



Gear shifts twice as good

With ClassicLINE DCT-Type, HOERBIGER has unveiled the world's first synchronizer that features a custom design specifically for dual clutch applications – and effectively helps make this type of transmission more attractive yet again.

Following its production debut in 2003, dual clutch technology (dual clutch transmission, DCT) rapidly established itself in the growing market of automatic transmissions (AT). Along with torque-converter transmissions and continuously variable transmissions (CVTs), today this technology forms a third pillar for which demand proportionally continues to grow.

Among ATs, DCTs are most closely related to manual systems in terms of design; in principle, they are based on two semi-automatic transmissions. It was for this reason – and until now, also for a lack of alternatives – that they also used substantially the same synchronizers. HOERBIGER has now, for the first time, made it possible to change the status quo in favor of the specialized ClassicLINE DCT-Type solution. This product offers advantages in all the criteria that are particularly relevant for DCTs: installation space requirement, shifting speed, NVH (noise, vibration, harshness) behavior and, last but not least, the manner in which drag torque of the clutch impacts shifting quality.

Flattening instead of pointing

The underlying design idea of ClassicLINE DCT-Type is to flatten the teeth of the engagement disks and provide the sleeve on the right and left with only a one-sided chamfer – instead of using pointings, as in the past (which remains the optimal design for manual transmissions, or MTs). The fundamental task of the teeth does not change: they primarily ensure the locked position of the blocker ring. The ring allows a new gear to only be engaged once the synchronizer has matched the rotational speeds of the gearbox shaft and idler gear. For construction-related reasons, however, every other tooth has been eliminated on the DCT-Type blocker rings.



Picture 1: Composition of the ClassicLINE DCT-Type synchronizer

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PT Brinkman

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the PT Brinkman text.

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interact with each other in order to complete the gear changing process namely the synchronization process Then quality factors are indenti ed and their e ect on the performance and thus synchronizer e ciency In this project a model of the manual transmission synchronizer is developed It is divided into eight di erent phases corresponding to di erent events in the process Only the rst three phases have been implemented in Matlab and simulated with di erent values of some design parameters in order to analyze the reponse The results show a good qualitative agreement with the literature

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Table of Contents Horbeiger Synchronizer Manual

1. Understanding the eBook Horbeiger Synchronizer Manual
 - The Rise of Digital Reading Horbeiger Synchronizer Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying Horbeiger Synchronizer Manual
 - 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 Horbeiger Synchronizer Manual
 - User-Friendly Interface

4. Exploring eBook Recommendations from Horbeiger Synchronizer Manual
 - Personalized Recommendations
 - Horbeiger Synchronizer Manual User Reviews and Ratings
 - Horbeiger Synchronizer Manual and Bestseller Lists
5. Accessing Horbeiger Synchronizer Manual Free and Paid eBooks
 - Horbeiger Synchronizer Manual Public Domain eBooks
 - Horbeiger Synchronizer Manual eBook Subscription Services
 - Horbeiger Synchronizer Manual Budget-Friendly Options
6. Navigating Horbeiger Synchronizer Manual eBook Formats
 - ePub, PDF, MOBI, and More
 - Horbeiger Synchronizer Manual Compatibility with Devices
 - Horbeiger Synchronizer Manual Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Horbeiger Synchronizer Manual
 - Highlighting and Note-Taking Horbeiger Synchronizer Manual
 - Interactive Elements Horbeiger Synchronizer Manual
8. Staying Engaged with Horbeiger Synchronizer Manual
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Horbeiger Synchronizer Manual
9. Balancing eBooks and Physical Books Horbeiger Synchronizer Manual
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Horbeiger Synchronizer Manual
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Horbeiger Synchronizer Manual
 - Setting Reading Goals Horbeiger Synchronizer Manual
 - Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of Horbeiger Synchronizer Manual
 - Fact-Checking eBook Content of Horbeiger Synchronizer Manual
 - 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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