

Firearm CYOA

You are a new firearms company looking to make your first new product. There are numerous methods, techniques and potential features, and it is up to you to choose the best ones.

Layout:

There are two different layouts that exist. Pick one Layout.



Standard

The most common and easiest to manufacture, it has enjoyed the longest reign in firearm history. It is easily modified or adjusted to fit most users.

+2 Handling



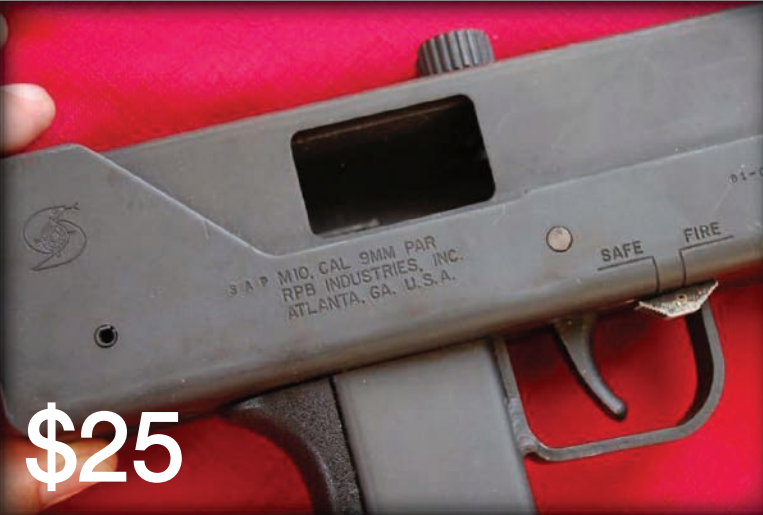
Bullpup

Relatively new in firearms, it combines a long barrel length with a short overall length in an unconventional package.

-1 Weight
+1 Handling

Material:

There are three different materials and build types used to make receivers. The cost to manufacture these along with any of the benefits will vary. Pick 1 of these Materials.



Stamped Metal

Cheap to make, thin and lightweight, held together with rivets and welds. It is the method of choice for 2nd-World countries or small companies.

+1 Handling
-1 Weight
+1 Recoil



Milled Metal

Made from machining away metal from a solid block, it is more sturdy than any other material. It, however, weighs more than any other material.

+1 Accuracy
+2 Weight



Polymer

Made from injection casts and moulds, it is the most lightweight material and recent advances have fixed most of the strength issues. Heat is still an issue.

-1 Weight
+1 Handling
+1 Recoil



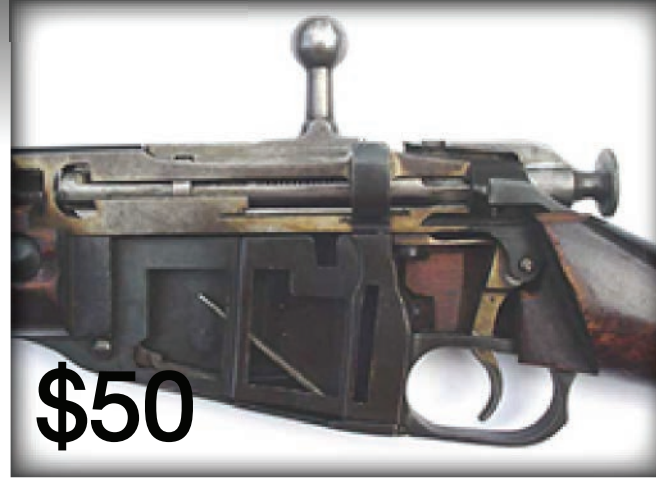
Mixed

These firearms utilise a number of materials that reduce the weight of the firearm, where possible, without seriously affecting performance.

Take 1 material's stat
Take 1 material's different stat

Action:

This is where you choose the most important part of your firearm. It will determine how it works and what it can use, as well as any additional benefits or drawbacks. Pick 1 of these Actions.



Bolt Action

Very common, popular and reliable. It has the greatest potential for accuracy.

