
基于西门子 PLC 的凸轮控制功能实现

Cam Control Function Realization Based on
Siemens PLC

摘要

随着可编程控制技术的快速发展，电子凸轮已经成为一种很方便的应用，对大幅提高工业生产速度，持续稳定工作产生了很大的影响，在生产生活中得到广泛的使用。简单的机械凸轮对日益发展的中国工业已经起不了太大作用了，国内的电子凸轮研究比较缓慢，相对国外来说比较落后，所以对中国来说，电子凸轮的研究已经刻不容缓。通过运用博途软件，结合可编程控制器 PLC 知识，针对机械凸轮只能局限于简单控制的问题，设计出凸轮控制功能实现方案，实现比较复杂的运动控制。总结设计方法和注意事项，为后续凸轮研究工作做好准备。

关键词：PLC 控制； 电子凸轮； 运动控制

Abstract

With the rapid development of programmable control technology, electronic cam has become a very convenient application, which has a great impact on greatly improving the speed of industrial production, continuous and stable work, and has been widely used in production and life. Simple mechanical cam has not played a great role in the growing Chinese industry, domestic electronic cam research is relatively slow, relatively backward compared to foreign countries, so for China, the study of electronic cam can not be slow. Based on the knowledge PLC programmable controller and using the software, the control function of cam is designed for the problem that the mechanical cam can only be limited to simple control implementation scheme to achieve more complex motion control. Summarize the design methods and precautions to prepare for the follow-up cam research work.

Keywords: PLC control; electronic cam; motion control

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