

AUTOFLEX DISC COUPLINGS

SERIES CT - COOLING TOWER COUPLINGS

The Autoflex CT has been designed specifically for cooling tower drives with very long shaft separations. The drive shaft is made from a corrosion resistant, lightweight composite fiber material. Composite fiber has been proven to provide the optimum combination of stiffness in a lightweight package.

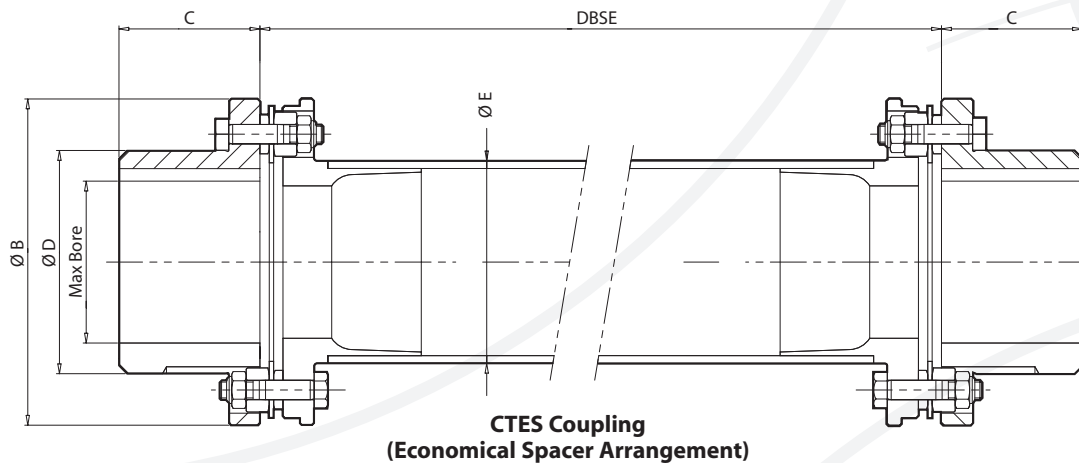
The CT coupling can also be supplied with optional bolted on cartridges. The major advantage of the bolted cartridge design is, the easy of repair and replacement and the rationalization of spares.

Two cartridge packs can spare a number of couplings.

The coupling can be supplied in two styles,

CTES – Economic Spacer arrangement.

CTAG – Drop out spacer arrangement.



Technical Details

Coupling Size - Tube Dia.	Rating HP/100 rpm	Torque Rating ①		Weight at 36" DBSE (lbs)	Weight per in. of extra DBSE (lb/in)	② Inertia (lbs.in ²)	Inertia per in. of extra DBSE (lbs.in ² /in)	Misalignment	
		Cont. (in.lbs)	Peak (in.lbs)					Axial (in)	Offset per DBSE Lgth (in/in)
250 - 3	9.8	6,200	11,000	17	0.07	58	0.17	0.040	0.009
250 - 6	9.8	6,200	11,000	26	0.14	140	1.29	0.040	
263 - 3	18	11,500	23,000	24	0.07	101	0.17	0.050	
263 - 6	18	11,500	23,000	33	0.14	186	1.29	0.050	
313 - 4	31	19,500	38,900	38	0.09	232	0.39	0.060	
313 - 8	31	19,500	38,900	59	0.18	518	3.00	0.060	
363 - 4	35	22,100	43,800	56	0.09	446	0.39	0.070	
363 - 8	46	29,200	58,400	77	0.18	752	3.00	0.070	

1) Torque values listed are for a service factor of 1.0. Typical service factor for cooling tower applications is 1.50.

2) Weight and inertias are calculated using maximum bored standard hubs and 36 in. DBSE.

Dimensional Details

Coupling Size - Tube Dia.	③ Max. Bore (in)	Maximum DBSE ④		B (in)	C (in)	D (in)	E (in)
		at 1500 rpm (in)	at 1800 rpm (in)				
250 - 3	2 1/2	127	116	5.24	2.26	3.58	3.25
250 - 6	2 1/2	175	160	5.24	2.26	3.58	6.25
263 - 3	2 5/8	127	116	5.98	2.56	3.78	3.25
263 - 6	2 5/8	175	160	5.98	2.56	3.78	6.25
313 - 4	3 1/8	147	134	7.09	2.95	4.49	4.25
313 - 8	3 1/8	208	190	7.09	2.95	4.49	8.25
363 - 4	3 5/8	147	134	8.07	3.54	5.28	4.25
363 - 8	3 5/8	208	190	8.07	3.54	5.28	8.25

3) Maximum Bore assumes a standard AGMA interference fit with a square keyway. Larger bores are available using rectangular keys.

