

New Compact/Lightweight CVJ Series

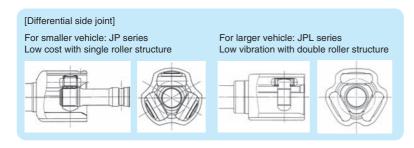


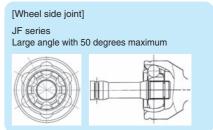
JTEKT has developed a new CV joint series reducing 4% in outer diameter and 8% in weight, by utilizing the latest and unique analysis method such as a high accuracy infrared stress measurement, and so on. The features of the newly developed CV joint series are introduced below.

Outline

(1) Joint Type Variation

JTEKT introduced three types of CV joint to achieve the vehicle noise and vibration requirements.

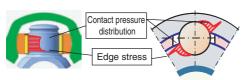




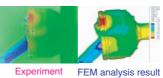
(2) Design method with the latest and unique stress analysis/measurement method



②Wheel side joint Ball contact stress distribution analysis

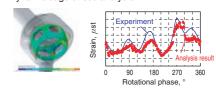


Balanced design between strength and durability by numerical analysis of edge stress and contact pressure distribution. ③High accuracy stress measurement Infrared stress measurement



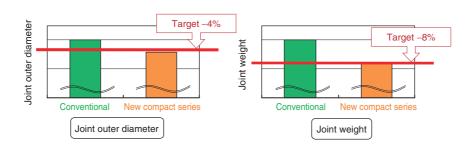
Accurate surface stress measurement is utilized for the smaller package design.

4)Wheel side joint Dynamic cage stress analysis



Flexible Multibody Dynamics enabled to analyze cage stress fluctuation, and utilized to the smaller package design.

Benefits



JTEKT CORPORATION