



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

Horbeiger Synchronizer Manual

Tina Grant



Horbeiger Synchronizer Manual:

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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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