

THE BEAUTY OF
PRECISION

 **Hauschild**
SpeedMixer[®]



YOUR PERFECT MIX FOR

Mixing. Dispersing. Grinding.
NextGen: SMARTMixing.

HAUSCHILD ENGINEERING

50 years dedicated to developing & producing Hauschild SpeedMixer®

Since 1974 Hauschild GmbH & Co. KG (Hauschild Engineering) has been providing innovative mixing solution worldwide for a wide range of applications. Hauschild SpeedMixer® is the most widely used equipment in laboratories around the world when mixing is a critical part

of the R&D process. In just a few minutes, the Hauschild SpeedMixer® can be used to obtain air bubble-free multi-material compounds, such as liquids, high-viscosity pastes and powders.

TECHNOLOGY

German Engineering

Through continuous improvements for almost 50 years, the Hauschild SpeedMixer® has become the most reliable mixing solution available today. The mixing of materials is based on the Dual Asymmetric Centrifuge (DAC) principle: the container where the material is placed rotates clockwise around a main axis and anticlockwise around the basket's axis. The combination of forces generated by these opposite rotations allows for very quick and homogeneous bladeless mixing. The precision in the construction of every unit provides perfect equilibrium that allows for safe and very low-noise operation. Thanks to its optimized mechanical configuration, the Hauschild

SpeedMixer® enables almost 100% degassing while mixing, obtaining air-bubbles free mixtures, and therefore sparing any additional degassing cycle. For complete deairing, machines operating under vacuum are also available. Programmable cycles ensure an identical mixture from batch to batch and the opportunity to accelerate the development process. Mixing in a closed container reduces the chemical load to a minimum. The Hauschild SpeedMixer® is a bladeless mixer that works with disposable cups reducing to zero the necessity of using chemicals for cleaning of the equipment.



PRODUCT RANGE

The Hauschild SpeedMixer® product line can be divided in three major groups, depending on the maximum nominal gross weight a machine can mix: small, medium, and large machines. Small and medium equipment are generally better suited for laboratory work, large equipment can also be utilized in a production setting where the batch size is up to 10kg (22 lb).



SPECIAL FEATURES

We mix it better

Many additional optional features are available in the Hauschild SpeedMixer® to adapt our equipment to the most challenging mixing processes. Volume is an important parameter when mixing and that is why Hauschild offers (HV) High Volume equipment. The Long Radius (LR) option also offers better performances with light powders.

ROBOTIC SOLUTIONS

Optimize your workflow

The Hauschild SpeedMixer® of the medium range are also available in the robotic version. Our Robotic machines have been widely used in small and large robotic systems developed in collaboration with the biggest system integrators.

CUSTOMIZATION

Up to every challenge

We recognize that each one of our customers has different mixing challenges. For this reason, Hauschild Engineering has developed hundreds of different customized solutions based on the Hauschild SpeedMixer®. The more we understand your application, the better we can serve your needs.



THE NEXT GENERATION IS HERE: THE HAUSCHILD SPEEDMIXER SMART DAC

INTELLIGENCE & POWER BLEND TOGETHER PERFECTLY IN OUR MOST ADVANCED DAC MIXER



What does SMART mean to us?

Speed -

new motor with more power for faster rotation and higher G forces.
Twin-motors configuration for variable counter rotation.

Mechanical Art -

more stable mechanical configuration for zero vibrations at very low mixing speed.

Automation-

IoT compatible, QR-Code reader, programmable cycles, sensors integration.

Robotic -

easy integration in robotic system, servo motor, and the new and unique vacuum robotic version.

Temperature control -

by combining temperature reading with an automatic cooling system.



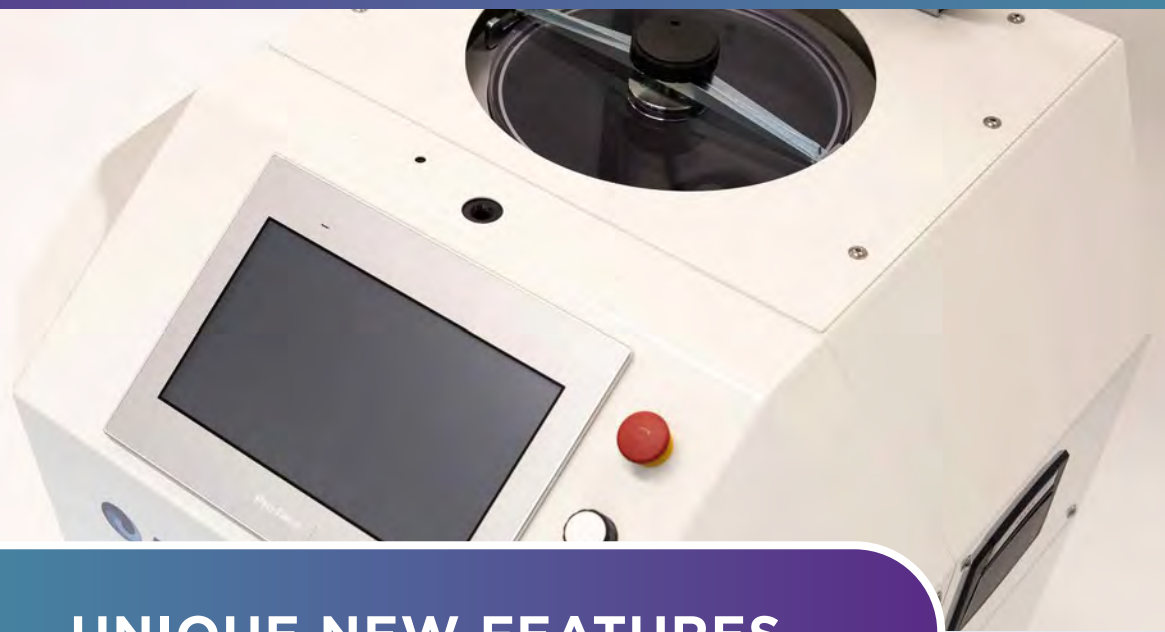
NEW CAPACITY AND HIGHER VOLUME AVAILABLE

