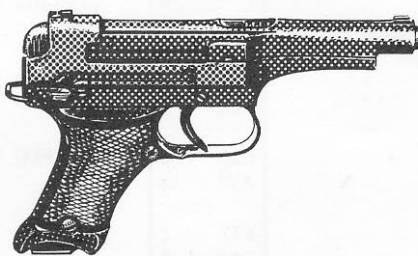

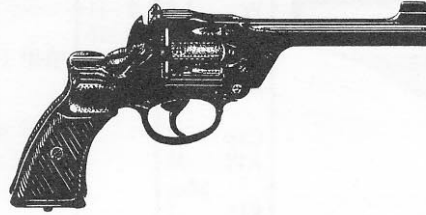
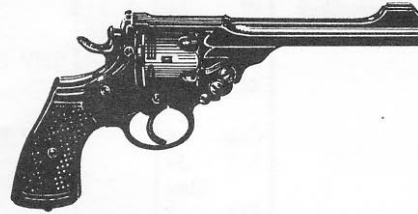




\$100

Pistols	Physical Data	Aim Time AC Md	Ballistic Data									
			Range in 2 yard hexes									
			10	20	40	70	100	200	300	400		
Lebel M1892	L 9	1 -17	LRN PEN 1.0	.9	.8	.6	.5	.2	.1			
Double Action Revolver	W 2.1	2 -11	DC 1	1	1	1	1	1	1	1		
8mm MLe 92	RT 12	4 -9	*LHP PEN 1.0	.9	.8	.6	.5	.2	.1			
France	ROF 1	5 -8	DC 1	1	1	1	1	1	1	1		
First introduced into the French army in 1893, this revolver remained in service through 1945.	Cap 6	6 -7	*FMJ PEN 1.1	1.0	.8	.7	.5	.2	.1			
	AW .18		DC 1	1	1	1	1	1	1	1		
	HMC											
	KD 2		BA 48	41	33	26	21	12	6			
	SAB 3		TOF 1	2	3	6	10	22	37			
Walther PP	L 6	1 -16	FMJ PEN 1.1	.9	.7	.5	.4	.1				
Automatic Pistol	W 1.7	2 -11	DC 1	1	1	1	1	1	1			
32 ACP	RT 4	4 -9	*JHP PEN 1.0	.9	.7	.5	.4	.1				
Germany	ROF *	5 -8	DC 2	2	1	1	1	1	1			
First introduced in 1929 as a police pistol, this highly successful weapon was used by the German military.	Cap 8	6 -7	*AP PEN 1.5	1.3	1.1	.7	.5	.2				
	AW .35		DC 1	1	1	1	1	1	1			
	Mag											
	KD 2		BA 44	35	26	18	13	4				
	SAB 2		TOF 1	1	3	5	8	19				
Mauser HSc	L 6	1 -16	FMJ PEN 1.1	1.0	.8	.5	.4	.1				
Automatic Pistol	W 1.5	2 -11	DC 1	1	1	1	1	1	1			
32 ACP	RT 4	4 -9	*JHP PEN 1.0	.9	.7	.5	.4	.1				
Germany	ROF *	5 -8	DC 2	2	1	1	1	1	1			
This pistol was introduced in 1938 as a commercial venture and later used by the German Navy and Air Force.	Cap 8		*AP PEN 1.5	1.4	1.1	.8	.5	.2				
	AW .35		DC 1	1	1	1	1	1	1			
	Mag											
	KD 2		BA 44	35	26	18	14	4				
	SAB 3		TOF 1	1	3	5	8	19				
Walther P38	L 8	1 -17	FMJ PEN 1.9	1.8	1.5	1.1	.9	.4	.1	.1		
Automatic Pistol	W 2.4	2 -11	DC 3	3	2	2	1	1	1	1		
9mm Parabellum	RT 4	4 -9	*JHP PEN 1.9	1.7	1.4	1.1	.8	.3	.1	.1		
Germany	ROF *	5 -8	DC 4	4	3	2	1	1	1	1		
Standard pistol of the German army in WW II. It was adopted in 1938. After the war it was renamed the Walther P1.	Cap 8	6 -7	*AP PEN 2.7	2.5	2.1	1.6	1.2	.5	.2	.1		
	AW .38		DC 3	2	2	2	1	1	1	1		
	Mag											
	KD 3		BA 45	36	27	20	15	5	0	-3		
	SAB 4		TOF 1	1	2	4	6	15	25	36		
Glisenti M10	L 8	1 -17	FMJ PEN 1.7	1.6	1.3	1.0	.8	.3	.1	.1		
Automatic Pistol	W 2.0	2 -11	DC 2	2	2	1	1	1	1	1		
9mm Glisenti	RT 4	4 -9	*JHP PEN 1.7	1.5	1.3	1.0	.8	.3	.1	.1		
Italy	ROF *	5 -8	DC 4	3	3	2	1	1	1	1		
The 9mm Glisenti was the standard Italian pistol round. It was adopted in 1910 and used throughout WW II.	Cap 7	6 -7	*AP PEN 2.4	2.2	1.9	1.5	1.1	.5	.2	.1		
	AW .36		DC 2	2	2	1	1	1	1	1		
	Mag											
	KD 3		BA 46	37	28	21	16	7	1	-2		
	SAB 4		TOF 1	1	2	5	7	16	27	39		
Taisho 14	L 9	1 -17	FMJ PEN 1.8	1.6	1.4	1.1	.9	.4	.2	.1		
Automatic Pistol	W 2.2	2 -11	DC 2	2	1	1	1	1	1	1		
8mm Taisho 14	RT 4	4 -9	*JHP PEN 1.7	1.6	1.3	1.0	.8	.4	.2	.1		
Japan	ROF *	5 -8	DC 3	3	2	1	1	1	1	1		
Improved Taisho 04 which retained serious design flaws making reloading slow if not impossible.	Cap 8	6 -7	*AP PEN 2.5	2.3	2.0	1.5	1.2	.5	.2	.1		
	AW .42		DC 2	2	1	1	1	1	1	1		
	Mag											
	KD 3		BA 47	40	31	24	19	10	4	1		
	SAB 3		TOF 1	1	2	5	7	16	26	38		

Pistols	Physical Data	Aim Time AC Md	Ballistic Data															
			Range in 2 yard hexes															
					10	20	40	70	100	200	300	400						
Kenju Type 94		L 7	1 -16	FMJ PEN	1.6	1.5	1.3	1.0	.8	.3	.1	.1						
Automatic Pistol		W 1.9	2 -11	DC	2	2	1	1	1	1	1	1	1					
8mm Taisho 14		RT 4	4 -9	*JHP PEN	1.5	1.4	1.2	.9	.7	.3	.1	.1						
Japan		ROF *	5 -8	DC	3	2	2	1	1	1	1	1	1					
This pistol was introduced in 1937 to supplement the Taisho 14. Of poor quality, a sharp blow can cause it to fire.		Cap 6																
		AW .32																
		Mag																
		KD 2																
		SAB 3																
BA 47	39	31	24	19	9	4	1											
TOF	1	1	3	5	7	17	28	40										
Tokarev TT33		L 8	1 -17	FMJ PEN	2.6	2.4	2.0	1.6	1.3	.6	.2	.1						
Automatic Pistol		W 2.0	2 -11	DC	3	3	2	2	1	1	1	1						
7.62mm Tokarev		RT 4	4 -9	*JHP PEN	2.5	2.3	2.0	1.5	1.2	.5	.2	.1						
USSR		ROF *	5 -8	DC	4	4	3	3	2	1	1	1						
Standard pistol of the Russian military. It fires the 7.62mm Tokarev, which is primarily a sub-machinegun round.		Cap 8																
		AW .39																
		Mag																
		KD 3																
		SAB 4																
BA 46	38	29	22	17	8	3	-1											
TOF	0	1	2	3	5	12	20	29										
Enfield Revolver #2 Mk1		L 10	1 -16	FMJ PEN	.9	.8	.7	.5	.4	.2	.1							
Double Action Revolver		W 1.9	2 -11	DC	1	1	1	1	1	1	1	1						
.380in British Service		RT 12	4 -9	LRN PEN	.8	.8	.6	.5	.4	.2	.1							
United Kingdom		ROF 1	5 -8	DC	1	1	1	1	1	1	1	1						
This revolver was designed to replace the Webley .45in whose weight and recoil were considered excessive.		Cap 6																
		AW .24																
		HMC																
		KD 3																
		SAB 4																
BA 47	39	31	23	18	9	4												
TOF	1	2	4	7	11	26	43											
Webley Mk6 (6 inch barrel)		L 11	1 -17	LRN PEN	1.0	.9	.8	.6	.5	.2	.1	.1						
Double Action Revolver		W 2.7	2 -11	DC	1	1	1	1	1	1	1	1						
.455in Revolver		RT 12	4 -9	*LHP PEN	1.0	.9	.8	.6	.5	.2	.1	.1						
United Kingdom		ROF 1	5 -8	DC	1	1	1	1	1	1	1	1						
Durable, well made revolver used throughout WW II and still in service with police and military forces.		Cap 6																
		AW .30																
		HMC																
		KD 4																
		SAB 5																
BA 47	39	31	23	18	9	4	0											
TOF	1	2	4	7	11	25	42	60										
Colt M1911A1		L 8	1 -18	FMJ PEN	1.6	1.5	1.2	1.0	.8	.3	.2	.1						
Automatic Pistol		W 3.0	2 -11	DC	3	3	2	1	1	1	1	1						
45 ACP		RT 4	4 -9	*JHP PEN	1.5	1.4	1.2	.9	.7	.3	.1	.1						
USA		ROF *	5 -8	DC	4	4	3	2	1	1	1	1						
Standard US sidearm since WW I. The M1911A1 was used throughout WW II and is still in service.		Cap 7																
		AW .7																
		Mag																
		KD 5																
		SAB 5																
BA 45	36	27	20	15	5	0	-4											
TOF	1	1	3	5	8	19	31	45										
OSS M1942		L 6	1 -15	FMJ PEN	1.3	1.2	1.0	.8	.6	.3	.1							
Single Shot Pistol		W 1.1	2 -11	DC	2	2	2	1	1	1	1	1						
45 ACP		RT 14	3 -10	*JHP PEN	1.3	1.2	1.0	.8	.6	.3	.1							
USA		ROF -		DC	3	3	2	1	1	1	1	1						
This single shot pistol was mass produced and distributed by the OSS to clandestine forces in occupied countries.		Cap 1																
		AW .04																
		Rnd																
		KD 4																
		SAB 6																
BA 45	36	27	19	14	5	0												
TOF	1	2	3	6	9	20	34											

Sub-Machineguns

Type 100 / 8mm Taisho 14 / Japan



This SMG appeared in 1940 and used the underpowered 8mm Taisho 14 round.