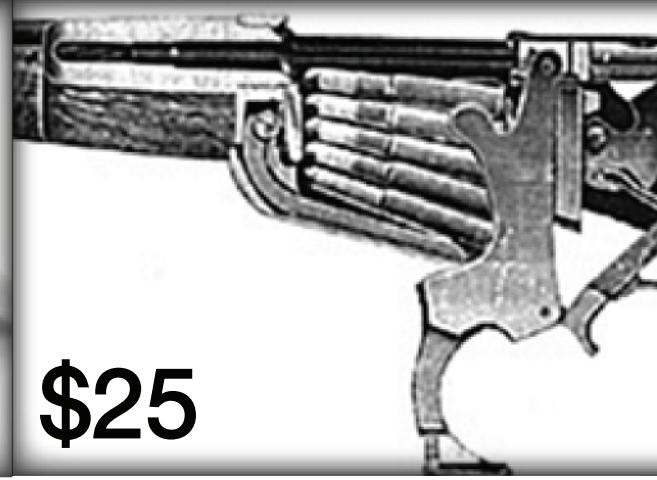
+2 Accuracy
+2 Handling
+2 Reliability
+1 Recoil
+1 Accuracy with Free-Float Barrel
Will sell anywhere



Break Action

Made from multiple barrels mated together into a single piece, it has a very limited ammunition capacity. It is very strong, and popular.

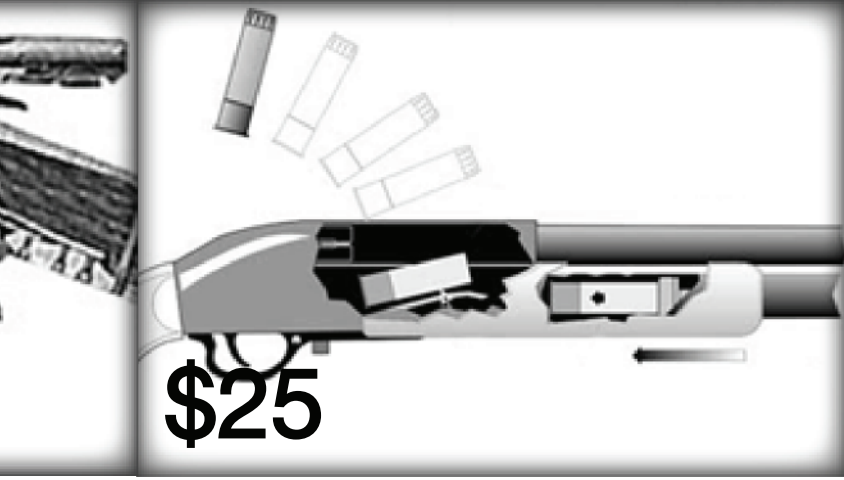
+3 Handling
+3 Reliability
+1 Recoil
Will sell anywhere
Has 1-2 barrels



Lever Action

Popular in the Wild West era and possessing a high rate of fire, it is usually limited to round-nose bullets. Inherently ambidextrous, but hard to shoot prone.

+1 Accuracy
+3 Handling
+2 Reliability
+1 Recoil
Free Ambi Controls
Cannot be Free-Float



Pump Action

Able to cycle the widest variety of ammunition and being easy to use with either hand. It is cheap and very reliable.

+2 Handling
+3 Reliability
+1 Recoil
Cannot be Free-Float



Blowback

Very simple, it is also incredibly cheap to make. Its design is reliable, but does not handle large calibres very well.

-2 Accuracy
+2 Reliability
+1 Recoil



Roller-Delayed Short-Stroke Blowback

Very reliable and simple, it is also highly accurate and able to be truly free-floated. It recoils more and fous faster than normal.

+2 Accuracy
+2 Reliability
+1 Recoil



Piston

Using a piston separate to the bolt carrier to cycle the action, it is clean and cool to run. Less parts moving means less recoil.

