

Optimization and Modification Designing Feedback

Northern Heavy Industries purchased mill liner from other manufacturer and meet some problems, we CIC analysis and solve the problems successfully.

Client: Northern Heavy Industries Group, Ltd

Mill Specification: Φ6.4x3.3m SAG Mill

Problems Description:

1) Cracking of mill liner was found after running the mill in a few days.

2) The serive life of mill liner is less than three month.

3) By listening the grinding sound, we can hear the sound of lots of steel balls knocking the mill liners.

4) Production efficiency of mill is low.

Reasons analysis:

1) Wrong designing of shell liners: the cone angle of mill liner lifter bar is too small, which leading the grinding media wrongly to the shell liner working surface instead of the area of ore gathering and result in the damage of mill liner. All these will influence the service life of mill liner and production efficiency of mills.

2) Wrong designing of end liner and grate liner: The lifter bar is too narrow, this will also shorten the service life of mill liner.

Solutions:

1) Proper designing of the cone angle of mill liner lifter bar, the lifter bar will lead the grinding media falling down in a proper path.

2) Increase the size of mill liner lifter bar, prolong the service period of lifter bar maximumly.

3) Cylinder liners are designed as spacing configuration of high & low rectangular lifting bars, the designing can increase the space volume of grinding ball and large processing ore.

4) Strength the lifter bar of end liner and grate liner.



• Feedback from the client:

CIC did the optimization and modification of mill liners and solved the problems of mill liner cracking. The service life of mill liner is prolonged to more than six month. We get a good reputation from our customer.



质量信息反馈单

	应 重 同 尼 反 顷 早
编号: Q/JL7210	序号:
责任部门	北方重2 集团有限领
产品或零件名称	图号
简体动物	所庙矿业的4x3.3h半国康机开机这行教天后检查发现员有碎裂现象。对板使用寿命厉于三千月、监听半国度 春在大量钢球冲砸补板筋钢音、磨机步产效率77
	填表人:姜伟 日期: 15.2.1
于权廉代。 同时廉严 康执致率 27端衬板	的简体被振设计错误: 衬板提升来部位短雨夹角进水的质被错误手向迎球 (10) 简体被扳送前被振动 所废不能被导向下落冲砸至魔底物料窝穿区域,造 所下。 搜升来过于窄小影响了鹿机台鼓及衬板使用养 及拾了板设计有误. 阻料凸起过于窄小造成端被振寿命为 责任部门责任人: 离强华 日期: 15. 2.4
局的大 市 一 一 一 一 一 一 一 一 一 一 一 一 一 一 一 一 一 一	理确定衬板提升来键画夹角, 正确号面被提升产用的 动荡轨迹, 同时按比到一切大动板提升采和危望, 最大限度延长提升来在整个服役周期, 5完 国窗床衬板提升采平用高压相间的设计方里以加 印高提升来间存留处排及大块物料的空间层积. 飞端衬板与抗子板表面的图料凸起。 责任部门责任人: 3~2~2 日期: 15.1.6
化改造.	《同时东开庙矿业 \$6.4×33m半自鹿机-条列的优成功的解决3 \$664×33m半国鹿机筒休矿板断裂 并且延长3 筒体矿板防使用寿命达六个月64 白蒙长车开庙矿业公司防-致妇评。 验证部门般历史明: 16.2.7.

注:本表一式二联。责任部门、质检部各一份。