Sidetask Application
countertrack™ SX8 - Ballspline - countertrack™ SX8

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

In the SX - ballspline sidetask 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

For further information:
www.gknautomotive.com