

# HIGH SPEED CARBON FIBER COUPLING



## FEATURE

### 1 DIMENSIONAL STABILITY

The lower coefficient of thermal expansion of superior composites that are used results in higher dimensional stability of the drive shaft resulting in reduced stresses, vibrations and increase in service life.

### 2 LONG SPANS

Higher stiffness of the composite shafts provides for longer spans without the need of any intermediate bearings.

### 3 LIGHT WEIGHT

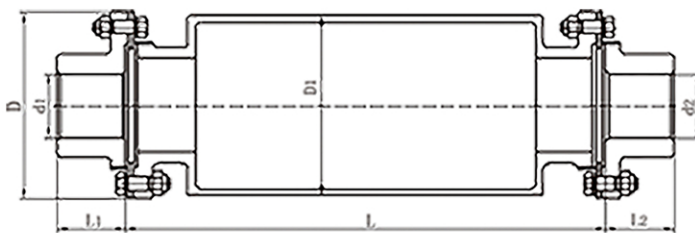
Carbon Fiber Composites drive Shafts weight less than 1/3rd of an equivalent metallic drive shaft. This is possible because of very high specific stiffness of the material.

### 4 SMOOTHER OPERATION

Composites have a higher dampening capacity and hence offer lesser vibrations and noise. This helps increase the operational life of other connected mechanical equipment's.

### 5 INHERENT CORROSION RESISTANCE

The shafts, flanges and flexible couplings are made from composites while the hubs and hardware are made from 42CrMo, giving the drive shafts very high corrosion resistance.



## PARAMETER TABLE

Model	Nominal Torque (Nm)	Peak Torque (Nm)	Maximum speed (rpm)	Dimensions(mm)					Misalignment			Mass moment of inertia kg·m <sup>2</sup>	Weight (kg)
				D mm	D1 mm	d1/d2 max mm	L1/L2 mm	L min mm	Axial mm	Angular mm/mm	Parallel (°)		
CF120	1100	1650	22000	120	120	42	110	300	1.7	0.0056	1/3	0.012	7.8
CF145	1800	2700	21000	145	145	60	110	320	2.1	0.0056	1/3	0.025	11.5
CF168	2600	3900	20000	168	168	75	140	350	2.5	0.0056	1/3	0.068	19.9
CF180	3200	4800	19000	180	180	80	170	380	2.6	0.0056	1/3	0.098	24.6
CF205	4000	6000	18000	205	205	85	170	400	2.8	0.0056	1/3	0.125	30.9
CF215	5000	7500	17000	215	215	95	170	450	3.1	0.0056	1/3	0.158	42.8