



# 北京金煤创业科技股份有限公司

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## DJM 陶瓷金属复合磨煤机导向板技术介绍

DJM Metal matrix ceramic composite coal mill Guide plate technology introduction

DJM 选用高铬铸铁（或马氏体钢）陶瓷复合材料，即在高铬铸铁（或马氏体钢）材料表面嵌铸陶瓷颗粒形成陶瓷金属复合材料层，这层复合层的耐磨性能可达高 Cr 材料的 3 - 4 倍，同时这一复合层的厚度可制成达到原备件厚度的 1/3，并可根据原磨损曲线有针对性的制作，即使某些颗粒出现裂纹，也只局限于颗粒本身而不扩展至基体，从而获得高耐磨且耐冲击的效果。金属陶瓷立磨衬板磨煤时平均磨损量（磨损深度）每 1000 小时为 2-4mm，而高铬衬板磨煤时平均磨损量（磨损深度）每 1000 小时为 5-9mm，金属陶瓷衬板是高铬产品的 3-4 倍以上。

DJM adopts the composite material of High Cr cast iron( or Martensite steel) and ceramic, namely, the ceramic particles are casted into the surface of alloy to form a composition of ceramic-metal. Its ability of wear resistance is 3-4 times of high Cr Material, the thickness is 1/3 of the original one and can be manufactured according to the original wear curve, even the crack happens to some particles, it will not extend to the base material, thereby obtaining the capacity of high abrasion and impact resistance. The life span of Ceramic composite liner is more than two times of Mid-alloy liner, and more than 3-4 times of high manganese steel liner.

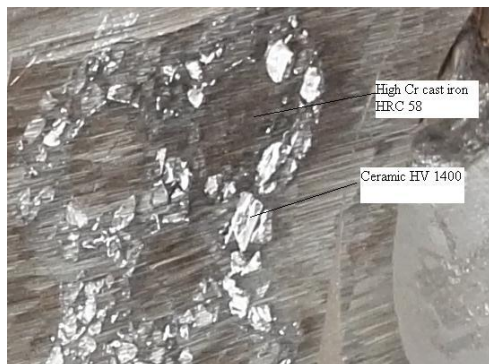
Product include:

High Cr cast iron + ZTA ceramic particles

Martensite steel + ZTA ceramic particles

附图-4-1 陶瓷复合导向板局部放大图

Picture 4-1 partial enlargement of Guide plate



附图-4-2 陶瓷复合导向板外观图

Picture 4-2 external view



附图-4-3 陶瓷复合导向板外观图

Picture 4-3 external view

