

Ballisticard® Systems

Custom order form – Turn around time for delivery is usually 1 to 2 weeks.

We will need the following information in order to develop your system. If you wish, we can provide helpful recommendations that will make the process easy and informative. Give us a call: 9 AM to 5 PM Pacific Standard Time at 1-805-461-3954. **Before calling**, please check out the “Frequently Asked Questions” section below.

Cartridge information:

Caliber:	Ammunition brand (if factory ammunition):				
Bullet description (brand & type):				Weight:	- Grains
Ballistic coefficient of bullet (if known):					
Powder brand & type (handloads only):				Weight:	- Grains
Barrel length:	Inches	Sight Height:	Inches	<input type="checkbox"/> Use standard sight height of 1.5 Inches	
Velocity:	fps	Factory ammo - use published velocity		<input type="checkbox"/> N/A	<input type="checkbox"/> No <input type="checkbox"/> Yes
If applicable, modify factory ammo velocity specs to conform to customer's barrel length:			<input type="checkbox"/> N/A	<input type="checkbox"/> Yes	
If ammunition was chronographed, what was the temperature at that time?		<input type="checkbox"/> N/A	- degrees Fahrenheit		
If applicable, list additional chrono data (temps/vel):		°F	fps	°F	fps
Temperature: Set for my chrono temp(s)	<input type="checkbox"/> Yes	Use standard system specs (for mid-temp range of 59°F):		<input type="checkbox"/> Yes	
Elevation:	feet above Sea Level.	Use standard system specs (Sea Level):		<input type="checkbox"/> Yes	
Barometric pressure:	Inches	Use standard system specs (29.53 inches B.P.):		<input type="checkbox"/> Yes	
Humidity:	%	Use standard system specs (78% humidity):		<input type="checkbox"/> Yes	
<input type="checkbox"/> Personalize with customer's name.		Name desired on cards (space is limited):			
Comments:					

Option #1 - “Original” Ballisticard® formats as pictured on web site.

- Hunter** - includes moving target leads for deer, elk and antelope - ¼ MOA scope clicks are standard.
 - Varmint** - includes moving target leads for coyote - ¼ MOA scope clicks are standard.
 - Tactical / Military** - includes moving target leads for personnel. Sight adjustment options: ¼ MOA or 1 MOA
 - * **Select your Range, Increments and Zero**
 - Short-range Hunter and Tactical options:** 300 yard range, 25 yard increments, 100 or 200 yard zero.
 - Mid-range Hunter, Tactical and Varmint options:** 500 yard range, 50 yard increments, 100, 200 or 300 yard zero.
 - Long-range Tactical / Military options:** 1,000 yard range, 100 yard increments, 100, 200, 300 or 600 yard zero.
- Note: These options are available as single or multiple temperature/card calculations. See prices below**

Option #2 - *New “A2/D2” Ballisticard® formats as pictured on web site.

- Designed for Military, Police and Long Range Competitors - Call for additional details and optional “zero” information. Front of cards provide Elevation and Wind Deflection data and back has mil-scale formulas and other useful data.
- Alpha 2** Range goes to **500 yd** in 25 yd increments, 100 yd zero - Data is in Inches, Mils, ¼ MOA “clicks” and full MOA.
 - Delta 2** Range goes to **1000 yd** in 50 yd increments, 100 yd zero - Data is in Inches, Mils, ¼ MOA “clicks” and full MOA.
- Note: These options are available as single or multiple temperature/card calculations. See prices below**

Prices:

- “Original” format for single-temp range - includes duplicate card @ \$39.95 + \$3.50 H&S
 - A2 or D2 formats for single-temp range - includes duplicate card @ \$39.95 + \$3.50 H&S
 - Multiple-temperature range sets (Original, A2, D2): First temp @ \$39.95 / \$39.95 for each additional temp + \$3.50 H&S. Includes duplicate set. How many temps do you want cards calculated for (total) ____
 - Extra copies of singles or sets @ **\$4.95 per card**: Extra Singles ____ Extra Sets ____ (no additional H&S)
- Notice:** For duplicate cards not ordered at time of initial purchase there will be an additional \$10.00 service charge.

