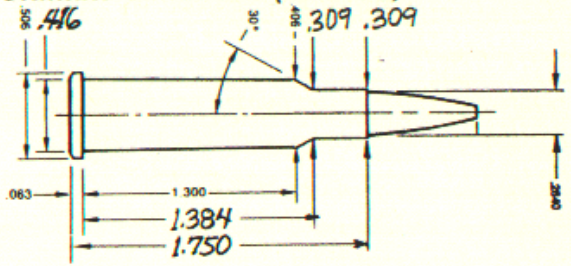
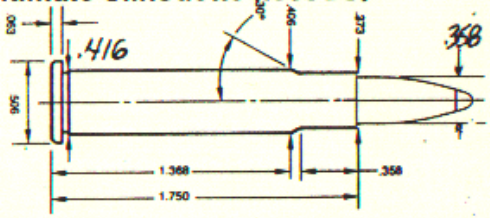
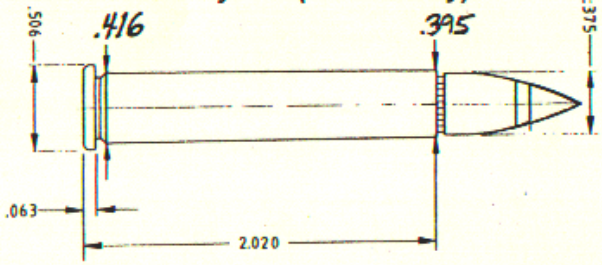
7mm Ultimate Silhouette (7mmUS)



.358 Ultimate Silhouette (.358US)



.375 Winchester Hybrid (.375 WinHy)



Information Disclaimer

Dimensions and Data in this pamphlet are for reference purposes only. No promises, claims, or guarantees are offered or implied by any of the information contained herein. This is not a complete reloading manual. Use this data at your own risk.

Recommended Reading

We recommend purchasing a complete reloading manual such as the Sierra 4th Edition Rifle and Pistol volumes. These manuals describe the complete reloading process and give valuable reloading data on far more cartridges. Sierra manuals are $24.95 each. Order From E. Arthur Brown Company.

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E. ARTHUR BROWN Company

Reference Pamphlet

For EABCO Custom Cartridges

.219 Donaldson Wasp
6mm Ultimate Silhouette
6.5mm Ultimate Silhouette
6.5mm Bench Rest Magnum
7mm Ultimate Silhouette
.358 Ultimate Silhouette
.375 Winchester Hybrid

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3404 Pawnee Drive, Alexandria, MN 56308 USA
Ph. 320/762-8847, FAX 320'763-4310

What We Mean When We Say...

Tight Chambered, Efficient Cartridges

Tight Chambers - Our reamers are dimensioned to fit actual commercial brass, which is usually quite a bit smaller than SAAMI specs. For example, the SAAMI specified dimension for the web area of 30-30 brass is .421inch. Actual brass and commercial ammunition has a dimension of .414-.416 inch in the web. Cartridges that fit properly tight allign better with the bore, headspace more consistently, give optimum accuracy and brass life. Our freebore is cut to allow bullet seating close to the rifling so bullets stay alligned as they pass from the case neck into the rifling.

Hunting Considerations- Our tight chambers offer optimum accuracy for hunters who want the very best. By intentional design, there is proper room for expansion of brass on firing... with emphasis on "proper". A properly executed "tight" chamber is neither too large nor too small. Some will argue that oversize chambers are better for hunting because they'll accept dirty ammo. This seems like a ridiculous compromise when keeping ammo clean is a a simple matter... and who would want to fire grit covered bullets through a match grade barrel? Yes, oversized chambers will tolerate hotter loads simply because there is more room for expansion. But an efficient, tight chamber will usually come within 100 fps of an overbore, oversize chamber. More importantly, it will offer all of the accuracy advantages you need for that...

