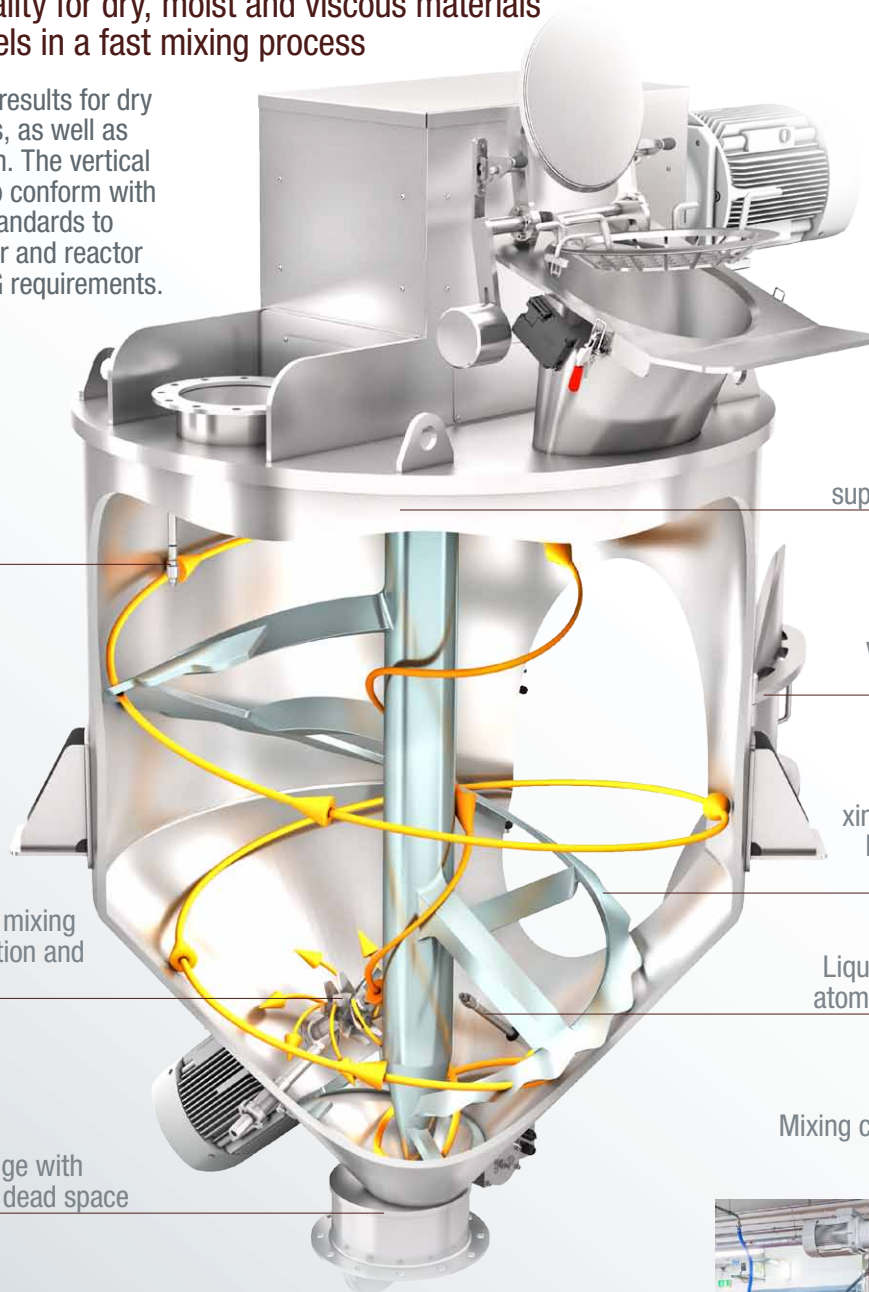


# Conical mixer Type AM

The ideal mixing quality for dry, moist and viscous materials at variable filling levels in a fast mixing process

Guarantees ideal mixing results for dry powder, wet suspensions, as well as liquids, pastes and dough. The vertical mixer can be designed to conform with FDA and 3-A Sanitary Standards to be used as a sterile mixer and reactor which also meets EHEDG requirements.



Washing nozzle

Mixing chamber and mixing tool welded and polished without gaps

Choppers to improve the mixing process by deagglomeration and liquid distribution

Standard connection flange with outlet flap, seals without dead space

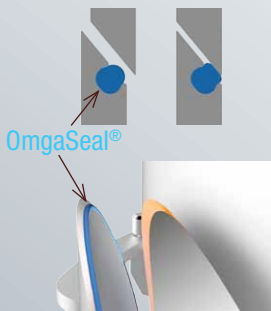
Mixing tool driven and supported only from above

Large inspection door without dead space designed by Clever-Cut®

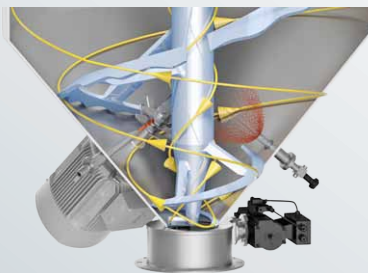
SinConvex® helical mixing tool, patented; excellent mixing quality, high degree of discharging