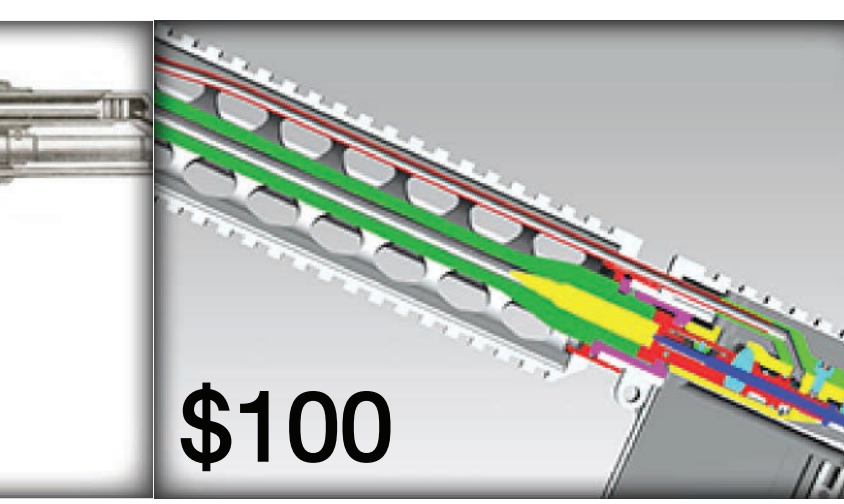
+2 Accuracy
+2 Reliability
+1 Recoil



Long-Stroke Piston

Using a piston integral to the bolt carrier allows for greater moving mass which aids in simplicity and reliability. Accuracy suffers, especially in rapid fire.

-1 Accuracy
+3 Reliability
+2 Recoil



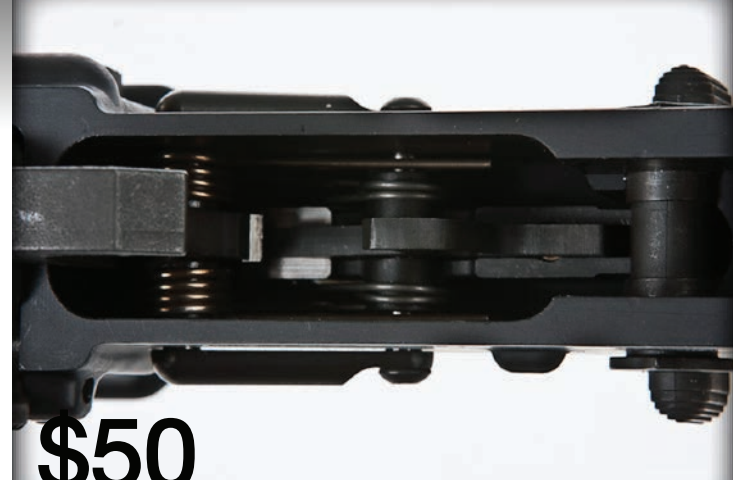
Stoner Piston

The bolt carrier itself is the piston, and recoils in a linear fashion, aiding in accuracy and handling. Often confused with or called direct impingement.

+2 Accuracy
+1 Handling
+1 Recoil
Requires Fixed or Telescoping Stock

Function:

Functional differences are what make the variances in firearms. Apart from the action, these are the things the performance will be altered by. Pick up to 6 of these Functions.



Tight Tolerance

Built to precise computer-aided measurements, it enables better accuracy. "Tight parts, tighter groupings."

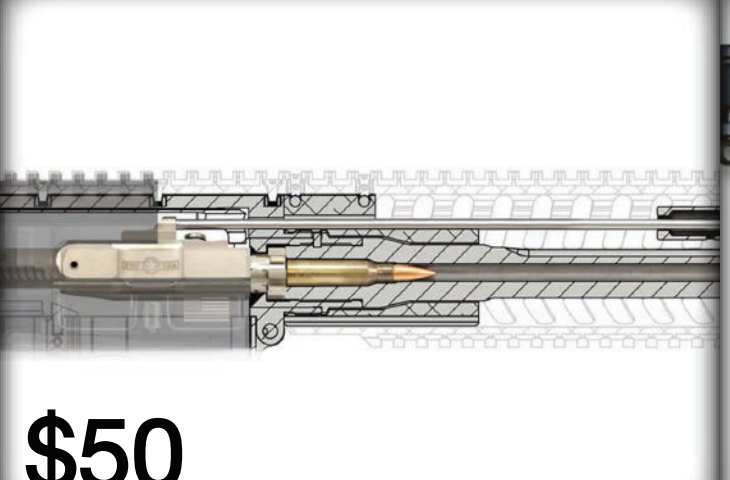
+1 Accuracy
-2 Reliability
Requires frequent maintenance



Loose Tolerance

Designed to allow debris to move around the action rather than jam or obstruct it, it will fire in almost any situation.

-1 Accuracy
+3 Reliability
Not compatible with Tight Tolerance



Closed Bolt

Most accurate semi-autos use this, the action that does not begin to move until after the shot, but continued fire will heat up much quicker.

+1 Accuracy
Worse sustained fire
Not compatible with Open Bolt



Open Bolt

Primarily found in machine guns and SMGs, it allows for better cooling. The action becomes violent and exposed to the elements and debris.

