Continuous mixer Type AMK

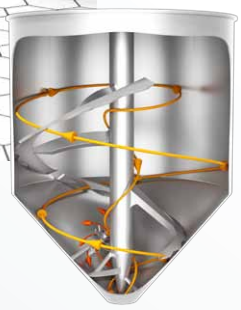
For dry, moist and suspended goods, mixes extremely gently or aggressively dispersive

Gravimetric or volumetric dosage

Adjustment of the filling ratio from 30% to 100%

Mixing chamber: ATEX Zone 20

Adjustable continuous discharge



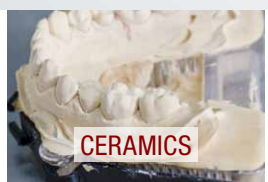
Three-dimensional rearrangement

Operation at start of production:
The discharge valve of the mixer is closed. All the gravimetric working dosing components are started simultaneously with small mass flow and tune themselves automatically in relation to each other.The level of the mixing vessel fills up continuously, starting up the mixer when it reaches half capacity. Tuning is completed once the mixer is filled to half its capacity approximately. The discharge device opens slowly once the mixer is filled at approx. 80% of working capacity. A filling level of 80% is kept constant. The dosing flows are increased up to the maximum mass flow while maintaining a constant synchronisation.

Operation at end of production:
All dosing components gradually slow down the mass flow and then switch off at the same time. The mixer discharges the mixture continuously until it is completely empty.

SinConvex® mixing tool for up to 99,99% complete discharge

AMK-1-7112-2020 EN



User Benefits

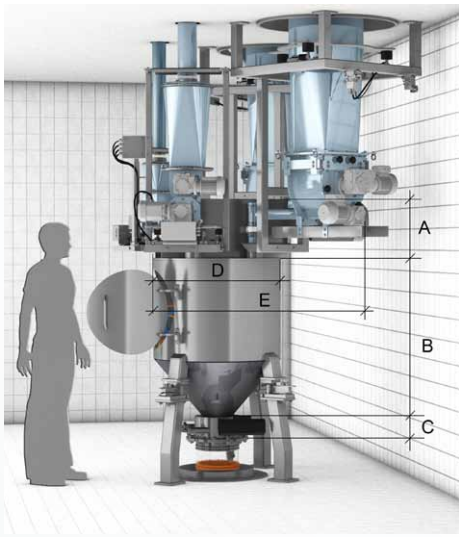
- ✓ Can optionally be operated as batch mixer (for premix) or continuous mixer.
- ✓ Technically ideal mixing quality
- ✓ Mode of mixing is adjustable (gentle homogenization to intensive deagglomeration).
- ✓ Defined residence time regardless of the mixing tool rotation frequency
- ✓ No product loss at start of production
- ✓ No product loss at the end of production
- ✓ Incorporation of micro fine liquid substances without clogging of the mixer possible
- ✓ Defined filling level is adjustable from 10% to 100% of the useful volume.
- ✓ Ideal complete discharging
- ✓ Advanced methods such as wetting, tempering, drying, reaction procedures possible.
- ✓ Highest standard of hygiene (GMP-standard); safe cleaning, dry or wet
- ✓ Mixing tool mounted and driven from above

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 and the USA.

Technical Data

Continuous mixer Type **AMK** The model designation refers to the net capacity in liters	Extended residence for complex mixing tasks (many solids and liquids)			Short residence simple mixing task			Approx. dimensions			
	Residence at maximum fill level	Volume flow	Volume flow	Residence at maximum fill level	Volume flow	Volume flow	A	B+C	D	E
dm³	[Minute]	[dm³/ Minute]	[m³/ Hour]	[Minute]	[dm³/ Minute]	[m³/ Hour]	[mm]	[mm]	[mm]	[mm]
50	3	17	1	1,0	50	3	300	670	475	1000
70	3	23	1	1,0	70	4	300	770	475	1100
100	3	33	2	1,0	100	6	370	850	600	1250
200	3	67	4	1,0	200	12	450	1050	750	1450
400	3,5	114	7	1,2	343	21	450	1350	880	1600
600	3,5	171	10	1,2	514	31	450	1500	1000	1650
800	3,5	229	14	1,2	686	41	650	1600	1000	1900
1000	3,5	286	17	1,2	857	51	650	1720	1180	2100
1500	4	375	23	1,3	1125	68	730	1800	1350	2300
2000	4	500	30	1,3	1500	90	770	2100	1490	2500
3000	4	750	45	1,3	2250	135	800	2400	1710	2700



- The same mixer can be used continuously or batchwise. This way, even complicated premixes can be prepared in the same blender at different filling levels.
- Intermediate sizes are available. Detailed plant designs and dimension sheets on request. amixon® can also manufacture large plants up to 500 m³/h and more!
- Usually the vessel dimensions are relatively cubic. If desired, amixon® can modify the proportions: “low profile” if the height is limited or “slim profile” if the available ground area is limited.
- 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 regime. They 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.