Liquid addition by means of atomizing nozzle on demand

Mixing chamber: ATEX Zone 20



Hygienic inspection door without dead space, designed by Clever-Cut®



Two types of liquid addition in the amixon® cone mixer



Model AM 2000 for instant food

AM-1-7003-2022 EN



LIFESCIENCE



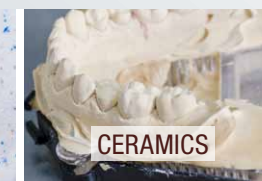
FOOD



ANIMAL CARE



DETERGENTS



CERAMICS



POLY

## User Benefits

- ✓ This precision mixer is universally applicable.
- ✓ Provides ideal mixing qualities in a very short mixing time.
- ✓ The filling levels can vary from approx. 5% to 100%.
- ✓ Free-flowing goods discharge up to 99.98% and better.
- ✓ Mixing tool driven and supported only from above. Everything is fully welded and polished without gaps.
- ✓ The inspection door is especially hygienic - manufactured according to the Clever-Cut® process with OmegaSeal® and seals permanently free of dead space. On request also vacuum-tight or against overpressure.

## Piloting

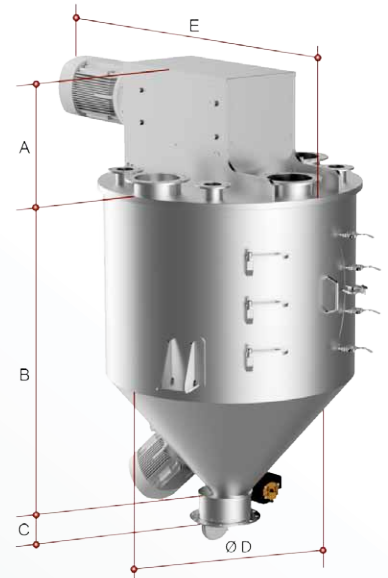
amixon® places special importance on the pilot phase in the test centre. Your mixing processes are simulated here. This way, we support you in your product development phase. amixon® has a main test center in Paderborn (Germany). Further test centers are situated in Japan, Thailand, India, South Korea and the USA.



## Technical Data

On request, amixon® manufactures mixer sizes in 100 liter steps from 100 liters to 50,000 liters

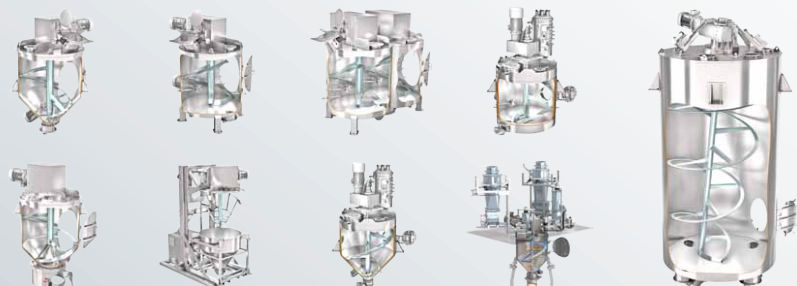
| Conical mixer<br><b>Type AM</b><br>The type designation is equal to the batch size in liters. Ideal mixing even at low filling levels. Intermediate sizes are available in 100 liter steps. | Approximate gross volume of the mixer | Approximate dimensions of the standard version.<br>Please ask for detailed dimension sheets! |      |     |      |      | The drive power required can vary widely depending on the bulk density, flow characteristics, rotational frequency and the processing task (such as deagglomeration). |      | Weight may vary considerably depending on the size of the drive and the type of design. The additional dynamic loads are very low. |
|---|---------------------------------------|--|------|-----|------|------|---|------|--|
|   |                                       | A  | B    | C   | D    | E    | from  | to   |  |
|   |                                       | [liters]   | [mm] |     |      |      |   | [kW] |  |
| 100   | 130                                   | 360  | 712  | 157 | 620  | 1100 | 1   | 3    | 730  |
| 200   | 260                                   | 430  | 912  | 157 | 770  | 1350 | 3   | 7    | 890  |
| 300   | 390                                   | 420  | 1119 | 157 | 770  | 1350 | 4   | 12   | 890  |
| 5000  | 6470                                  | 810  | 2380 | 157 | 2030 | 2600 | 28  | 97   | 7590   |
| 6000  | 7760                                  | 810  | 2670 | 157 | 2170 | 2650 | 31  | 108  | 8130   |
| 15000   | 19300                                 | 1100   | 3825 | 157 | 2824 | 3820 | 51  | 181  | 15600  |



- Usually the vessel dimensions are relatively cubic, so that the height of the cylinder corresponds to the diameter. If desired, amixon® can modify the proportions: "low profile" if the height is limited or "slim profile" if the available ground area is limited.
- The rotational frequency can vary widely from about 0,8 m/s to about 3,5 m/s. Usually conical mixers operate at low speed.
- As a welding specialist, amixon® is qualified by European, Japanese and American authorities with regard to different materials. The materials in contact with the mixing goods are either mild steel S355J2Ge, Hardox, austenitic stainless steels 1.4301, 1.4541, 1.4571, 1.4404, 1.4539, 1.4529, Duplex stainless steels 1.4462, 1.4162, 1.4363, and Alloy 59-2.4605, Hastelloy C22 and nickel.
- The mixers meet the highest hygienic requirements and comply with the EHEDG guidelines for dry and wet cleaning. The mixers also meet the FDA hygiene guidelines and the design requirements of 3-A Sanitary Standards.



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amixon® manufactures high precision mixers, vacuum mix-dryers, synthesis reactors and granulators with maximum fabrication depth. All components of the amixon®-mixers are made in Germany. The production of the machines takes place exclusively in the amixon®-factory in Paderborn, Germany.

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