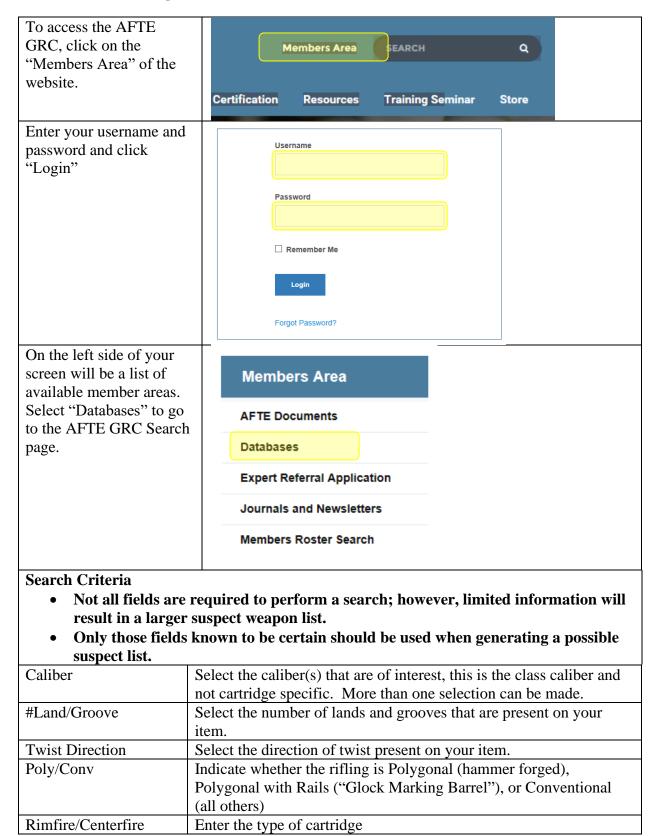


# AFTE Electronic Resources Database Search and Entry Procedures

# **Contents:**

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- II. General Rifling Characteristic (GRC) Submission Procedures
- **III.** Class Characteristics Matrix Search (Coming Soon)
- **IV.** Class Characteristics Matrix Entry (Coming Soon)

# I. General Rifling Characteristic (GRC) Search



Min Land Width	Enter the minimum land impression width that you have recorded				
3.6 T 1377 1.1	for your item.				
Max Land Width	Enter the maximum land impression width that you have recorded for your item.				
Min Groove Width	Enter the minimum groove impression width that you have recorded				
	for your item.				
Max Groove Width		Enter the maximum groove impression width that you have			
	recorded for y			-	
Search Range +/-	_	ncertainty that you would	d like to add	to you minimum	
		n measurements. This is			
	departmental		J		
Metric		nents can be entered usin	g either the	English or Metric	
		ing the metric system, ple			
Cartridge		licate the caliber, specific			
		is list. More than one sel	•		
Manufacturer	This is a list of	of firearm manufacturers	(generally n	ot used as part of	
	search parame				
Model	This is a list of	of firearm model (general	ly not used	as part of search	
	parameters).				
Firearm Type	For guidance	in selecting the appropria	ate firearm t	ype, refer to the	
	AFTE GRC Firearm Type Legend located at the top of the search				
	area. (generally not used as part of search parameters)				
<b>Printed Results Heade</b>	ers				
These fields can	n be used to cus	tomize the generated re	sults page(s	s) for use in your	
case notes.					
Name		nelp you customize your i		(s). Use them in	
Specimen	accordance w	ccordance with your laboratory's SOPs.			
Lab ID					
Case ID					
<b>Custom Results Fields</b>	5				
	n used the web				
Make Only	Selecting this	option produces the follo	owing table:		
User Search Parameters					
Cartridge:	Caliber: 38			Nidth Min:	
Manufacturer:	L/G: 9			Nidth Max:	
Model:	Twist: Left Groove Width Min:				
Firearm Type:	Poly/Conv: Cor Rim/Center:	nventional		e Width Max: h Range: 0.000	
	Killi/Celilel.		Sealti	Trange. 0.000	
Search Results					
Cartridge		Manufacturer		Firearm Type	
380 AUTO / 9mm KURZ		HI-POINT FIREARMS		PI	
9mm LUGER (9x19mm)		HI-POINT FIREARMS		RC	
9mm LUGER (9x19mm)		HI-POINT FIREARMS		PI	
Make and model	Selecting th	nis option produces the fo	llowing tab	le:	
	<del></del>		<del></del>		