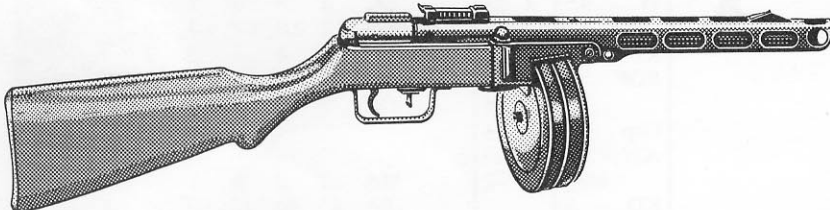
Type 100 1944 pattern / 8mm Taisho 14 / Japan

The Japanese were very late in developing a sub-machinegun, with production starting in 1940 with the Type 100. In 1944 an improved model 100 was introduced. This 1944 version was simplified to minimize manufacturing time and costs. The 1944 Type 100 had fixed sights, a very rough finish, and a higher rate of fire than the 1940 version. In all, less than 30,000 Type 100 sub-machineguns were made. The weapon was not very successful and suffered from poor quality ammunition which frequently caused jams. The bar under the barrel is a bayonet mount.

PPD 40 / 7.62mm Tokarev / USSR

The PPD 40 was a well made weapon and was introduced in 1940. It used a 71 round drum magazine but had to be replaced by the PPSH 41. Wartime production required a simpler, more easily made weapon. In appearance, the PPD 40 is very similar to the PPSH 41 shown below. Over 5 million PPSH guns were produced by 1945. Some Soviet units were armed exclusively with them. These weapons have been exported in huge numbers to Communist countries, including China, and were used in Korea and Vietnam. One item of interest is that the 7.62mm Tokarev is essentially a 7.63mm Mauser round.

PPSh 41 / 7.62mm Tokarev / USSR



Standard sub-machinegun of the Russian army during WW II.

PPS 43 / 7.62mm Tokarev / USSR



2nd Russian SMG produced in large numbers in WW II.

Lanchester Mk1 / 9mm Parabellum / UK

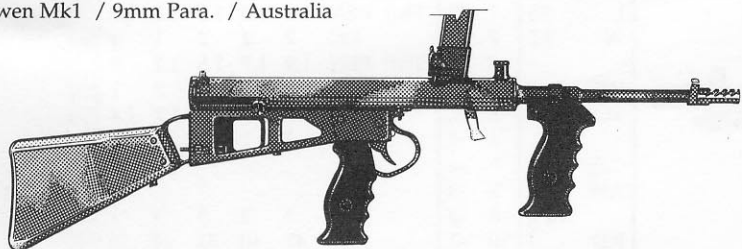


This sub-machinegun was produced for the Royal Navy in 1941.

	Physical Data		Aim Time AC Md		Ballistic Data																																																																																																						
					Range in 2 yard hexes																																																																																																						
					10	20	40	70	100	200	300	400																																																																																															
L W RT ROF Cap AW Mag KD SAB	35 9.2 8 *4 30 1.2 9 3 2	1 2 3 4 5 6 7 8 9 10 11	-23 -12 -9 -8 -6 -5 -4 -3 -3 -2 -1	FMJ DC *JHP DC *AP DC MA BA TOF	PEN PEN PEN PEN PEN PEN PEN PEN PEN PEN PEN	1.9	1.8	1.5	1.2	1.0	.4	.2	.1	2	2	2	1	1	1	1	1	1.9	1.7	1.5	1.2	.9	.4	.2	.1	3	3	2	2	1	1	1	1	2.7	2.5	2.2	1.7	1.4	.6	.3	.1	2	2	2	1	1	1	1	1	.2	.3	.5	.9	1	3	4	5	47	40	31	24	19	10	4	1	1	1	2	4	7	15	25	36																														
						L W RT ROF Cap AW Mag KD SAB	35 9.0 8 *6 30 1.2 9 3 2	1 2 3 4 5 6 7 8 9 10 11	-23 -12 -9 -8 -6 -5 -4 -3 -3 -2 -1	FMJ DC *JHP DC *AP DC MA BA TOF	PEN PEN PEN PEN PEN PEN PEN PEN PEN PEN PEN	1.9	1.8	1.5	1.2	1.0	.4	.2	.1	2	2	2	1	1	1	1	1	1.9	1.7	1.5	1.2	.9	.4	.2	.1	3	3	2	2	1	1	1	1	2.7	2.5	2.2	1.7	1.4	.6	.3	.1	2	2	2	1	1	1	1	1	.2	.4	.8	1	2	4	6	8	47	40	31	24	19	10	4	1	1	1	2	4	7	15	25	36																								
												L W RT ROF Cap AW Drm KD SAB	31 9.8 12 *7 71 2.4 9 3 2	1 2 3 4 5 6 7 8 9 10 11	-23 -13 -9 -8 -6 -5 -4 -3 -2 -2 -1	FMJ DC *JHP DC AP DC MA BA TOF	PEN PEN PEN PEN PEN PEN PEN PEN PEN PEN PEN	3.7	3.5	3.0	2.4	1.9	.9	.4	.2	4	4	4	3	2	1	1	1	3.6	3.3	2.9	2.3	1.8	.9	.4	.2	6	6	6	4	3	1	1	1	5.3	4.9	4.2	3.4	2.7	1.3	.6	.3	4	4	3	2	2	1	1	1	.3	.5	1	2	3	5	8	11	47	39	30	23	18	8	3	-1	0	1	2	3	4	10	17	24																		
																		L W RT ROF Cap AW Drm KD SAB	33 9.7 12 *8 71 2.4 9 3 2	1 2 3 4 5 6 7 8 9 10 11	-23 -13 -9 -8 -6 -5 -4 -3 -2 -2 -1	FMJ DC *JHP DC AP DC MA BA TOF	PEN PEN PEN PEN PEN PEN PEN PEN PEN PEN PEN	3.6	3.3	2.8	2.3	1.8	.8	.4	.2	4	4	3	2	2	1	1	1	3.4	3.2	2.7	2.2	1.7	.8	.4	.2	6	6	5	4	3	1	1	1	5.0	4.7	4.0	3.2	2.5	1.2	.5	.3	4	4	3	2	2	1	1	1	.3	.6	1	2	3	6	9	12	47	39	30	22	18	8	3	-1	0	1	2	3	4	10	17	25												
																								L W RT ROF Cap AW Mag KD SAB	33 7.7 8 *6 35 1.2 9 3 3	1 2 3 4 5 6 7 8 9 10 11	-22 -12 -9 -7 -6 -5 -4 -3 -2 -2 -1	FMJ DC *JHP DC AP DC MA BA TOF	PEN PEN PEN PEN PEN PEN PEN PEN PEN PEN PEN	3.7	3.5	3.0	2.4	1.9	.9	.4	.2	4	4	4	3	2	1	1	1	3.6	3.3	2.9	2.3	1.8	.9	.4	.2	6	6	6	4	3	1	1	1	5.3	4.9	4.2	3.4	2.7	1.3	.6	.3	4	4	3	2	2	1	1	1	.3	.5	1	2	3	5	8	11	47	39	30	23	18	8	3	-1	0	1	2	3	4	10	17	24						
																														L W RT ROF Cap AW Mag KD SAB	34 10.8 9 *5 50 2.0 9 3 2	1 2 3 4 5 6 7 8 9 10 11	-24 -13 -10 -8 -6 -5 -4 -3 -2 -2 -1	FMJ DC *JHP DC *AP DC MA BA TOF	PEN PEN PEN PEN PEN PEN PEN PEN PEN PEN PEN	2.3	2.1	1.8	1.4	1.1	.5	.2	.1	3	3	3	2	1	1	1	1	2.2	2.0	1.7	1.3	1.0	.4	.2	.1	5	4	4	3	2	1	1	1	3.2	3.0	2.5	1.9	1.5	.6	.3	.1	3	3	2	2	1	1	1	1	.2	.4	.7	1	2	4	5	7	45	36	27	20	15	6	0	-3	0	1	2	4	6	13	23	32

Sub-Machineguns

Owen Mk1 / 9mm Para. / Australia



Heavy but reliable sub-machinegun with top loading magazine.

