



Falk™ CT-Series Gear Drives

TYPE CTA



A Trusted Name for Cooling Towers



The Falk™ CT-Series Gear Drives, brought to you by the makers of Addax™ Composite Couplings, are specifically designed to directly replace Amarillo®* gearboxes for cooling tower and vertical drive applications. The critical mounting dimensions of the CT-Series matches comparable Amarillo models, allowing for quick and easy replacement of existing gearboxes.



KEY INDUSTRIES:

Power Generation
Refineries
Petrochemical
Pulp & Paper

APPLICATIONS:

Cooling Towers
Vertical Mixers

SIZES:

- Five drive sizes with nineteen standard ratios from 7.5–20
- Custom ratios available upon request
- Power range of 100 HP to 390 HP at a 2.0 Service Factor

* Amarillo is believed to be the trademark and/or trade name of Amarillo Gear Company, LLC, and is not owned or controlled by Regal Rexnord Corporation or its affiliates.

Features and Benefits

- Manufactured to **American Gear Manufacturers Association (AGMA)** and **Cooling Technology Institute (CTI)** standards.
- **Double reduction spiral bevel** gear units are designed for cooling tower installations and feature a tub and cover housing and **pump-less lubrication**. Oil is delivered to all requisite locations using an oil slinger in conjunction with an elaborate oil management system.
- Castings are designed and **built to absorb internal and external loads** with minimum deflection. Gear case and covers are designed to assure permanent alignment of bearings and gears under load. All casting materials are gray cast iron for effective damping of noise and vibration.
- **Tub and cover housing design** utilizes dowel pins to ensure proper alignment and is **sealed using a formed-in-place gasket material** that eliminates weeping.
- Spiral bevel gears are finished using a **state-of-the-art hard cut process**, with special software monitoring to match the profile of the mating gears.
- The housing utilizes **vertical fins to maximize thermal performance in high ambient temperatures** such as those found in cooling tower applications with no additional cooling devices required.
- **All bearings are roller-type**, and sized to meet or exceed a **minimum L_{10} life** as specified by AGMA and CTI standards.
- **Standard marine grade paint** conforms to ISO 12944-5 guidelines for very high atmospheric corrosivity (C5 Category) to ensure long service life in the harsh cooling tower environment.
- **Optional accessories are available**, including:
 - Backstop
 - Oil level switch
 - Vibration sensor
 - RTD temperature sensors
 - Oil heater



CT-Series Right Angle

Service Power Ratings[†] (Minimum Service Factor 2.0)

