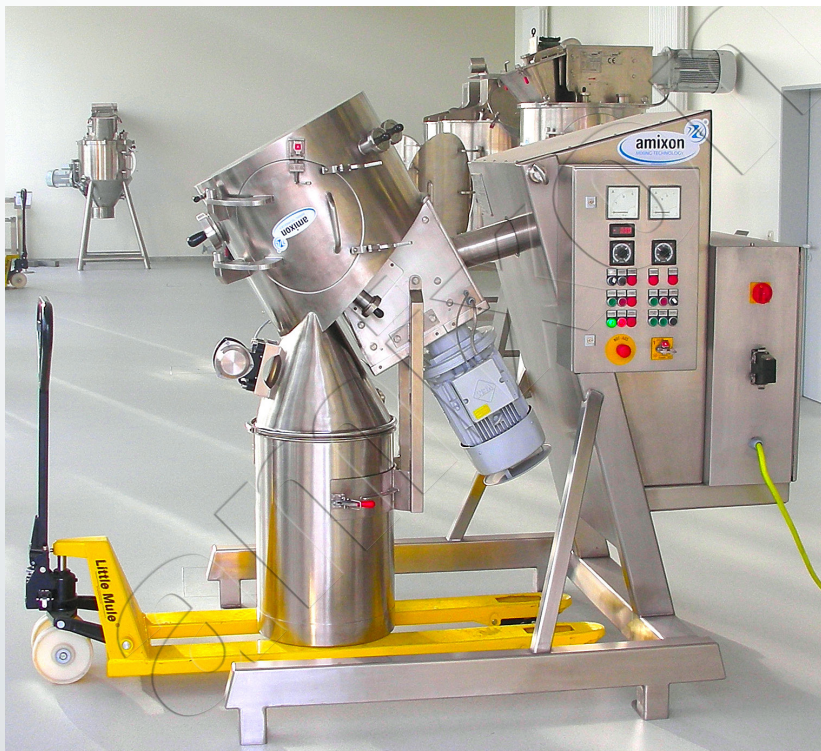


# Single Shaft Mixer with or without standard drum Type **EM** patented

For dry, moist and suspended goods; extremely gentle or by heavy duty deagglomeration

The mixing chamber rotates to facilitate filling and discharging operations, three-dimensional rearrangement in the tilted mixing chamber.

Atex: If goods are dust explosive, tip speed is below 1 m/s!



EM 100 docking mode

## Mixer's field of application

- Small production orders
- Preparation of master batches
- "Just-in-time" mixing jobs
- Product development

## Properties

- Technically ideal mixing quality; adjustable mixing intensity (from gentle homogenisation to intensive deagglomeration)
- Micro-fine admixture of liquid material; the mixer remains dry and clean
- Selection of filling level from 10% to 100% of working capacity
- Ideal discharging of residues; easy cleaning/sterilisation (GMP Standard)
- Integration into your ERP System, mixing programs supplied by PLC
- A bar code scanner can be integrated for online-documentation
- You need a limited infrastructure only: manual fork lift, scale and some standard drums



EM 100 mixing mode



EM 10



## Function

A patented spiral mixing tool rearranges the mixing goods. There is an upward movement in the periphery and a downward movement caused by gravity in the center of the mixing vessel. You can improve the cross flow by inclining the mixing vessel up to 25 degrees. This mixing machine achieves technically ideal mixing qualities. Mixing goods can be dry, wet, suspended or pasty.

According to the required processing/ mixing result (either gentle or aggressive and dispersive) you can select the mode of operation: gentle blending/ deagglomeration/ wetting at low energy input/ wetting at high energy input/ agglomeration/ drying/ improving of solubility.

Single Shaft Mixer		Approx. gross volume of the mixer	A	B	C	The rotational frequency can vary widely from about 0,8 m/s to about 4 m/s.		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.
Type EM			Height	Width	Depth	Usually single-shaft mixers operate at low speed.				
The type designation refers to the batch size in liters. Ideal mixing even at low filling levels. On demand mixers are jacketed for temperature control and vacuum drying.		Please ask for detailed dimension sheets!	Approximate dimensions, please consider pivoting radius of the rotating mixing chamber			about				
Liter = dm <sup>3</sup>	Feet <sup>3</sup>		Liter	mm	mm	mm	rotation per minute	from	to	kW
5	0,2	6,8	1320	790	820+50	74	289	0,9	2,6	200
10	0,4	13,6	1400	1420	830+60	59	228	1,2	3,4	260
20	0,7	27,1	1450	1440	850+60	47	181	1,6	4,5	340
30	1,1	40,6	1500	1450	860+70	41	157	1,9	5,4	400
50	1,8	67,4	1950	1450+90	1600	35	132	2,4	6,6	520
70	2,5	94,2	2310	1460+130	1700	31	118	2,7	7,6	620
100	3,5	134,4	2380	1500+300	1760	28	105	3,1	8,8	740
150	5,3	201,1	2600	1600+450	2100	24	91	3,7	10,3	900
200	7,1	267,8	3090	1700+550	2300	22	83	4,2	11,6	1050

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.

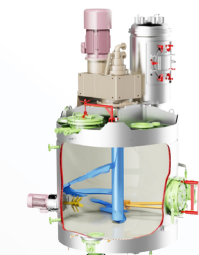
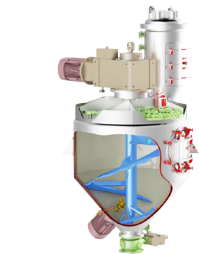
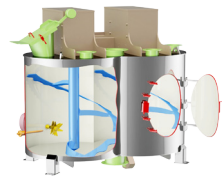
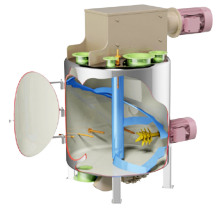
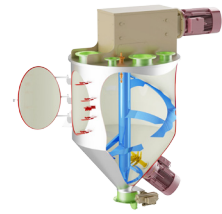
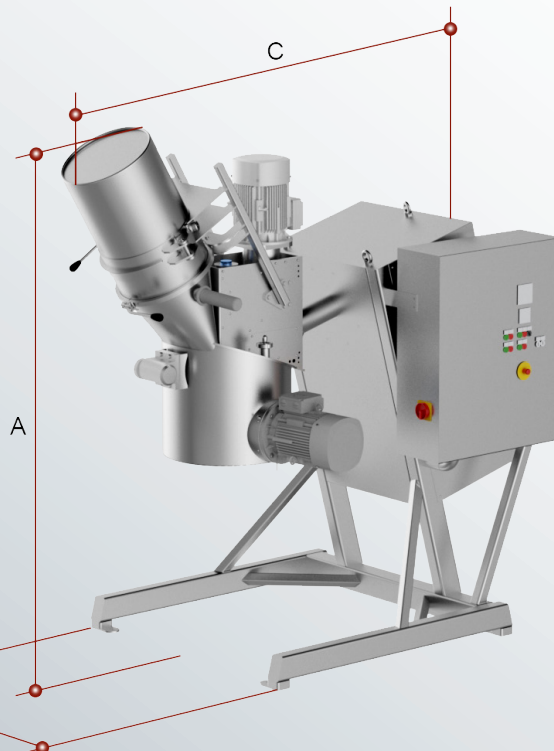
The mixers meet the highest hygienic requirements and comply with the EHEDG guidelines for dry and wet cleaning.  
The mixers also meet the FDA hygiene guidelines and the design requirements of 3-A Sanitary Standards.

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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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.