User Search Parameters					
Cartridge: Manufacturer: Model: Firearm Type:	Caliber L/G: 9 Twist: L Poly/Co Rim/Ce	eft onv: Conventional		Land Width Min: Land Width Max: Groove Width Min: Groove Width Max: Search Range: 0.000	
Search Results Cartridge		Manufacturer	Model	Firearm Type	
380 AUTO / 9mm KURZ		HI-POINT FIREARMS	CF	PI	
380 AUTO / 9mm KURZ		HI-POINT FIREARMS	CF380	PI	
9mm LUGER (9x19mm)		HI-POINT FIREARMS	995	RC	
9mm LUGER (9x19mm)		HI-POINT FIREARMS	С	PI	
9mm LUGER (9x19mm)		HI-POINT FIREARMS	C9	PI	
Customized  The following criteria can be selected to be shown in your final result page(s):  1. Cartridge 2. Manufacturer 3. Model 4. Firearm Type 5. Country 6. Poly/Conv 7. Rim/Center 8. LG				l results	

9.

10.

11.

12. 13.

14.

15.

16.

17. 18.

19.

**Twist** 

Caliber

Notes

Min Land Width Max Land Width

Min Groove Width

Max Groove Width

Metric Min Land Width Metric Max Land Width

Metric Min Groove Width

Metric Max Groove Width

User	Search	<b>Parameters</b>

Caliber: 38 Cartridge: 1/G:9 Manufacturer: Twist: Left Model:

Poly/Conv: Conventional

Firearm Type: Rim/Center: Land Width Min: Land Width Max: Groove Width Min:

Groove Width Max: Search Range: 0.000

#### Search Results

Cartridge	Manufacturer	Model	Firearm Type	Country	LG	Twist	Caliber
380 AUTO / 9mm KURZ	HI-POINT FIREARMS	CF	PI	US	9	L	38
380 AUTO / 9mm KURZ	HI-POINT FIREARMS	CF380	PI	US	9	L	38
9mm LUGER (9x19mm)	HI-POINT FIREARMS	995	RC	US	9	L	38
9mm LUGER (9x19mm)	HI-POINT FIREARMS	С	PI	US	9	L	38
9mm LUGER (9x19mm)	HI-POINT FIREARMS	C9	PI	US	9	L	38

# **Output Format**

There are three different formats in which your results can be generated. This provides our members with several options so that they can select the one that best meets their needs.

Web This format produces a suspect weapons list generated below the GRC search criteria page within the website.

#### **User Search Parameters**

Caliber: 38 Cartridge: L/G: 9 Manufacturer: Twist: Left Model:

Poly/Conv: Conventional Firearm Type: Rim/Center:

Land Width Min: Land Width Max: Groove Width Min: Groove Width Max: Search Range: 0.000

## Search Results

Cartridge	Manufacturer	Model	Firearm Type
380 AUTO / 9mm KURZ	HI-POINT FIREARMS	CF	PI
380 AUTO / 9mm KURZ	HI-POINT FIREARMS	CF380	PI
9mm LUGER (9x19mm)	HI-POINT FIREARMS	995	RC
9mm LUGER (9x19mm)	HI-POINT FIREARMS	С	PI
9mm LUGER (9x19mm)	HI-POINT FIREARMS	C9	PI

## **PDF**

This format produces a suspect weapons list in PDF that includes the "Custom Headers" that you entered in your search page.