Physical Data		Aim Time	Ballistic Data										
		AC	Md	Range in 2 yard hexes									
				10	20	40	70	100	200	300	400		
L	32	1	-23	FMJ PEN	2.3	2.1	1.8	1.4	1.1	.5	.2	.1	
W	10.1	2	-13	DC	3	3	3	2	1	1	1	1	
RT	9	3	-10	*JHP PEN	2.2	2.0	1.7	1.3	1.0	.4	.2	.1	
ROF	*6	4	-8	DC	5	4	4	3	2	1	1	1	
Cap	34	5	-7	*AP PEN	3.2	3.0	2.5	1.9	1.5	.6	.3	.1	
AW	1.4	6	-5	DC	3	3	2	2	1	1	1	1	
Mag	9	7	-4	MA	.2	.5	.9	2	2	5	7	9	
KD	3	8	-4	BA	45	36	27	20	15	6	0	-3	
SAB	2	9	-3	TOF	0	1	2	4	6	13	23	32	
		10	-2										
		11	-1										

MAS 38 / 7.65mm Longue / France



Light weapon with an underpowered cartridge.

L	25	1	-21	FMJ PEN	1.9	1.7	1.5	1.1	.9	.4	.2	.1
W	6.8	2	-11	DC	2	2	1	1	1	1	1	1
RT	8	3	-9	*JHP PEN	1.8	1.7	1.4	1.1	.8	.4	.2	.1
ROF	*5	4	-7	DC	3	3	2	2	1	1	1	1
Cap	32	5	-6	*AP PEN	2.7	2.4	2.1	1.6	1.2	.5	.2	.1
AW	1.2	6	-5	DC	2	2	1	1	1	1	1	1
Mag	9	7	-4	MA	.2	.3	.6	1	2	3	5	7
KD	2	8	-3	BA	47	39	30	23	18	9	3	0
SAB	2	9	-2	TOF	1	1	2	4	6	15	24	35

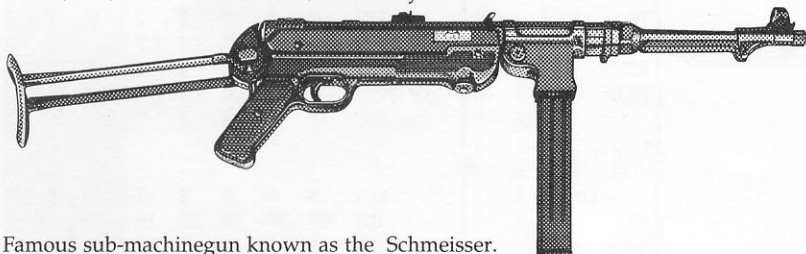
MP 35/1 / 9mm Parabellum / Germany



Standard sub-machinegun of the Waffen-SS.

L	33	1	-23	FMJ PEN	2.3	2.1	1.8	1.4	1.1	.5	.2	.1
W	9.7	2	-13	DC	3	3	3	2	1	1	1	1
RT	9	3	-9	*JHP PEN	2.2	2.0	1.7	1.3	1.0	.4	.2	.1
ROF	*5	4	-8	DC	5	4	4	3	2	1	1	1
Cap	32	5	-6	*AP PEN	3.2	3.0	2.5	1.9	1.5	.6	.3	.1
AW	1.3	6	-5	DC	3	3	2	2	1	1	1	1
Mag	9	7	-4	MA	.2	.4	.8	1	2	4	6	8
KD	3	8	-3	BA	45	36	27	20	15	6	0	-3
SAB	3	9	-2	TOF	0	1	2	4	6	13	23	32

MP 38/40 / 9mm Parabellum / Germany



Famous sub-machinegun known as the Schmeisser.

L	25/33	1	-23	FMJ PEN	2.3	2.1	1.8	1.4	1.1	.5	.2	.1
W	9.5	2	-13	DC	3	3	3	2	1	1	1	1
RT	8	3	-9	*JHP PEN	2.2	2.0	1.7	1.3	1.0	.4	.2	.1
ROF	*4	4	-8	DC	5	4	4	3	2	1	1	1
Cap	32	5	-6	*AP PEN	3.2	3.0	2.5	1.9	1.5	.6	.3	.1
AW	1.3	6	-5	DC	3	3	2	2	1	1	1	1
Mag	9	7	-4	MA	.2	.3	.6	1	2	3	5	6
KD	3	8	-3	BA	45	36	27	20	15	6	0	-3
SAB	3	9	-2	TOF	0	1	2	4	6	13	23	32

MAB 38A / 9mm Modello 38A / Italy



Standard Italian sub-machinegun of WW II. It used a high-velocity 9mm cartridge.

L	38	1	-23	FMJ PEN	3.0	2.8	2.4	1.9	1.5	.7	.3	.2
W	10.2	2	-13	DC	4	4	3	3	2	1	1	1
RT	8	3	-10	*JHP PEN	2.9	2.7	2.3	1.8	1.4	.7	.3	.1
ROF	*5	4	-8	DC	6	6	5	4	3	1	1	1
Cap	40	5	-6	*AP PEN	4.2	3.9	3.3	2.7	2.1	1.0	.5	.2
AW	1.6	6	-5	DC	4	3	3	3	2	1	1	1
Mag	9	7	-4	MA	.2	.4	.9	2	2	4	7	9
KD	4	8	-3	BA	46	38	29	22	17	7	2	-2
SAB	3	9	-2	TOF	0	1	2	3	5	12	20	29

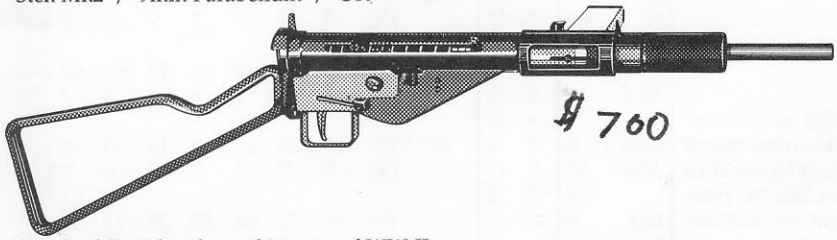
MAB 38/42 / 9mm Parabellum / Italy

Wartime production of the MAB 38A proved to be too expensive and time consuming. The MAB 38/42 was a simpler version of the MAB 38A and incorporated cost and manufacturing savings. The MAB 38/42 was available only in 9mm Parabellum as the complexity of having a special 9mm round for sub-machineguns proved impractical. Both the Germans and Romanians took delivery of this weapon. Later MAB 38/43 and 38/44 versions of this weapon were also made in continuing efforts to cut cost and manufacturing time.

L	32	1	-22	FMJ PEN	2.5	2.3	2.0	1.5	1.2	.6	.2	.1
W	8.1	2	-12	DC	3	3	3	2	2	1	1	1
RT	8	3	-9	*JHP PEN	2.4	2.2	1.9	1.5	1.2	.5	.2	.1
ROF	*5	4	-8	DC	5	5	4	3	2	1	1	1
Cap	40	5	-6	*AP PEN	3.5	3.2	2.7	2.2	1.7	.8	.4	.2
AW	1.6	6	-5	DC	3	3	3	2	2	1	1	1
Mag	9	7	-4	MA	.2	.5	.9	2	2	5	7	9
KD	4	8	-3	BA	46	38	29	21	16	7	2	-2
SAB	3	9	-2	TOF	0	1	2	4	6	13	22	32

Sub-Machineguns

Sten Mk2 / 9mm Parabellum / UK



Standard British sub-machinegun of WW II.

Physical Data	Aim Time AC Md	Ballistic Data																
		Range in 2 yard hexes																
		10	20	40	70	100	200	300	400									
L 30	1 -22	FMJ PEN	2.3	2.1	1.8	1.4	1.1	.5	.2	.1								
W 7.2	2 -12	DC	3	3	3	2	1	1	1	1								
	3 -9	*JHP PEN	2.2	2.0	1.7	1.3	1.0	.4	.2	.1								
RT 9	4 -7	DC	5	4	4	3	2	1	1	1								
ROF *5	5 -6	*AP PEN	3.2	3.0	2.5	1.9	1.5	.6	.3	.1								
	6 -5	DC	3	3	2	2	1	1	1	1								
Cap 32	7 -4																	
AW 1.3	8 -3																	
	Mag	MA	.2	.5	.9	2	2	5	7	9								
KD 3		BA	45	36	27	20	15	6	0	-3								
SAB 3		TOF	0	1	2	4	6	13	23	32								

Sten Mk3 / 9mm Parabellum / UK

\$700

The Sten sub-machinegun was the standard sub-machinegun of British forces during WW II. Over 2 million of the Mark 2 were made in three years. Both the Mark 2 and Mark 3 were mass produced. The Mark 3 started production in 1943 and was essentially identical to the Mark 2 shown above. The Mark 2 was easily dismantled and ideal for clandestine operations in occupied Europe. The Mark 3 was not as easily dismantled and neither were as popular as the M1A1 Thompson.