"Shot Of A Lifetime"

"Efficient" Cartridges- A cartridge which is full of powder when it contains a charge that burns within the length of the gun barrel. A full case also presents a consistently shaped charge for the primer to ignite which translates to more consistent velocities. Efficient cartridges tend to build pressure faster and get more velocity from less powder. Performance of efficient cartridges is further enhanced by the shape of the cartridge. For example, the 30 degree shoulder is a shape characteristic that has been proven superior in Bench Rest cartridges.

"Overbore" In Pistols- A gun barrel can efficiently burn a certain amount of powder within its length. Thereafter, significant increases in powder give minimal returns in velocity and produce recoil/fireball characteristics which harm accuracy. The overbore situation is fairly common in pistol length barrels which fire rifle cartridges. These cartridges can be loaded to partial capacity, within the powder burning capability of the gun barrel and give excellent performance. This is especially true of a longer, 14-15 inch, tight chambered, airgauged, match grade barrel (Our 15" 30-30, 7-30 Waters, and 6.5mmBRM barrels are excellent performers).

No Tricks or Magic- There's no "Secret Method" in our product. Firearms have been around long enough that accuracy technology is well known and understood. We simply apply this technology with tender loving care and the results are excellent.

We chamber these special cartridges and many more in BF Falling Block Pistols and Custom Contender Barrels. We have Custom Brass for .219 Donaldson Wasp, 7mmUS, 7-30 Waters, 30 Herrett, & .375 Winchester/.375 WinHy. We have custom a standard reloading dies at excellent prices.

Order From E. Arthur Brown Company

Ph. 320/762-8847. FAX 320/763-4310

5 Shots at 200 Meters
6.5mm Ultimate Silhouette
BF Ultimate Silhouette Pistol
Shot by Steve Riddle

Acknowledgements

I'd like to thank Carroll Pilant of Sierra Bullets for the cartridge drawings. A picture is worth a thousand words and being able to put our dimensions onto a nice drawing was a generous help to the creation of this pamphlet. Several people contributed to the loading data portion: Jim Heising, Jerry Greg, Tom Acheson, Tom Leibold, Tom McKnight (a bunch of "Toms"), James Haarmeyer, Chuck Hurt, and Steve Riddle - Eben Brown, Editor

.219 Donaldson Wasp (.219DW)

The Original "Bench Rest" Cartridge & Foundation for our Ultimate Silhouette (US) Series of Competition and Hunting Wildcats.

In 1935 a fellow named Harvey Donaldson began work on developing a more accurate and efficient .22 centerfire cartridge. He experimented with case capacities and shoulder angles in an attempt to find something as close to perfect as possible. By 1941, he had created the .219 Donaldson Wasp, a cartridge with 1/3 less case capacity than the 22-250 while giving the same velocity*. The accuracy, efficiency, and performance of the .219 DW drove it to popularity among shooters in the flegling "Bench Rest" competitions across the country.

Not surprisingly, modern-day Bench Rest cartridges such as the 22BR, 6mmBR, 7mmBR, etc. have the same 30 degree shoulder and case capacity as the original .219 DW. Perhaps this is the reason the late Mr. Donaldson is often refered to as, "The Godfather of Bench Rest Shooting". Quite a performer, the .219 Donaldson Wasp has become one of our most popular chamberings in BF pistols and custom Contender barrels.

Thanks to Jim Heising for the loading data in this pamphlet. His is the only data for 15" barrels that I've seen. Sierra Rifle manual 3rd edition lists .219DW loading data for a rifle length barrel. So does the Hornady 4th edition.

Redding Reloading dies for .219 Donaldson Wasp are $55. Custom made .219 Donaldson Wasp brass is only $27/100. Order from E. Arthur Brown Company.

**Mr. Donaldson's test results. Modern loading manuals show lower .219DW velocities.*

6mm Ultimate Silhouette (6mmUS)

The 6mmUS is also known as 6mm Wasp. It is simply a 6mm version of the .219 Donaldson Wasp. Keeping in mind the near identical case capacity and 30 degree shoulder angle, 6mmUS offers similar performance to the 6mmBR... only in a cartridge you can chamber in BF and Contender firearms.

