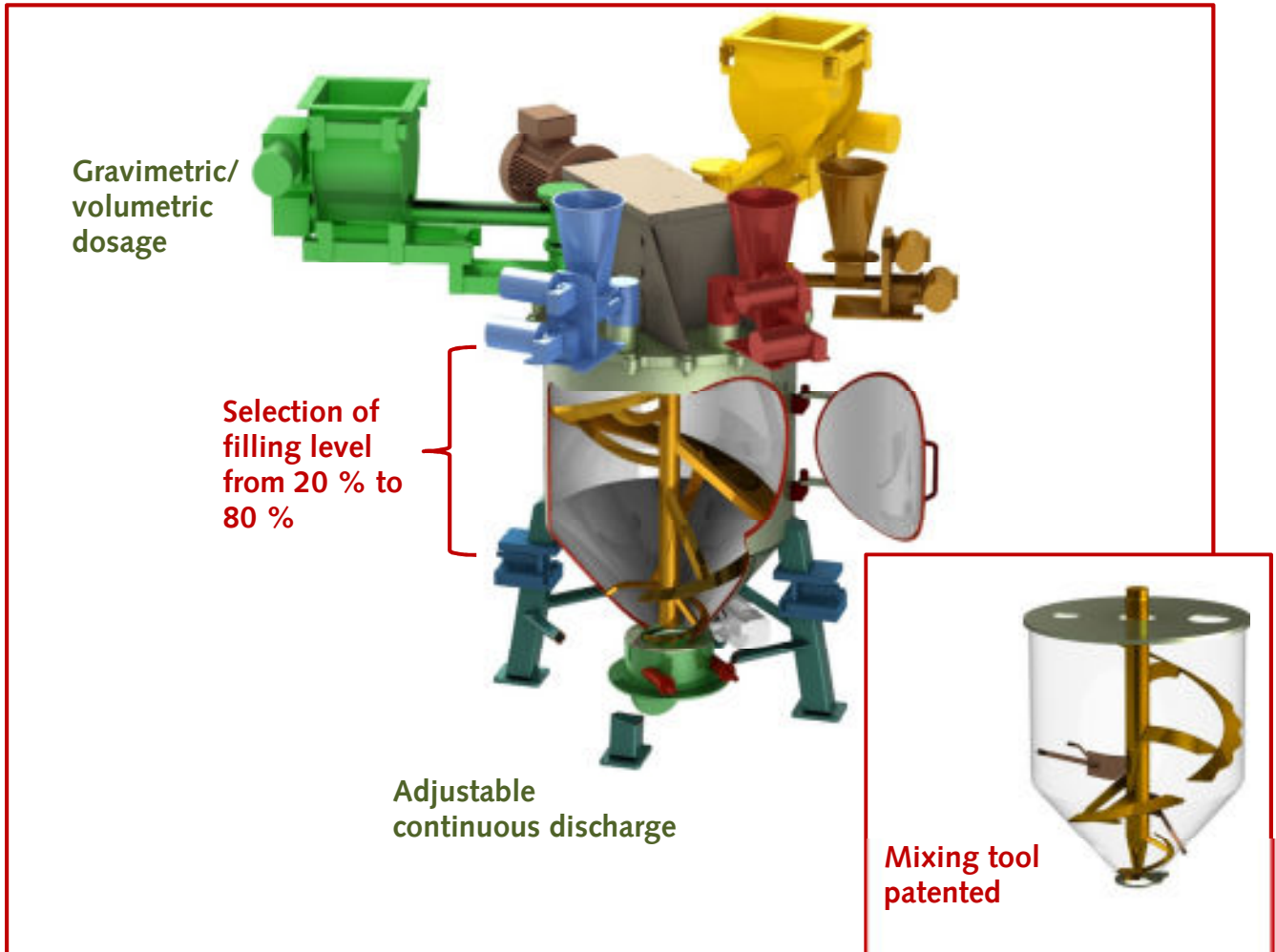


Continuous Mixer

(patented)

