveniently analysed on other end devices by integrating them into a local network.

FRITSCH

FRITSCH EXPERT ADVICE

Ask us about the possibilities that modern particle measurement opens up for quality control, laboratory and research! We will help you with our technical application expertise and determine the decisive parameters together.

MORE ABOUT PARTICLE MEASURING

CLICK HERE

EASY WORKING. GREAT RESULTS.

34-35

MEASURING WITH FRITSCH

A-22

SIMPLEST PARTICLE MEASUREMENT DOWN TO THE NANO RANGE

Take a closer look at the FRITSCH particle analyser A-22 if you are looking for maximum accuracy and sensitivity, even for the smallest particles, with the simplest possible operation.

Our high-tech particle sizer works with static light scattering and offers you an extra wide measuring range from 0.01 µm to 3.8 mm with just one laser plus a range of patented features. Designed for ease of use and maximum durability with minimum maintenance. You choose exactly the modules you need for your measuring tasks.

SEE MORE IN YOUR PARTICLES

Revolutionise your particle size measurement with our A-28 particle analyser and replace the time-consuming sieve analysis. Or gain completely new insights into your samples by observing the particle shape. This opens up unimagined analysis possibilities. From automated detection of deformed particles in the animal feed industry to increasing efficiency in mining.

A-28

Plug-and-play alternative to sieving

With the ready-to-use FRITSCH A-28 particle analyser, you can reduce the determination of particle size per measurement process to just a few minutes. Completely without weighing, sieve tower set-up, time-consuming cleaning and calibration. At the same time, you also receive valuable information about the particle shape. The perfect alternative for sieving and microscopy in the areas of quality control and root cause analysis!

Completely new possibilities for analysing materials

Every single particle is captured in the A-28 at up to 75 images per second, each of which can be viewed individually in the software and freely correlated with more than 20 parameters for detailed analysis. This opens up a whole world of new possibilities when searching for sources of problems or approaches to optimisation in quality control, root cause analysis or R&D.

36-37

SIEVING WITH FRITSCH

With just 3 sieve shakers, the FRITSCH range covers everything you need for your sieving tasks in quality control or in the laboratory: dry and wet sieving, quantities from 20 g to 15 kg, sieve mesh sizes from 12.5 cm to 20 µm plus automatic evaluation of the results. Easy to use with perfect results for analysing particle size distribution, fractionation or separation.

EXACTLY THE SIEVE SHAKERS YOU NEED

A-3 PRO

YOUR SIEVE SHAKER FOR PRECISELY MONITORED RESULTS

Our top model for sieving for quick quality control: exactly reproducible results thanks to precisely adjustable amplitude with sensor monitoring, particularly easy to operate, low-noise, robust and durable. You can easily save programmes for different sieving parameters. Ideal conditions for separating and fractionating of sieving amounts up to 2 kg in the 20 µm to 63 mm range. And for fully automatic evaluation, we provide you with the Autosieve software for 90 days free of charge for testing.

FRITSCH TIP

The A-3 pro can be used as test equipment in quality management in accordance with DIN EN ISO 9001.

A-3

THE STANDARD SIEVE SHAKER FOR ALL COMMON TASKS

The FRITSCH sieve shaker A-3 is your standard instrument for all common sieving tasks in the laboratory and in quality control – and at the same time a fully operational FRITSCH vibratory mill P-0. It sieves quickly and easily up to 2 kg of material – dry or wet – in up to 5 sieving processes simultaneously. Or it determines the particle size distribution of solids and suspensions for you. And as a vibratory mill, it grinds or homogenises sample quantities of up to 10 ml.

A-18

ROBUST HEAVY-DUTY SIEVE SHAKER WITH THREE-DIMENSIONAL SIEVING MOTION

With our A-18, you can effortlessly sieve up to 15 kg of material in a single operation – dry or wet. Its three-dimensional sieving motion ensures particularly fast sieving results with optimum reproducibility. Perfect conditions also for pilot plant production or for serial analyses of larger quantities.

38

DIVIDING / FEEDING WITH FRITSCH

Rule of thumb has no place in the lab. It starts with the division and allocation of your material. Here you lay the foundation for the accuracy and reproducibility of your results. That's why we offer you two high-performance instruments in FRITSCH quality. They ensure representative samples with 99.9% division accuracy and a precisely controlled material supply. Simple, reliable, accurate.