Brass is formed from our custom .219 Donaldson Wasp brass ($27/100). Simply size a .219DW case in the 6mmUS die and it becomes a 6mmUS case. Redding Reloading dies for 6mmUS are custom made and cost $97 a set. Order from E. Arthur Brown Company.

6.5mm Ultimate Silhouette (6.5mmUS)

At the '94 IHMSA Internationals Tom Leibold and Tom McKnight suggested BF Ultimate Silhouette pistols chambered in a 6.5mm version of our 7mmUS cartridge. It's now two years since then, and the 6.5mmUS has become a close second to the 7mmUS in popularity.

Accuracy potential of the 6.5mmUS is astounding. 6.5mm fans have always felt there is something magical about the caliber. Customer comments and groups shot on paper tend to confirm that magic. Jerry Greg shot a 40/40 his first time out with his new BF Ultimate Silhouette and several 40's in a row thereafter. A more recent 5 shot group sent in by Steve Riddle measures .910 inch... shot at 200 meters with a BF 6.5mm Ultimate Silhouette pistol!

Many thanks to Jerry Greg, Tom Leibold, Tom McKnight, Steve Riddle and others for assisting in the development of this cartridge. Most of the load data presented here was developed by Jerry Greg.

Brass for 6.5mmUS is formed from our custom 7mmUS brass ($25/100). Simply size a 7mmUS case in your 6.5mmUS sizing die and it becomes a 6.5mmUS case. Reloading dies are custom made for EABCO and cost $49.95 a set. Order from E. Arthur Brown Company.

6.5mm Bench Rest Magnum (6.5mmBRM)

Designed as hunting cartridge, the 6.5mmBRM features the .219DW Bench Rest shape and 30 degree shoulder angle. But the case is longer for more powder capacity. The original concept was to apply Bench Rest accuracy, efficiency and performance to a magnum hunting cartridge.

Load testing so far has been in a 15" BF Glass Eye Hunting pistol. However, the case capacity should lend itself quite nicely to carbine and rifle length barrels.

Brass is formed from our custom 7-30 Waters brass. Simply full length size a 7-30 Waters case in the 6.5mmBRM sizing die and it turns into 6.5mmBRM brass. Reloading dies are custom made for EABCO and cost $49.95. Order from E. Arthur Brown Company.

7mm Ultimate Silhouette (7mmUS)

When we began production of our BF Falling Block Pistols, the most popular cartridges in IHMSA silhouette competition were the rimless 7mmTCU and 7mmBR. Our BF ejector is designed for rimmed cartridges, so we couldn't offer those chamberings. There were plenty of rimmed "substitutes", but we wanted to offer a rimmed cartridge that would stand on its own merits.

A chance encounter with some writings of the late Harvey Donaldson, introduced me to the .219 Donaldson Wasp. I expanded the .219DW neck to 7mm and it looked like exactly the cartridge we needed in our redesigned competition pistol, the BF "Ultimate Silhouette". We applied our tight chamber approach to enhance cartridge allignment and brass life. Subsequent load testing showed the new cartridge to be extremely fast, efficient, and accurate with most loads. We then developed a way to produce the brass economically. At last we had a Bench Rest quality cartridge to compliment our new silhouette pistol. We named it "7mm Ultimate Silhouette".

I'd like to thank the many competitive shooters who have contributed to the development and reputation of the 7mmUS cartridge: James Haarmeyer, Tom Acheson, Jerry Bruce, Chuck Hurt, Bob Brissette, Marty Flack, George Kirby,... the list continues to include many good customers and friends.

A special thanks to Carroll Pilant and Sierra Bullets who purchased a BF Ultimate Silhouette, worked up their own loading data for 7mmUS, and published it in the latest Sierra reloading manual.

