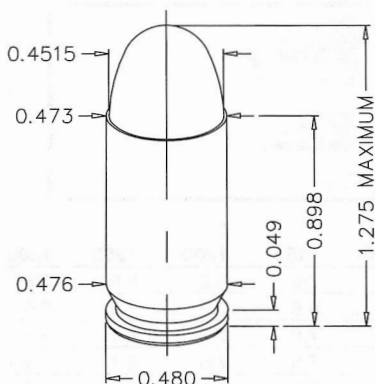


45 Auto (ACP) Revolver



Test Specifications/ Components

Firearm Used: Freedom Arms
Model 83 Casull

Barrel Length: 7 1/2"

Twist: 1 x 16"

Case: Starline

Trim-to Length: 0.893"

Primer: Fed 150

Remarks:

When a person thinks of a 45 ACP, they naturally think of a 1911 type semi-auto pistol. Surprisingly though, there have been several revolvers chambered in 45 ACP along with the Thompson Center Contender. When the U.S.

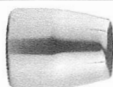
entered into the First World War, the Army was in dire need of side arms. The rimless 45 ACP was the military cartridge being used at that period. In 1917, Smith and Wesson produced the Model 1917 Army Model 45 using three shot half moon clips, which allowed the rimless 45 ACP case to headspace correctly, load quickly as well as ejected simultaneously and the clips were reusable. Smith and Wesson made 153,311 of these revolvers for the US Military, while Colt made 151,700 of the Colt New Service revolver, which also used the half moon clips. In addition, Colt and Remington Arms-Union Metallic Cartridge Company made another 438,000. Smith and Wesson also made an additional 25,000 for the Government of Brazil. Even some of the British Webleys were adapted to use the half moon clips.

The 45 ACP has always been a popular cartridge for self and home defense, plus it is very popular as Pin Guns (for bowling pins) because of the large diameter bullet and controllable recoil. Smith and Wesson still offers the Model 625 (which can be used with or without clips) and Taurus offers a Model 455. Full moon clips (which holds all 5 or 6 rounds, depending on what the revolver requires) are available now. A different twist though is the Freedom Arms Model 83 Casull, which we used for data for this cartridge. This is a single action revolver which does not use half or full moon clips, but is loaded one round at a time in true single action fashion. This is the same revolver that the 454 Casull is chambered in and is a much stouter revolver than the S&W or Taurus.

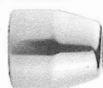
The Model 83 we used for testing purposes had cylinders fitted to it for 454 Casull, 45 Winchester Magnum, 45 Colt, and the 45 ACP and the accuracy was exceptional with the 45 ACP cylinder. All loads listed are safe for all the revolvers listed but ARE NOT SUITABLE FOR USE IN THE SEMI AUTOS. A normal taper crimp rather than a roll crimp which is normally used on revolver cartridges.

45 Auto (ACP) Revolver continued

#8800 .4515" 185 grain JHP
C.O.A.L. 1.212"



#8810 .4515" 185 grain FPJ Match
C.O.A.L. 1.155"



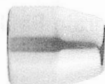
Powder/Velocity →	1000	1050	1100	1150	1200	1250	1300
Titegroup	5.5	6.2	6.9	7.6	8.2	8.9	9.6
American Select	5.1	5.6	6.1	6.6	7.0	7.5	8.0
Zip	6.8	7.1	7.3	7.6	7.8	8.1	8.3
Viht N330	6.6	6.9	7.2	7.5	7.8	8.1	8.4
Unique	6.7	7.2	7.6	8.1	8.5	9.0	9.4
Univ. Clays	6.2	6.6	6.9	7.3	7.6	8.0	8.3
Power Pistol	7.2	7.7	8.1	8.6	9.0	9.5	9.9
Silhouette	7.9	8.3	8.7	9.1	9.4	9.8	10.2
Viht N340	7.2	7.5	7.8	8.1	8.3	8.6	8.9
WSF	7.1	7.5	7.8	8.2	8.6	8.9	9.3
Viht 3N37	8.3	8.7	9.0	9.4	9.7	10.1	10.4
Energy/ft.lbs.	410	453	497	543	591	642	694

	Powder	Grains	Velocity	Ft. lbs.
Accuracy Load	Univ. Clays	8.0	1250	642
Hunting Load	Unique	9.4	1300	694

INDICATES MAXIMUM LOAD – USE CAUTION
LOADS LESS THAN MINIMUM CHARGES SHOWN ARE NOT RECOMMENDED.