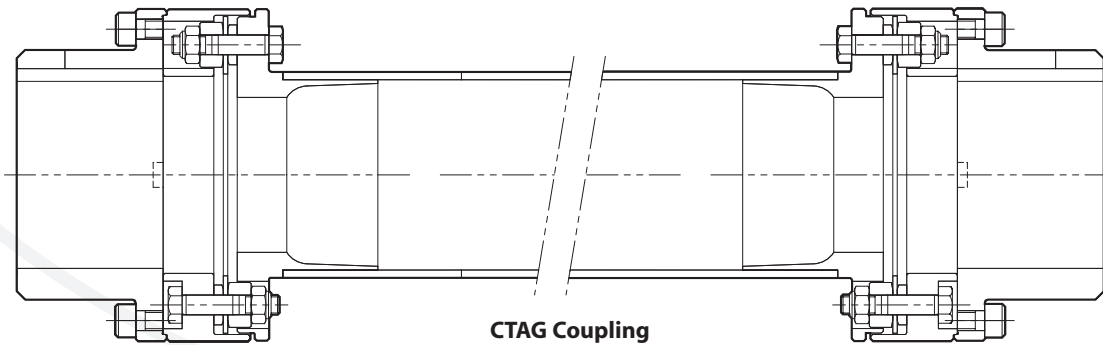
4) Longer DBSE's are available - consult Autogard Engineering.

NOTE: Other sizes available - consult Autogard Engineering.

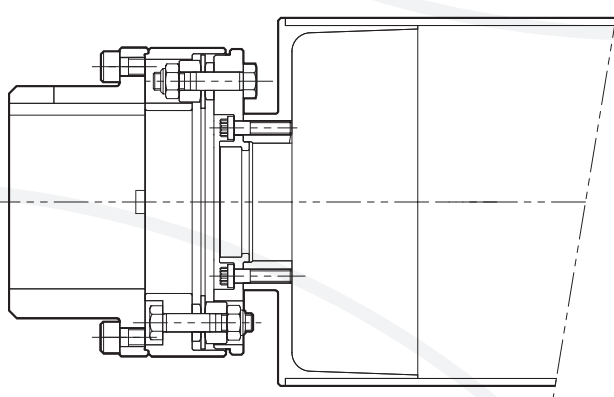
See opposite page for Oversize Tube Designs.

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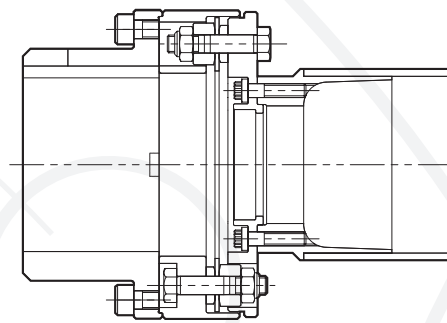
SERIES CT - COOLING TOWER COUPLING



CTAG Coupling
(Drop out Spacer arrangement)



Oversized Tube Design - for longer DBSEs



Optional Bolted Cartridge Assembly

Technical Details

Coupling Size - Tube Dia.	Rating HP/100 rpm	Torque Rating ①		Weight at 36" DBSE (lbs)	Weight per in. of extra (lbs/in)	② Inertia (lb.in ²)	Inertia per in. of extra DBSE (lbs.in ² /in)	Misalignment	
		Cont. (in.lbs)	Peak (in.lbs)					Axial (in)	Offset per DBSE (in/in)
275 - 3	9.8	6,200	11,000	24	0.07	91	0.17	0.040	0.009
275 - 6	9.8	6,200	11,000	33	0.14	173	1.29	0.040	
300 - 3	18	11,500	23,000	35	0.07	170	0.17	0.050	
300 - 6	18	11,500	23,000	44	0.14	255	1.29	0.050	
350 - 4	31	19,500	38,900	57	0.09	395	0.39	0.060	
350 - 8	31	19,500	38,900	79	0.18	681	3.00	0.060	
450 - 4	35	22,100	43,800	84	0.09	788	0.39	0.070	
450 - 8	46	29,200	58,400	105	0.18	1094	3.00	0.070	

1) Torque values listed are for a service factor of 1.0. Typical service factor for cooling tower applications is 1.50.

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Dimensional Details

Coupling Size - Tube Dia.	③ Max. Bore (in)	Maximum DBSE ④		B (in)	C (in)	D (in)	E (in)
		at 1500 rpm (in)	at 1800 rpm (in)				
250 - 3	2 1/2	127	116	5.24	2.26	3.85	3.25
250 - 6	2 1/2	175	160	5.24	2.26	3.85	6.25
263 - 3	2 5/8	127	116	5.98	2.56	4.24	3.25
263 - 6	2 5/8	175	160	5.98	2.56	4.24	6.25
313 - 4	3 1/8	147	134	7.09	2.95	4.92	4.25
313 - 8	3 1/8	208	190	7.09	2.95	4.92	8.25
363 - 4	3 5/8	147	134	8.07	3.54	6.30	4.25
363 - 8	3 5/8	208	190	8.07	3.54	6.30	8.25

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4) Longer DBSE's are available - consult Autogard Engineering.

NOTE: Other sizes available - consult Autogard Engineering.