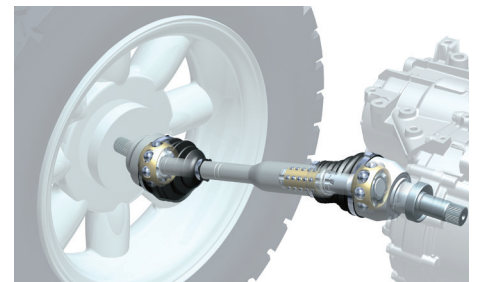


Sideshaft Application countertrack™ SX8 - Ballspline - countertrack™ SX8

For vehicle applications with highest installation angle requirements (up to 10° and more), sideshafts with reduced heat generation and small packaging are essential drivetrain building blocks.

In the SX - ballspline sideshaft solution, on both ends (wheel side and also differential side), the countertrack™ SX joint is used. This fixed joint concept provides best performance in smallest packaging and contributes also to vehicle CO₂ and fuel consumption reduction by its significantly increased efficiency (50-60% reduction of losses, compared to conventional Rzeppa type joints).

The combination of the countertrack™ technology (with a maximum angle of up to 52°) together with the ballspline device as plunging unit (with a plunge capability of 70mm and more) represents a premium solution for extreme plunging requirements and high installation angles, as for instance needed for SUV vehicles.



Design Features

- > **Fixed joint countertrack™ (SX8)**
 - countertrack™ principle: combination of “opposed track” concept with specific longitudinal track form to fulfill maximum angle requirements of 52°
 - 8 balls for robust steering of the opposed concept
 - Stepped spline for improved fatigue strength

- > **Plunge unit**
 - Extreme plunge capability independent from articulation angle
 - Superior NVH performance independent from articulation angle

Benefits

- > Maximum articulation angle of 35° on wheel side
- > Maximum articulation angle of 35° (and more) on differential side
- > Maximum running angle of 10° and more
- > Reduction of losses by 50-60%, compared to conventional Rzeppa type joints
- > Plunge capacity of up to 70mm