Brass for the 7mmUS is $25/100. Reloading dies are custom made for EABCO and cost $49.95. Redding Reloading dies are also custom and cost $97. Sierra Handgun Reloading Manual is $24.95. Order from E. Arthur Brown Company.

.358 Ultimate Silhouette (.358US)

The .358US is actually a slightly different way of doing the original .357 Herrett cartridge. As it turns out, the .357 Herrett has virtually the same case dimensions as our 7mmUS including the 30 degree Bench Rest shoulder. It's too exact to be accidental. Steve Herret must have been looking at the .219 Donaldson Wasp when he designed this cartridge.

The idea for making over the Herrett came from discussions with Robin Blakely, the maker of Wyoming Bonded bullets. He has a bonded 150 grain spitzer that stays together in game while delivering double diameter expansion! What we've done with the .358US is to apply three changes: Our tight chamber approach making the web area of the chamber fit the web area of actual brass, a shallow angled leade to facilitate spitzer style bullets, and a rifling twist to suit hunting weight bullets and enhance velocity.

Brass for the .358US/.357 Herrett is easily made from our custom 7mmUS brass ($25/100). Simply size a 7mmUS case in the .357 Herrett sizer and it turns into a .358US/357Herrett case. Redding Reloading dies are standard .357 Herret dies and cost $55. Order from E. Arthur Brown Company.

.375 Winchester Hybrid (.375 WinHy)

The original .375 Winchester uses a 1:12 rifling twist with a SAAMI spec (large) chamber. Velocities and accuracy are acceptable but not optimum.

The old 38-55 Winchester/Ballard Scheutzen rifles fired .375 bullets with 1:18 rifling and were tack drivers. Our barrelman, Fred Smith came up with the idea of doing .375 Winchester as a tight chambered hybrid with the Ballard 1:18 twist. The result is a very efficient, high performance cartridge we call the .375 Winchester Hybrid or .375 WinHy.

We recommend our custom .375 WinHy brass. It's made from 30-30 cases and there's about a 2-3 grain increase in powder capacity. Efficiency is good with the case being full of powder to the base of the bullet. Velocities run about 200 fps faster than possible with .375 Winchester... expect 2100-2200 fps with 225-235gr. bullets in 15" barrels. Load data in this pamphlet is a little slower as it was worked up on a 12" barrel. Accuracy is excellent.

We haven't done any load testing with heavier bullets. The Speer 235gr. Semi-Spitzer works well for load testing and sighting in. For hunting we recommend the Wyoming Bonded 225gr. Spitzer. The standard .375 WinHy chamber is throated tight to keep 225-235gr. bullets close to the rifling. If you want to shoot heavier bullets or longer bullets, ask for the "X-Throat" or send in a dummy round when ordering your barrel or gun.

Custom .375 WinHy brass is $25/100. Redding Reloading dies are $40. Order from E. Arthur Brown Company.

.219 Donaldson Wasp

Gun: BF Varminteer — **Barrel Length: 15"**
Maximum Cartridge Length: 1.813" — **Trim To Length: 1.803**
Primer: Rem 9½, Fed 210, CCI-BR2 — **Brass: EABCO/Winchester**

Starting 10% Below These Loads				Maximum Loads		
Bullet	*Powder*	*Grains*	*Velocity*	*Powder*	*Grains*	*Velocity*
40 gr.	VV-135	28.0	2775	VV-135	31.0	3448
50 gr.	IMR-4320	28.0	2702	IMR-4320	30.0	3025
	VV-135	26.0	2625	VV-135	30.0	3271
52 gr.	IMR-4320	28.0	2595	IMR-4320	30.3	2840

6mm Ultimate Silhouette (6mm US)

Gun: BF Varminteer — **Barrel Length: 15"**
Maximum Cartridge Length: 1.750" — **Trim To Length: 1.740**
Primer: Rem 9½ — **Brass: EABCO/Winchester**

