

BLUEPRINTED ACCURACY TUNING®

Extracting the MOST Accuracy From Your Revolver!

“Ideal for ALL NEW SERIES Colt Double Action Revolvers!! These Revolvers Offer the Best Essentials for a Superior Finished Product!!”

These are not unfounded claims and there is no snake oil business going on here. This is about the physics behind an accurate revolver (tight groups). Specifications and tolerances. That's where it's at. While Colt offers the finest domestically-manufactured double-action revolver available, they are still production revolvers. Fortunately, Colt New Series revolvers offer the critical FOUNDATION needed to create a phenomenal finished product. Chamber spacing, the avoidance of oversized reaming, overall barrel dimensions, and structural integrity all contribute to a superb finished product. Sometimes, one or more items is below the ideal specification and in turn will increase group sizes. Hey; we've got this! BLUEPRINTED ACCURACY TUNING® entails a thorough inspection of your revolver. For \$65, we inspect your crown, bore, forcing cone, barrel/cylinder gap, barrel/chamber alignment, cylinder throats, chambers, cylinder endplay, lockup, and headspace. Included with the inspection, we re-crown the muzzle with our exclusive *AccuCrown®* bore-centered match crown. It is totally free of burrs and it's uniform with the bore to $\pm .0001$ ", which is astonishing. Poorly centered crowns, poorly cut crowns, and crowns with burrs cause "bullet wobble". The *AccuCrown®* is so good, we have an agreement with two High-End 1911 pistol companies to crown their match grade barrels prior to them being used.

AFTER THE INSPECTION? If your revolver needs anything, we contact you and let you know WHAT we found, HOW it impacts grouping potential, and what the PRICE will be to fix it. If you have your gun tuned in this way, we test them for accuracy. We have varying accuracy standards for different guns and calibers. We have many Accuracy Tuned revolvers out there capable of beating Korths, Manurhins, and Spohrs. I will not be shy about it, we are the best at what we do. We have well into 5-figures invested in measuring and machining tools to evaluate and correct deficiencies within the above-mentioned areas (that is just in the measuring equipment and cutting attachments!) we mean business regarding accuracy! Colonel Townsend Whelen once said, "Only accurate rifles are interesting". I'll bet the Colonel would say the same thing about revolvers too.

WHAT MAKES HEFFRON PRECISION® SUPERIOR IN THIS AREA? Since the beginning, we have continuously strived to improve. It's this passion for Continuous Improvement that drives "out of the box" thinking and experimentation. The newer Colt and Smith & Wesson revolvers come with the highly important basics intact. We know what to look for, how to correct it, and how to precisely fine tune these guns so the only avenue for improvement would be (possibly) a new and very High-End barrel. Dimensional accuracy being what it is today, the differences between barrels is even becoming more narrow. 99.9% of the time, if the bullet STARTS in the barrel correctly and EXITS the barrel correctly, a measure of proper dimension, uniformity, and consistency, the battle is won. We know where, we know why, and we know how. You send it and we'll deliver the performance!

BLUEPRINTED ACCURACY TUNING® w/ AccuCrown®: \$65 plus the cost of any needed work. Shop time is **\$65** Per Shop Hour plus parts. Your certificate will indicate that the Blueprinted Accuracy Tuning® was performed.

ACCURACY CRITERIA FOR BLUEPRINTED REVOLVERS

Note: Groups are 5 shots. Groups are fired using a Ransom Machine Rest. Gun must pass the group size test before it ships. Gun, caliber, maximum allowable group size, and distance are listed below. Dedicated test ammunition is used so we can achieve the most consistent testing results.

FIREARM	CARTRIDGE	BARREL	DISTANCE	CRITERIA
Colt NS Medium Frame	357 Magnum	8"	100 yards	2.00"
		6"	100 yards	2.25"
		5"	100 yards	2.50"
		4.25"	100 yards	2.75"
		3"	75 yards	2.75"
		2.5"	75 yards	2.75"
Colt NS Large Frame	44 Magnum	8"	100 yards	2.00"
		6"	100 yards	2.25"
		4.25"	100 yards	2.75"
	45 Colt	6.00"	50 yards	2.00"
		4.25"	50 yards	2.50"
Colt NS Small Frame TGT	Centerfire Mag	4.50"	100 yards	3.50"
	Rimfire	6"	50 yards	1.50"
		4.25"	50 yards	2.00"

COMMONLY USED SERVICES FOR OUT-OF-SPEC REVOLVERS

AccuCrown© If you order the BLUEPRINTED ACCURACY TUNING© service, you automatically get this! MOST barrel crowns are flawed. They are either off-center, have non-uniform depth, have burrs, or all of the above. A huge accuracy killer! Included with the Tuning Package, but on its own **\$55** Virtually ALL barrel crowns are several thousands “off”. Our unique system, invented over 20 years ago maintains center and depth with the bore to within .0001”. Burr-free too!

TruCone© This is a bore-centered method of cutting forcing cones, honing forcing cones, and polishing forcing cones. Available in several angles to accommodate any need. We can correct most issues without removing the barrel. PRICE: Cut New Bore-Centered Forcing Cone: **\$65** Truing of Existing Forcing Cone: **\$55** - Bore-Centered Polishing of Existing Forcing Cone: **\$45** - Smoothing/Truing Forcing Cone Entrance: **\$35** All Forcing Cutting/Polishing/Truing Services use equipment that perfectly centers the forcing cone to the bore itself.

CYLINDER THROAT MACHINING: Every chamber has a throat and for the best accuracy every throat needs to be within spec and they all must be the same size within a cylinder. We correct such anomylies! This helps to eliminate flyers, loose groups, spray and splatter. There is also a direct correlation between throat sizing and forcing cone sizing. We machine them so they’re acclimated to one another, but it ALL starts with the throats. If we find any out of spec throats or any that are differently sized than the rest within a given cylinder, we can correct that for maximum accuracy potential! PRICE: **\$22** Per Throat

MAGIC BALL PRESSURE LAPPING©: This is a method of final-lapping the barrel that duplicates what Colt did once upon a time with their Shooting Master Target Revolvers, Officers Model Target Revolvers, and Old Series Python revolvers. This offers a smoother barrel while maintaining sharp rifling. I learned this method EXACTLY by a retired Colt employee in the 1980s. I have the sizing of the ball, the metallic ratios, and the abrasive used along with the amount of

abrasive mixture. This exceeds what the DIY lapping kits can do by a massive margin. It's not even close. This is a superb final touch to a World Class revolver! Available for Colt's New Series revolvers. PRICE: **\$55**

NOTE: Other services may be needed to get your revolver up to snuff. These could include key parts related to lockup, barrel/cylinder gap adjustment, headspace adjustment, barrel/chamber alignment, cylinder endshake repair, or other things. Items that fall outside of the "Flat Fee Services" are **\$65** per shop hour plus parts. We will let you know what's going on before any work is done. Sometimes, no work is needed at all! The inspection w/AccuCrown© alone is well-worth the modest \$65 asking price. This will be documented on your gun's Custom Certificate. When Accuracy-Tuned, Colt's New Series of revolvers are the most accurate double-action revolvers in the world even surpassing the multi-thousand dollar European "super-revolvers".

The Best Route to the Best Accuracy



World Class Performance through
dedicated research