PRECISE DIVISION – PERFECT FEEDING

L-27

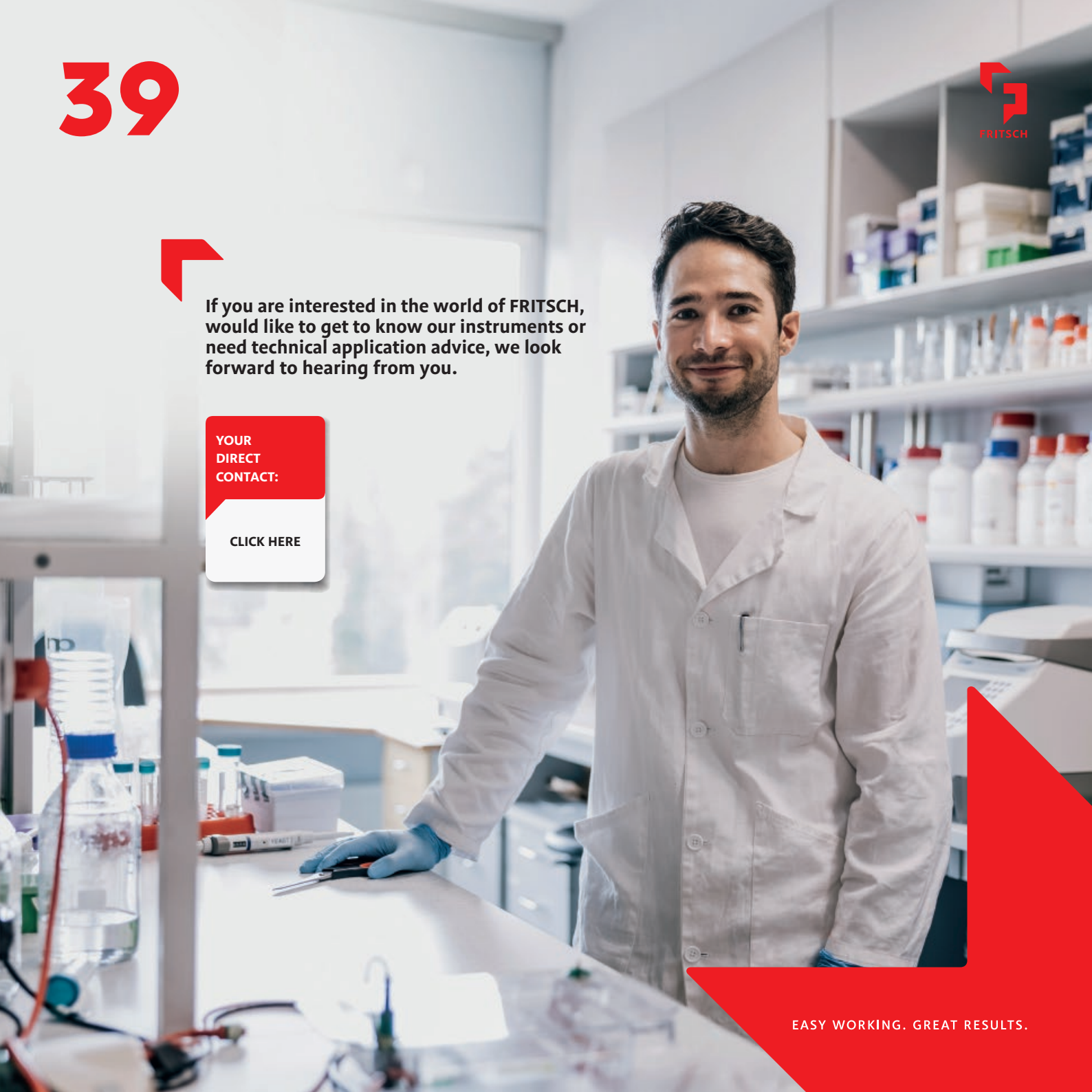
THE BEST SAMPLE DIVISION AVAILABLE

The sample divider L-27 divides your samples from 5 to 4,000 ml into up to 30 subsamples with up to 3,000 division steps per minute. Each sub-sample has chemical and physical properties with an accuracy of up to 99.9 %. For many more materials than any other method can manage. It is also available in food-safe materials for problem-free use in the food industry.

L-24

AUTOMATIC SAMPLE FEEDING IN A CLASS OF ITS OWN

Revolutionise your material dosing with the first-class FRITSCH L-24 feeder, which ensures leading precision and efficiency in sample feeding for scientific analysis and industrial applications. You can adjust the feed amount variably from 1 g/min to 2,500 g/min to suit the rheology of your material. The instrument is easy to clean, robust for any application and particularly energy-saving with a drive power of just 0.1 kW.



If you are interested in the world of FRITSCH, would like to get to know our instruments or need technical application advice, we look forward to hearing from you.

YOUR DIRECT CONTACT:

CLICK HERE

EASY WORKING. GREAT RESULTS.

FRITSCH

Fritsch GmbH
Industriestrasse 8
55743 Idar-Oberstein
Germany
Phone: +49 6784 70-0
sales@fritsch.de

www.fritsch.de

Concept and design: zuk. AG, Trier · Köln, www.zuk.de

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