Physical Data	Aim Time AC Md	Ballistic Data																
		Range in 2 yard hexes																
		10	20	40	70	100	200	300	400									
L 30	1 -22	FMJ PEN	2.3	2.1	1.8	1.4	1.1	.5	.2	.1								
W 7.7	2 -12	DC	3	3	3	2	1	1	1	1								
	3 -9	*JHP PEN	2.2	2.0	1.7	1.3	1.0	.4	.2	.1								
RT 9	4 -7	DC	5	4	4	3	2	1	1	1								
ROF *5	5 -6	*AP PEN	3.2	3.0	2.5	1.9	1.5	.6	.3	.1								
	6 -5	DC	3	3	2	2	1	1	1	1								
Cap 32	7 -4																	
AW 1.3	8 -3																	
	Mag	MA	.2	.4	.9	2	2	5	7	9								
KD 3		BA	45	36	27	20	15	6	0	-3								
SAB 3		TOF	0	1	2	4	6	13	23	32								

Thompson M1928A1 / 45 ACP / USA



First model of the Thompson sub-machinegun with drum magazine.

Physical Data	Aim Time AC Md	Ballistic Data																
		Range in 2 yard hexes																
		10	20	40	70	100	200	300	400									
L 34	1 -26	FMJ PEN	1.7	1.5	1.3	1.0	.8	.4	.2	.1								
W 14.8	2 -16	DC	3	3	2	1	1	1	1	1								
	3 -10	*JHP PEN	1.6	1.5	1.3	1.0	.8	.4	.2	.1								
RT 12	4 -8	DC	5	4	3	2	1	1	1	1								
ROF *7	5 -7	*AP PEN	2.3	2.2	1.8	1.4	1.1	.5	.2	.1								
	6 -6	DC	3	3	2	1	1	1	1	1								
Cap 100	7 -5																	
AW 5.5	8 -4																	
	Drum	MA	.3	.6	1	2	3	6	9	12								
KD 5	10 -2	BA	45	36	27	20	15	5	0	-4								
SAB 3	11 -1	TOF	1	1	3	5	8	18	30	44								

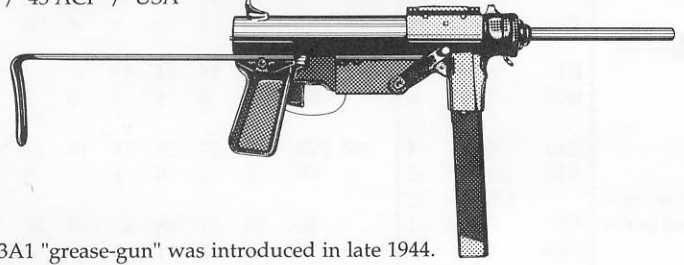
Thompson M1A1 / 45 ACP / USA



Popular wartime version Thompson sub-machine gun.

Physical Data	Aim Time AC Md	Ballistic Data																
		Range in 2 yard hexes																
		10	20	40	70	100	200	300	400									
L 32	1 -24	FMJ PEN	1.7	1.5	1.3	1.0	.8	.4	.2	.1								
W 12.0	2 -14	DC	3	3	2	1	1	1	1	1								
	3 -10	*JHP PEN	1.6	1.5	1.3	1.0	.8	.4	.2	.1								
RT 8	4 -8	DC	5	4	3	2	1	1	1	1								
ROF *6	5 -7	*AP PEN	2.3	2.2	1.8	1.4	1.1	.5	.2	.1								
	6 -6	DC	3	3	2	1	1	1	1	1								
Cap 30	7 -5																	
AW 2.0	8 -4																	
	Mag	MA	.3	.6	1	2	3	6	9	12								
KD 5	10 -2	BA	45	36	27	20	15	5	0	-4								
SAB 3	11 -1	TOF	1	1	3	5	8	18	30	44								

M3A1 / 45 ACP / USA



The M3A1 "grease-gun" was introduced in late 1944.



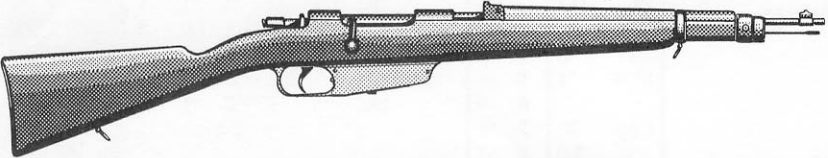
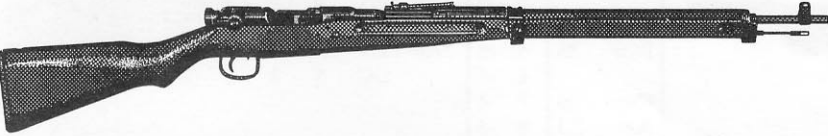
Physical Data	Aim Time AC Md	Ballistic Data																
		Range in 2 yard hexes																
		10	20	40	70	100	200	300	400									
L 23/30	1 -23	FMJ PEN	1.7	1.5	1.3	1.0	.8	.4	.2	.1								
W 9.4	2 -12	DC	3	3	2	1	1	1	1	1								
	3 -9	*JHP PEN	1.6	1.5	1.3	1.0	.8	.4	.2	.1								
RT 8	4 -8	DC	5	4	3	2	1	1	1	1								
ROF *4	5 -6	*AP PEN	2.3	2.2	1.8	1.4	1.1	.5	.2	.1								
	6 -5	DC	3	3	2	1	1	1	1	1								
Cap 30	7 -4																	
AW 2.0	8 -3																	
	Mag	MA	.2	.5	.9	2	2	5	7	9								
KD 5		BA	45	36	27	20	15	5	0	-4								
SAB 3		TOF	1	1	3	5	8	18	30	44								

Reising M50 / 45 ACP / USA



This sub-machinegun was used in small numbers by the US Marine Corps.

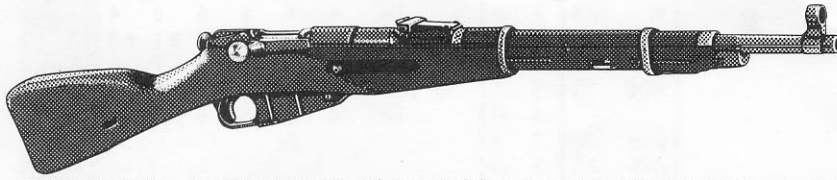
Physical Data	Aim Time AC Md	Ballistic Data																
		Range in 2 yard hexes																
		10	20	40	70	100	200	300	400									
L 36	1 -22	FMJ PEN	1.7	1.6	1.3	1.1	.8	.4	.2	.1								
W 7.6	2 -12	DC	3	3	2	2	1	1	1	1								
	3 -9	*JHP PEN	1.6	1.5	1.3	1.0	.8	.4	.2	.1								
RT 8	4 -8	DC	5	4	3	2	1	1	1	1								
ROF *5	5 -6	*AP PEN	2.4	2.2	1.9	1.5	1.2	.5	.2	.1								
	6 -5	DC	3	3	2	2	1	1	1	1								
Cap 20	7 -4																	
AW 1.3	8 -3																	
	Mag	MA	.3	.7	1	2	3	7	10	13								
KD 5		BA	45	36	27	20	15	5	0	-4								
SAB 4		TOF	1	1	3	5	8	18	30	43								

Bolt Action Rifles	Physical Data	Aim Time AC Md	Ballistic Data	Range in 2 yard hexes							
				10	20	40	70	100	200	300	400
#100 Fusil Mle 34 / Bolt Action Rifle / 7.5mm MAS / France	L 43 W 8.1 3 -9 RT 8 ROF 3 5 -6 6 -5 Cap 5 AW .31 CS 9 -2 KD 9 SAB 6	1 -22 2 -12 3 -9 4 -7 5 -6 6 -5 7 -4 8 -3 9 -2 10 -1 11 0	FMJ PEN DC *JHP PEN DC AP PEN DC BA TOF	17 7 16 9 24 7 61 0	17 7 16 9 23 7 53 0	15 7 15 9 22 7 44 1	14 7 13 9 20 7 37 2	13 7 12 9 18 7 32 2	9.0 6 8.6 8 13 6 23 5	6.4 5 6.2 7 9.0 5 17 9	4.6 3 4.4 5 6.5 3 13 12
MAS 36 / Bolt Action Rifle / 7.5mm MAS / France	 L 40 W 8.6 3 -9 RT 8 ROF 3 5 -6 6 -5 Cap 5 AW .31 CS 9 -2 KD 9 SAB 6	1 -23 2 -12 3 -9 4 -7 5 -6 6 -5 7 -4 8 -3 9 -2 10 -1 11 0	FMJ PEN DC *JHP PEN DC AP PEN DC BA TOF	18 8 18 9 26 7 61 0	18 7 17 9 25 7 53 0	17 7 16 9 23 7 45 1	15 7 14 9 21 7 37 2	14 7 13 9 19 7 32 2	9.8 6 9.4 8 9.9 6 23 5	7.0 6 6.8 7 7.1 5 17 8	5.1 4 4.9 6 7.1 3 13 12
Kar 98k / Bolt Action Rifle / 7.92mm Mauser / Germany	 L 44 W 8.9 3 -9 RT 8 ROF 3 5 -6 6 -5 Cap 5 AW .36 CS 9 -2 KD 10 SAB 7	1 -23 2 -12 3 -9 4 -7 5 -6 6 -5 7 -4 8 -3 9 -2 10 -1 11 0	FMJ PEN DC *JHP PEN DC AP PEN DC BA TOF	18 8 17 9 25 7 63 0	17 8 16 9 24 7 55 0	16 8 15 9 23 7 47 1	15 7 14 9 21 7 39 2	14 7 13 9 20 7 35 3	8.1 6 7.8 8 8.7 6 25 6	6.2 6 6.0 7 7.9 6 19 15	6.2 6 6.0 7 7.9 6 15 12
Ge w 33/40 / Bolt Action Rifle / 7.92mm Mauser / Germany	L 39 W 8.3 3 -9 RT 8 ROF 3 5 -6 6 -5 Cap 5 AW .36 CS 9 -2 KD 10 SAB 7	1 -22 2 -12 3 -9 4 -7 5 -6 6 -5 7 -4 8 -3 9 -2 10 -1 11 0	FMJ PEN DC *JHP PEN DC AP PEN DC BA TOF	16 8 16 9 23 7 63 0	16 7 15 9 22 7 55 1	15 7 14 9 21 7 46 1	14 7 13 9 20 7 34 2	13 7 12 9 18 7 27 3	9.7 6 9.3 8 9.7 6 19 6	7.4 4 7.1 8 7.9 4 15 13	5.6 4 5.4 6 7.9 4 15 13
#65 Fucile Mod 91 / Bolt Action Rifle / 6.5mm Carcano / Italy	 L 51 W 8.8 3 -9 RT 8 ROF 3 5 -6 6 -5 Cap 6 AW .44 CS 9 -2 KD 7 SAB 5	1 -23 2 -12 3 -9 4 -7 5 -6 6 -5 7 -4 8 -3 9 -2 10 -1 11 0	FMJ PEN DC *JHP PEN DC AP PEN DC BA TOF	16 7 16 8 23 6 64 0	16 7 15 8 22 6 57 1	15 6 14 8 21 6 48 1	14 6 13 8 19 6 41 2	12 6 12 8 18 6 37 3	9.2 6 8.9 7 9.7 5 27 6	6.9 5 6.6 7 7.2 4 22 9	5.1 3 4.9 4 7.2 2 18 13
Arisaka Type 99 / Bolt Action Rifle / 7.7 x 58 mm / Japan	 L 44 W 9.4 3 -9 RT 8 ROF 3 5 -6 6 -5 Cap 5 AW .35 CS 9 -2 KD 10 SAB 6	1 -23 2 -12 3 -9 4 -7 5 -6 6 -5 7 -4 8 -3 9 -2 10 -1 11 0	FMJ PEN DC *JHP PEN DC AP PEN DC BA TOF	18 8 18 9 26 7 64 0	18 8 17 9 25 7 56 1	17 7 16 9 24 7 48 1	16 7 15 9 22 7 41 2	15 7 14 9 21 7 36 3	8.8 6 8.4 8 9.6 6 27 6	6.8 6 6.5 7 9.6 6 21 17	6.8 6 6.5 7 9.6 6 17 12

