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THE MANUFACTURING PROCESS OF THE "COUPLING BODY" PART

The manufacturing process of the "Coupling body" part is an important component of the production of transmission systems and mechanisms, which requires special attention to productivity and production efficiency. Ensuring the reliability and quality of this part affects the functionality of the vehicles and machines where it is used. Increasing the productivity of this process can significantly improve the competitiveness of the enterprise, reduce costs and ensure high quality of production.

In modern conditions, production is becoming increasingly competitive. Businesses that are able to increase productivity and reduce production costs have an advantage in the market. Optimization of the manufacturing process of the "Coupling body" part will increase production efficiency and increase the competitiveness of the enterprise [1].

Increasing the productivity of the production of the coupling bodies will allow more efficient use of equipment, work with smaller stocks of raw materials and lower labour costs. Increasing productivity should not compromise the quality of production. It is important to maintain a high standard of quality of "Coupling body" parts. Considering the relevance of the work, we take into account the need to simultaneously increase productivity and maintain high quality standards.

In the modern world, attention to the ecological aspects of production is growing. Productivity improvements can also help reduce emissions and resource use, contributing to more sustainable production [2].

The purpose of the research is to find optimal ways to increase the productivity and quality of production of clutch housings, to ensure efficient use of resources and to become more competitive in the market of manufacturers of transmission systems and mechanisms.

By analyzing and optimizing the technological process, implementing automated systems and managing production quality, we have improved the efficiency and effectiveness of the production of coupling bodies. The study identified key factors that affect manufacturing productivity, including sequence of operations, automation and quality control. We have identified which aspects can be optimized to improve performance. The work provides specific recommendations to the manufacturer of "Coupling body" parts in order to improve its production. This includes optimizing the sequence of operations, implementing automated management and quality control systems, and improving the production management system. Our research opens up a wide range of opportunities for further research in the field of manufacturing and process optimization. Some aspects, such as the use of more sustainable materials or the development of energy-efficient technologies, may be the subject of further research.

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