

SpherHelics® Hollow spherical mixer Type SH

Ideal mixing qualities and short mixing times for dry, moist and pasty goods as well as suspensions

amixon® hollow spherical mixers can be manufactured FDA-compliant as sterile mixers and reactors. They meet the EHEDG requirements and the 3-A Sanitary Standards.

Manual feeding hopper on request

Lance for addition of liquids

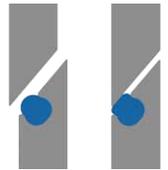
Cutting rotor for deagglomeration

Mixing chamber and mixing tool welded and polished without gaps

Mixing chamber: ATEX Zone 20

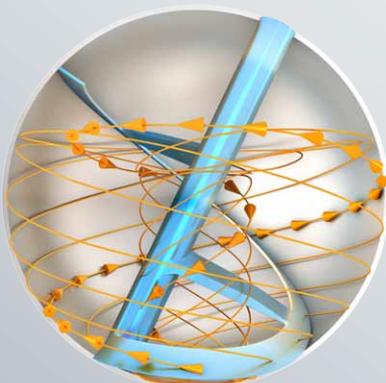
Mixing tool driven and supported only from above

OmgaSeal® without dead space



Large inspection door, free of dead space, designed by Clever-Cut®.

Standard connection flange with outlet flap, without dead space



Mixing flow



DosiFlap® fitting for powder filling, free of dead space



ComDisc® for complete discharge: During the final phase of the discharging, the ComDisc® elements sweep the ground.

SH-1-9123-2023-EN



LIFESCIENCE



FOOD



ANIMAL CARE



DETERGENTS



CERAMICS



POLY

User benefits

- ✓ The SpherHelics® mixer can mix gently or aggressively desagglomerating.
- ✓ The mixing times are short.
- ✓ Low energy consumption due to low friction and resistance
- ✓ Liquid admixtures are distributed quickly and accurately.
- ✓ Simple, fast wet and dry cleaning
- ✓ Good residual discharge of free-flowing goods

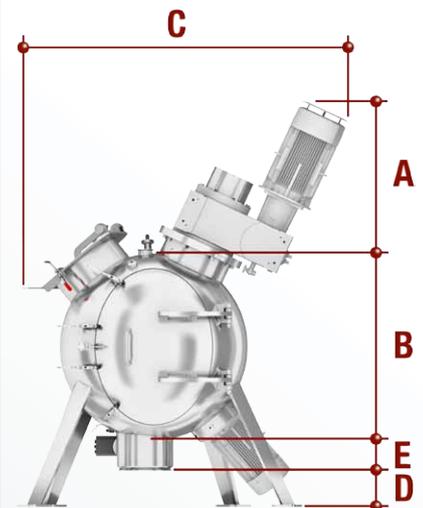
Piloting

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

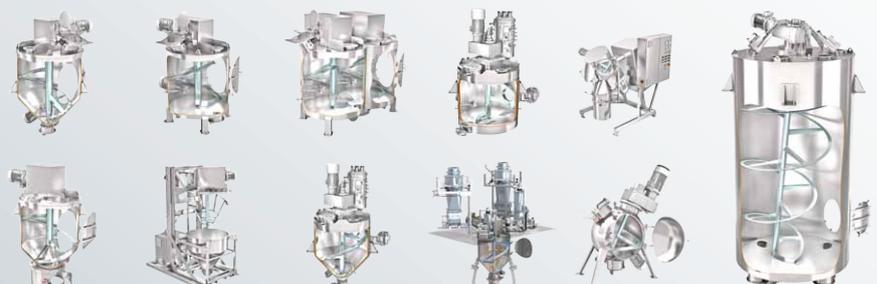
| SpherHelics® Hollow spherical mixer Type SH The type designation corresponds to the maximum batch size in litres. Highest mixing qualities can be achieved even at low filling levels. | Approximate gross volume of the mixer | Approximate diameter of the hollow sphere | Approximate dimensions of various amixon® hollow sphere mixers. For exact planning, please request detailed dimension sheets! We will be happy to provide you with CAD data on request. | | | | | The required drive power can vary greatly depending on bulk density, flow characteristics, rotation frequency, processing task such as deagglomeration. | |
|---|---------------------------------------|---|---|------|------|-----|-----|---|-------|
| | | | A | B | C | D | E | from | up to |
| Net capacity [litres] | Litres | mm | mm | | | | | kW | |
| 400 | 571 | 1030 | 910 | 1130 | 1750 | 410 | 180 | 3 | 6 |
| 600 | 857 | 1180 | 950 | 1230 | 1830 | 410 | 180 | 5 | 11 |
| 800 | 1143 | 1300 | 1090 | 1330 | 2030 | 410 | 180 | 7 | 15 |
| 1000 | 1429 | 1400 | 1130 | 1430 | 2140 | 520 | 180 | 9 | 21 |
| 1250 | 1786 | 1500 | 1150 | 1530 | 2210 | 520 | 180 | 12 | 25 |
| 1500 | 2143 | 1600 | 1170 | 1630 | 2290 | 520 | 270 | 14 | 30 |
| 2000 | 2857 | 1760 | 1180 | 1780 | 2400 | 605 | 270 | 19 | 39 |
| 2500 | 3571 | 1900 | 1210 | 1930 | 2610 | 605 | 270 | 23 | 50 |
| 3000 | 4286 | 2020 | 1200 | 2030 | 2680 | 680 | 270 | 28 | 60 |
| 4000 | 5714 | 2220 | 1200 | 2230 | 2820 | 680 | 270 | 37 | 80 |
| 5000 | 7143 | 2400 | 1265 | 2430 | 3026 | 680 | 270 | 45 | 100 |



- The peripheral speed can vary greatly from approx. 0.8 m/s to approx. 3.5 m/s. As a rule, SpherHelics® mixers are operated 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.
- On request, the mixers meet the highest hygiene requirements and comply with the EHEDG guidelines for dry and wet cleaning regimes. They also comply with FDA hygiene guidelines and the design regulations of the 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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