

湿法制粒机的改进设计

(Improved Design of Wet Granulation Machine)

摘要

制粒工艺当中，最关键的步骤就是高效的制粒效率和适当平稳的转速，对这一过程影响最大的就是传动。目前，采用最为广泛的制粒方法仍是摇摆筛网制粒，但其型式依然是四、五十年代的老面孔。本文拟就摇摆式制粒机的机械传动装置进行改进。现有的摇摆制粒机采用齿轮齿条进行传动，其不足之处在于：传动机构设计不合理，能耗大，效率低；密封性较差，且整体布局不够合理，容易对物料造成污染；绞龙的转动角度单一，难以满足生产工艺的多样化要求。因此，对摇摆制粒机的机械传动装置进行改进设计具有重要的现实意义。

关键词 机械传动；摇摆制粒机；高效；虚拟装配

Abstract

The most important step in the granulation process is efficient pelletizing efficiency and proper steady speed. The most important influence on this process is transmission. At present, swing sieve granulator is the most extensive and most long granulation method, but the type is still four, fifty years old faces. In this paper, domestic oscillating granulator of the transmission part is improved. Existing swing granulator with gear transmission is less than the transmission mechanism: the unreasonable design, high energy consumption; poor sealing, and the overall layout is reasonable; easy to cause pollution to the materials. Therefore, the swing granulator machine transmission part is improved design has the important practical significance.

Keywords Mechanical Transmission; Swing Granulator; High Efficiency; Virtual Assembly

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