

Rexnord® Addax®

Features

Low weight
High strength to weight ratio
Corrosion resistant
Low coefficient of thermal expansion

Continuous fiber composite spacer flange
Unitized flex element
High misalignment capacity

Benefits

- ▶ Ease of installation
- ▶ Reduced vibration
- ▶ Extended service life
- ▶ Dimensional stability
- ▶ Reduced stresses
- ▶ Infinite fatigue life
- ▶ Low cost of ownership
- ▶ Reduced maintenance

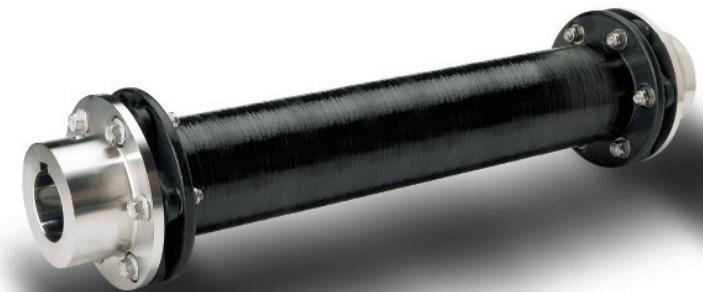
- ▶ Addax® was the first advanced composite cooling tower coupling introduced in 1987.
- ▶ Addax® coupling systems are installed and in service world wide.
- ▶ Choose a Rexnord® Addax® Composite Coupling as YOUR cooling tower coupling if you are currently using a steel coupling or an alternative composite coupling.



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Rexnord® Addax®

Precision. Power. Performance.

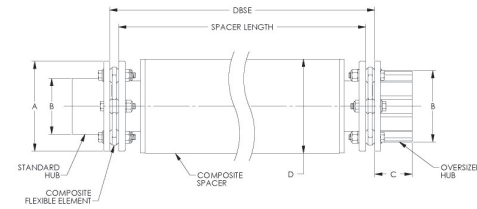
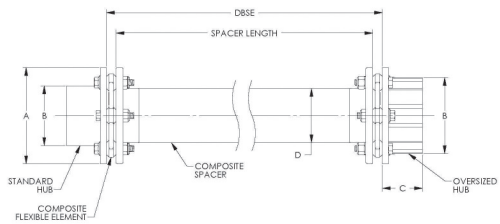
You want a trusted name when it comes to providing engineered power transmission products that improve productivity and efficiency. Rexnord provides superior products for your industrial applications world wide. We work closely with you to reduce maintenance costs, eliminate redundant inventories and prevent equipment downtime.

Applications include:

- ▶ cooling tower
- ▶ verticle pumps

Rexnord® Addax® Cooling Tower Coupling

With more than 50.000 Addax® couplings installed around the world, Rexnord has the most experience of any composite cooling tower coupling manufacturer. The Rexnord® Addax® coupling provides the best value with corrosion resistance, high misalignment, fatigue resistance, low weight and ease of installation.



General Dimensions.

Model Series	SPACER & FLANGE MATERIAL	MAX DBSE @ 1780 RPM @ 1.15 SF	MAX DBSE @ 1480 RPM @ 1.15 SF	MAX BORE Standard	MAX BORE Oversized	A	B	C	D	MIN DBSE	MIN BORE
						(in)	(in)	(in)	(in)	(in)	(in)
350.275	F	95 / 2 413	106 / 2 692	2.13 / 55	2.38 / 65	5.25	3.06 / 78	1.81 / 46	2.75 / 70	5.4	0.63
	A	107 / 2 718	119 / 3 023	2.38 / 65	133	4 / 102	2.6 / 66			137	16
	R	114 / 2 896	126 / 3 200								
375.275	F	95 / 2 413	106 / 2 692	2.13 / 55	2.38 / 65	5.25	3.06 / 78	1.81 / 46	2.75 / 70	5.4	0.63
	A	107 / 2 718	119 / 3 023	2.38 / 65	133	4 / 102	2.6 / 66			137	16
	R	114 / 2 896	126 / 3 200								
450.275	F	95 / 2 413	106 / 2 692	2.25 / 55	3.00 / 75	5.25	3.15 / 80	1.81 / 46	2.75 / 70	5.4	0.63
	A	107 / 2 718	119 / 3 023	2.25 / 55	3.00 / 75	133	4 / 102	2.63 / 67		137	16
	R	114 / 2 896	126 / 3 200								
	X	128 / 3 251	141 / 3 581								
485.338	F	100 / 2 540	113 / 2 870	3.38 / 86	3.38 / 86				3.38 / 86	8.0	0.63
	A	116 / 2 946	127 / 3 226	2.69 / 75	6.00	3.72 / 94	2.5 / 63.5	4.25 / 108	8.0	203	16
	R	127 / 3 226	140 / 3 556	3.38 / 86	152	4.75 / 121	2.75 / 70		203		
485.425	R	141 / 3 581	154 / 3 912						6.25 / 159	9.5 / 241	
	X	154 / 3 912	169 / 4 293								
485.625	R	170 / 4 318	189 / 4 800								
	A	133 / 3 378	148 / 3 759								
	R	141 / 3 581	154 / 3 912								
650.425	X	154 / 3 912	169 / 4 293	3.13 / 80	6.75	4.25 / 108	2.56 / 65	4.25 / 108	6	152	1.00
	R	170 / 4 318	189 / 4 800	4.01 / 100	171	5.15 / 133	2.75 / 70	6.25 / 159	9.5	241	25
	X	186 / 4 725	208 / 5 283						241		
650.825	R	193 / 4 902	215 / 5 461					8.25 / 210	9.5	241	
	X	209 / 5 309	232 / 5 893						241		
	A	157 / 3 988	172 / 4 369	std short				6.25 / 159			
850.625	R	170 / 4 318	189 / 4 800	3.125 / 75		std	2.5 / 63.5	std long		14.2	1.00
	X	186 / 4 725	208 / 5 283	std long		5.8 / 147	3.31 / 84.1	8.25 / 210			
	R	193 / 4 902	215 / 5 461	4.13 / 105	9.0	oversized	3.5 / 89	10.25 / 260	361	25	
850.1025	X	209 / 5 309	232 / 5 893	oversized	5.06 / 130	229	oversized	3.5 / 89	10.25 / 260		
	R	229 / 5 817	253 / 6 426					12.75 / 324			
850.1275	X	245 / 6 223	275 / 6 985								

