

- [J].粉末冶金技术,2003,21(2):86-91.
- [65] Gay D. Slot heater your short-cut to warm compacting[J]. Powder Metallurgy, 1996, 39(1): 13-17.
- [66] 果世驹.粉末冶金温压技术的进展[J].粉末冶金工业, 2003, 13(2): 5-6.

Research and application into warm compaction technology

LI Yuan-yuan, XIAO Zhi-yu, Tungwai Leo Ngai, ZHANG Wen, CHEN Wei-ping

(College of Mechanical Engineering, South China University of Technology, Guangzhou 510640, China)

Abstract: This paper gives a briefing on the research progress in warm compaction technology. Densification mechanism, warm compact materials, numerical modeling, industrial applications, and the key techniques in warm compaction such as powders, lubricants, warm compaction temperature and warm compaction system are overviewed. The paper points out that the history of warm compaction research and development in China is only a few years old and most of the warm compaction techniques are protected by foreign patents, therefore, to develop our own patents of warm compaction technique is important for our powder metallurgy industry. In the near future, applications of high performance iron-base powder metallurgy parts in automobile and mechanical industries will be widen, the potential markets in the warm compacted powder metallurgy parts are very attractive.

Key words: powder metallurgy; warm compaction technology; application



GL 和 TGL 型螺旋选矿机、溜槽

广州有色金属研究院选矿所设备中心生产的 GL 和 TGL 型螺旋选矿机、溜槽是一种新型高效重选设备,广泛应用于各类矿山.其特点如下:

- * 分选断面形状为复合立方抛物线;
- * 每圈螺距是变化的,且螺距与直径之比值大;
- * 设备结构合理,处理能力大、选别指标高;
- * 采用玻璃钢材料,一次整体成型,重量轻;
- * 螺旋槽面复合有耐磨层,耐磨性能好,寿命长;
- * 螺旋面不需加水,分带清晰,操作方便.

地址:广州市天河区长兴街广州有色金属研究院选矿所

邮编:510651 网址: <http://www.gzrnm.com>

电话:020-37239066、61086392、37239220、37239221 传真:020-37238535