-1 Accuracy
-1 Reliability
Better sustained fire
NFA Cat 2



Bipod

Attached directly to the firearm, either the barrel or the handguard itself it helps to stabilise the shots and makes the firearm less shaky.

+2 Handling (When supported/set up)
+1 Weight



Fixed Barrel

Standard style grips fixed to the barrel at 2 points means the barrel flexes randomly. This style is typical of most combat rifles.

+1 Reliability
+1 Weight



Free-Float Barrel

Eliminating any tension on the barrel means it will move in a more consistent manner, improving accuracy and consistency.

+1 Accuracy
Not compatible with Fixed Barrel



Forward Assist

Dirt, mud and sand can often jam up the bolt and prevent it from entering battery. Having something operator to force it into battery aids in reliability.

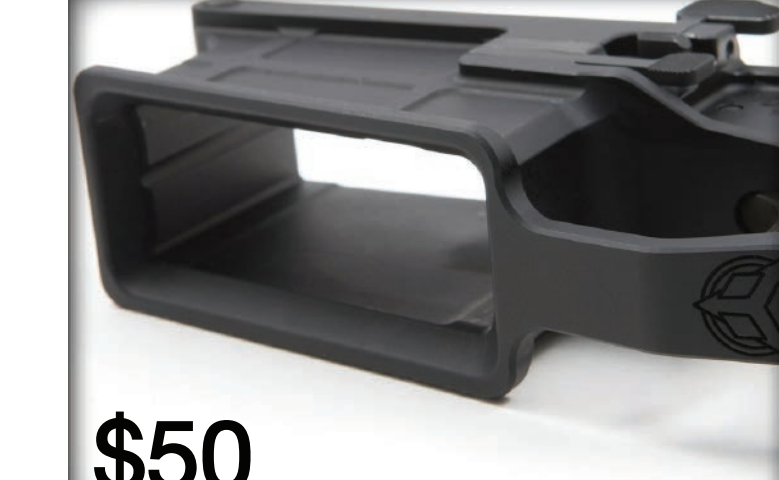
+1 Reliability



Ambi Controls

Controls on either side of the firearm allow the user to perform any function on either side equally.

+1 Handling



Drop-Free Mag

Possessing a magazine release button it allows for fast reloads but any undue stress or pressure on the magazine will result in malfunctions.

+1 Handling
-1 Reliability
Bolt-hold-open device as standard



Rock-In Mag

Popular in East Europe and older rifles, it is very strong and reliable, able to have push-ups done on the firearm without affecting performance.

-1 Handling
+2 Reliability
Not compatible with Drop-Free Mag



Rails

Picatinny rails give scopes, grips and other types of accessories a standardised mounting style that is universally accepted.

+1 Weight



Magwell Insert

Great for modular firearms that come in multiple calibres and best with a modular design. Calibres can be changed in seconds.

+1 Calibre
Requires Modularity



Modularity

"Barbie dolls for men" is a term often used for modular firearms. Almost anything on them can be switched out, changed or easily replaced.

+1 Feed Type
Free Q-C Barrel

Charging Handle:

This is where you choose the charging handle. Firearms are cycled and charged by a number of different methods, from the humble bolt to the fancy lever and the intimidating pump. Pick 1 Charging Handle.



Straight Bolt

Simple to manufacture and built to be used by idiots, this will reliably cycle with the aid of a 2x4.

+1 Reliability
Not Compatible with Optics



Curved Bolt

Buttery smooth to cycle with enough speed to put a hundred rounds downrange in a minute.

-1 Accuracy



Straight-Pull Bolt

The quickest to cycle of all bolts, it is incredibly easy to use even under stress.

+1 Handling



Lever

Easy to use and reachable from either side, but not fast nor easy to operate when laying prone.

+1 Handling
+1 Weight
Ambidextrous



Pump

Easy to use and reachable from either side, it has a distinctive sound when pumped that can startle or even instill fear in an enemy.

+1 Handling
+1 Weight
Ambidextrous



Reciprocating

Simple and typically attached to the bolt itself, it will ensure that the bolt is in battery every time, even if you have to smack it into place.

+Free Forward Assist



Non-Reciprocating

Particularly nice when using a magwell grip, this will not move unless you make it. Invaluable if there are thumbs in its line of travel. Might require a forward assist.