Subtotal:	Name:
7.25% sales tax (Calif. Only)	Address:
Handling & Shipping:	
Total:	Phone: Fax:
	E-mail:
<input type="checkbox"/> Visa <input type="checkbox"/> MC <input type="checkbox"/> Discover	Card # Expires:
*Include last three digits of security code from back of credit card:	
Phone: 1-805-461-3954 / Fax (805) 461-3954 / E-mail: info@ballisticards.com	
Schwiebert Precision, P.O. Box 74, Atascadero, CA 93423	

Confused, can't decide, have questions? Call 1-805-461-3954 / E-mail: info@ballisticards.com

Frequently asked questions

How do I measure my sight height?

This is one of the most frequently asked questions. The second is: “How important is it?” I will briefly address both of these issues for you.

There are two common ways to measure sight height. The easiest is to remove the bolt from the rifle and to insert a cleaning rod guide. Then take a common ruler and measure from the center of the bore guide to the center of the rear scope lens. That will give you a reasonable estimate of your sight height. That’s all there is to it.

The second and more precise way to measure sight height is accomplished by taking three measurements, using dial calipers:

1. First, measure the outer diameter of the front scope housing where it bells out to its largest diameter (widest outer area of the front objective of the scope). Divide that number by two to get the radius. Write the number down.
2. Next, put the back side of the calipers against the front objective end of the scope and slide it down perpendicular to the barrel. Then, measure the diameter of the barrel, directly below the front end of the scope. Divide that number by two to get the radius. Write the number down.
3. Finally, measure the gap between the bottom of the front end of the scope and the top of the barrel directly below it. Do not divide that number. Write it down and add the three numbers to get the sight height, from center of bore to center of scope. It’s really quite simple! The most common sight heights run from about 1.5 to 1.8 inches above center of bore.

Do not get overly concerned with this measurement. An error of even as much as 1/10 of an inch will be negligible in point-of-impact error, even at 1000 yards. Just do the best you can. Some people like to measure with calipers and then do a quick confirmation check with a ruler, to make sure the measurements are similar. Using just a ruler is adequate.

How do I measure my barrel length? For bolt action rifles, measure from the little vent hole that is about one inch in front of the ejection port, to the end of the muzzle. This should not include the length of a muzzle brake, flash or sound suppressor.

I don’t have a chronograph. How accurate are the velocities listed in reloading manuals? They are usually close, and should be adequate for data cards to 500 yards. However, make sure the test barrel used was the same length as yours. If not, we need to know so we can make the necessary velocity adjustment(s). We use published SAAMI guidelines for compensation.

How accurate are the velocities as published by ammunition manufacturers? Again, they are usually close. However, each individual rifle barrel will perform a little differently, some shoot faster and some slower. Also, with factory ammunition, as with reloading manual data, you need to know the length of the test barrel that was used. That information is usually included in the manufacturer’s brochure. You should also know that ammunition velocities can vary somewhat from lot to lot.

What about humidity and barometric pressure? If you can’t find the average humidity and barometric pressure for your shooting area, or if you move around a lot, we recommend that you go with the old standard of 78% Humidity and 29.53 BP. Just check the appropriate boxes in the “Cartridge Information” section on the order form. To determine the average specifications for your area, you can check with your local Chamber of Commerce, weather bureau or airport.

How much accuracy should I realistically expect from a ballistics data card? A data card is only as good as the initial data provided for the calculation – your input. If you chronograph your load, note the temperature and be sure to keep your ammunition out of the sun! Do not leave a round sitting in a hot chamber! Temperatures affect velocity! If you provide accurate data, your card will be right on or extremely close for the conditions it was calculated for. However, the farther you deviate from those conditions, the more error you will see. There is no way of getting around that fact! This is of minimal concern to a distance of about 500 yards, beyond that, expect it to grow. How much the error will grow depends on how much the conditions change. Environmental conditions are continuously changing. However, you must have basic ballistics data to work from. Without it, you are just guessing and results will be poor.

If you shoot beyond 500 yards, it is very helpful to have cards calculated for each of the temperature ranges you anticipate shooting in. That will take care of one of the most critical variables. For best results, and to take some of the “guess work” out of the equation, you should chronograph your ammunition in each of those temperature ranges.