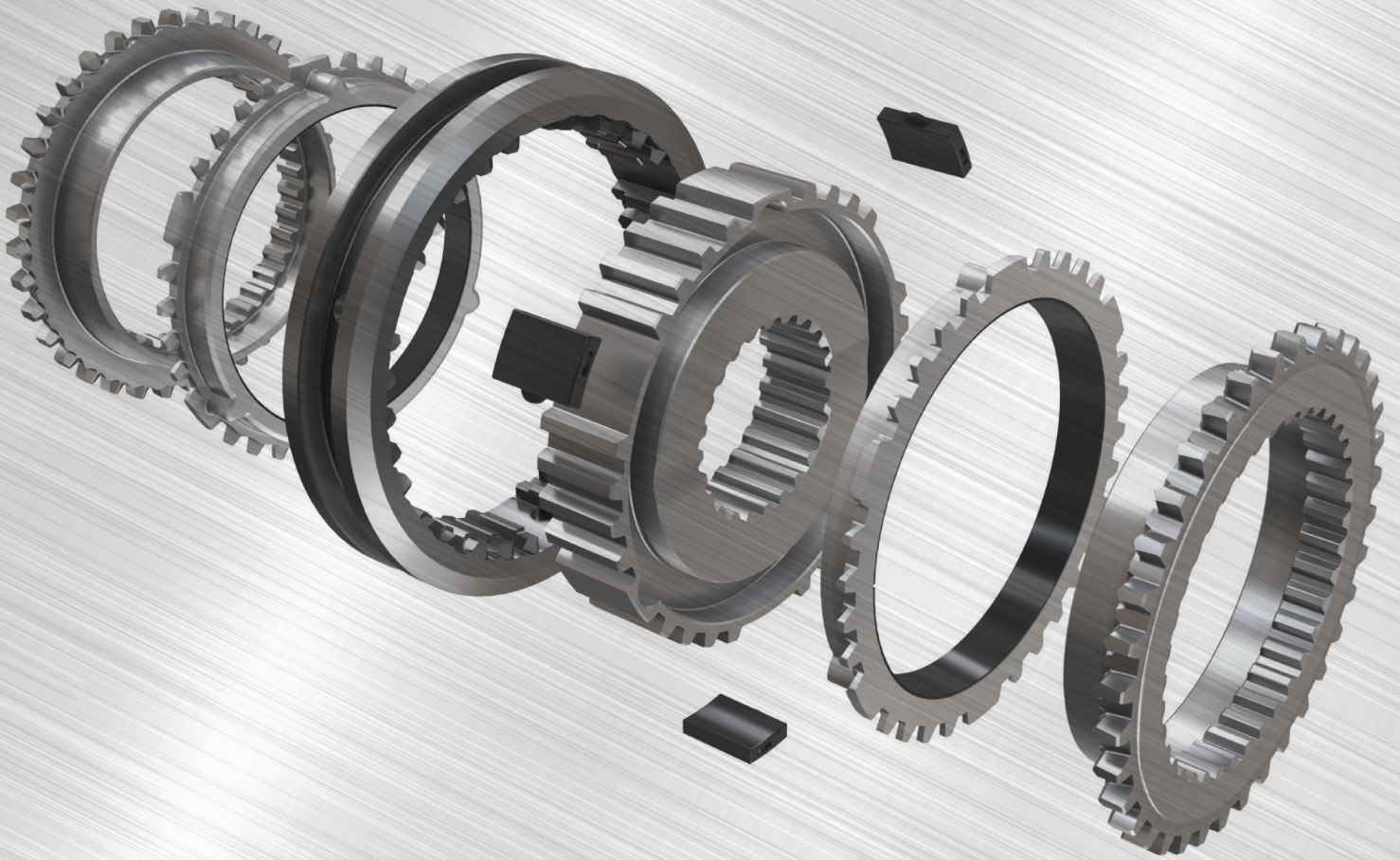




GRAZIANO[®]

Shifting Solutions

Synchronizer Units **CSS**



New synchronizer concept

as a step ahead in innovation for shifting solutions.

