

New Series of Small Diameter and Lightweight CVJ

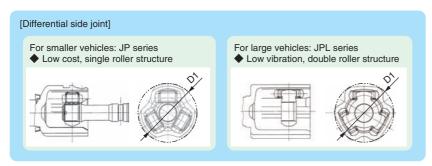


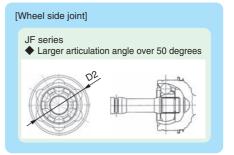
JTEKT has developed a new CVJ series which has reduced diameter by 4% and weight by 8% compared to the conventional CVJ series. This has been achieved by utilizing high-accuracy stress measurement technology (infrared stress measurement technology) and technology which improves FEM analysis accuracy to optimize the safety factor. The features of the newly developed CVJ series are introduced below.

Overview

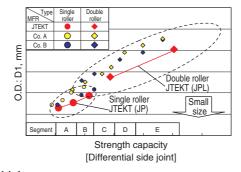
(1) Lineup

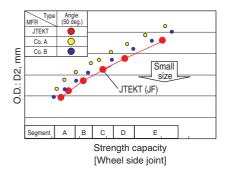
JTEKT manufactures the following three types of CVJ, which satisfy vehicle noise and vibration requirements.





(2) Static torsional strength and outer race outside diameter
Achieves a smaller CVJ outside diameter with the same static torsional strength capacity.





(3) Proposed vehicle types

The following shows the optimum CVJ series for each vehicle segment.

_				Compatible vehicle							
Nominal size	Joint type			FF on-6 AWD veh	FF/AWD vehicles: Front						
	Differential gear side		Wheel side	Applicable vehicle segment		Applicable vehicle segment					
	JP	JPL	JF	A∼C	$D \cdot E$	А	В		С	D	Ε
73	0	_	0	0							
75	0	_	0			0					
78		_	0		0		0				
85	0	_	0					0			
90	_	0	0						0		
105	_	0	0								0

(Driveline System Engineering Dept. 1, Driveline Systems Operations Headquarters)

JTEKT CORPORATION