CIC Luoyang Heavy Machinery Co.,Ltd

**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.

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## 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

编号: Q/JL7210

序号:

北方重2集因有限饲 责任部门 产品或零件名称 무

质量问题描述:

内蒙古东升庙矿业的4×33m半国魔机开执这行数天后捡查发现 简体韵板有碎裂现象, 衬板使用寿命厉于三千月, 监听半月庭 这行魔音存在大量钢球冲砸新振筋钢膏. 魔机生产数率历 To

填表人: 姜伟 日期: 15.2.1

原因分析:

口半百度机简体对板设计错误、对板搜升来部位键面夹角过水 弄致廉内危被错误子向迎球侧筒体被扳造成被摄毁. 同时魔内介质不能被导向下落冲砸至魔病物料富孕区域,造成魔机致率所下。捏升条过于军小影响了魔机敌驳及衬板使用移 27端部板及格子板设计有误 阻料凸起进于唯小造成端部板寿命短。

责任部门责任人: 承 38 4 日期: 15. 2.4

纠正或预防措施:

好对120合理确定对板提升来键面夹角, 正确导面被提升磨户介 商的抛落轨迹 同时按时到加大补报投升条和危设 计尺寸、最大限度延长提升率在整个股级周期的完 整性自简本对极捏并牵军用高所相间的设计方室以加大相邻高程升牵同店的破球及大块物料的空间宪政。针对2、强化端初极与抗了板表面的则料凸起。

跟踪验证及反馈:

经过我公司对车升后矿业 \$6.4×33 m半自康机一条到的优 化改造、成功的解决3 Ø640 X3.3 h 半 面魔机简体对板断裂。 弱问题.并且延长了简本被振的使用寿命达六个月以 得到3内蒙古东升庙矿业勾局的一致如评。

验证部门:张万元日期:16.2.7.