\$150

Bolt Action Rifles

Karabin 1938g / Bolt Action Rifle / 7.62mm Mosin-Nagant / USSR



This weapon is a shortened version of the Model 1891 on which it was based. Unlike other European counterparts, the basic Russian rifle cartridge changed little after 1891 and was used throughout WW I and WW II.

Table with columns: Physical Data (L, W, RT, ROF, Cap, AW, CS, KD, SAB), Aim Time (AC, Md), Ballistic Data (FMJ, *JHP, AP, BA, TOF), and Range in 2 yard hexes (10, 20, 40, 70, 100, 200, 300, 400).

Karabin 1944g / Bolt Action Rifle / 7.62mm Mosin-Nagant / USSR

This weapon was introduced late in the war and is essentially identical to the Karabin 1938g shown above. A folding, cruciform-bladed bayonet was added to the muzzle. Russian bolt action rifles have changed little since the Model 1891. This is in part due to the efficiency of the 7.62mm Mosin-Nagant cartridge. This cartridge was introduced in 1891 and is still in use today.

Table with columns: Physical Data, Aim Time, Ballistic Data, and Range in 2 yard hexes.

Rifle #4 Mk1 / Bolt Action Rifle / .303 British / UK



The Rifle Number 4 was similar to the Short Magazine Lee Enfield used in WW I. The Rifle Number 4 was designed for wartime production and was used throughout WW II. Some of these rifles were made in the USA and in Canada.

Table with columns: Physical Data, Aim Time, Ballistic Data, and Range in 2 yard hexes.

Rifle #5 Mk1 / Bolt Action Rifle / .303 British / UK

\$200

The Rifle Number 5 is a shortened version of the Rifle Number 4 shown above. It was known as the "Jungle Carbine", and was lighter and easier to carry than the full length rifle. The Number 5 had a bell flash hider and was five inches shorter than the standard Number 4. Like all shortened and lightened weapons firing a full sized cartridge, it had a high recoil and muzzle blast. Because of this, it was not particularly popular with the soldiers who used it.

Table with columns: Physical Data, Aim Time, Ballistic Data, and Range in 2 yard hexes.

Pattern 1914 / Bolt Action Rifle / .303 British / UK

When first introduced, the Short Magazine Lee Enfield rifle met with a storm of criticism. As a result the British began development of another rifle, based on a Mauser action. This rifle went to trials in 1913 but was not produced. In 1914 however, wartime rifle production needs could not be met by Lee Enfield, so this rifle was re-introduced as the Pattern 1914. It was actually made in the USA by Remington and Winchester. After WW I the Pattern 1914 rifles were put into storage. In 1940, they were returned to service as Rifles Number 3. They were primarily used by the Home Guard.

Table with columns: Physical Data, Aim Time, Ballistic Data, and Range in 2 yard hexes.

M1903 A4 / Sniper Rifle / 30 '06 Springfield / USA



This was the standard sniper's rifle version of the M1903 rifle. It was equipped with permanent telescope mounts and had no conventional sights. The Weaver Model 330C was the standard telescopic sight.

Table with columns: Physical Data, Aim Time, Ballistic Data, and Range in 2 yard hexes.

Semi-Automatic and Automatic Rifles

MP 43 (Stg 44) / Semi-Automatic Rifle / 7.92mm Kurz / Germany



This weapon used a short 7.92mm cartridge.

Physical Data	Aim Time AC Md	Ballistic Data								
		Range in 2 yard hexes								
		10	20	40	70	100	200	300	400	
L 37	1 -25	FMJ PEN	9.3	8.9	8.2	7.2	6.4	4.2	2.8	1.8
W 12.4	2 -15	DC	6	6	6	6	6	4	3	2
	3 -10	*JHP PEN	8.9	8.5	7.9	6.9	6.1	4.0	2.7	1.8
RT 8	4 -8	DC	8	8	8	7	7	6	4	2
ROF *4	5 -6	AP PEN	13	13	12	10	9.0	5.9	3.9	2.6
	6 -5	DC	6	6	6	6	5	4	2	2
Cap 30	7 -4									
AW 2.1	8 -3									
Mag	9 -2	MA	.2	.5	1	2	3	5	7	10
KD 6	10 -1	BA	58	49	40	32	27	17	12	8
SAB 4		TOF	0	1	1	2	3	7	11	16

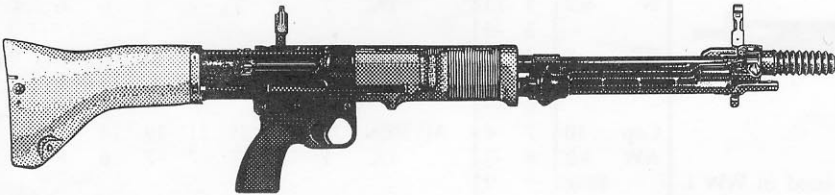
Gew 41 / Semi-Automatic Rifle / 7.92mm Mauser / Germany \$200



The Walther Gew41 was developed during the war and was primarily used on the Russian front. Production ended in 1943 when the Gew 43 went into production. Although out of production after 1943, the Gew 41 remained in use through the war.

L 44	1 -24	FMJ PEN	19	19	18	17	15	12	8.9	6.9
W 11.7	2 -14	DC	8	8	8	8	7	7	6	6
	3 -10									
RT 8	4 -8	*JHP PEN	19	18	17	16	15	11	8.6	6.6
ROF *	5 -6	DC	9	9	9	9	9	8	8	8
	6 -5									
Cap 10	7 -4									
AW .7	8 -3	AP PEN	27	27	25	23	21	16	13	9.6
CS	9 -2	DC	8	8	7	7	7	7	6	6
KD 11	10 -1									
SAB 6	11 0	BA	62	55	46	39	35	25	19	16
		TOF	0	0	1	2	3	5	8	12

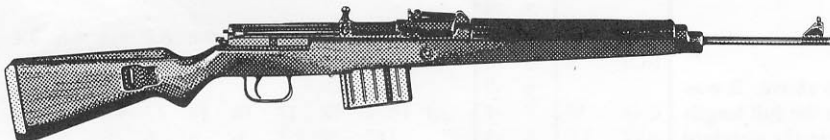
FG 42 / Automatic Rifle / 7.92mm Mauser / Germany



The FG 42 was produced for the Luftwaffe paratroops and appeared in Italy and France. The magazine fed from the left side and it had a bipod and integral bayonet.

L 37	1 -24	FMJ PEN	19	18	17	16	15	11	8.5	6.5
W 11.1	2 -14	DC	8	8	8	7	7	7	6	6
	3 -9									
RT 8	4 -8	*JHP PEN	18	17	16	15	14	11	8.2	6.3
ROF *6	5 -6	DC	9	9	9	9	9	8	8	7
	6 -5									
Cap 20	7 -4									
AW 2.1	8 -3									
Mag	9 -2	MA	.7	1	3	5	7	13	20	27
KD 11	10 -1	BA	62	55	46	39	34	25	19	15
SAB 6	11 0	TOF	0	0	1	2	3	5	9	12

Gew 43 / Semi-Automatic Rifle / 7.92mm Mauser / Germany \$250



The Gew 43 replaced the Gew 41 and was generally used for sniping. It was encountered in small numbers on both fronts, and always as a specialist's weapon. The Gew 43 had a number of improvements over the Gew 41, including a removable box magazine.