45 Auto (ACP) Revolver continued

#8825 .4515" 200 grain FPJ Match
C.O.A.L. 1.155"



Powder/Velocity→	950	1000	1050	1100	1150	1200
Titegroup	5.2	5.6	5.9	6.3	6.6	7.0
American Select	5.2	5.7	6.1	6.6	7.0	7.5
Zip	6.0	6.3	6.7	7.0	7.4	7.7
Viht N330	6.5	6.8	7.1	7.4	7.7	8.0
Unique	6.7	7.0	7.3	7.7	8.0	8.3
Univ. Clays	6.2	6.5	6.7	7.0	7.2	7.5
Power Pistol	6.9	7.3	7.7	8.1	8.5	8.9
Silhouette	7.7	8.0	8.4	8.7	9.1	9.4
Viht N340	7.1	7.3	7.6	7.8	8.1	8.3
WSF	6.8	7.2	7.5	7.9	8.2	8.6
Viht 3N37	8.0	8.3	8.6	8.8	9.1	9.4
Energy/ft.lbs.	400	444	489	537	587	639

	Powder	Grains	Velocity	Ft. lbs.
Accuracy Load	WSF	8.2	1150	587
Hunting Load	Zip	7.7	1200	639

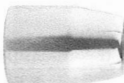
INDICATES MAXIMUM LOAD – USE CAUTION
LOADS LESS THAN MINIMUM CHARGES SHOWN ARE NOT RECOMMENDED.

45 Auto (ACP) Revolver continued

#8815 .4515" 230 grain FMJ Match
C.O.A.L. 1.270"



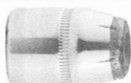
#8805 .4515" 230 grain JHP
C.O.A.L. 1.210"



Powder+Velocity→	900	950	1000	1050	1100
Titegroup	5.2	5.5	5.8	6.1	6.4
American Select	4.9	5.4	5.9	6.4	6.9
Zip	5.4	5.8	6.2	6.6	7.0
Viht N330	6.0	6.4	6.8	7.1	7.5
Unique	5.3	5.9	6.5	7.0	7.6
Univ. Clays	5.6	6.0	6.3	6.7	7.0
Power Pistol	7.6	7.8	7.9	8.1	8.2
Silhouette	6.9	7.3	7.6	8.0	8.3
WSF	6.5	6.9	7.3	7.6	8.0
Viht 3N37	7.6	7.9	8.2	8.5	8.8
Energy/ft.lbs.	413	461	510	563	618

	Powder	Grains	Velocity	Ft. lbs.
Accuracy Load	Viht N330	7.1	1050	563
Hunting Load	WSF	8.0	1100	618

#8820 .4515" 240 grain JHC
C.O.A.L. 1.200"

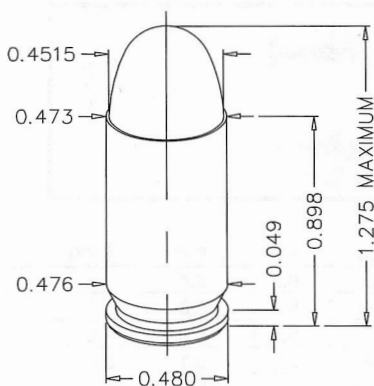


Powder+Velocity→	900	950	1000	1050	1100
American Select	5.0	5.5	6.0	6.5	7.0
Zip		5.6	6.1	6.6	
Viht N330	5.8	6.2	6.6	6.9	7.3
Unique	6.1	6.5	6.9	7.2	7.6
Univ. Clays	5.6	6.0	6.3	6.7	7.0
Power Pistol		7.7	7.9	8.1	8.3
Silhouette	6.6	7.1	7.5	8.0	8.4
WSF	6.4	6.8	7.2	7.6	8.0
Viht 3N37	7.7	8.0	8.3	8.5	8.8
Energy/ft.lbs.	431	481	533	587	644

	Powder	Grains	Velocity	Ft. lbs.
Accuracy Load	Unique	7.2	1050	587
Hunting Load	Univ. Clays	7.0	1100	644

INDICATES MAXIMUM LOAD – USE CAUTION
LOADS LESS THAN MINIMUM CHARGES SHOWN ARE NOT RECOMMENDED.

45 Auto (ACP)



Test Specifications/ Components

Firearm Used: Colt 1911 Gold Cup
National Match

Barrel Length: 5"

Twist: 1 x 16"

Case: Starline

Trim-to Length: 0.893"

Primer: Fed 150

Remarks:

Developed by John Browning in 1905, the 45 ACP was adopted by the U.S. military in 1911. Earning an enviable reputation for absolute reliability and dependable stopping power, the 45 remained our standard service side arm

until 1985. Replaced by the 9mm Luger, the 45 ACP was dropped due to the need for NATO standardization rather than any perceived shortcomings of the bigger round. Some indication of the 45's effectiveness is the fact that several elite units (who often have considerable latitude over what types of weapons they carry) have opted to retain the 45 ACP. At this writing, the 45 continues to soldier on with Navy SEALs, Army Special Forces and Delta team, among others. Its use in law enforcement circles has also increased dramatically in the past few years.