Input Speed RPM	Nominal Ratio	Approx LS Shaft rpm	Drive Size									
			2255		2275		2310		2350		2370	
			HP	kW	HP	kW	HP	kW	HP	kW	HP	kW
1750	7.5	233	142	106	—	—	—	—	—	—	—	—
	8	219	142	106	210	157	—	—	—	—	—	—
	8.5	206	141	105	208	155	—	—	—	—	—	—
	9	194	140	104	206	154	312	233	—	—	—	—
	9.5	184	135	101	198	148	—	—	—	—	—	—
	10	175	130	97	190	142	290	216	—	—	—	—
	10.5	167	130	97	183	136	281	210	—	—	—	—
	11	159	130	97	176	131	279	208	390	291	—	—
	12	146	125	93	165	123	253	189	343	256	454	339
	12.5	140	—	—	—	—	252	188	333	248	—	—
	13	135	125	93	160	119	240	179	323	241	419	313
	14	125	120	89	155	116	231	172	310	231	400	298
	15	117	—	—	150	112	214	160	300	224	363	271
	15.5	113	—	—	—	—	208	155	294	219	356	266
	16	109	—	—	—	—	200	149	285	213	345	257
	17	103	—	—	137	102	—	—	272	203	324	242
	18	97	—	—	—	—	—	—	262	195	309	231
	19	92	—	—	—	—	—	—	250	186	291	217
	20	88	—	—	—	—	—	—	241	180	279	208
1450	7.5	193	118	88	—	—	—	—	—	—	—	—
	8	181	118	88	174	130	—	—	—	—	—	—
	8.5	171	117	87	172	128	—	—	—	—	—	—
	9	161	116	87	171	128	259	193	—	—	—	—
	9.5	153	112	84	164	122	—	—	—	—	—	—
	10	145	108	81	157	117	240	179	—	—	—	—
	10.5	138	108	81	151	113	230	172	—	—	—	—
	11	132	108	81	146	109	226	169	323	241	—	—
	12	121	104	78	137	102	212	158	284	212	376	280
	12.5	116	—	—	—	—	213	159	276	206	—	—
	13	112	104	78	133	99	201	150	268	200	346	258
	14	104	99	74	128	95	188	140	257	192	331	247
	15	97	—	—	124	92	177	132	249	186	301	225
	15.5	94	—	—	—	—	171	128	244	182	295	220
	16	91	—	—	—	—	167	125	236	176	286	213
	17	85	—	—	114	85	—	—	225	168	268	200
	18	81	—	—	—	—	—	—	217	162	255	190
	19	76	—	—	—	—	—	—	207	154	241	180
	20	73	—	—	—	—	—	—	200	149	231	172
1170	7.5	156	94	70	—	—	—	—	—	—	—	—
	8	146	94	70	139	104	—	—	—	—	—	—
	8.5	138	93	69	138	103	—	—	—	—	—	—
	9	130	93	69	137	102	207	154	—	—	—	—
	9.5	123	89	66	131	98	—	—	—	—	—	—
	10	117	86	64	126	94	190	142	—	—	—	—
	10.5	111	86	64	121	90	185	138	—	—	—	—
	11	106	86	64	117	87	179	133	259	193	—	—
	12	98	83	62	109	81	170	127	227	169	300	224
	12.5	94	—	—	—	—	169	126	220	164	—	—
	13	90	83	62	106	79	159	119	214	160	276	206
	14	84	80	60	103	77	150	112	205	153	264	197
	15	78	—	—	99	74	142	106	199	148	240	179
	15.5	75	—	—	—	—	137	102	195	145	236	176
	16	73	—	—	—	—	133	99	189	141	228	170
	17	69	—	—	91	68	—	—	180	134	214	160
	18	65	—	—	—	—	—	—	174	130	204	152
	19	62	—	—	—	—	—	—	166	124	192	143
	20	59	—	—	—	—	—	—	160	119	184	137

[†] Service Power Ratings are in accordance with CTI Std. 111 considering minimum 2.0 service factor (mechanical) and ambient temperature of 25°C at sea level per AGMA ISO 14179-1. For other vertical applications or ambient conditions, contact the factory.

Maximum Allowable Low Speed Shaft Thrust Load[‡]

Drive Size	Maximum Thrust Load	
	lbs	kg
2255	5,400	2,450
2275	5,950	2,700
2310	8,900	4,037
2350	10,900	4,945
2370	17,000	7,711

[‡] The listed thrust ratings are the maximum allowable axial load at the low speed shaft to maintain L₁₀ of 100,000 hours. Contact the factory if higher thrust load ratings are required.

Weight and Oil Quantity

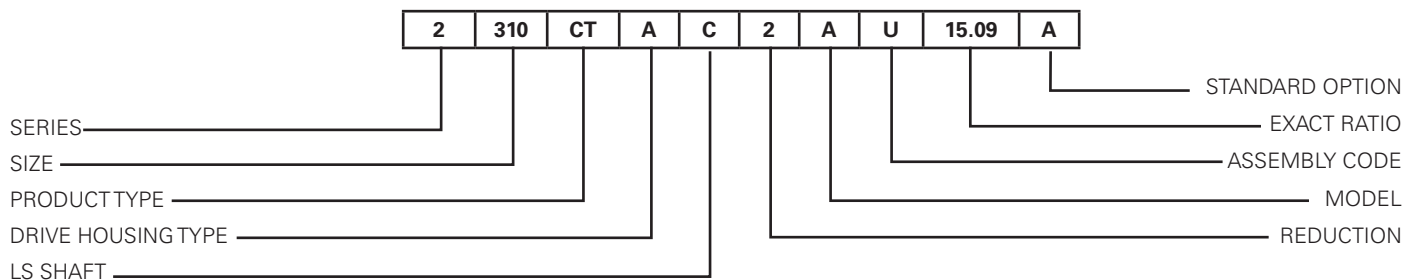
Drive Size	Weight		Oil Quantity	
	lbs	kg	gal*	L
2255	1,653	750	7.40	28
2275	1,940	880	9.25	35
2310	2,499	1,134	13.21	50
2350	3,064	1,390	16.38	62
2370	4,850	2,200	30.38	115

* The volume of oil indicated in the table is only a rough guideline, depending on the ratio the actual oil volume can vary. The exact level of oil is to be maintained as per the dipstick marking or the level indicator as applicable.