L 44	1 -23	FMJ PEN	18	17	16	15	14	11	8.1	6.2
W 10.1	2 -13	DC	8	8	8	7	7	7	6	6
	3 -9									
RT 8	4 -7	*JHP PEN	17	17	16	15	13	10	7.8	6.0
ROF *	5 -6	DC	9	9	9	9	9	8	8	7
	6 -5									
Cap 10	7 -4									
AW 1.1	8 -3	AP PEN	25	24	23	21	20	15	12	8.7
Mag	9 -2	DC	7	7	7	7	7	7	6	6
KD 10	10 -1									
SAB 6	11 0	BA	62	55	46	39	34	25	19	15
		TOF	0	0	1	2	3	6	6	12

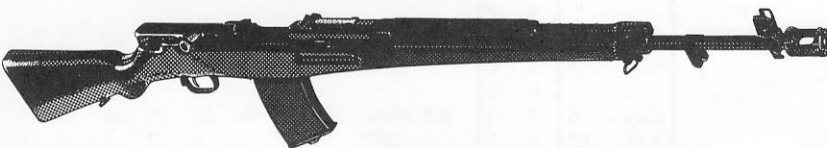
SKS / Semi-Automatic Rifle / 7.62 x 39mm / USSR \$175



The SKS was the first weapon to use the short 7.62 x 39mm round which was later used in the AK 47. This round may have been produced as early as 1943, but it is questionable whether this weapon saw action in WW II.

L 40	1 -23	FMJ PEN	12	12	11	9.4	8.4	5.6		2.6
W 8.6	2 -12	DC	7	7	7	6	6	5		2
	3 -9									
RT 9	4 -7	*JHP PEN	11	11	10	9.0	8.0	5.4		2.5
ROF *	5 -6	DC	8	8	8	8	8	7		3
	6 -5									
Cap 10	7 -3									
AW .62	8 -3	AP PEN	17	16	15	13	12	8.0		3.6
CS	9 -2	DC	7	7	6	6	6	5		2
KD 7	10 -1									
SAB 5		BA	58	49	40	33	28	18		8
		TOF	0	1	1	2	3	6		14

AVS 36 / Automatic Rifle / 7.92mm Mosin-Nagant / USSR



The Simonova AVS 36 was the first automatic rifle adopted by the Russian army. It had a number of design flaws and was replaced in 1938 by the Tokarev SVT 38. The AVS 36 was capable of fully automatic fire.

L 50	1 -24	FMJ PEN	24	23	22	21	19	15	12	9.3
W 10.7	2 -13	DC	8	8	8	8	8	7	7	6
	3 -9									
RT 8	4 -8	*JHP PEN	23	22	21	20	18	14	11	8.9
ROF *5	5 -6	DC	10	10	9	9	9	9	8	8
	6 -5									
Cap 15	7 -4									
AW 1.6	8 -3									
Mag	9 -2	MA	.6	1	3	5	6	13	19	26
KD 12	10 -1	BA	63	56	48	41	36	27	21	17
SAB 6	12 0	TOF	0	0	1	2	2	5	8	11

Semi-Automatic and Automatic Rifles

SVT 40 / Semi-Automatic Rifle / 7.62mm Nagant / USSR



The SVT 40 is a sturdier version of the SVT 38 and essentially identical. The SVT 40 were issued mainly to NCOs, and a few were used as sniping weapons. A few of these weapons were modified for automatic fire.

Physical Data	Aim Time AC Md	Ballistic Data	Range in 2 yard hexes									
			10	20	40	70	100	200	300	400		
L 48	1 -23	FMJ PEN 24	23	22	21	19	15	12	9.4			
W 9.2	2 -12	DC 8	8	8	8	8	7	7	6			
	3 -9											
RT 8	4 -7	*JHP PEN 23	23	21	20	19	15	12	9.0			
ROF *	5 -6	DC 10	10	9	9	9	9	8	8			
	6 -5											
Cap 10	7 -4	AP PEN 34	33	31	29	27	21	17	13			
AW 1.1	8 -3	DC 8	8	8	8	8	7	7	6			
	Mag 9 -2											
KD 12	10 -1	BA 63	56	48	41	36	27	21	17			
SAB 7	11 0	TOF 0	0	1	2	2	5	8	11			

M1 Carbine / Semi-Automatic Rifle / .30 M1 Carbine / USA \$ 200



More M1 Carbines were produced in WW II than any other American weapon. It was designed as a light weapon for use by machine-gunners, mortarmen, and officers. Extremely popular, it was used throughout WW II and the Korean War.

L 36	1 -21	FMJ PEN 6.8	6.4	5.8	4.9	4.2	2.4	1.4	.8			
W 5.9	2 -11	DC 6	6	5	5	4	2	1	1			
	3 -9											
RT 8	4 -7	*JHP PEN 6.5	6.2	5.5	4.7	4.0	2.3	1.3	.8			
ROF *	5 -6	DC 7	7	7	7	6	3	2	1			
	6 -4											
Cap 15	7 -3	*AP PEN 9.6	9.1	8.1	6.9	5.9	3.4	2.0	1.1			
AW .77	8 -2	DC 6	5	5	4	4	2	1	1			
	Mag 9 -2											
KD 5	10 -1	BA 55	46	37	29	24	14	8	5			
SAB 4	11 0	TOF 0	1	1	2	3	8	13	18			

M2 Carbine / Semi-Automatic Rifle / .30 M1 Carbine / USA

The M2 Carbine is identical to the M1 Carbine shown above and was capable of fully automatic fire. A selective fire switch was added to the left side of the weapon. The data for the M2 includes a 30 round magazine. This magazine can also be used with the M1 and changes only the weapon weight.

L 36	1 -21	FMJ PEN 6.8	6.4	5.8	4.9	4.2	2.4	1.4	.8			
W 6.3	2 -11	DC 6	6	5	5	4	2	1	1			
	3 -9											
RT 8	4 -7	*JHP PEN 6.5	6.2	5.5	4.7	4.0	2.3	1.3	.8			
ROF *8	5 -6	DC 7	7	7	7	6	3	2	1			
	6 -4											
Cap 30	7 -3	AP PEN 9.6	9.1	8.1	6.9	5.9	3.4	2.0	1.1			
AW 1.5	8 -2	DC 6	5	5	4	4	2	1	1			
	Mag 9 -2	MA .6	1	2	4	6	12	17	23			
KD 5	10 -1	BA 55	46	37	29	24	14	8	5			
SAB 4	11 0	TOF 0	1	1	2	3	8	13	18			

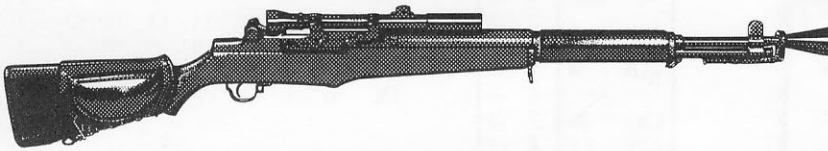
M1 Garand / Semi-Automatic Rifle / 30 '06 / USA \$ 400



The M1 Garand was the first self loading weapon accepted for military service. It entered service in 1936 and by 1941 was the standard US infantryman's weapon. The M1 Garand automatically ejects its ammo clip and single rounds cannot be fed to top off the clip.

L 44	1 -23	FMJ PEN 22	21	20	18	17	13	9.3	6.9			
W 10.0	2 -13	DC 8	8	8	8	7	7	6	6			
	3 -9											
RT 7	4 -8	*JHP PEN 21	20	19	18	16	12	8.9	6.6			
ROF *	5 -6	DC 9	9	9	9	9	8	8	7			
	6 -5											
Cap 8	7 -4	AP PEN 31	30	28	26	24	18	13	9.7			
AW .52	8 -3	DC 8	8	8	7	7	7	6	6			
	Cp 9 -2											
KD 11	10 -1	BA 62	54	45	38	33	24	18	14			
SAB 6	12 0	TOF 0	0	1	2	2	5	8	11			

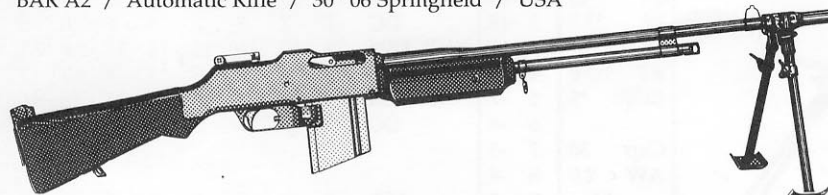
M1E7 / Sniper Rifle / 30 '06 Springfield / USA \$ 700



The M1E7 is a sniper version of the M1 Garand. It was equipped with telescopic sights and a flash hider. Ballistic data is for a streamlined bullet rather than the standard flat based Ball M2. Magazine feed is identical to the M1 Garand.