When it was originally designed, John Browning had envisioned a 200 grain bullet at approximately 900 fps, and early production 45 ammunition was loaded to these specifications. Army Ordnance wanted a heavier bullet — specifically, a variant of the 234 grain FMJ round-nose designed by Frankford Arsenal for the 45 Colt Revolver Ball Cartridge of 1909. The resulting hybrid was the 45 ACP "Hardball" load, consisting of a 230 grain FMJ at 810 fps. Handloaders, of course, have a variety of bullet weights available to them suitable for any conceivable use.

The 45 ACP is a true rimless design, headspacing on the case mouth. With its long tenure as our official pistol cartridge, the 45 ACP has received a tremendous amount of developmental work, making it one of our most thoroughly refined and accurate cartridges. During daily quality control testing in the Sierra range, 50-yard, ten-shot groups of less than 1.5 inches are routine. For accuracy work, fast-burning powders, such as Bullseye or W-W 231, are top choices. Medium-burning powders, such as Unique, Blue Dot and Accurate Arms #5, tend to give better velocities for the more potent loadings. Since it does headspace on the case mouth, we recommend nothing more than a slight taper crimp. Based on reloading die and component sales, the 45's future appears bright. It remains the darling of competitive bullseye shooters and still has a loyal following in the IPSC/USPSA community. Despite its retirement from active military duty, the 45 ACP will undoubtedly be with us for decades to come.

45 Auto (ACP) *continued*

#8800 .4515" 185 grain JHP

C.O.A.L. 1.212"



#8810 .4515" 185 grain FPJ Match

C.O.A.L. 1.155"



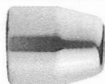
Powder↓/Velocity→	750	800	850	900	950	1000
Nitro 100	4.7	5.1	5.6	6.0	6.4	
Bullseye	4.2	4.6	4.9	5.3	5.6	
Titegroup	4.5	4.8	5.2	5.5	5.9	6.2
AA-No. 2		5.0	5.4	5.8	6.1	6.5
American Select	4.3	4.7	5.0	5.4	5.7	6.1
Viht N320	5.0	5.3	5.6	5.8	6.1	
231	5.1	5.4	5.7	6.0	6.3	
Zip	6.0	6.3	6.5	6.8	7.0	
700X	4.5	4.9	5.3	5.6	6.0	
Viht N330	6.0	6.3	6.5	6.8	7.0	7.3
AA-No. 5		8.3	8.8	9.3	9.8	10.3
Unique	5.7	6.1	6.5	6.9	7.3	7.7
Univ. Clays	5.8	6.0	6.2	6.4	6.6	6.8
Power Pistol	6.0	6.4	6.9	7.3	7.8	8.2
Silhouette	7.3	7.7	8.0	8.4	8.7	
Viht N340	6.1	6.4	6.7	7.0	7.3	
Herco	6.8	7.1	7.4	7.7	8.0	8.3
WSF	6.5	6.8	7.1	7.4	7.7	8.0
Viht 3N37	7.2	7.6	8.0	8.4	8.8	9.2
AA-No. 7	9.7	10.2	10.6	11.1	11.5	
Energy/ft.lbs.	231	262	296	332	370	410

	Powder	Grains	Velocity	Ft. lbs.
Accuracy Load	Titegroup	5.9	950	370
Hunting Load	Power Pistol	8.2	1000	410

INDICATES MAXIMUM LOAD – USE CAUTION
 LOADS LESS THAN MINIMUM CHARGES SHOWN ARE NOT RECOMMENDED.

45 Auto (ACP) continued

#8825 .4515" 200 grain FPJ
C.O.A.L. 1.155"



Powder+Velocity→	700	750	800	850	900	950
Bullseye	4.5	4.9	5.4	5.8		
Titegroup	4.3	4.6	4.9	5.2	5.5	5.8
American Select		4.2	4.6	5.0	5.4	5.8
Red Dot	4.7	5.0	5.4	5.7		
Viht N320	4.8	5.1	5.4	5.7	6.0	
231	5.0	5.4	5.7	6.1	6.4	
Zip		5.1	5.4	5.8	6.1	6.4
Green Dot	4.8	5.2	5.5	5.9	6.2	
Viht N330	5.5	5.8	6.0	6.3	6.5	6.8
AA-No. 5	8.0	8.3	8.6	8.9	9.2	9.5
Unique	5.2	5.6	6.1	6.5	7.0	7.4
Univ. Clays	5.6	5.8	6.0	6.2	6.4	6.6
Power Pistol	5.7	6.1	6.5	6.8	7.2	7.6
Silhouette	6.9	7.2	7.5	7.7	8.0	
Viht N340	5.8	6.1	6.4	6.7	7.0	7.3
Herco	6.5	6.8	7.2	7.5	7.8	
WSF	6.1	6.4	6.7	7.0	7.3	7.6
Viht 3N37	6.7	7.1	7.5	8.0	8.4	8.8
AA-No. 7	9.6	10.0	10.4	10.8	11.2	
Blue Dot	8.3	8.9	9.5	10.1	10.7	
Energy/ft.lbs.	217	249	284	320	359	400