Actual Ratio

Nominal Ratio	Drive Size				
	2255	2275	2310	2350	2370
7.5	7.579	—	—	—	—
8	8.030	8.026	—	—	—
8.5	8.526	8.528	—	—	—
9	9.000	9.191	9.043	—	—
9.5	9.536	9.529	—	—	—
10	10.13	10.13	10.17	—	—
10.5	10.50	10.42	10.67	—	—
11	11.13	11.12	11.16	11.20	—
12	12.25	11.81	12.00	11.93	11.868
12.5	—	—	12.55	12.61	—
13	12.98	13.20	13.05	13.07	13.185
14	13.78	14.03	14.22	13.92	13.896
15	—	15.12	15.09	14.74	15.363
15.5	—	—	15.50	15.39	15.399
16	—	—	16.00	16.22	16.131
17	—	17.15	—	17.19	17.266
18	—	—	—	17.93	17.944
19	—	—	—	18.93	18.888
20	—	—	—	20.03	20.119

Nomenclature Guide



Series

2000 Series

Size

255
275
310
350
370

Product Type

CT — Falk™ CT-Series

Drive Housing Type/Output Shaft Configuration

A — Right angle drive, matches Amarillo footprint

LS Shaft

C — Solid shaft

Reduction

2 — Number of reductions/stages in gear drive

Model

A — Model A

Assembly Code

U — L.S. shaft up

Ratio

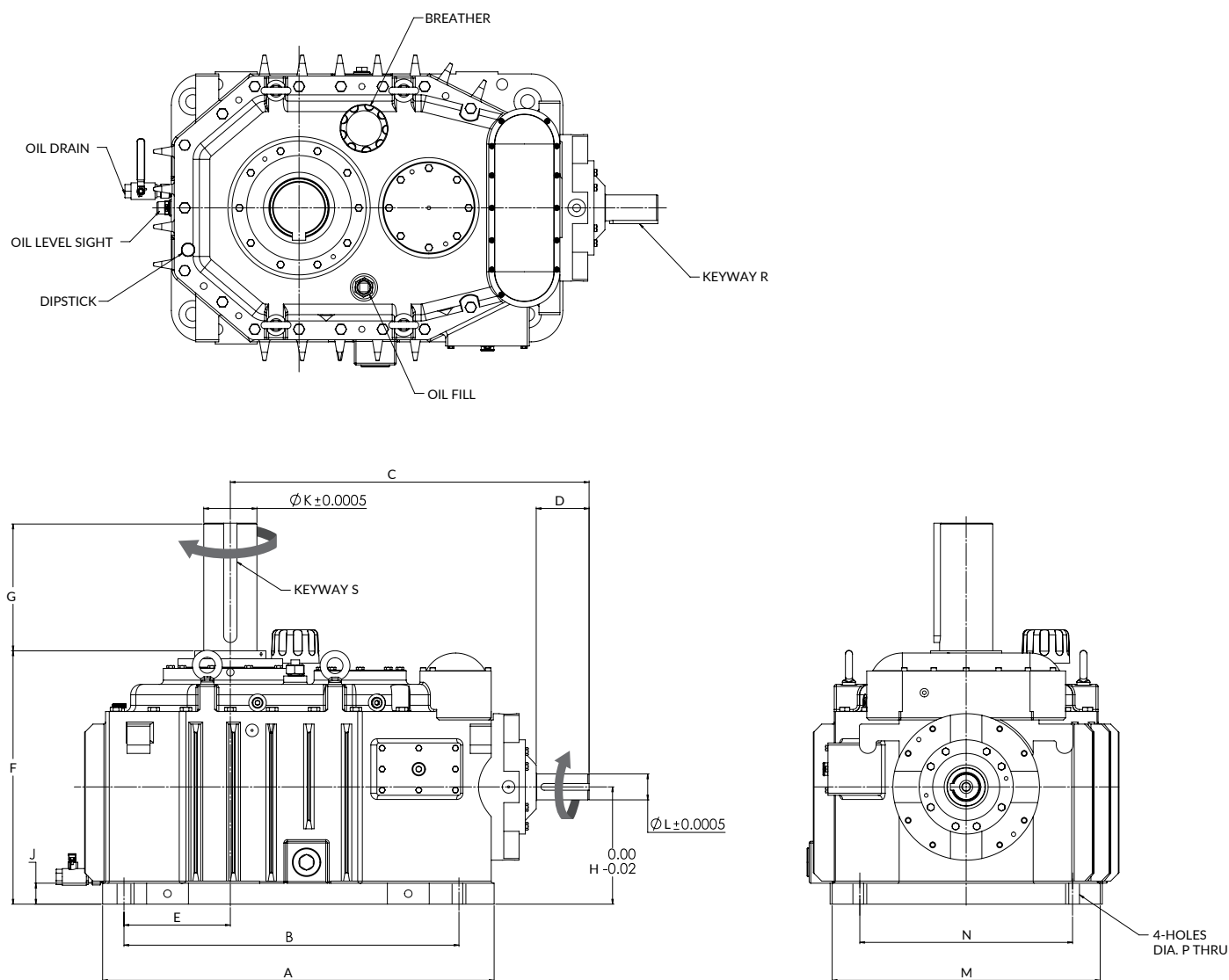
Exact ratio expressed as (5) characters including decimal point