We have increased the capacity, offering more choices for your specific application. The SMART DAC series allows mixing from 250 g up to 2 kg.

All SMART DAC will be available with mixing volume from 310 ml up to 2.8 liters.

Choose the volume that better suits your material.





UNIQUE NEW FEATURES



SENSORS INTEGRATION
(humidity, gas detection,
fire & smoke,...)



**REAL-TIME JAR'S
TEMPERATURE
CONTROL**



**QR CODE
READER**



**INTERNET OF
THINGS**



**AUTOMATIC AND
PROGRAMMABLE
COOLING SYSTEM**

- ⌚ variable counter rotation
- ⌚ up to 500 programs with multiprogram function
- ⌚ up to 36 steps with acceleration and deceleration programmable for each step
- ⌚ up to 30 minutes mixing time
- ⌚ Strobe light

The Hauschild team will support you configuring the SMART DAC according to your requirements. Highly sophisticated. Very easy to use. It will enhance your daily lab work significantly.

R.O.I

Time saving, almost maintenance free, robust, reliable, long lasting. These are the reasons why the Hauschild SpeedMixer SMART DAC represents a fast Return On Investment.

Made In Germany

Hauschild Engineering invented, develops and handcrafts its dual asymmetric centrifuges in Germany since almost five decades. We have devoted the last three years to offer our customers a unique device that will be a milestone in the laboratories' world.

We Create Standards

More than 900 patents have been developed using the Hauschild SpeedMixer® devices. The SMART DAC will facilitate the development of new processes and protocols even more.

MATERIALS

You name it, we mix it

The Hauschild SpeedMixer® can be used to mix different fluids and pastes, pastes with powders, powders with powders and other fluids/powders combinations. Materials with different chemical and physical properties can be mixed. You chose! Resins, inks, paints, silicones, oils, gels, emulsions, creams, epoxies, powders, urethanes, ... the list is endless. The Hauschild SpeedMixer® is well suited to mix one, two or multi-component liquids and pastes.



INDUSTRIES

We serve them all

The Hauschild SpeedMixer® is used in every industry and field where mixing is an essential part of the development or production process. Some of the most common applications and industries are: preparation of materials for 3D printing; mixing of adhesives and sealants; mixing of materials for the aerospace and defence industry including explosive materials (for these applications machines are manufactured with a remote control unit); mixing of materials used in electrical batteries such as slurry or pastes, gels, epoxies and other resins used in electronics manufacturing; grinding and further processing of cannabis; mixing in the pharmaceutical industry where repeatability and precision of results are key to a solid development process; mixing of base materials for the ink industry; mixing of several materials in the cosmetics industry to produce creams, lotions, lipsticks and other products.





CUPS

Numerous options

Depending on the mixing weight and filling volume, different cups are available for your Hauschild SpeedMixer®. All mixing cups can be used as disposable items. Hauschild offers jars in several colors beside transparent, white, and black, which is suitable for photosensitive material. The most used jars are made of polypropylene (PP) due to its high resistance to the temperature and the low chemical reactivity. Dimensions of the cups and buckets go from few ml up to 16l of nominal capacity.



HOLDERS AND ADAPTERS

Standard and customized

To help the customers obtaining the best results with their Hauschild SpeedMixer®, we continuously work on the research and development of accessories. Custom made adapters have been designed to allow our customers mixing in a wide range of small and large containers such as polypropylene jars, syringes, cartridges, glass bottles and customized containers. Our solutions allow mixing in one or more containers for every run. We are pleased to help you finding the best suitable accessory for your machine.



EQUIPMENT STANDS

Comfort and safety for your workstation

An optional steel stand is available for the series DAC 400 to DAC 1100. The Hauschild SpeedMixer® is positioned on the stand at a user-friendly working height and with sufficient storage space for accessories. The fixable wheels guarantee an optimal and horizontal position of the machine.





HAUSCHILD GMBH & CO. KG

Waterkamp 1
59075 Hamm

✉ info@hauschild-speedmixer.com
☎ +49 (0)2381 48205

HAUSCHILD SPEEDMIXER INC.

37735 Enterprise Ct., Suite 100
Farmington Hills, MI 48331 USA

✉ info.us@hauschild-speedmixer.com
☎ +1 (877) SPDMXER

www.hauschild-speedmixer.com

THE PAST. THE PRESENT. THE FUTURE.

Over 40 years dedicated to the
original Hauschild Speedmixer.



**THE ORIGINAL
GERMAN MIXING
SOLUTION
SINCE 1974**