	Powder	Grains	Velocity	Ft. lbs.
Accuracy Load	Zip	6.1	900	359
Hunting Load	WSF	7.6	950	400

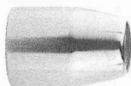
INDICATES MAXIMUM LOAD – USE CAUTION
LOADS LESS THAN MINIMUM CHARGES SHOWN ARE NOT RECOMMENDED.

45 Auto (ACP) *continued*

#8815 .4515" 230 grain FMJ Match
C.O.A.L. 1.270"



#8805 .4515" 230 grain JHP
C.O.A.L. 1.210"



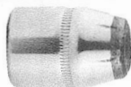
Powder+Velocity→	700	750	800	850	900
Nitro 100	4.9	5.2	5.4	5.7	
Bullseye	4.0	4.3	4.6	4.9	5.2
Titegroup		4.5	4.9	5.2	
AA-No. 2		5.3	5.6	5.8	
American Select		4.3	4.8	5.3	5.8
Red Dot	4.4	4.8	5.1	5.5	
Viht N320	4.7	5.0	5.2	5.5	
231		4.9	5.3	5.7	
Zip	4.7	5.0	5.4	5.7	6.0
700X	3.9	4.3	4.6	5.0	
Viht N330	4.9	5.3	5.6	6.0	6.3
AA-No. 5	7.6	8.1	8.5	9.0	
Unique	5.2	5.6	6.0	6.4	6.8
Univ. Clays	5.4	5.6	5.7	5.9	6.0
Power Pistol	5.4	5.9	6.4	6.8	7.3
SR7625	5.2	5.5	5.7	6.0	6.2
Silhouette	6.1	6.5	6.8	7.2	7.5
Viht N340	5.6	5.9	6.2	6.5	6.8
Herco	5.7	6.1	6.6	7.0	7.4
WSF		5.4	5.9	6.3	6.8
SR4756	5.8	6.2	6.7	7.1	7.5
Viht 3N37	6.3	6.8	7.2	7.7	8.1
AA-No. 7	8.9	9.4	9.8	10.3	10.7
Energy/ft.lbs.	250	287	327	369	413
	Powder	Grains	Velocity	Ft. lbs.	
Accuracy Load	Titegroup	5.2	850	369	
Hunting Load	Univ. Clays	6.0	900	413	

INDICATES MAXIMUM LOAD – USE CAUTION

LOADS LESS THAN MINIMUM CHARGES SHOWN ARE NOT RECOMMENDED.

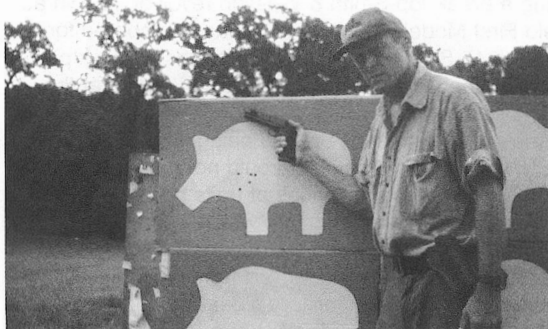
45 Auto (ACP) continued

#8820 .4515" 240 grain JHC
C.O.A.L. 1.185"



Powder+Velocity→	700	750	800	850	900
Bullseye	4.2	4.6	5.0	5.4	
231	4.8	5.1	5.4		
Red Dot	4.3	4.7	5.1	5.5	
Green Dot	4.8	5.2	5.6	6.0	
Unique	5.3	5.7	6.1	6.4	6.7
AA-No. 5	6.6	7.0	7.4	7.8	
Herco	5.7	6.1	6.5	6.9	7.3
Blue Dot			8.7	9.1	9.5
Energy/ft.lbs.	261	300	341	385	432

	Powder	Grains	Velocity	Ft. lbs.
Accuracy Load	Unique	6.1	800	341
Hunting Load	Herco	7.3	900	432



David Bradshaw with his 2.7" group at 100 yards from his Les Baer 45 ACP and the Sierra 230 grain JHC.

INDICATES MAXIMUM LOAD – USE CAUTION
LOADS LESS THAN MINIMUM CHARGES SHOWN ARE NOT RECOMMENDED.