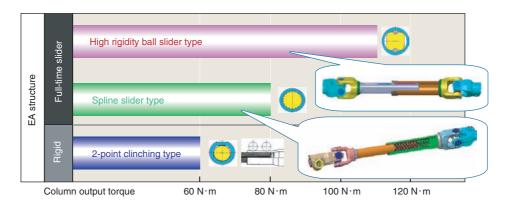
New Spline Slider Type Intermediate Shaft



In response to a need for improvement in quietness and driving stability, we have developed a new spline slider type intermediate shaft as a full-time slider intermediate shaft for small and medium size vehicles. Its features are introduced as follows.

Lineup

There are 3 kinds of intermediate shafts in the lineup at our company.



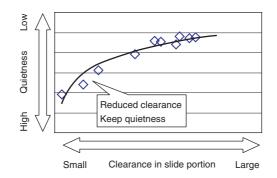
Features

The slider type intermediate shaft with spline structure that we developed this time has the following features compared to conventional type.

1) Improved quietness

: We fit the tooth surfaces of the shaft and sleeve to the same shape by a new processing method, "tooth profile forming." (World first)

This has reduced the clearance between parts and keep quietness even on rough roads. (Conventional products depend on part accuracy.)



- 2) Improved driving stability
- : We improved torsional rigidity by reducing clearance between parts. (Fig. 1) 3) Improved sliding performance: Due to low friction grease and grease grooves, we reduced sensitivity to the sliding load increase associated with torque loading. (Fig. 2)
- 4) Improved wear resistance
- : We reduced contact pressure by fitting the tooth surfaces of the shaft and sleeve to the same shape by means of "tooth profile forming."

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Structure

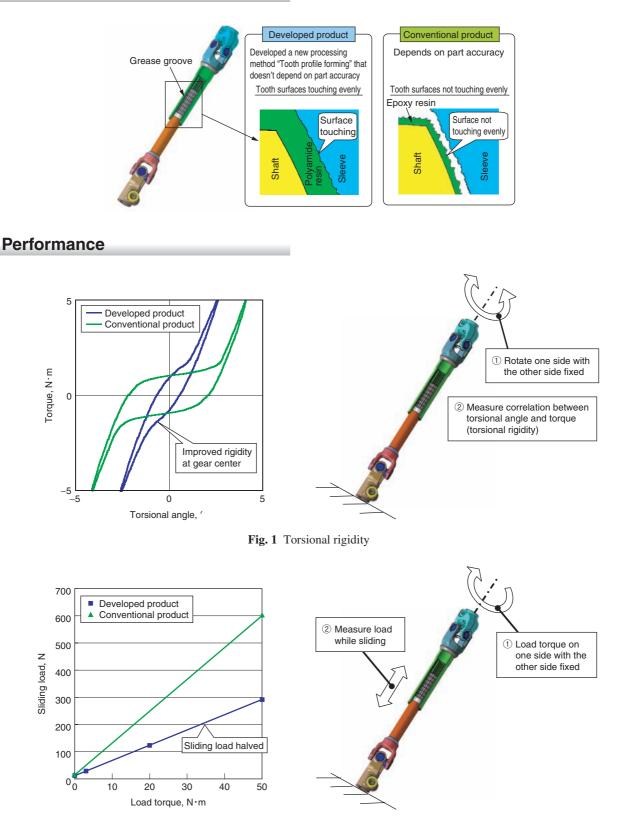


Fig. 2 Load torque - Sliding load

(Component Development Dept., Steering System Operations Headquarters)

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