L 46	1 -23	FMJ PEN 23	23	21	20	18	14	10	7.7			
W 11.6	2 -13	DC 8	8	8	8	8	7	7	6			
	3 -7											
RT 8	4 -5	*JHP PEN 22	22	20	19	17	13	9.8	7.4			
ROF *	5 -4	DC 10	10	9	9	9	9	8	8			
	6 -2											
Cap 8	7 0	AP PEN 33	32	30	28	25	19	14	11			
AW .52	8 1	DC 8	8	8	8	7	7	6	6			
	Cp 9 2											
KD 12	10 3	BA 69	61	52	44	40	30	24	20			
SAB 6	12 4	TOF 0	0	1	2	2	5	8	11			

BAR A2 / Automatic Rifle / 30 '06 Springfield / USA

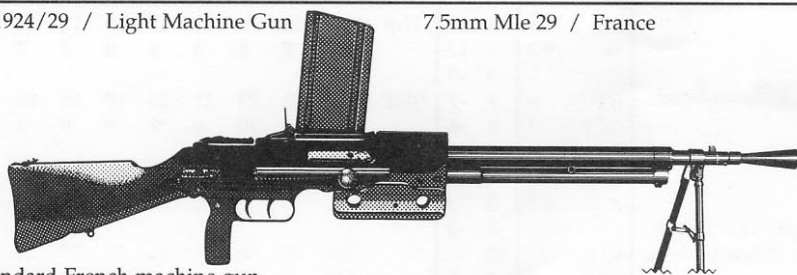


The Browning Automatic Rifle served as a light machine-gun through WW II and the Korean war. It is heavy and has limited magazine capacity, but is very robust and reliable.

L 48	1 -27	FMJ PEN 20	19	18	16	15	11	8.1	6.0			
W 19.7	2 -17	DC 8	8	8	7	7	7	6	6			
	3 -11											
RT 8	4 -9	*JHP PEN 19	18	17	16	14	11	7.8	5.7			
ROF *4	5 -7	DC 9	9	9	9	9	8	8	7			
	6 -6											
Cap 20	7 -5	AP PEN 28	27	25	23	21	16	11	8.4			
AW 1.8	8 -4	DC 8	8	7	7	7	6	6	5			
	Mag 9 -3	MA .3	.5	1	2	3	5	8	10			
KD 10	11 -1	BA 62	54	45	38	33	24	18	14			
SAB 4	13 1	TOF 0	0	1	2	2	5	8	12			

Machine Guns

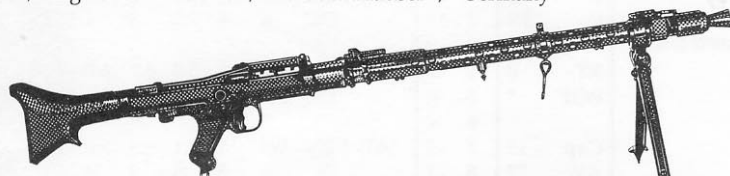
M1924/29 / Light Machine Gun 7.5mm Mle 29 / France



Standard French machine gun

Physical Data	Aim Time AC Md	Ballistic Data									
		Range in 2 yard hexes									
		10	20	40	70	100	200	300	400		
L 43	1 -28	FMJ PEN	18	18	17	15	14	9.8	7.0	5.1	
W 21.5	2 -18	DC	8	7	7	7	7	6	6	4	
	3 -11	*JHP PEN	18	17	16	14	13	9.4	6.8	4.9	
RT 8	4 -9	DC	9	9	9	9	8	8	7	6	
ROF *4	5 -7	AP PEN	26	25	23	21	19	14	9.9	7.1	
	6 -6	DC	7	7	7	7	7	6	5	3	
Cap 25	7 -5										
AW 1.9	8 -4										
	9 -3	MA	.2	.4	.8	1	2	4	6	8	
KD 9	11 -1	BA	61	53	44	37	32	23	17	13	
SAB 3	13 1	TOF	0	0	1	2	2	5	8	12	

MG 34 / Light Machine Gun / 7.92mm Mauser / Germany



Introduced in 1936, it served throughout the war and was available in many configurations; as a bipod mounted light machine gun, tripod mounted anti-aircraft weapon, and tripod mounted heavy machine gun.

L 48	1 -30	FMJ PEN	18	18	17	16	14	11	8.4	6.4
W 29.9	2 -20	DC	8	8	8	7	7	7	6	6
	3 -14	*JHP PEN	18	17	16	15	14	11	8.0	6.1
RT 12	4 -9	DC	9	9	9	9	9	8	8	7
ROF *7	5 -8	AP PEN	26	25	24	22	20	15	12	9.0
	6 -6	DC	8	7	7	7	7	7	6	6
Cap 50	7 -5									
AW 3.2	8 -4									
	9 -3	MA	.3	.7	1	2	3	7	10	14
KD 11	10 -2	BA	62	55	46	39	34	25	19	15
SAB 3	11 -1	TOF	0	0	1	2	3	5	9	12

MG 42 / Light Machine Gun / 7.92mm Mauser / Germany

The MG 42 replaced the MG 34 and was designed for ease of production. It was one of the best machine guns of the war. The MG 42 replaced the MG 34 on the manufacturing line, but the MG 34s in service were never withdrawn. The MG 42 is essentially identical in appearance to the MG 34 shown above and was one of the first belt fed light machine guns. It normally fed from 50 round belts and barrel changes were made after every 250 rounds. Five 50 round belts were normally linked together for sustained fire.

L 48	1 -30	FMJ PEN	18	18	17	16	14	11	8.4	6.4
W 28.7	2 -20	DC	8	8	8	7	7	7	6	6
	3 -14	*JHP PEN	18	17	16	15	14	11	8.0	6.1
RT 12	4 -9	DC	9	9	9	9	9	8	8	7
ROF *10	5 -7	AP PEN	26	25	24	22	20	15	12	9.0
	6 -6	DC	8	7	7	7	7	7	6	6
Cap 50	7 -5									
AW 3.2	8 -4									
	9 -3	MA	.5	1	2	4	5	10	15	20
KD 11	10 -2	BA	62	55	46	39	34	25	19	15
SAB 3	11 -1	TOF	0	0	1	2	3	5	9	12

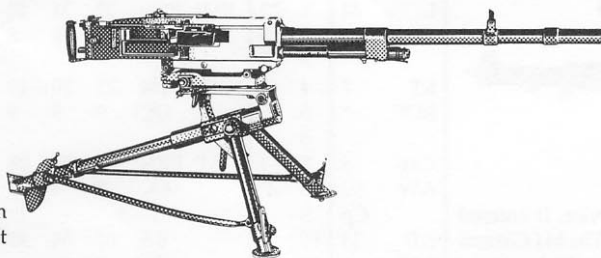
Modello 37

Machine Gun

8mm Modello 35

Italy

Standard machine gun of the Italian army. It fed from a metal strip.



L 50	1 -37	FMJ PEN	21	21	20	18	17	13	9.7	7.4
W 79.2	2 -27	DC	8	8	8	8	8	7	7	7
	3 -21	*JHP PEN	21	20	19	17	16	12	9.3	7.1
RT 8	4 -17	DC	9	9	9	9	9	9	8	8
ROF *4	5 -12	AP PEN	30	29	28	26	24	18	14	10
	6 -9	DC	8	8	8	8	7	7	6	6
Cap 20	7 -7									
AW 1.8	8 -6									
	9 -5	MA	.2	.2	.4	.6	.9	2	3	4
KD 12	11 -3	BA	63	55	47	40	35	26	20	16
SAB 2	13 1	TOF	0	0	1	2	2	5	8	12

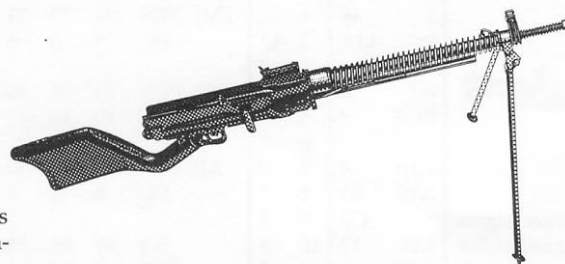
Kikanju 11

Light Machine Gun

6.5mm Meiji 30 (RL)

Japan

Introduced in 1922, this MG was used throughout WW II.



L 44	1 -29	FMJ PEN	17	17	16	15	14	11	8.5	6.7
W 23.9	2 -19	DC	7	7	7	6	6	6	5	5
	3 -12	*JHP PEN	16	16	15	14	13	10	8.1	6.4
RT 16	4 -9	DC	8	8	8	8	8	7	7	7
ROF *4	5 -7	AP PEN	24	23	22	21	19	15	12	9.4
	6 -6	DC	6	6	6	6	6	6	5	5
Cap 30	7 -5									
AW 2.2	8 -3									
	9 -2	MA	.2	.3	.6	1	2	3	5	7
KD 8	10 -2	BA	64	58	50	44	39	30	25	21
SAB 3	11 -1	TOF	0	1	1	2	3	6	9	13

