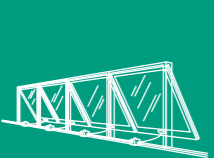

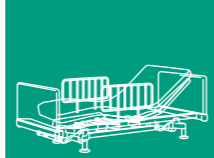
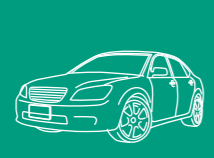

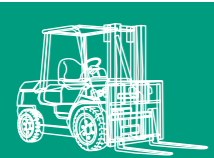
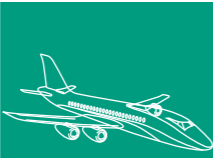
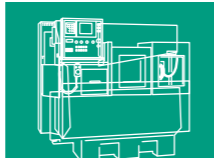


Future Development

 Building materials	 Agricultural machines	 Nursing care and welfare
 Vehicles	The free sliding shaft is expected to utilize in the power transmission parts, the sliding parts, the coupling parts for various industrial machines.	 Construction machines
 Industrial machines	 Airplanes	 Working machines



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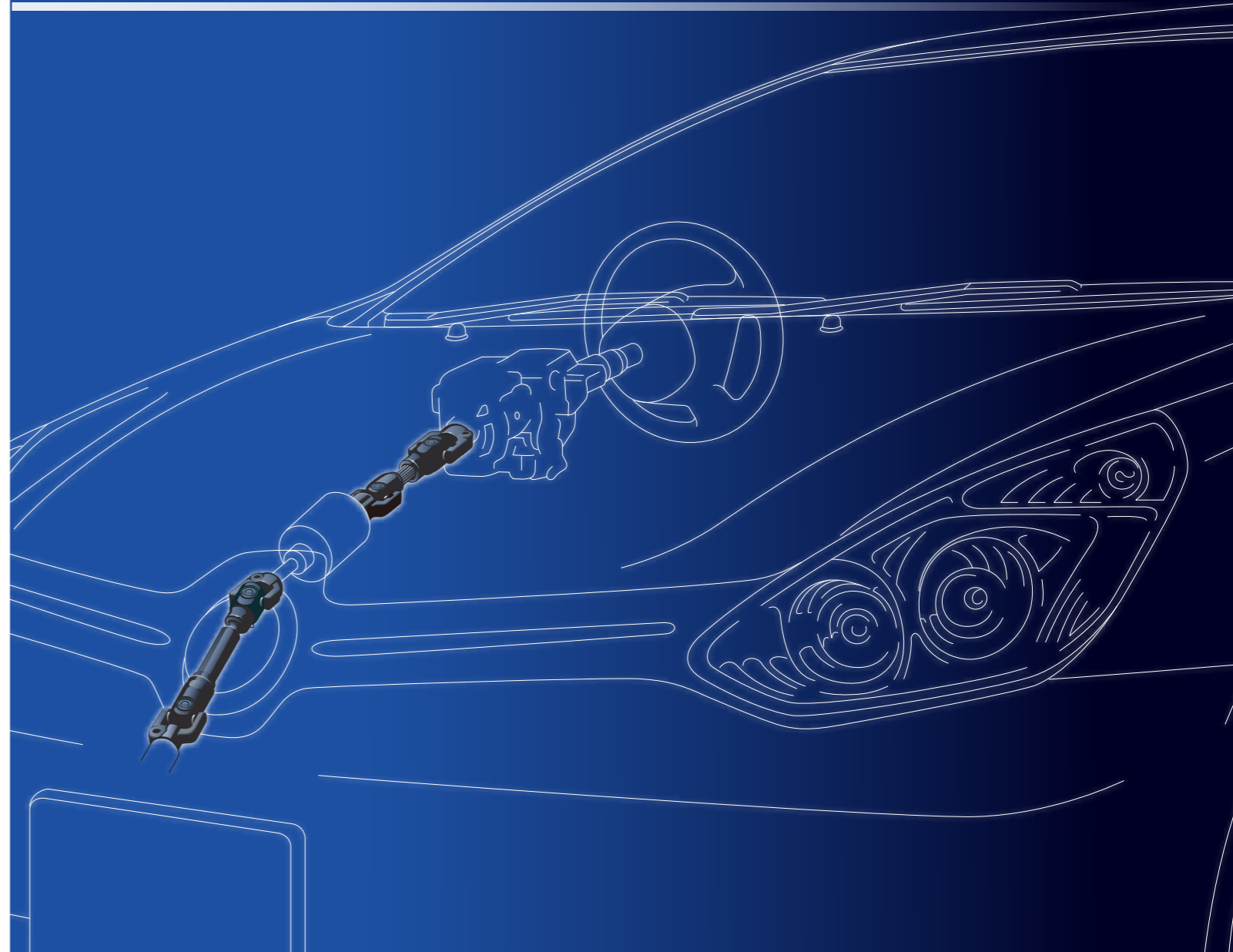
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# The free sliding shaft