+1 Handling

Feed Type:

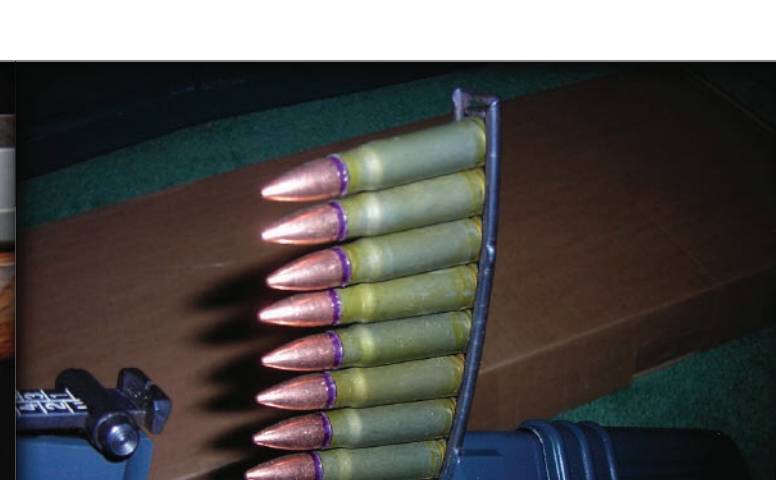
Different methods of feeding a firearm have been made, from the potentially limitless belt feed to the hand-fed single shot. What you choose here will affect what the firearm can do. Pick 1 Feed Type.



Single-Shot

Each barrel is manually loaded with the action open. Popular among countries and states with oppressive gun laws.

+3 Reliability
-1 Weight
-10 Capacity
Required for Break Action
Will sell anywhere



Clip-Fed Mag

A stripper or en-bloc clip is used to load the magazine. The internal magazine may be of any capacity.

-1 Weight



Box Magazine

Detachable from the firearm, it can be quickly changed for another. The standard type for military, police and civilian firearms.

+3 Capacity
+1 Reliability
NFA Cat 1



Helical Magazine

Longer than it is tall, it offers a sleeker package. Front-heavy with the centre of balance shifting further back as it is unloaded gives it an odd handling.

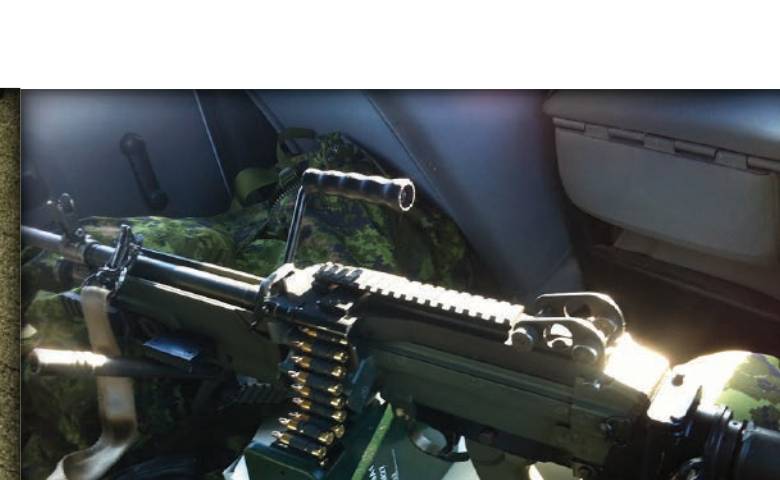
+5 Capacity
-1 Handling



Drum Magazine

A cousin of the box magazine, it is designed to fit the same magwells of the box magazine. It has a big capacity in exchange for a big size.

+7 Capacity
+3 Reliability
-3 Weight
NFA Cat 1



Linked Belt

A feed system popular with the military, it has almost no limit to the capacity it can have beyond the weight to use even under stress.

+9 Capacity
+4 Weight
-3 Handling
NFA Cat 1

Firearm CYOA

You are a new firearms company looking to make your first new product. There are numerous methods, techniques and potential features, and it is up to you to choose the best ones.

Trigger:

This is where you choose the trigger for your firearm. Different triggers are good for different purposes, and what is good for one may not be good for another.

First, pick 1 fire mode (opposite).
Pick 1 Trigger (below).



