

Rifle Barrel Twist Rates Available at EABCO

For TC Encore Factory and Custom Barrels, Savage Bolt Guns, Model 97D Rifles and BF Pistols

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Available EABCO Twist Rates

The optimum rate of twist for a barrel depends on the particular cartridge, caliber, and bullet weight you are wanting to use. Here are the twists we offer:

- .17 Cal - 1:9
- .22 RF Cal - 1:16
- .22 CF Cal - 1:7, 1:9, 1:12, 1:14
- 6mm/.243 - 1:8, 1:10, 1:12
- 6.5mm/.264 - 1:8
- .270 Cal - 1:10
- 7mm/.284 - 1:9
- 30 Cal - 1:8, 1:10, 1:12
- 338 Cal - 1:10

Choosing Your Custom EABCO Twist Rate

You can special order your choice of rifling twist rate when you order a made-to-order [Encore Accuracy Barrel](#), or made-to-order [Model 97DRifle](#).

We have standards we recommend for various chamberings so you don't have to figure this out yourself. But if you'd like to know some guidelines and reasons, here they are: 17 Caliber: Use 1:9 for centerfires. 22 CF (Centerfire): 1:7 is only for the heaviest bullets. 1:12 shoots 40-50gr bullets accurate in 223 and up to 55gr, accurate in 22-250. 1:14 is only for the lightest bullets. 6mm/.243: Use 1:8 for 90-100gr bullets. 1:10 for 75-85gr. Use 1:12 for lightest bullets (ie. 58gr in 6PPC). On 30 calibers, a 1:10 twist is the best all-around. We DO build a few 30's in 1:8 twists for folks who shoot the heaviest bullets. 308 shooters prefer 1:12 for 155 gr bullets. The rule of thumb with twist rates is this: It is better to err on the side of too fast of a twist rather than too slow.

Choice of twist rate is only available when you order a custom barrel or gun made by E. Arthur Brown Company. Thompson Center barrels have standard twists...

Twist Rates for the 308 Winchester... An Example.

- 1:8 Twist is the fastest twist and is best suited to the heaviest bullets... 180 grain up to 220 gr. and heavier.
- 1:10 Twist is the best all around sporting/hunting rifle twist rate. It stabilizes anything up to 180 grains which is pretty much all of the hunting ammunition at the local sporting goods store. 150-160 gr would be optimum.
- 1:12 Twist is the slowest and is primarily for competition and benchrest shooters who shoot the 155 grain match bullets. This twist is best for the lightest bullets up to a maximum of 155 gr bullets.

Rules of Thumb

- It is better to err on the side of too fast rather than too slow on twist rate. Too fast and the bullet still usually shoots fine. But too slow and the bullet will fly sideways and "key hole" in the target.
- Slow 1:12 twist is preferred by competitors who are trying to minimize the smallest imbalances in their bullets. Their goal is to spin the bullet only as fast as it takes to stabilize it and no faster... They are sometimes on the ragged edge which is not the best place to be in a hunting/sporting situation.

Thompson Center Factory and Orig Custom Shop Twist Rates - Scroll Down

To the best of our knowledge, these are the current twist rates in Thompson Center barrels that come as factory standards and from the TC Custom Shop (Fox Ridge). We supply the full range of factory barrels... [Click Here](#) for factory barrel prices. We also supply the TC Custom Shop made-to-order barrels... [Click Here](#) for Custom Shop barrel information.

- All 17 Centerfire 1:10
- All 22 Centerfire 1:12
- All 6mm/.243 1:10
- All 25 Caliber 1:10
- All 6.5mm/.264 1:8
- All .277 Caliber 1:10
- All 7mm/.284 1:9
- All 30 Caliber 1:10
- All 338 Caliber 1:10
- All .375 Caliber 1:12



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General TC Twist Rates by Chamber... Scroll Down for Special Pistol Barrel Twist Rates.

