

Dynamic vibration absorber for shaft machining

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Abstract. The article is concerned with a new method that minimizes the vibration level of non-rigid axisymmetric parts on lathes. A schematic diagram of the vibration absorber control path is given. Its configuration is changing due to fictitious elastic stiffness parameters, as well as damping and the part-support subsystem weight. A functional dual circuit diagram of an automatic vibration level control system for non-rigid shafts machining is presented and its working principle is described

Cutting process is the main source of forced vibrations in the operation of metal-cutting machines. It is possible to minimize vibration during cutting in various ways. These are relatively simple process techniques and special vibration absorbers. Vibrations can also be reduced by increasing the rigidity of the TOS (machining process system), using tools with improved geometry, optimizing cutting modes, and using dynamic vibration absorbers. The disadvantage of a dynamic vibration absorber is that it operates only at a certain frequency that corresponds to its resonant mode. Linear dynamic vibration absorbers that restore the elastic suspension forces are effective only in the case of strictly fixed excitation frequencies of rigid parts of the shaft type, and therefore their use is limited [2, 3, 4]. Even minor changes in the frequency of vibration sharply reduce the effectiveness of its operation, since it is removed from the resonant mode. Linear dynamic vibration absorbers that restore the elastic suspension forces are effective only in the case of strictly fixed excitation frequencies of rigid parts of the shaft type, and therefore their use is limited [6]. It is advisable to use such vibration absorbers in systems that have a time-constant vibration spectrum. Vibration absorbers equipped with automatic control systems are the most efficient in terms of minimizing the level of vibrations [1, 5]. The use of nonlinear elastic elements in dynamic absorbers slightly expands the scope of their application. If the parameters of the absorber are selected properly it allows preventing the unacceptable resonant vibrations in the process of shafts machining in a wider range of excitation frequencies. However, when the excitation frequency changes over a wider range (for example, in transient modes), nonlinear dynamic vibration dampers also turn out to be ineffective, and in these cases, it is advisable to design controlled vibration absorbers with automatic frequency adjustment [5]. Changing fictitious parameters method is proposed of the part-support system using a feedback loop to ensure minimization during cutting. The schematic diagram of the system under consideration is shown in Fig. 1.

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Table of Contents Shaft Vibration Absorber

1. Understanding the eBook Shaft Vibration Absorber
 - The Rise of Digital Reading Shaft Vibration Absorber
 - Advantages of eBooks Over Traditional Books
2. Identifying Shaft Vibration Absorber
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Shaft Vibration Absorber
 - User-Friendly Interface
4. Exploring eBook Recommendations from Shaft Vibration Absorber
 - Personalized Recommendations
 - Shaft Vibration Absorber User Reviews and Ratings
 - Shaft Vibration Absorber and Bestseller Lists
5. Accessing Shaft Vibration Absorber Free and Paid eBooks
 - Shaft Vibration Absorber Public Domain eBooks
 - Shaft Vibration Absorber eBook Subscription Services

- Shaft Vibration Absorber Budget-Friendly Options
- 6. Navigating Shaft Vibration Absorber eBook Formats
 - ePub, PDF, MOBI, and More
 - Shaft Vibration Absorber Compatibility with Devices
 - Shaft Vibration Absorber Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Shaft Vibration Absorber
 - Highlighting and Note-Taking Shaft Vibration Absorber
 - Interactive Elements Shaft Vibration Absorber
- 8. Staying Engaged with Shaft Vibration Absorber
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Shaft Vibration Absorber
- 9. Balancing eBooks and Physical Books Shaft Vibration Absorber
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Shaft Vibration Absorber
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Shaft Vibration Absorber
 - Setting Reading Goals Shaft Vibration Absorber
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Shaft Vibration Absorber
 - Fact-Checking eBook Content of Shaft Vibration Absorber
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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