

PC- Φ 800 \times 600 锤式破碎机结构设计

摘要

锤式破碎机的用途很广，工厂中水泥的制造，电厂中都离不开锤式破碎机。在破碎机的发展历程中，锤式破碎机有着深厚的背景，距今已有 80 多年的历史，而且它发展很快，在未来的应用也非常值得期待。锤式破碎机的设计，需要先拟定一个完整的总体方案，确定方向后，再对各零部件进行设计，包括各零部件材料种类的选用、加工时的精度要求、重要部件的尺寸确定、各个零部件之间的配合要求，以及要满足结构工艺性等。在强度校核阶段，要对易发生危险的部位进行检验，包括运用相关公式进行计算，然后查表、分析，部分部分，例如轴，轴在工作过程中经常出现弯曲变形的情况，因此要防止此类情况的发生还应当建立应力简图，结合图形进行分析计算，保证安全性。接着，需要将重点放在整体安装上，在对部件进行安装时，应当注意它们之间的对应关系。最后还要对工作零件的公差以及加工精度进行分析，保证破碎机最终能够正常的运行，并兼具一定经济、可靠性。

关键词 锤式破碎机、强度

PC- Φ 800 \times 800 STRUCTURE DESIGN OF HAMMER CRUSHER

ABSTRACT

Hammer crusher has a wide range of uses. The manufacture of cement in factories and power plants are inseparable from hammer crusher. In the development process of crusher, hammer crusher has a deep background, has a history of more than 80 years, and it develops very fast, and its application in the future is also very worthy of expectation. For the design of hammer crusher, it is necessary to draw up a complete overall plan, determine the direction, and then design the parts, including the selection of material types of parts, the accuracy requirements during processing, the size determination of important parts, the matching requirements between parts, as well as the structural and technological requirements. In the stage of strength verification, the dangerous parts shall be inspected, including calculation by using relevant formulas, table checking and analysis. Some parts, such as shaft, often have bending deformation in the working process. Therefore, to prevent such situation, stress diagram shall be established, and analysis and calculation shall be conducted in combination with the diagram to ensure safety. Next, we need to focus on the overall installation. When installing components, we should pay attention to the corresponding relationship between them. Finally, the tolerance and machining accuracy of the working parts should be analyzed to ensure the normal operation of the crusher, which has certain economy and reliability.

Key Words Hammer type breakers intencity

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