Standard Options

A — Oil level switch
B — Oil heater with thermostat
C — Oil sump and HS bearing RTDs
D — Vibration sensor (HS bearing)

Dimensions

Double Reduction Solid Low Speed Shaft, Base Drive — Sizes 2255-2370



Dimensions — Inch

Drive Size	A	B	C	D	E	F	G	H	J	K	L	M	N	P	R W x H	S W x H
2255	31.89	25.98	29.75	3.75	8.88	20.63	12.01	9.51	1.97	3.999	1.874	22.05	17.99	1.06	0.375 x 0.188	1.000 x 0.500
2275	34.65	29.25	30.43	4.92	10.37	22.40	12.01	10.26	1.97	4.499	2.436	23.50	19.49	1.30	0.625 x 0.313	1.000 x 0.500
2310	36.81	31.50	33.74	4.92	10.00	23.82	12.01	11.02	1.97	4.999	2.436	25.20	20.00	1.30	0.625 x 0.313	1.250 x 0.625
2350	42.52	34.88	37.24	5.83	11.61	26.10	12.01	12.01	1.57	5.499	2.936	29.25	23.23	1.30	0.750 x 0.375	1.250 x 0.625
2370	44.25	37.24	39.25	5.87	12.44	29.76	15	14.488	2.56	6.498	3.124	31.89	24.88	1.53	.750 x .375	1.500 x .750