Compact Slotless

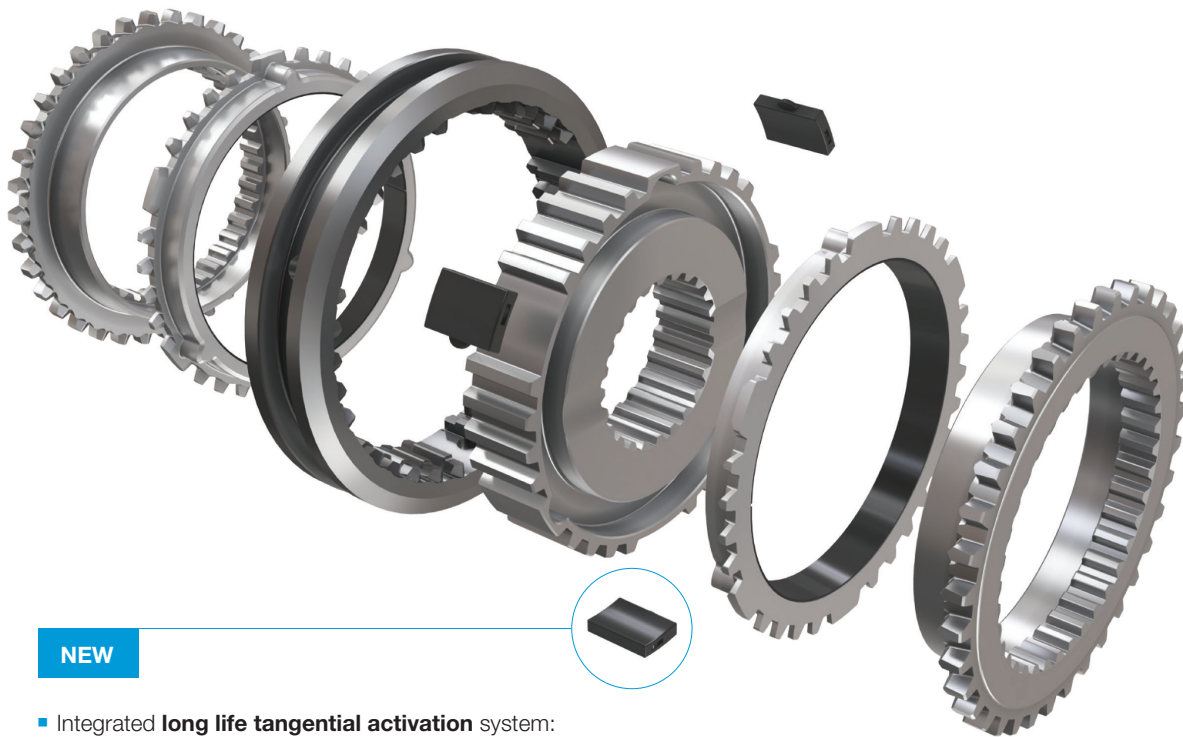
Synchronizer (CSS) can be applied

wherever a synchronizer technology is required:

passenger cars, trucks, industrial, agricultural, and construction equipment.

Benefits

- Roller working ramp obtained on the tooth flank of the sliding sleeve
- **25%** wider friction surfaces in same envelope, for **heavy duty** applications
- Simpler and stronger hub geometry (no slots and holes) with benefits on **synchro functionality** (reduction of heat treatment deformations)
- Same synchro package can be assembled on **larger shafts**
- Synchro ring geometry optimized to reduce stress and knocking effect
- **Interchangeable with standard solution**



NEW

- Integrated **long life tangential activation** system: **roller, spring, and plastic case in one sub-assembly**
- **Reduced activators radial envelope up to 75%**



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