Manual
The trigger used on bolt-, break-, lever- and pump-action firearms. It has a remarkably long service life and market popularity.
+Accuracy

Semi-Automatic
The most common kind of trigger on the market, it is widely available and can only fire one shot per pull of the trigger. Many different models are available.
+1 Accuracy

Fully-Automatic
Defined as a firearm that will fire, cycle and then fire again as long as the trigger is held, it is a very rare commodity. No new civilian F/As can be made.
+1 Handling
+2 Recoil
NFA Cat 2

Standard Triggers



Combat Trigger
With a relatively high pull weight to prevent accidental discharge, it is designed to be used in wars by grunts. Not terribly accurate but it gets the job done.
+1 Reliability
-1 Accuracy

Enhanced Trigger
Popular in civilian markets, it gives greater accuracy than the stock trigger.
+1 Accuracy

Match Trigger
Boutique or professional shooters value these for the stringent quality and light trigger pull. All the best shooters use these.
+2 Accuracy
+1 Handling

Faux Automatic
The cheap, legal and semi-auto alternative to the ridiculously priced full-auto rifles. It assists the trigger reset and with practice can pass as full-auto.
+1 Handling
-1 Reliability
Semi-Automatic Trigger only
NFA Cat 1

Bullpup Triggers



Combat Trigger
With a mushy, soft feel, it lacks the crisp "break" that is found in the triggers of the standard layout.
+1 Reliability

Improved Trigger
Addressing the flaws of the bullpup layout, it offers a better feel with a crisp break when squeezed.
+1 Accuracy

Enhanced Trigger
An advanced and mechanically superior design. It gives a feel that is almost like a match trigger from a standard layout rifle.
+2 Accuracy
-1 Reliability

Barrel:

There are qualities available that will influence how the barrel will perform. By default the barrel is of average width. Choose one length and up to 3 of the barrel qualities.



Short Barrel
Small in length, it is handy to wield and quick in manoeuvring about. The short length does lower the effective range and hurts accuracy.
+2 Handling
+2 Recoil
-2 Accuracy
-2 Weight
NFA Cat 2

Midlength Barrel
The most common of all barrel lengths, it is the perfect balance for all situations. 18 inches for shotguns, 16 inches for rifles/SMGs. (457mm)

Long Barrel
Longer range than other barrels, it allows for more velocity, speed and energy to be built up which translates into a flatter trajectory.
-2 Handling
+2 Accuracy
+2 Weight

Thin Barrel
Light weight and cheaper, with less mass. Easy to move around and handle, prolonged firing decreases accuracy.
+2 Handling
-1 Accuracy
-2 Weight
Not Compatible with Thick Barrel

Thick Barrel
Heavy and expensive, most accurate rifles use thick barrels. Less handy to wield, it is more suited to marksman roles.
-2 Handling
+3 Accuracy
+2 Weight
Not Compatible with Thin Barrel



Fluted Barrel
Used to reduce the weight of a barrel, this gives the benefit of a thick barrel with even more heat-radiating surface area.
+1 Accuracy
-1 Weight
Not compatible with I-S Barrel

Stainless Barrel
Made of Stainless Steel, it is more accurate than any other barrel. Not as durable when using surplus ammunition it is for precision uses.
+1 Accuracy
Not Compatible with Chrome Barrel

Chrome Barrel
Typically lining barrels to improve life expectancy when using corrosive surplus ammunition or when in combat situations that may damage it.
+1 Reliability
Not Compatible with Stainless Barrel

Q-C Barrel
Quick-Change barrels can be switched out in a few seconds, allowing for sustained fire over long periods of time.
+1 Reliability
+3 Weight

I-S Barrel
Integrally suppressed and ported, it is much more quiet than a regular suppressor or un-suppressed firearm.
+1 Accuracy
+1 Handling
+1 Weight

Muzzle Device:

The muzzle of a firearm can affect the performance in drastic ways. Pick 1 Muzzle Device.



Naked Muzzle
Used by hunters that have no need for follow-up shots, it gives the firearm no qualities beyond a neat and tidy appearance.

