

Target Shooter's Loading & Cleaning Rods



Target Shooter's Rods, stainless steel rigid handle:

Target Shooter's rods have a comfortable handle on a one piece stainless rod. The rigid handle allows this rod to extract balls with a bullet puller.

Target Shooter's rods include a brass rod guide, to center the rod and protect the muzzle, for cleaning from the muzzle to breech.

Target Shooter's rods, 5/16" diameter with 8-32 threads:
#Ramrod-C-36-08 rod, 36", rigid handle, 8-32 **\$29.99**
#Ramrod-C-44-08 rod, 44", rigid handle, 8-32 **\$32.50**

Target Shooter's rods, 5/16" diameter with 10-32 threads:
#Ramrod-C-36-10 rod, 36", rigid handle, 10-32 **\$29.99**
#Ramrod-C-44-10 rod, 44", rigid handle, 10-32 **\$32.50**

Military Ramrods



Made for the replica French 1777 Charleville and Anno IX muskets by Davide Pedersoli, Italy, this steel ramrod is .274" diameter, .550" at tip, 44.25" length, with 5-.8mm male threads on small end. Ideal for use on other French fusils.

#Ramrod-1777 ramrod, 44-1/4", Charleville **only \$29.99**



Made by Davide Pedersoli, Italy, for his "GRICE - 1762" marked Second Model Brown Bess musket. Easily shortened for a carbine, this rod is .274" diameter, with .625" head. The small end has 5-.8mm male threads.

#Ramrod-BB-2 ramrod, 42-3/8", Brown Bess **only \$29.99**



Steel 33" ramrod for U.S. Model 1803 and 1814 rifles, .250" diameter with .484" concave steel tip, male 12-24 threads on the small end. Early 1803 rods used this steel tip. Later, many 1803 rifles were arsenal refitted with a brass tipped ramrod.

#Ramrod-1803 ramrod, 33", 1803 Harper's Ferry **only \$29.99**

Essential Tools for the Muzzleloading Gun Maker



High Speed Steel Single Flute Countersinks:

After drilling and tapping your hole for appropriate threads, slightly chamfer the threaded hole with our 82° countersink, just enough to debur the edge.

Made of high speed steel, our single fluted 82° and 90° countersinks have a 1/4" diameter shank.

Most of our flat head and oval head screws and bolts fit a hole with an 82° countersink.

#Drill-CS-82-4 countersink, 1/4" diameter **only \$7.29**

#Drill-CS-82-5 countersink, 5/16" diameter **only \$7.29**

#Drill-CS-82-6 countersink, 3/8" diameter **only \$7.29**

#Drill-CS-90-4 countersink, 1/4" diameter **only \$7.29**

#Drill-CS-90-5 countersink, 5/16" diameter **only \$7.29**

#Drill-CS-90-6 countersink, 3/8" diameter **only \$7.29**

Ramrod Hole Drills

Our special 48" drill bits are the best for a risky task. Made from one solid piece of tool steel with correct tool bit geometry and tempered cutting edge. Slightly larger than actual ramrod diameter for an easy fit. The secret is to start the hole carefully and slowly, in perfect alignment.

Drill slowly, and clear your chips every half inch.

#Rod-Drill-4 for 1/4" rod, 9/32" actual **only \$34.99**

#Rod-Drill-5 for 5/16" rod, 11/32" actual **only \$37.99**

#Rod-Drill-6 for 3/8" rod, 13/32" actual **only \$39.99**

#Rod-Drill-7 for 7/16" rod, 15/32" actual **only \$42.99**

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#Rod-Drill-5 ramrod drills are very slightly oversize **\$37.99**



Center Punch **#Drill-CP-14**

Ideal for punching a starting point, to center your drill bit, to eliminate drill point drift. A very handy tool, alloy steel, with a hardened point.
#Drill-CP-14 center punch, 1/4", tempered **only \$3.99**



Self Centering Drill Bits

Our special drill bits make gunsmithing easier. General purpose hardware store drill bits have a 118° 'chisel point', to work well when drilling wood. Our High Speed Steel drill bits are precision ground to a 135° 'self-centering', self-centering, the best geometry for drilling steel!

Part No.		Fraction	Decimal	Price
#Drill-1/16	self centering drill bit, HSS	1/16"	.0625"	\$ 1.29
#Drill-5/64	self centering drill bit, HSS	5/64"	.0781"	\$ 1.99
#Drill-3/32	self centering drill bit, HSS	3/32"	.0938"	\$ 1.99
#Drill-7/32	self centering drill bit, HSS	7/32"	.2188"	\$ 3.99
#Drill-7/64	self centering drill bit, HSS	7/64"	.1094"	\$ 1.49
#Drill-9/64	self centering drill bit, HSS	9/64"	.1406"	\$ 1.99
#Drill-11/64	self centering drill bit, HSS	11/64"	.1719"	\$ 1.99
#Drill-13/64	self centering drill bit, HSS	13/64"	.2031"	\$ 1.99
#Drill-15/64	self centering drill bit, HSS	15/64"	.2344"	\$ 2.59
#Drill-17/64	self centering drill bit, HSS	17/64"	.2656"	\$ 3.29
#Drill-5/16	self centering drill bit, HSS	5/16"	.3125"	\$ 4.29
#Drill-21/64	self centering drill bit, HSS	21/64"	.3281"	\$ 4.29
#Drill-33/64	self centering drill bit, HSS	33/64"	.5156"	\$21.99
#Drill-37/64	self centering drill bit, HSS	37/64"	.5781"	\$29.99
#Drill-11/16	self centering drill bit, HSS	11/16"	.6875"	\$28.99

Part No.		Number	Decimal	Price
#Drill-47	self centering drill bit, HSS	47	.0785"	\$ 1.99
#Drill-43	self centering drill bit, HSS	43	.0790"	\$ 1.99
#Drill-38	self centering drill bit, HSS	38	.1015"	\$ 1.99
#Drill-34	self centering drill bit, HSS	34	.1110"	\$ 1.99
#Drill-33	self centering drill bit, HSS	33	.1130"	\$ 2.59
#Drill-32	self centering drill bit, HSS	32	.1160"	\$ 1.99
#Drill-31	self centering drill bit, HSS	31	.1200"	\$ 1.99
#Drill-29	self centering drill bit, HSS	29	.1360"	\$ 1.99
#Drill-25	self centering drill bit, HSS	25	.1495"	\$ 1.99
#Drill-21	self centering drill bit, HSS	21	.1590"	\$ 1.99
#Drill-19	self centering drill bit, HSS	19	.1660"	\$ 1.99
#Drill-16	self centering drill bit, HSS	16	.1770"	\$ 1.99
#Drill-14	self centering drill bit, HSS	14	.1820"	\$ 2.99
#Drill-7	self centering drill bit, HSS	7	.2010"	\$ 2.99
#Drill-3	self centering drill bit, HSS	3	.2130"	\$ 3.99

Part No.		Letter	Decimal	Price
#Drill-F	self centering drill bit, HSS	F	.2570"	\$ 3.99
#Drill-I	self centering drill bit, HSS	I	.2720"	\$ 3.99
#Drill-Q	self centering drill bit, HSS	Q	.3320"	\$ 5.99

Avoid errors. Consult a tap and drill chart for correct drill sizes!