



## **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

**S Nieto**



## **Horbeiger Synchronizer Manual:**

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