Flash Hider
Designed to reduce the flash profile of a firearm, it does not eliminate it however. Shooting is much more comfortable when the operator can see.
+1 Handling
Lower muzzle flash
NFA Cat 1

Flash Hider/Comp.
Improving upon the standard flash hider, it gives minor compensator-like qualities that lower recoil by a small amount.
+1 Handling
Lower muzzle flash
NFA Cat 1



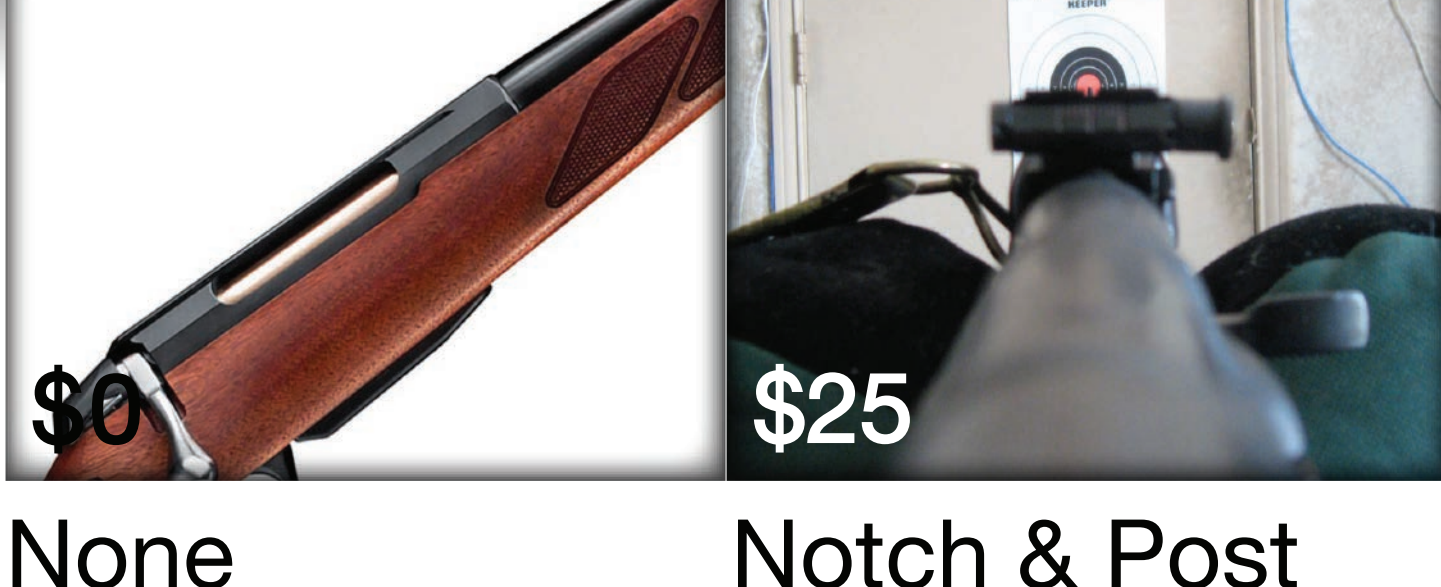
Suppressor
Patented as a "silencer" and is synonymous with such, it lowers the noise profile by up to 40dB as well as eliminating muzzle flash.
+2 Handling
+1 Weight
-1 Recoil
No muzzle flash
NFA Cat 2

Compensator
Able to almost completely eliminate recoil and vertical muzzle climb, it is favoured by competition shooters.
+2 Handling
+1 Weight
-2 Recoil
Higher muzzle flash

Flash Hiding Comp.
Combining the qualities of a flash hider and a compensator it offers the best of both worlds. Decent recoil reduction with a low flash signature.
+1 Handling
-1 Recoil
Lower muzzle flash
NFA Cat 1

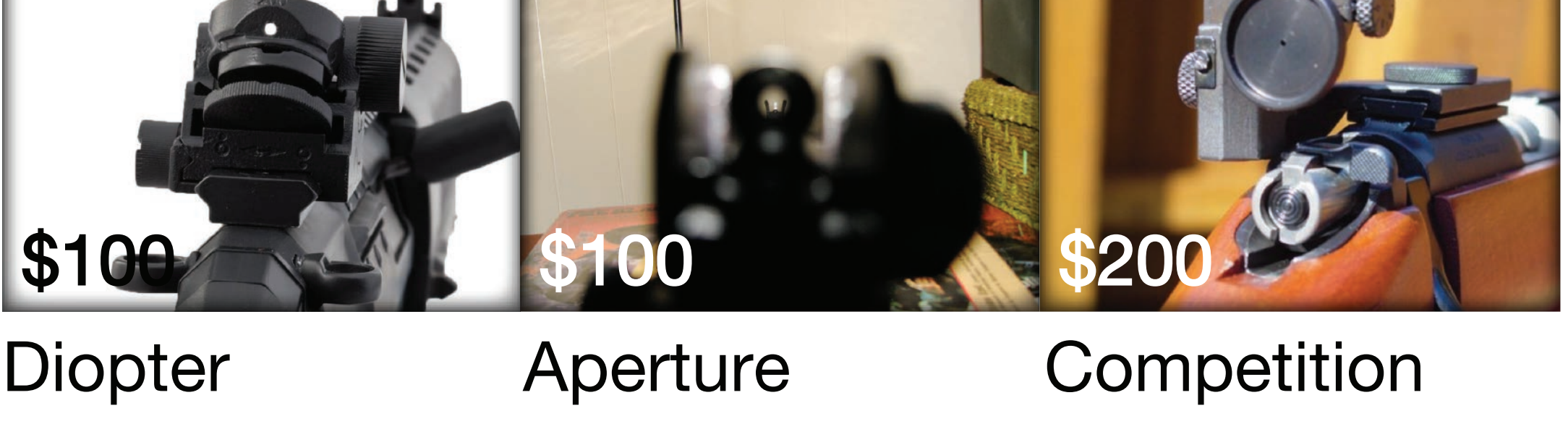
Sights:

All guns need some way to aim, so you will choose your primary method of aiming here. Pick 1 set of Sights.



None
Popular among hunters, the lack of anything in the way means any scopes mounted will have an unobstructed view.
-5 Accuracy (-0 with an Optic)

Notch & Post
Favoured in Eastern Europe, it offers a cheap and simple way to aim. Not the most accurate of irons but some prefer them.
-0 Accuracy



Diopter
Wonderbar! Concentric circle design means fast, effective and scientifically proven alignment of sights on target.
+1 Accuracy
+1 Handling

Aperture
Military standard sights for a reason. Amazing accuracy is achievable, and it has a strong aftermarket presence.
+2 Accuracy

Competition
Made to the demanding specifications of match shooters for events such as the Olympics, none match the results created with these.
+3 Accuracy

Optics:

OPTIONAL: Iron sights are great, but some guns can benefit more from a more precise means of aiming. Pick 1 Optic. Requires Rails.



Red Dot
Durable and reliable and simple to use, it is extremely popular. Very quick to aim it makes shooting a breeze.
+1 Handling

Holographic
Favoured by law enforcement and militaries with a proven track record, operators can comfortably engage most targets.
+2 Handling

Combat Scope
Rugged build quality and long-life illumination makes this the go-to option for operators.
+1 Accuracy
+1 Weight



Sniper Scope
High magnification and parallax-free. It gives all would-be marksmen the ability to reach out and touch someone, or something.
+2 Accuracy
+2 Weight

Digital Scope
Able to be linked with a separate screen, it offers a number of benefits, like ballistic compensation or even remote viewing. Night vision included.
+3 Accuracy
+3 Weight

Tracking Scope
Incredibly advanced and running on Linux, it makes shooting incredibly easy. Assisted aiming makes even a novice shooter accurate.
+3 Accuracy
+4 Weight

Stock:

The stock of a firearm can come in a myriad of styles. In-line stocks have the stock in line with the barrel, assisting in recoil management. Pick 1 Stock.



Stockless
Handy for manoeuvre around and store, it is great for home defence or as a truck gun. Not good for sniping or accurate shooting.
+1 Handling
-2 Accuracy
-1 Weight
Standard Layout Only

Fixed
Solid and dependable, it offers a consistent feel and aids in recoil management.
+1 Handling
+1 Weight
-1 Recoil (-2 Recoil if in-line)

Traditional
Around for hundreds of years, it is highly popular with old-fashioned hunters, even demanded.
+3 Weight
Will sell anywhere
Not in-line

Collapsible
Able to slide in and out from fully collapsed to fully extended and any length between. It is a more compact style.
-1 Weight



Folding
Combining the benefits of a fixed stock with that of a collapsible stock it is solid but compact.
+1 Handling
+1 Weight

Telescoping
When a short length is desired but a folding stock won't do, it is able to fit many people of varying sizes. May have a recoil buffer to handle recoil.
+1 Handling
+1 Weight

Adjustable
Accuracy is important and a good fit is vital. Gives an adjustable stock length and vary height cheek rest to fit almost anyone.
+1 Accuracy
+1 Weight

Competition
When a firearm needs to fit a shooter in every single way, it is the only way to go. Everything on it can be changed to provide the ultimate fit.
+2 Accuracy
+1 Weight