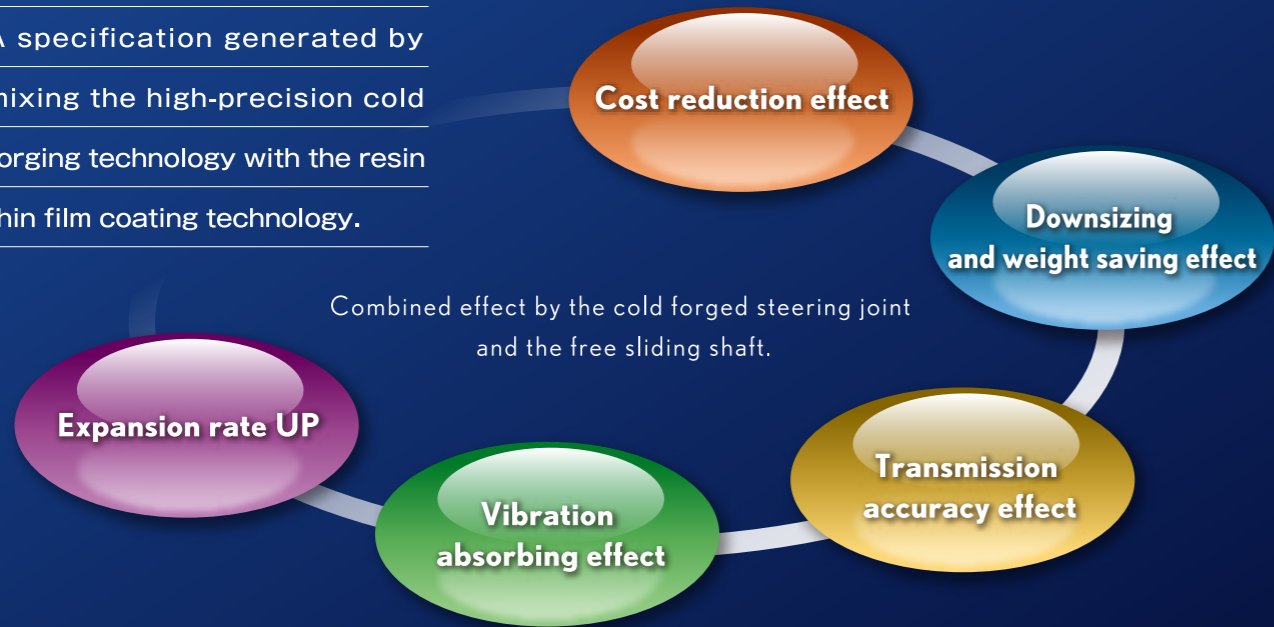


# In technology innovation, evolution to the next generation of free sliding shafts.

KYOWA, which had developed the cold forged steering joint for the first time in Japan in 1977, has achieved the next generation of free sliding shafts by mixing the resin thin film coating technology that utilizes a new idea to our unique cold forging technology.