Addax™ Cooling Tower Backstop

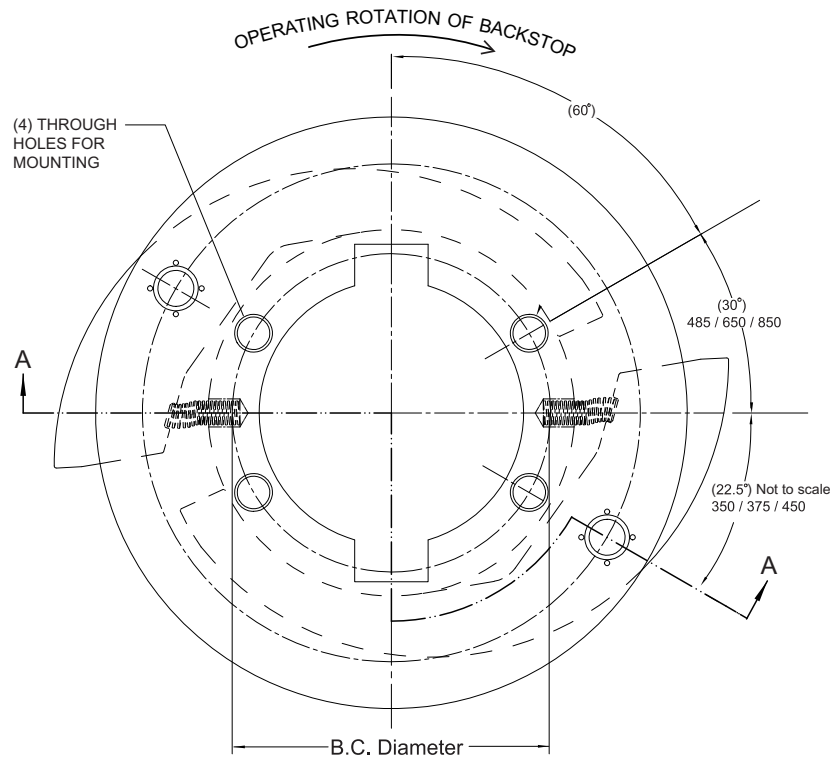
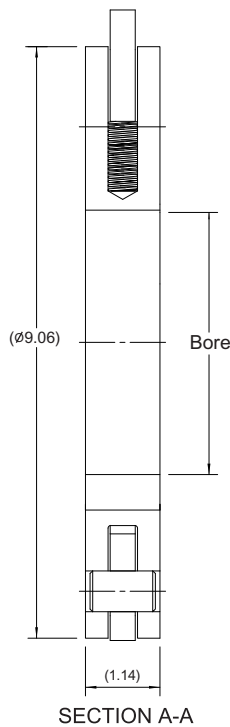
The Addax Cooling Tower Backstop is an anti-reverse device that mounts directly to coupling hub at either motor or gear drive end. The spring-loaded pawl design allows free rotation in the motor-driven direction, while preventing “reverse windmilling” which could result in costly damage to nearby connected equipment.

- All 316 Stainless Steel construction for superior durability in highly corrosive atmospheres.
- Easily mounts directly to Addax Coupling hubs or can be retrofitted to non-Addax hubs.
- Available with Stop Post Assemblies that mount to base plate of CT-Series gear drives to enable hassle-free installation.



CT-Series Stop Post Assemblies

Gear Drive Size	Part Number
2255	10787845
2275	10788006
2310	10781127
2350	10788007
2370	11126342



Size	Bore (in)	Mating Hub Backstop Bolting Information			Pawl Diameter		Required Speed for Compression	Part Number	Hub Style
		B.C Diameter (in)	Capscrew Size	Tightening Torque	Compressed	Sprung			
350 / 375 / 450	3.02	3-1/2	5/16-18NC X 1.75	195 lb-in	9-3/16 in	10-9/16 in	400 RPM	10299610	Oversized
485	3.44	4-1/16	5/16-18NC X 1.75	195 lb-in				10299611	Oversized
650	4.05	4-5/8	3/8-16NC X 1.75	300 lb-in				10299612	Oversized
850	4.05	4-7/8	1/2-13NC X 2.00	750 lb-in				10299613	Standard



FALK™

Regal Rexnord

Customer Service: 800-626-2120

Technical Service: 800-626-2093

CustomerService.PTSolutions@regalrexnord.com

regalrexnord.com

The proper selection and application of products and components, including assuring that the product is safe for its intended use, are the responsibility of the customer. To view our Application Considerations, please visit <https://www.regalrexnord.com/Application-Considerations>.

To view our Standard Terms and Conditions of Sale, please visit <https://www.regalrexnord.com/Terms-and-Conditions-of-Sale> (which may redirect to other website locations based on product family).

"Regal Rexnord" is not indicative of legal entity. Refer to product purchase documentation for the applicable legal entity.

Regal Rexnord, Addax, and Falk are trademarks of Regal Rexnord Corporation or one of its affiliated companies.

© 2019, 2026 Regal Rexnord Corporation, All Rights Reserved. MCB-GR1-010-FK-EN-US 06/26

 **RegalRexnord™**