

# t710 SERIES

## MANUAL TELESCOPIC SHAFT

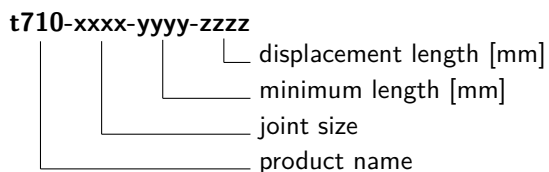


### DESCRIPTION

The t710 is a special shaft for use in test beds for which a large amount of longitudinal compensation is required. A sophisticated displacement principle allows changes in length of up to 260 mm depending on the installed length. The CV joints provide the t710 telescopic shaft with all advantages associated with the t700 series.

### NAMING

The product is named according to the following convention:



Example: t710-CV15-0420-0100

### OPERATING RANGE

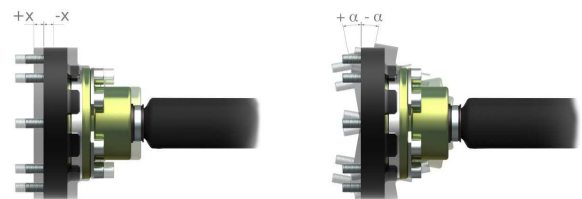
Torque: up to 6000 Nm  
Speed: up to 10000 rpm

### BENEFITS

- large longitudinal compensation
- long life
- low maintenance

### FUNCTION

The CV joint takes up the longitudinal, angular and axial displacement without adding any higher order speed or torque fluctuations to the drive train.



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Shaft	Joint	$T_{max}$ [Nm]	$n_{max}$ [rpm]	X [mm]	$\alpha$ [°]	$\vartheta_{min}$ [°C]	$\vartheta_{max}$ [°C]
t710	CV05	1000	10000	±16	±10	-40	110
	CV10	1500	10000	±12	±10	-40	110
	CV15	2500	10000	±16	±10	-40	110
	CV21	3500	10000	±24	±10	-40	110
	CV30	6600	5000	±25	±10	-40	110
	CV32	8000	5000	±25	±10	-40	110

$T_{max}$  - Maximum torque

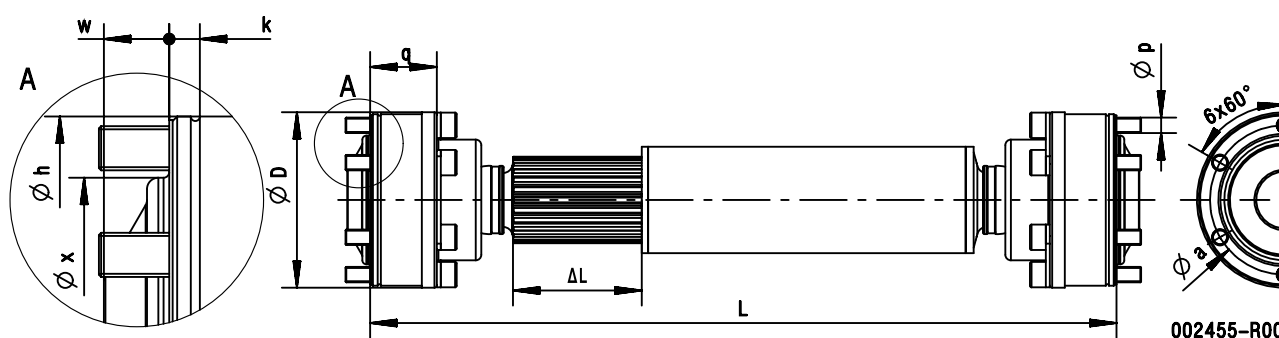
$n_{max}$  - Maximum speed

X - Maximum axial compensation

$\alpha$  - Maximum angular displacement

$\vartheta_{min}$  - Minimum operating temperature

$\vartheta_{max}$  - Maximum operating temperature



Shaft	Joint	D [mm]	a [mm]	$h^{+0.00}_{-0.05}$ [mm]	k [mm]	p [-]	q [mm]	w [mm]	x [mm]
t710	CV05	88.4	74.0	86	10.5	M8	22.8	14.50	65.00
	CV10	96.0	80.0	94	6.0	M8	33.8	15.00	64.00
	CV15	110.5	94.0	108	6.0	M10	42.0	14.40	81.00
	CV21	132.0	108.0	128	6.0	M12	47.9	18.10	90.00
	CV30	150.2	128.0	148	7.0	M12	53.9	22.00	112.00
	CV32	188.0	155.5	180	7.0	M16	57.8	24.50	136.00

The length L is dependent on the application and is limited by the type of design and maximum speed. Higher speeds are available on request.

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