AFTE General Rifling Characteristics Database

Name: Erica Lawton Specimen: 1A

Jan 12 2017 Lab ID: 17-1234 Case ID: 17-01-1234

## **User Search Parameters**

Cartridge: Manufacturer: Model: Firearm Type:

Caliber: 38 L/G: 9 Twist: Left

Poly/Conv: Conventional Rim/Center:

Land Width Min: Land Width Max: Groove Width Min: Groove Width Max: Search Range: 0.000

Model Firearm Type

PI

RC

ы

CF

## Search Results

9mm LUGER (9x19mm)

Cartridge Manufacturer 380 AUTO / 9mm KURZ HI-POINT FIREARMS 380 AUTO / 9mm KURZ HI-POINT FIREARMS 9mm LUGER (9x19mm) HI-POINT FIREARMS 9mm LUGER (9x19mm) HI-POINT FIREARMS

CF380 995 С HI-POINT FIREARMS C9

DOC	This format produces a suspect weapons list in Microsoft Word that
	includes the "Custom Headers" that you entered in your search page. This
	version allows the user to add additional information into the word
	document

AFTE·General·Rifling·Characteristics·Database← Jan·12·2017<sup>™</sup>
Name: Erica·Lawton← Lab·ID:·17-1234
Specimen:·1A← Case·ID:·17-01-1234

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### User Search Parameters 1

 Cartridge: ←
 Caliber: 38 ←
 Land-Width-Min: ←

 Manufacturer: ←
 L/G: 9 ←
 Land-Width-Max: ←

 Model: ←
 Twist: Left ←
 Groove-Width-Min: ←

 Firearm-Type: ¬¤
 Poly/Conv: -Conventional ←
 Groove-Width-Max: ←

 Rim/Center: ¬¤
 Search-Range: 0.000 ¤

### Search Results¶

Cartridge¤	Manufacturer¤	Model™	Firearm Type 12	п
380-AUTO√9mm· KURZ¤	$HI\text{-}POINT\text{-}FIREARMS^{zz}$	CF <sup>12</sup>	$PI_{\square}$	Ω
380·AUTO√9mm· KURZ¤	$HI\text{-}POINT\text{-}FIREARMS^{rz}$	CF380¤	$PI^{\square}$	n
9mm LUGER· (9x19mm)¤	HI-POINT-FIREARMS <sup>22</sup>	995¤	RC <sup>22</sup>	Ω
9mm·LUGER· (9x19mm)¤	$HI\text{-}POINT\text{-}FIREARMS^{\alpha}$	$C^{\alpha}$	$PI^{m}$	Ω
9mm·LUGER· (9x19mm)¤	$HI\text{-}POINT\text{-}FIREARMS^{\text{\tiny CR}}$	C9¤	PI¤	Ω