Starting 10% Below These Loads				Maximum Loads		
Bullet	*Powder*	*Grains*	*Velocity*	*Powder*	*Grains*	*Velocity*
60 gr.	H322	28.0	2900	H322	31.0	3200
	BL-C(2)	34.0	2900	BL-C(2)	35.0	3150
70 gr.	H322	26.5	2700	H322	29.5	3000
	BL-C(2)	33.0	2800	BL-C(2)	36.0	3050
80 gr.	H322	25.0	2500	H322	27.5	2750
	BL-C(2)	32.5	2700	BL-C(2)	35.0	2900

6.5mm Ultimate Silhouette (6.5mm US)

Gun: BF Ultimate Silhouette — **Barrel Length: 10¾"**
Maximum Cartridge Length: 1.750" — **Trim To Length: 1.740**
Primer: Fed210, WinLR — **Brass: EABCO/Winchester**

Starting 10% Below These Loads				Maximum Loads		
Bullet	*Powder*	*Grains*	*Velocity*	*Powder*	*Grains*	*Velocity*
120 gr.	AA2520	28.5	2114	AA2520	30.0	2176
	AA2460	28.0	2046	AA2460	29.0	2127
	AA2230	28.0	2127	AA2230	28.5	2170
	AA2015	27.0	2147	AA2015	28.0	2241
	H322	27.0	2130	H322	28.0	2213
	H335	28.0	2152	H335	29.0	2202
	W748	30.0	2134	W748	31.5	2222
	BL-C(2)	31.7	2143	BL-C(2)	32.1	2174
	AA2495	27.0	2055	AA2495	29.1	2197
	IMR-4320	29.0	2035	IMR-4320	29.6	2153
	IMR-4895	28.9	2063	IMR-4985	29.5	2169
140 gr.	IMR-4895	25.0	1867	IMR-4895	26.0	1919
	BL-C(2)	26.5	1857	BL-C(2)	27.5	1930
	AA2495	24.5	1852	AA2495	25.5	1928
	H322	22.5	1845	H322	23.0	1872
	W748	27.5	1949	W748	28.0	2004
	H335	25.3	1966	H335	25.7	1962
	AA2520	27.0	1929	AA2520	27.5	1986
	H4895	23.0	1801	H4895	23.5	1842
	IMR-4320	26.0	1905	IMR-4320	26.5	1955
160 gr.	BL-C(2)	24.5	1658	BL-C(2)	26.0	1756
	AA2460	23.5	1686	AA2460	25.0	1787
	AA2520	24.0	1698	AA2520	25.5	1817

Use These Data At Your Own Risk... For Reference Only

6.5mm Bench Rest Magnum (6.5mm BRM)

Gun: BF Glass Eye Hunter
Maximum Cartridge Length: 1.980"
Primer: CCI-LR
Barrel Length: 15"
Trim To Length: 1.970"
Brass: EABCO/Winchester

Starting 10% Below These Loads				Maximum Loads		
Bullet	Powder	Grains	Velocity	Powder	Grains	Velocity
120 gr.	VV140	31.0	2150	VV140	34.0	2400
	IMR-4320	30.0	2050	IMR-4320	34.0	2300
	IMR-4350	35.0	2130	IMR-4350	39.0	2370
140 gr.	VV140	29.0	1958	VV140	32.0	2200
	VV160	35.0	2080	VV160	38.5	2264
	IMR-4320	29.0	1940	IMR-4320	32.0	2192

7mm Ultimate Silhouette (7mm US)

Gun: BF Ultimate Silhouette
Maximum Cartridge Length: 1.750"
Primer: CCI-LR
Barrel Length: 10¾"
Trim To Length: 1.740"
Brass: EABCO/Winchester

