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# ms 型埋刮板输送机的总体设计

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## 摘要

综采工作面一套设施当中的关键构成部分是埋刮板输送机,也是第一个物料运输环节。由此可以得出结论,物料工作面的生产能力和效率在很大程度上是埋藏式刮板输送机的运输能力决定的。

但是,我们国家的生产技术比较落伍,目前使用和制造的埋刮板输送机装机功率不高,电源低且运输距离不长等缺陷。全面分析我国埋刮板输送机的使用现状,高性能刮板输送机的设计和制造迫在眉睫。本文首先比较了不同类型的输送机的性能,并根据实际情况选择了ms型埋刮板输送机。然后,进行ms型埋刮板输送机的总体设计。对过渡槽,刮板链,刮板,链轮等关键部件进行了评估和结构设计,并完成了ms型埋刮板输送机的总体设计。此时设计的ms型埋刮板输送机左右对称,可以在两旁的任一侧安装减速器,以满足左右输送物料的需求。此外,机尾可以转换为机头,以适应各种特殊情况。这一次设计ms型埋刮板输送机的设计特点是结构简单,应力均匀,运行平稳,摩擦阻力小,溜槽斜槽使用率高,弯曲性能好等特点。

**关键词:** 埋刮板输送机; 中部槽; 圆环链

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## Abstract

The scraper conveyer is the synthesis picking work surface important constituent of the supplementary equipment. It is the first link of the coal shipping. Therefore, the scraper conveyer delivery capacity has decided the mining coal working surface productivity and the efficiency in a great degree; however, our country was lagged behind at present; the scraper conveyer installing equipment power is small. The delivery capacity is low; the transportation is away from short, the durability is bad; Reliability is low; and the life is short. The generalized analysis our country scraper conveyer use present situation, the design manufacture high performance scraper conveyer is imminent. This article first synthesized has compared each kind of type conveyer characteristic, has selected center simple chain according to the actual situation the scraper conveyer. But after, the scraper conveyer has carried on the overall structural design to center simple chain. To the nose transmission device, the aqueduct, the middle trough, the scraper chain, the scraper, the chain wheel, the airplane tail and other major component has carried on the technical analysis and the structural design, has completed center simple chain the scraper conveyer overall design. This design center simple chain about the scraper conveyer two sides are symmetrical, may install the reduction gear on two sidewalls, by left meets, the right mining coal working surface need. Moreover, it may very easily reequip the airplane tail the nose, but adapts each kind of peculiar circumstance. This design of center simple chain of the scraper conveyer characteristic includes: the structure is simple, the stress is even, moves steadily, the friction drag is small, the chute use factor high, the curving performance is good, It is not easy to appear stops up, has the very strong compatibility.

**Key Words:** Scraper Conveyer; Middle Trough; Round Link Chain

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