

t80x SERIES

HIGH SPEED CV-JOINT SHAFTS



DESCRIPTION

The t80x high speed shafts belong to a special family of shafts, which are tailored to customer requirements. They comprise exceptionally light homokinetic joints, which can be optimized for their specific application. The design of a an HK joint is determined not only by the spatial, speed, inertia and stiffness requirements but also by the type of application.

OPERATING RANGE

Torque: application-specific

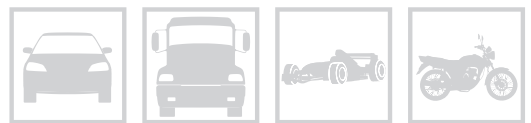
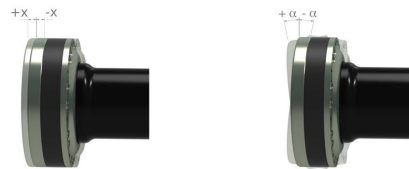
Speed: application-specific

BENEFITS

- low weight
- integrated load-insensitive longitudinal compensation
- precise concentricity
- large angular compensation
- very low reaction forces

FUNCTION

The high-speed shaft achieves the longitudinal, angular and axial displacement without generating higher order speed or torque moments.



Exclusive Representative in Japan



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t800 – CV Rod Shaft

The t800 is a CV joint bar shaft in a particularly compact and space-saving form. This design enables angular and axial compensation in confined spaces. The bar shaft is designed for optimum performance and manufactured with high strength materials.



t801 – CV Tubular Shaft

Due to its universal deployment capability, the t801 CV tubular shaft covers a wide range of standard applications. Compared with the t800, its welded tube allows longer installation lengths.



t802 – CV Precision Tubular Shaft

The high quality, high precision t802 CV tubular shaft exhibits exceptionally precise concentricity with unsurpassed balance, due to its glued steel tube design. It is particularly suited for long installation lengths running at high speed.



t803 – CV Carbon Fiber Composite Tubular Shaft

The t803 CV shaft has a carbon-fiber composite tube and is ideal for special applications in motor sport and other special mechanical engineering applications. The use of carbon-fiber provides high stiffness, but at low weight. This advantage allows the shafts to be operated at high speed.

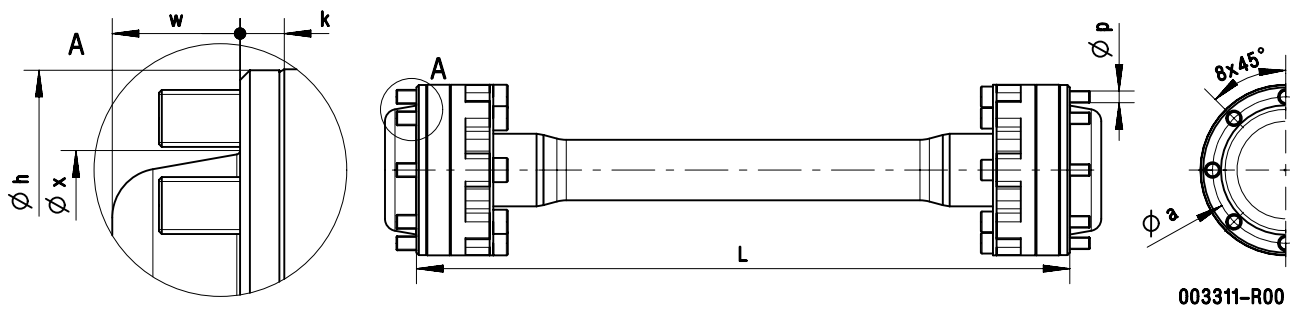


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t804 – CV Glass Fiber Composite Tubular Shaft

The t804 CV shaft has a glass-fiber composite tube and is used predominantly in E-mobility applications. Because glass-fiber does not conduct electricity, both ends of the t804 are electrically isolated from one another. The unit under test can therefore be electrically decoupled from the test bed, consequently providing electromagnetic interference immunity.



Shaft	a [mm]	h [mm]	k [mm]	p [-]	s [°]	w [mm]	x [mm]
t80x-34-6-D5	47.5	56.0	-	M5	6×60	10	43.5
t80x-34-6-D6	49.0	58.0 g6	4.0	M6	6×60	10	43.3
t80x-44-8-D6	60.5	70.5 g6	4.5	M6	8×45	13	53.5

The installed length L is dependent on the application and is limited by the type of design and maximum speed.

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