for dry, moist and suspended goods

extremely gentle or intensive deagglomeration treatment



Properties

- Technically ideal mixing quality
- Option between operation as batch mixer or continuous mixer
- Adjustable mixing intensity (from gentle homogenization to intensive deagglomeration)
- Definite retention period independently from mixing mode/rotation speed
- No product loss at start of production
- No product loss at end of production
- Micro-fine admixture of liquid material without contamination of the mixer
- Specific filling level selection from 10% to 80% of working capacity
- Ideal emptying of residues
- Extended process including: moistening, tempering, drying, reaction processing
- Highest hygienic standard (GMP Standard); safe cleaning; dry or wet; sterilisation
- Mixing apparatus mounted and driven only from above

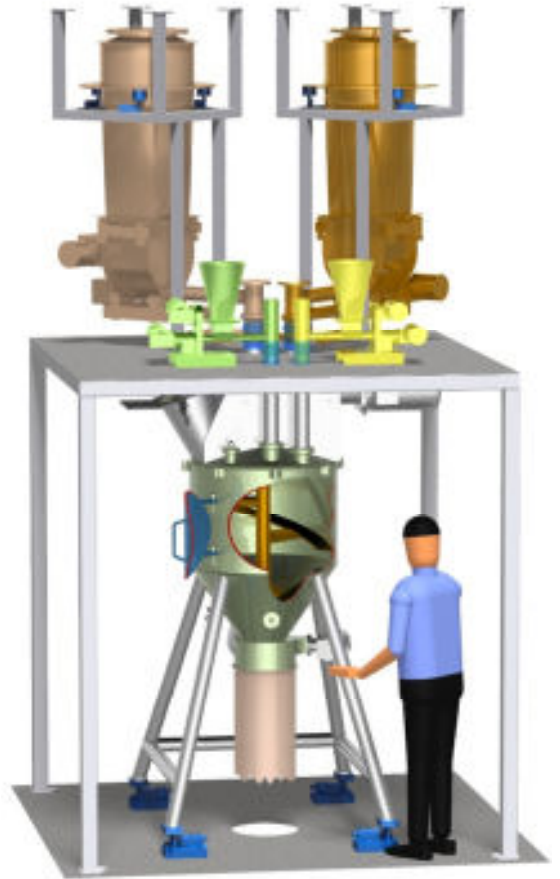
Operation at start of production:

The discharge valve of the mixer is closed. All the gravimetry 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.



Pilot continuous mixing plant station for eight ingredients

Sizes and flow rates		Complex mixing tasks, four and more individual ingredients (solids and liquids); extended retention period			Simple mixing tasks, up to three individual ingredients (solids and liquids); short retention period		
Type	Maximum cubic capacity	Retention at max. filling level	Volume flow	Volume flow	Retention at max. filling level	Volume flow	Volume flow
	[litres]	[Minutes]	[Litre per minute]	[m ³ per hour]	[Minutes]	[Litre per minute]	[m ³ per hour]
AM	50	3	17	1	1,0	50	3
AM	100	3	33	2	1,0	100	6
AM	200	3	67	4	1,0	200	12
AM	400	3,5	114	7	1,2	343	21
AM	600	3,5	171	10	1,2	514	31
AM	800	3,5	229	14	1,2	686	41
AM	1000	3,5	286	17	1,2	857	51
AM	1500	4	375	23	1,3	1125	68
AM	2000	4	500	30	1,3	1500	90
AM	3000	4	750	45	1,3	2250	135
AM	4000	4	1000	60	1,3	3000	180
AM	5000	5	1000	60	1,7	3000	180
AM	6000	5	1200	72	1,7	3600	216
AM	7000	5	1400	84	1,7	4200	252
AM	8000	6	1333	80	2,0	4000	240
AM	9000	6	1500	90	2,0	4500	270
AM	10000	6	1667	100	2,0	5000	300

Our pilot plant stations are at your disposal in Paderborn/ Germany, Memphis/ USA, and Osaka/ Japan