



EFFICIENT SAMPLE PREPARATION. MAXIMUM PROCESS CONTROL.

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CYCLONE SETS

**HIGHER THROUGHPUT. LESS HEAT.
MAXIMUM RECOVERY RATE.**

Cyclone sets are the ideal solution for clean, efficient, and material-friendly sample discharge in modern sample preparation processes. They ensure highly efficient separation of sample material from the airflow, reliably replacing conventional gravity discharge outlets.

Especially when handling fine, low-density, or heat-sensitive materials, the combination of cyclone technology and an external vacuum system enables controlled discharge, reduced thermal stress, and optimized sample recovery, ensuring maximum process reliability and reproducible results.

Product Overview

The four more versatile cyclone sets listed on page 2 include the following components:

- | cyclone with lid (including connector for vacuum cleaner)
- | flexible FDA certified hose (1,5 m)
- | collecting container (depending on the set)
- | holder for cyclone and container



left: High Performance Cyclone
right: Standard Cyclone

YOUR BENEFITS AT A GLANCE

- | Increased sample throughput through active airflow
- | Gentle processing of heat-sensitive samples
- | Improved separation efficiency, especially for fine and low-density particles
- | Flexible system integration (standalone machine or multi-machine configurations)
- | High airtightness ensures maximum process reliability and optimal sample recovery with minimal residue
- | Clean, dust-free operation for maximum operator safety and an ideal working environment
- | Significantly reduced maintenance intervals thanks to reliable bearing protection, minimizing wear and extending service life
- | Robust steel construction for continuous operation in laboratory and industrial environments

Advantages of the Cyclone Sets

Thanks to its **modular design**, the cyclone set can be flexibly adapted to a wide range of machine configurations, from a single unit to the combination of two machines. This **high level of adaptability** makes it a future-proof solution for evolving and expanding requirements.

The **flexible hose solution**, included in the set, allows variable positioning of the cyclone set either below or next to the machine. This ensures seamless integration into existing laboratory environments. At the same time, the system offers simple and comfortable handling: even if relocation is required, the cyclone set can be repositioned effortlessly.

The **adjustable steel connection tubing**, available as an optional accessory, guarantees a stable, airtight, and precise connection between the machine and the cyclone, even under demanding laboratory conditions. In addition, it is especially robust, durable, and easy to clean, enhancing usability and making it especially suitable for sensitive laboratory environments.

This Document refers to 4 cyclone sets

Cyclone set with holder, FDA certified hose, lid with connector for vacuum cleaner



Sample: Cyclone Set 229350038 in combination with jaw crusher BB 50

Cyclone Set	229350038	with sample bottle 0.25 l and 0.5 l
Cyclone Set	229350039	with collecting receptacle 30 l
High-Performance Cyclone Set*	229350042	with sample bottle 0.25 l and 0.5 l
High-Performance Cyclone Set*	229350043	with collecting receptacle 30 l

*The High-Performance cyclones are most beneficial for mills which produce fine particles. Fine and light particles are separated better in this cyclone.

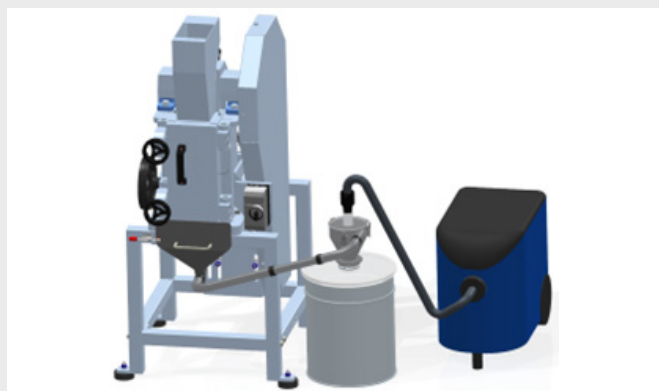


Steel Connecting Tubing

Adjustable Steel Connecting Tubing	026050420	please order separately
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Example Assembly Setup

Using the cyclone set with one machine



Machine 1 - Outlet - Hose/Steel connection tubing - Cyclone - Vacuum cleaner

The cyclone set offers efficient material separation, controlled and clean discharge, and improved sample recovery, while lowering maintenance costs by protecting machine bearings from dust.

Example Assembly Setup

Using the cyclone set with a combination of two machines



Machine 1 - Outlet - Hose/Steel connection tubing - Inlet - Machine 2 - Outlet - Hose/Steel connection tubing - Cyclone - Vacuum cleaner

Beyond the general advantages of a cyclone, this combination enables pre-crushing and fine grinding in a single pass, resulting in increased process efficiency.



Disc Mill DM 200



Ultra Centrifugal Mill ZM 300

Compatibility & Integration

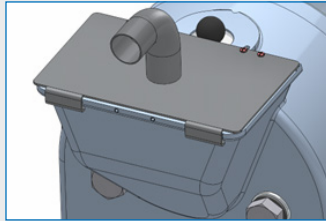
Designed for maximum flexibility, the system seamlessly integrates with a wide range of machines via machine-specific input and output interfaces. Its modular design enables straightforward retrofitting, allowing existing installations to be upgraded quickly and efficiently.



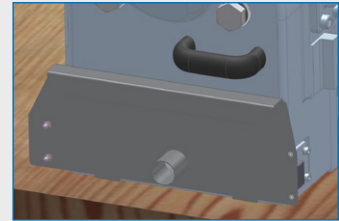
Jaw Crusher BB 50



Jaw Crusher BB 500



Inlet DM 200 / 027850275



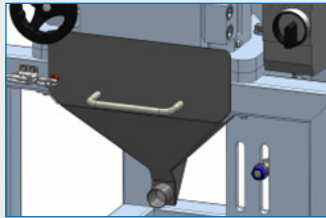
Outlet DM 200 / 021830143
Outlet BB 50 / 021830140



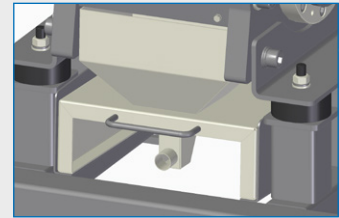
Jaw Crusher BB 250



Jaw Crusher BB 400



Outlet BB 250 / 031830141
Outlet BB 400 / 031830142



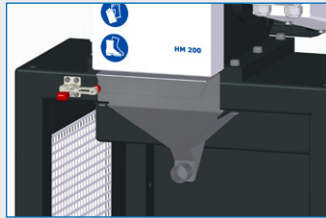
Outlet BB 500 / 031830154



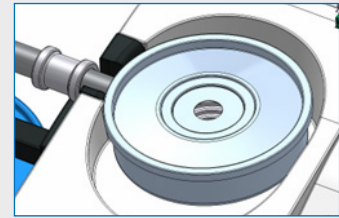
Hammer Mill HM 200



Cutting Mill SM 200 / SM 300



Outlet HM 200 / 031830138



Outlet ZM 300 / 020100060



Outlet SM 200 021830156
Outlet SM 300 021830156



Outlet SK 300 021830158
Outlet SR 300 021830157



Cross Beater Mill SK 300



Rotor Beater Mill SR 300

Find out more at
www.retsched.com