Starting 10% Below These Loads				Maximum Loads		
Bullet	Powder	Grains	Velocity	Powder	Grains	Velocity
120 gr.	AA2015	27.0	1979	AA2015	30.0	2149
	H322	27.5	1975	H322	20.0	2235
140 gr.	AA2015	26.0	1813	AA2015	28.0	1943
	H322	26.0	1864	H322	27.0	1954
	VV133	25.5	1843	VV133	28.4	2052
150 gr.	AA2015	26.0	1852	AA2015	27.0	1952
	AA2460	26.0	1576	AA2460	27.0	1773
	AA2495	26.0	1695	AA2495	28.0	1834

.358 Ultimate Silhouette (.358 US)

Gun: BF Glass Eye Hunter
Maximum Cartridge Length: 1.750"
Primer: CCI-LR
Barrel Length: 15"
Trim To Length: 1.740"
Brass: EABCO/Winchester

Starting 10% Below These Loads				Maximum Loads		
Bullet	Powder	Grains	Velocity	Powder	Grains	Velocity
125 gr.	H4227	29.0	2450	H4227	33.0	2650
	H110	26.0	2350	H110	29.5	2550
158 gr.	H4227	27.0	2200	H4227	30.0	2350
	H110	24.0	2100	H110	28.0	2350
180 gr.	H4227	24.0	1800	H4227	27.0	1950

.375 Winchester Hybrid (.375 WinHy)

Gun: BF Glass Eye Hunter
Maximum Cartridge Length: 2.020"
Primer: CCI-LR
Barrel Length: 12"
Trim To Length: 2.010"
Brass: EABCO/Winchester

Start 10% Below These Loads				Maximum Loads		
Bullet	Powder	Grains	Velocity	Powder	Grains	Velocity
235 gr.	AA2015	40.0	1801	AA2015	42.0	1957
	IMR-4198	34.5	1820	IMR-4198	36.5	1939

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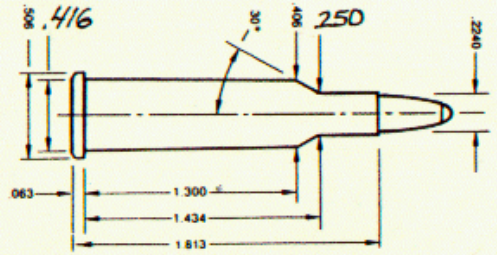
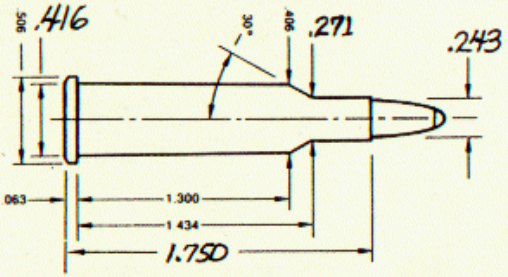
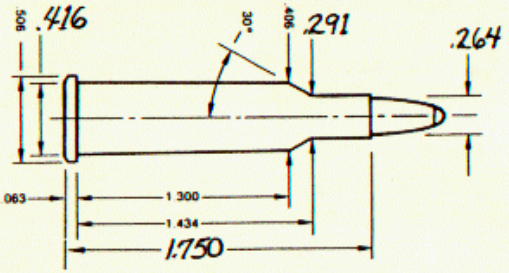
.219 Donaldson Wasp (.219DW)



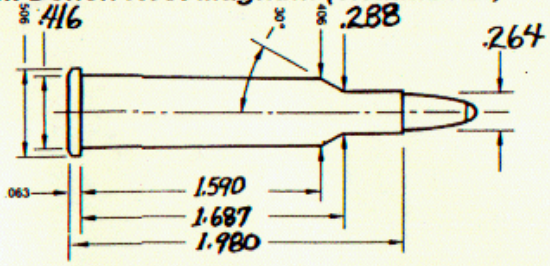
6mm Ultimate Silhouette (6mmUS)



6.5mm Ultimate Silhouette (6.5mmUS)



6.5mm Bench Rest Magnum (6.5mmBRM)



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