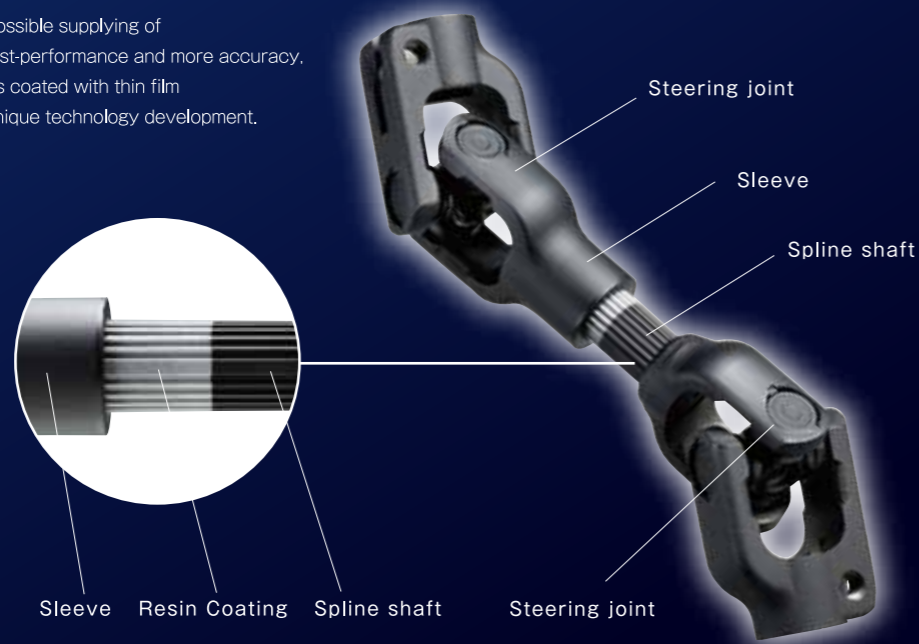
We realize a specification which is required for steering joints such as "lightweight and compact", "high-performance and high-durability", "cost reduction".

A specification generated by mixing the high-precision cold forging technology with the resin thin film coating technology.



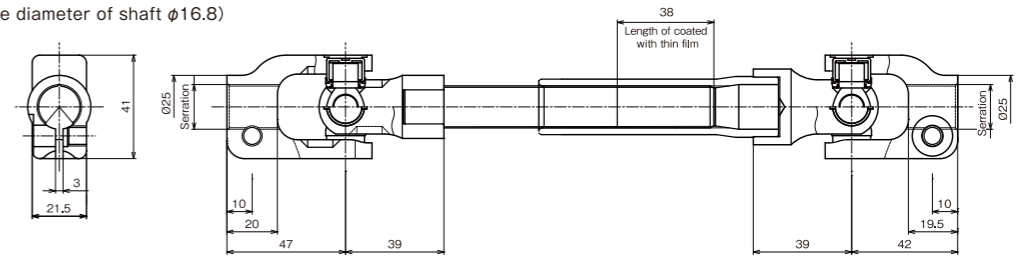
Equipped with the next-generation vehicles of major domestic manufacturers

The free sliding shaft makes it possible supplying of steering parts which is better cost-performance and more accuracy, because the spline of the shaft is coated with thin film under 200  $\mu\text{m}$  realized by our unique technology development.

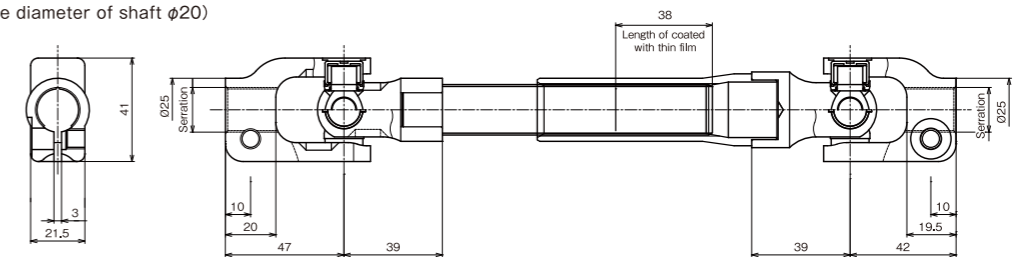


## Standard part and steering joint assembly

■ Specification - HCS16  
(Outside diameter of shaft  $\phi 16.8$ )



■ Specification - HCS20  
(Outside diameter of shaft  $\phi 20$ )



## Performance

