

Agricultural machines are often employed in harsh working environments – dust and dampness can shorten a driveline's life span. Sealing elements of the cross kits are very important: they retain lubricants, protect the needles and lubricants from contamination by foreign substances, and allow excess grease to purge without damage.

The needle bearings in SFT cross kits are equipped with double-lip seals designed to prevent contamination of the lubricant in the severe working conditions typical of farming applications.

Trials carried out on specially designed test fixtures provided data for optimizing the shape, materials, and the required heat treatment for all components – needles, caps, seals, and crosses.

Proper design and manufacturing allow SFT universal joints to be lubricated at extended intervals of 50 working hours, for most applications.

Lubrication can be done on a weekly basis instead of every day, reducing one of the most burdensome maintenance requirements. Under certain working conditions, drivelines may be lubricated only once for an entire season.

