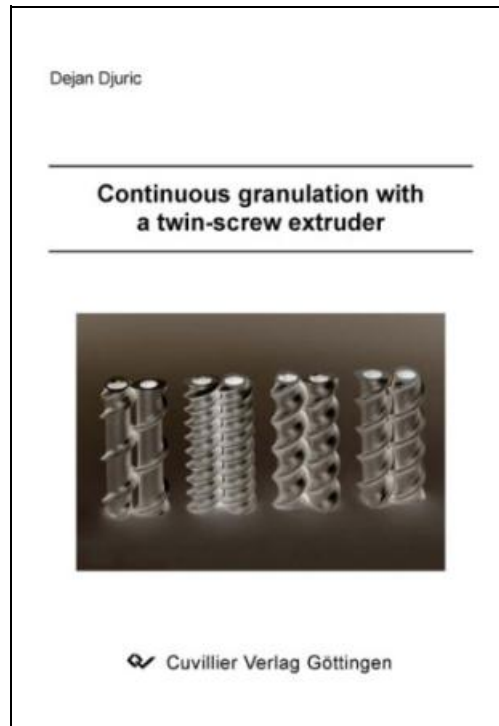


Continuous Granulation with a Twin-Screw Extruder



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(Derick Brekke)

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Cuvillier Verlag Jul 2008, 2008. Taschenbuch. Condition: Neu. Neuware - Continuous granulation with a twin-screw extruder Dr. Dejan Djuric The feasibility of a twin-screw extruder for a continuous wet granulation process was investigated. On the one hand the impact of different screw configurations and process parameters on granule and tablet properties was evaluated. On the other hand mixing properties of several screw configurations were tested with respect to a continuous process including mixing and granulation in one process step. Furthermore a comparison of differently sized twin-screw extruders was performed to evaluate differences and similarities between both machines. Screw configuration had a major impact on granulation behaviour. The tested screw configurations led to similar granule characteristics irrespective whether lactose or mannitol, as water-soluble substances, or dicalcium phosphate, as a water-insoluble substance, was agglomerated. Conveying elements generally produced easy-flowing granules with the highest amounts of fines, porosity values and thus highest granule friability. Combing mixer elements also produced easy-flowing granules with less amounts of fines and lower porosities. Kneading blocks achieved free-flowing granules with negligible amounts of fines and the lowest porosities. In general increasing granule porosity led to higher tensile strengths of tablets. Finally the element combination of kneading block and combing mixer element proved to be the screw configuration of choice for all substances. Agglomeration behaviour of the tested screw configurations was comparable for 2kg/h and 6kg/h powder feed rate, respectively, providing the possibility of a simple increase in material output regarding a possible scale-up. Process parameters also had an influence on granule characteristics. Amounts of fines and granule friability decreased with higher water content as well as with increasing screw speeds. More abrasive granules resulted with increasing powder feed rate. Distributive mixing was tested concerning water and API content of granule samples. All tested screw elements, except the 15mm...

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