F = Fiberglass A = Amalgamation (carbon fiber & fiberglass) R = Standard carbon fiber X = Special carbon fiber

Engineering Data.

Model Series	CONTINUOUS TORQUE @ 1.0 SF	PEAK OVERLOAD TORQUE	SPACER & FLANGE MATERIAL	Weight @ MIN DBSE	WR ² @ MIN DBSE	WT CHANGE PER LENGTH	WR ² CHANGE PER LENGTH
350.275	3 617	5 425	F	13.8 / 6.2	32 / 0.0093	0.07 / 1.5	0.13 / 0.0015
	408	613	A				
			R				
375.275	5 311	7 967	F	13.8 / 6.2	32 / 0.0093	0.07 / 1.5	0.13 / 0.0015
	600	900	A				
			R				
450.275			F	12.9 / 5.9	32 / 0.0092	0.07 / 1.5	0.13 / 0.0015
	7 250	10 875	A				
	820	1 229	R				
			X				
485.338			F	23.4 / 10.6	47 / 0.014	0.09 / 1.8	0.24 / 0.0029
	11 000	16 500	A				
			R				
485.425	1 243	1 864	R	24.0 / 10.9	74 / .022	0.08 / 1.5	0.21 / 0.0024
			X				
485.625			R	26.5 / 12.0	92 / 0.027	0.07 / 1.4	0.19 / 0.022
			X				
650.425			A	31.5 / 14.3	122 / 0.036	0.09 / 1.7	0.38 / 0.0044
			R				
	18 100	27 150	X				
650.625	2 045	3 067	R	34.4 / 15.6	141 / 0.041	0.09 / 1.7	0.38 / 0.0044
			X				
650.825			R	37.9 / 17.2	194 / 0.056	0.13 / 2.6	1.2 / 0.015
			X				
			A				
850.625			R	63.6 / 28.8	440 / 0.130	0.18 / 3.6	3.0 / 0.035
	36 200	54 300	X				
850.825			R	68.5 / 31.0	512 / 0.15	0.15 / 2.9	1.4 / 0.016
	4 090	6 135	X				
850.1025			X	74.8 / 33.9	657 / 0.19	0.13 / 2.6	1.2 / 0.014
850.1275			X	78.4 / 35.6	768 / 0.22	0.14 / 2.7	1.3 / 0.015

The standard weight and WR² values are at minimum DBSE and standard minimum bore for a complete assembly. To determine the total weight or inertia subtract the minimum DBSE from the total DBSE required and multiply that value times the WT and/or WR² change per length then add that calculated WT or WR² to the minimum DBSE values. Values may vary slightly depending on your actual bore and key size.

Selection Process.

$$\text{System Torque (Nm)} = \frac{\text{kW} \times 9549}{\text{rpm}} \times 2.0$$

CTI recommends a service factor of 2.0 for cooling tower applications
Consult general dimension chart for maximum span using 1.15 safety factor
Consult general dimension chart for maximum bore size

Ordering Instruction.

L	R	F, A, R, X	Table	Table	Stainless S	S=stainless M=monel	DBSE	Bore 1	Bore 2
Longspan	Reinforced	Spacer and Flange Material	Model	Series	Hub Material	Hardware Material			