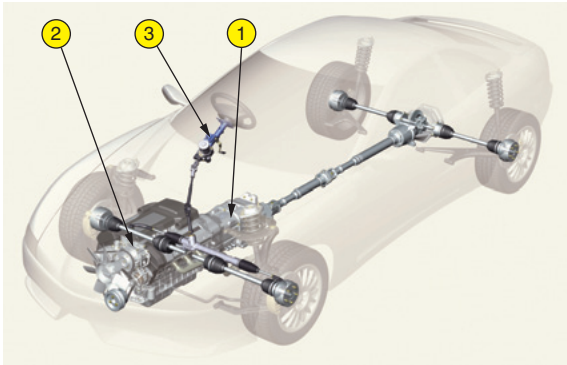


Introduction of Main Products of UTSUNOMIYA KIKI CO., LTD.



As needle roller bearings can carry higher load with smaller cross-sectional area compared to other type of bearings, reduction in size and weight for machine equipment is made possible, thus contributing to energy and space reduction.

Recently, thrust type bearings are likely to become larger with flattening tendency of torque converters. While, the demand for radial type bearings for planetary gear inner is increasing as A/T transmissions tend to become more multi-speed.

No.	Application	Product name	Features
①	Transmission for automobile	Ring integral thrust needle roller bearing for A/T  TV type TP type	〈TV type〉 ・ One piece cage (JTEKT standard design) ・ Lower cost compared to TP type 〈TP type〉 ・ Two piece cage ・ Smaller size of rollers can be used
		Needle roller bearing with cage for M/T gear inner  R type VP type	〈R type〉 ・ High stiffness ・ High load carrying capacity 〈VP type〉 ・ Light weight ・ Low cost
		Needle roller bearing with welded type cage  For M/T gear inner For A/T planetary gear inner	〈For M/T gear inner〉 ・ High stiffness ・ High load carrying capacity ・ Low cost 〈For A/T planetary gear inner〉 ・ High precision ・ High load carrying capacity
		Needle roller bearing with resin type cage 	〈For M/T gear inner〉 ・ Low cost ・ Light weight ・ Flexible assembly

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No.	Application	Product name	Features
②	Compressor for automotive air conditioner	Thrust needle roller bearing with a ring 	〈For variable capacity type compressor〉 ・ High precision bearing equal to non-lubrication and high load 〈For fixed capacity type compressor〉 ・ Teflon coating is applied to cage to reduce rotational torque
③	Steering column for automobile	Needle roller bearing with cage outer ring and rubber case integrated 	・ Bearing contributing to improved steering feeling ・ Mainly resin cage applied for lower cost
Others	Connecting rod for motorcycle	Needle roller bearing with cage for connecting rod 	〈For large end〉 ・ High precision bearing equal to non-lubrication, high rotational speed and high load with cages on the surface where copper and silver are plated 〈For small end〉 ・ High stiffness bearing equal to shock load of piston
	Speed up gear for construction machinery	Needle roller bearing with cage of high load carrying capacity 	・ High load carrying capacity, high stiffness and high precision bearing equal to heavy load
	Speed up gear for wind turbine generator	Needle roller bearing with cage of high load carrying capacity 	・ High load carrying capacity, high stiffness and high precision bearing with number of rollers increased to the maximum

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