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Research on the Application of Green Technology to Leather Shoes in their Life Cycle

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Abstract The concept and contents of green leather shoes are analyzed in this paper. It is introduced mainly how to practice green technology in the life cycle of leather shoes to achieve green manufacturing, including green design, green production, green packaging, green use and green recycling and disposal. Green technology theory of shoes is continuously developing. It needs enterprises, research institutes and government departments to work together for green design and manufacturing of leather shoes to achieve a breakthrough in the theory and practice and promote shoes manufacturing go on the green road as soon as possible.

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First page example

Research on the Application of Green Technology to Leather Shoes in Their Life Cycle

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Key words: green technology; leather shoes; life cycle

Abstract. The concept and contents of green leather shoes are analyzed in this paper. It is introduced mainly how to practice green technology in the life cycle of leather shoes to achieve green manufacturing, including green design, green production, green packaging, green use and green recycling and disposal. Green technology theory of shoes is continuously developing. It needs enterprises, research institutes and government departments to work together for green design and manufacturing of leather shoes to achieve a breakthrough in the theory and practice and promote shoes manufacturing go on the green road as soon as possible.

Introduction

The rapid development of industry last century created much wealth for mankind, but it also resulted in the destruction of human living space. World Commission on Environment and Development proposed sustainable development strategy for this issue, which raised a "green revolution" in the manufacturing sector. Green manufacturing is the most effective and fundamental way to achieve sustainable development [1]. It is a modern manufacturing mode which takes a global consideration of environmental impact and resource efficiency. Green design is the core of green technology. It considers the environmental properties of product throughout the life cycle in the product design stage, and takes it as the design goal. It not only meets the environmental requests, but also guarantees the function, life and quality of product. Shoe industry, as an important kind of light industry, is imperative to implement green manufacturing. Although with social development, scientific advances greatly improve productivity, reduce the time of shoes design and manufacturing cycle, ensure the performance and quality of shoes, improve labor conditions and save energy, shoe industry is still not industry of green manufacturing and has a number of shortcomings compared with it. However, the "green wave" of manufacturing sector will promote the leather shoe industry to go on road of green manufacturing [2].

The Connotation of "Green" Leather Shoes

Meaning. The "green" leather shoe talked in this paper is a category of green product. It uses green materials, green technology and packaging, it has reasonable structural design beneficial to human health, it meets the requirements of quality in the process of wear, it is recyclable after abandoned, it achieves maximum resource utilization throughout its life cycle, and it has minimum negative impact on the environment.

Expression of Green Attributes for Leather Shoes. The design of green leather shoes puts people first, friendly with the environment. Therefore, green attributes of leather shoes mainly manifest in its comfortableness, environment-protection and energy conservation. Green leather



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