

MA / HEM / RM - devices in use

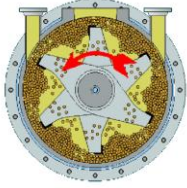
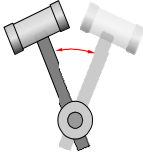
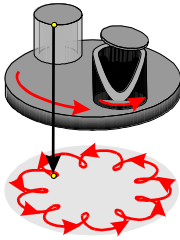
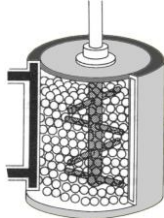
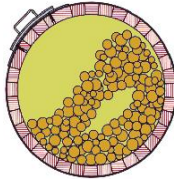
Modell nach: H. Zoz, 50 Aniversario de la Fundacion de la Esiqie

33rd Intern. Symp. of THE SCHOOL OF Chemical Engineering, May 27-29, 1998

dimensions economically and logically limited

typical parameters, approximate data, partly estimates, partly calculated:

[1], [6], [7], [8], [10], [11], [12]

device	Simoloyer®	Shaker Mill (Spex)	Planetary Ball Mill	Attritor®	Drum(ball)mill
max. diameter [m]	1.1	0.08	0.2	1	3
max. total volume [l]	900	0.2	8	1000	20000
max. rel. velocity [m/s]	14-18 [14]	4-5 (4.2) [13]	5	4.5-5.1	< 5
Specific Energy [kW/l]	1.1 (-3)	-	-	0.1 (-0.75)	0.01 – 0.03
graphic (cross section)					
Simoloyer® is a brand of Zoz GmbH, Germany; Attritor® is a brand of Union Process, USA;					

[13] A. Concas, N. Lai, M. Pisu, G. Cao, Chemical Engineering Science 61 (2006) 3746

[14] 14m/s was the upper limit in 1998, meanwhile further shifted to up to 18 m/s [Zoz Group©2017]