

half load run, try to make the main shaft hoist load is more than 90%, and improve the main shaft enhance the efficiency of the machine, the purpose of economic operation.

(2). Control decision-making system of the main shaft hoisting machine speed curve and torque curve analysis of the main shaft hoisting machine the optimal operating parameters (acceleration and deceleration, paragraphs running distance and speed, etc.), while shorter upgrade time, try reduce the impact of the machinery and equipment, while maximizing hoist the average power factor, to achieve the capacity to enhance energy saving double benefit.

(3). Main shaft system failure or abnormal control of the decision-making system other belt system according to various positions on the amount of coal will set plans for control, both to ensure that does not appear in the main shaft system failure during wasteful excess capacity, Also ensure fault recovery is running in the shortest possible time to restore the overall system of the coal flow.

D ground coal - washing system

(1).Changes according to the main shaft coal bin coal reserves ground production system to automatically start and stop.

(2). Control the decision-making system statistics between the belt capacity and operating efficiency, the development of optimized operation strategy between the belt, including the start and stop time between the start and stop of priority, invalid belt transport system to reduce the run time, increase the belt the efficiency of the transportation system, and achieve energy-saving effect.

(3). The belt drive motor with inverter control, based on the lifting capacity of the main shaft, the main coal bin coal level, the ability of the loading system, the speed of adjustment, as much as possible to achieve a continuous and economic operation.

III. Conclusion

Given the importance of coal mine safety in high-yield and efficient mine mechanized mining face, application production automation system, the system of centralized control, high-speed transmission. Accurate judgment on various issues on the safety management of coal production, equipment operation, production scheduling, and emergency handling ability. A safe, reliable, simple structure, convenient, scalability, maintenance technical characteristics, the various types of subsystems integrated into a unified transmission platform, and the application of new equipment to protect the coal mine safety, high-yield, efficient, automated production, a substantial increase in the coal mine production ability and safety management level.

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