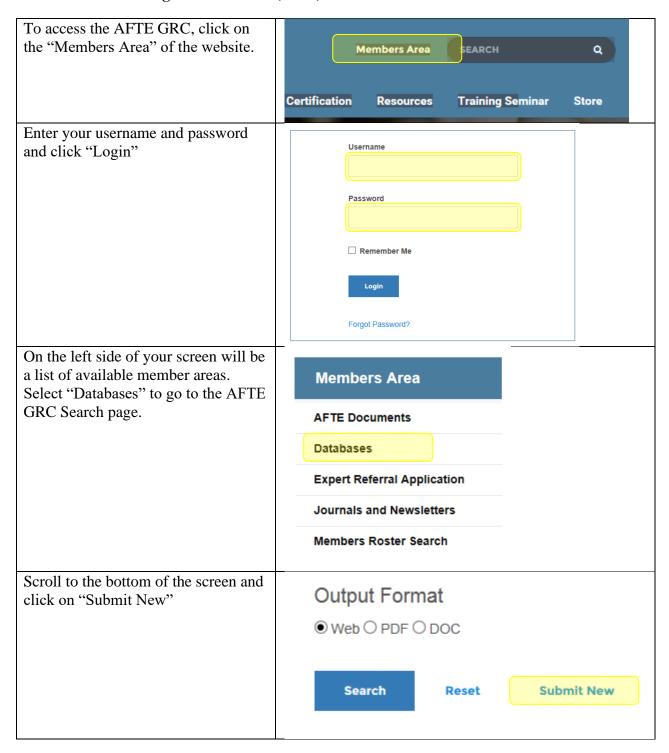
# **Footer Information/Version**

Accreditation and best practices for forensic science has become the standard by which we function. To comply with these standards, the AFTE GRC has included at the footer of your search results the version that you have used. This version numbering system is date based and will change as entries are made available in the system.

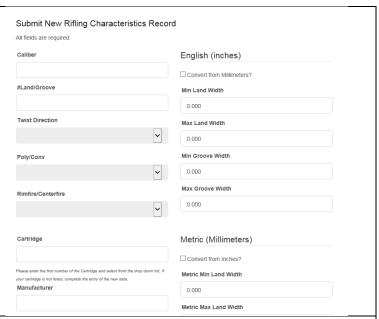


Notice: The data used in this database was originally compiled from the 2010 FBI Laboratory General Rifling Characteristic database. As of 2016, this database is maintained and updated by the AFTE Electronic Resource Committee. The user acknowledges that this is an investigative aid, and AFTE assumes no responsibility or liability for the use of this database. AFTE GRC Database v. 1.0-06302016

# II. General Rifling Characteristic (GRC) Submission Procedures



Once "Submit New" has been selected an additional portion of the screen will appear below the action button.



- Begin entering the appropriate information into the submission form.
- Please refer to the AFTE Training Manual, AFTE Glossary and the NIJ training guide on the proper delineations when measuring the land and groove impression widths.
  - All land and groove impressions present on the standards should be measured and the minimum and maximum of each recorded in the form.
  - The entry data will be verified by another examiner to ensure the quality of the entries.

Caliber	Select the class caliber of the bullet. The specific cartridge caliber will be
	entered in a further step.
#Land/Groove	Select the number of lands and grooves that are present on your item
Twist Direction	Select the direction of twist present on your item.
Poly/Conv	Indicate whether your item is polygonally (hammer forged) or
	conventionally (all others) rifled
Rimfire/Centerfire	Select the type of cartridge that your bullet was fired from.
Min Land Width	Enter the minimum land impression width that you recorded from your
	bullet in either the inches section or the metric section; whichever
	measuring system that you used.
Max Land Width	Enter the maximum land impression width that you recorded from your
	bullet in inches in either the inches section or the metric section; whichever
	measuring system that you used.
Min Groove Width	Enter the minimum groove impression width that you recorded from your
	bullet in inches in either the inches section or the metric section; whichever
	measuring system that you used.
Max Groove	Enter the maximum groove impression width that you recorded from your
Width	bullet in inches in either the inches section or the metric section; whichever
	measuring system that you used.
Cartridge	Specify the cartridge caliber.
Manufacturer	Indicate the Manufacturer of the reference firearm.

Model	Indicate the Model of the reference firearm.
Firearm Type	Select the type of firearm that describes your reference firearm
Notes	This should only be used to document something unusual about your entry.
	If this is a Privately Manufactured Firearm, this should be noted.
Once you are	
finished with your	
entry and have	
verified the	
information is	
accurate, select the	Save Reset
"Save" button.	

• After you have made your submission, send at least 2 bullets and cartridge cases (indicating which one was used for your entry) to the following address for our QA Sub-committee to verify the information:

Laura Hollenbeck Western Laboratory Virginia Department of Forensic Science 6600 Northside High School Rd Roanoke, VA 24019

- Once your entry has been verified by the QA sub-committee it will automatically be entered into the main database available for searches.
- Note: once the entry is placed in the main database the version number that appears in the footer of your searches will automatically be updated to reflect the latest version.