17 REM	1:10	6.5 REM MAG	1:08	35 REM	1:14
17 MACH IV	1:10	264 WIN MAG	1:08	35 WHELEN	1:14
17 ACKLEY BEE	1:10	6.8MM REM SPC	1:10	350 REM MAG	1:14
17 K-HORNET	1:10	270 WIN	1:10	375 WIN	1:12
204 RUGER	1:12	280 REM (7MM EXP REM)	1:09	38-55 WIN	1:12
22 LR	1:15	280 REM ACKLEY IMPROVED	1:09	375 JDJ	1:12
22 HORNET	1:12	284 WIN	1:09	375 H&H MAG	1:12
22 K-HORNET	1:12	7MM TCU	1:09	405 WIN	1:14
218 BEE	1:12	7-30 WATERS	1:09	41 REM MAG	1:20
221 REM FIREBALL	1:12	7MM BR REM	1:09	416 RIGBY	1:14
222 REM	1:12	7MM-08 REM	1:09	44 REM MAG	1:20
222 REM MAG	1:12	7MM (7X57)	1:09	445 SUPER MAG	1:20

Rifle Barrel Twist Rates at EABCO

223 REM	1:12	7MM REM MAG	1:09	444 MARLIN	1:20
223 ACKLEY IMPROVED	1:12	7MM INT	1:09	45 AUTO	LH 1:16
22 PPC	1:12	30 CARB (M1)	1:10	454 CASULL	1:16
22 BENCHREST	1:12	30 HERRETT	1:10	460 S&W	1:16
22-250 REM	1:12	30-30 WIN	1:10	450 MARLIN	1:20
22/250 ACKLEY IMPROVED	1:12	300 WHISPER	1:10	45-70 GOVT	1:20
225 WIN	1:12	7.62X39	1:10	480 RUGER	1:18
220 SWIFT	1:12	300 SAVAGE	1:10	50 AE	1:20
6MM REM	1:10	30/40 KRAG	1:10	500 S&W	1:20
6MM BR REM	1:10	307 WIN	1:10	209X45	1:28
6MM TCU	1:10	308 WIN	1:10	209X50	1:28
6MM PPC	1:10	308 ACKLEY IMPROVED	1:10	209X50 Custom Shop	1:48
243 WIN	1:10	30-06 SPRG	1:10	12 GAUGE 209X12GA	SB
6MM-06	1:10	30/06 ACKLEY IMPROVED	1:10	12 GAUGE 3" (RIFLED)	1:28
250 SAVAGE	1:10	300 H&H MAG	1:10	20 GAUGE 3"	SB
250/3000 ACKLEY IMPROVED	1:10	300 WIN MAG	1:10	20 GAUGE 3" (RIFLED)	1:24
256 WIN MAG	1:10	32 H&R MAG	1:10	28 GAUGE 2 3/4"	SB
25-20 WIN	1:10	32-20 WIN	1:10		
25-35 WIN	1:10	32 S&W	1:10	TC Pistol Barrel Twist Rates	
257 ROBERTS	1:10	358 WIN	1:14	414 SUPER MAG	1:20
257 ROBERTS ACKLEY IMPR	1:10	338 FEDERAL	1:10	40-44 WIN	1:20
25-06 REM	1:10	338-06	1:10	45 COLT	LH 1:16
25/06 ACKLEY IMPROVED	1:10	338 WIN MAG	1:10	45 COLT-410	LH 1:16
6.5MM TCU	1:08	38 SPECIAL MATCH	1:14	450 MARLIN	1:14
6.5 BENCHREST	1:08	357 MAG	1:14	45-70 GOVT	1:14
6.5X54 MANNLICHER	1:08	357 REM MAX	1:14		
260 REM	1:08	357-44 B&D	1:14		
6.5X55	1:08	357 SIG	1:14		
6.5X284	1:08	357 HERRETT	1:14		

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