Type 96

Light Machine Gun



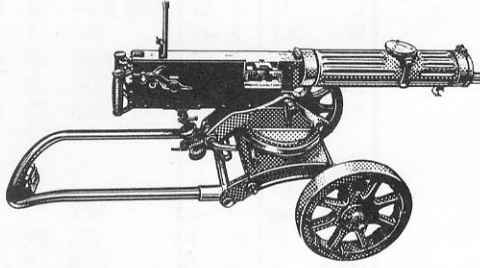
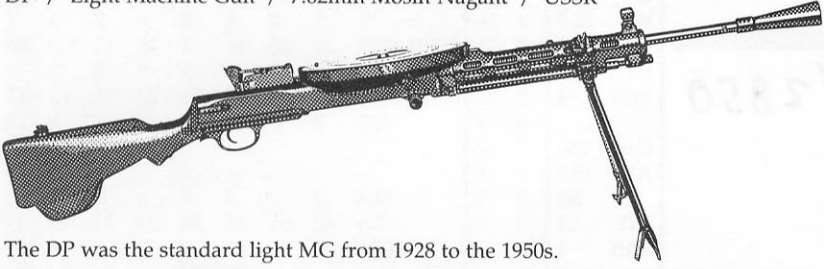
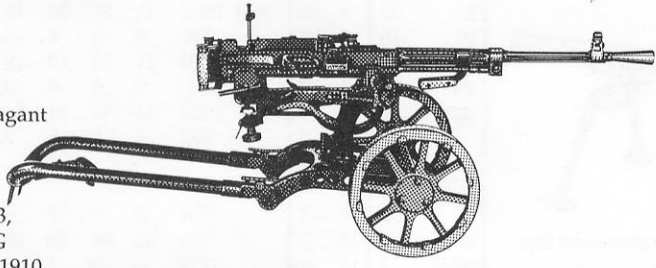
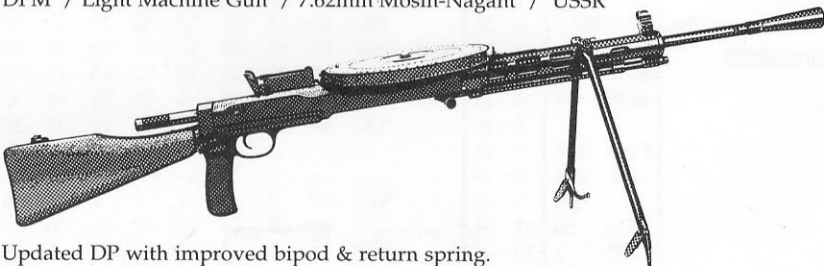
6.5mm Meiji 30 (RL)

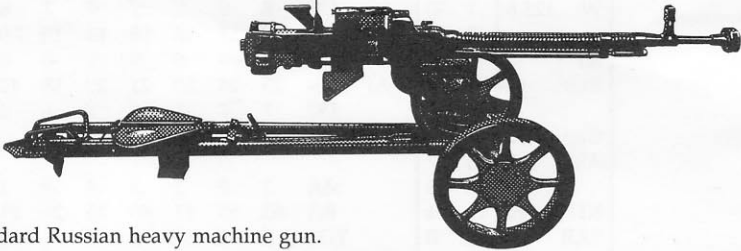


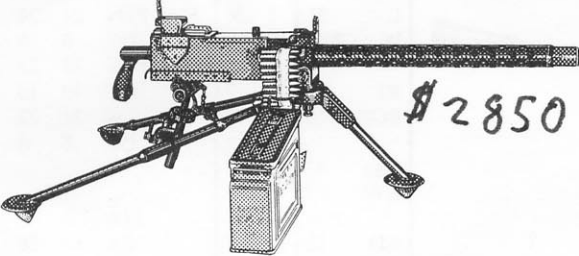
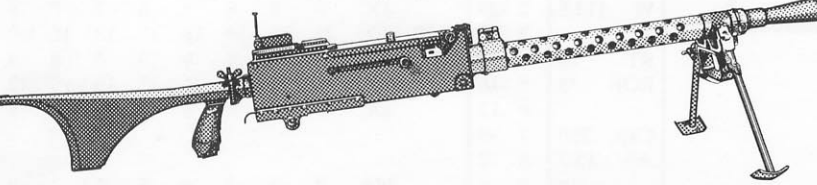
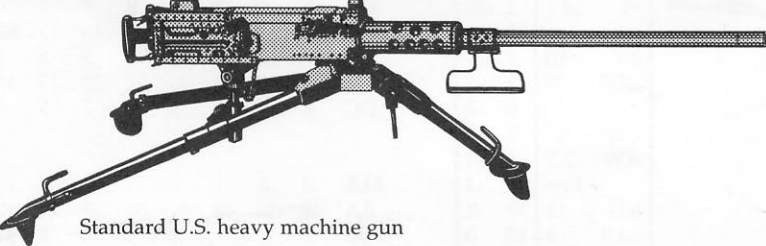
Japan


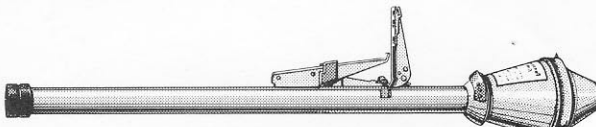
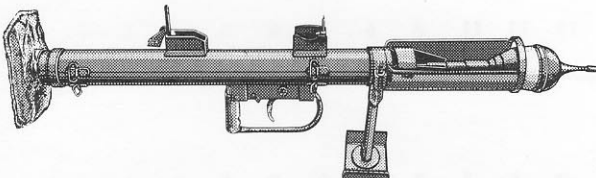
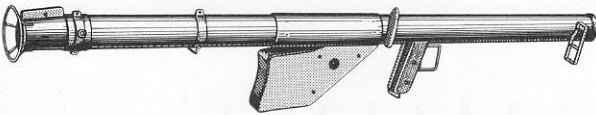
The Type 96 used a 30 round magazine rather than Hopper.















L 42	1 -28	FMJ PEN	18	18	17	16	15	12	9.3	7.4
W 21.5	2 -18	DC	7	7	7	7	6	6	6	5
	3 -11	*JHP PEN	18	17	16	15	14	11	8.9	7.1
RT 8	4 -9	DC	8	8	8	8	8	8	7	7
ROF *5	5 -7	AP PEN	26	25	24	23	21	17	13	10
	6 -6	DC	7	7	7	6	6	6	5	5
Cap 30	7 -5									
AW 2.0	8 -4									
	9 -3	MA	.2	.5	.9	2	2	5	7	9
KD 8	11 -1	BA	64	58	50	44	39	30	25	21
SAB 3	13 1	TOF	0	1	1	2	3	6	9	12

Machine Guns	Physical Data	Aim Time AC Md	Ballistic Data								
			Range in 2 yard hexes 10 20 40 70 100 200 300 400								
Type 92 Machine Gun 7.7mm Shiki 99 Japan The most widely used Japanese machine gun of WW II.		L 46 W 123.8 RT 8 ROF *4 Cap 30 AW 2.1 MS 9 KD 10 SAB 1	1 -40 2 -30 3 -24 4 -20 5 -17 6 -14 7 -9 8 -7 9 -6 11 -4 13 0	FMJ PEN 18 DC 8 *JHP PEN 17 DC 9 AP PEN 25 DC 7 MA .2 BA 63 TOF 0	17 7 16 9 24 7 .2 55 1	16 7 15 9 23 7 .2 47 1	15 7 13 9 21 7 .3 40 2	14 7 13 9 19 7 .4 35 3	11 7 10 8 14 6 1 26 6	8.3 6 6 7 9 6 1 21 9	6.4 6 6.1 7 9.0 5 2 17 13
Type 99 Light Machine Gun 7.7mm Shiki 99 Japan Light machine gun designed for the 7.7 mm Shiki 99.		L 46 W 24.8 RT 8 ROF *7 Cap 30 AW 2.4 Mag 9 KD 10 SAB 3	1 -29 2 -19 3 -12 4 -9 5 -7 6 -6 7 -5 8 -4 9 -3 10 -2 12 0	FMJ PEN 17 DC 7 *JHP PEN 16 DC 9 AP PEN 24 DC 7 MA .4 BA 63 TOF 0	17 7 16 9 23 7 .7 55 1	16 7 15 9 22 7 1 47 1	14 7 13 9 20 7 3 40 2	13 7 9.8 9 19 7 4 35 3	10 7 7.5 8 11 6 7 26 6	6.0 4 5.8 6 8.5 4 14 16 13	
PM 1910 Machine Gun 7.62mm Mosin-Nagant USSR This water-cooled machine gun was in service from 1910 to 1943.		L 44 W 136.0 RT 12 ROF *5 Cap 250 AW 13.5 Blt 9 KD 12 SAB 1	1 -40 2 -30 3 -25 4 -20 5 -17 6 -15 7 -10 8 -8 9 -7 11 -4 13 1	FMJ PEN 25 DC 8 *JHP PEN 24 DC 10 AP PEN 36 DC 8 MA .2 BA 63 TOF 0	25 8 24 10 35 8 .2 56 0	24 8 23 10 33 8 .2 48 1	22 8 21 9 31 8 .3 41 2	20 8 19 9 29 8 .5 36 2	16 7 15 9 23 7 1 27 5	13 7 12.6 8 14 7 1 21 7	10 7 9.6 8 14 6 2 17 10
DP / Light Machine Gun / 7.62mm Mosin-Nagant / USSR The DP was the standard light MG from 1928 to the 1950s.		L 51 W 22.8 RT 10 ROF *5 Cap 47 AW 3.3 Pan 9 KD 12 SAB 4	1 -28 2 -18 3 -12 4 -9 5 -7 6 -6 7 -5 8 -4 9 -3 10 -2 12 0	FMJ PEN 24 DC 8 *JHP PEN 23 DC 10 AP PEN 34 DC 8 MA .3 BA 63 TOF 0	24 8 22 10 33 8 .7 56 0	22 8 20 9 29 8 1 41 1	21 8 19 9 27 8 2 36 2	19 8 15 9 22 7 3 27 5	15 7 12 9 17 7 10 21 8	9.4 6 9.0 8 13 6 13 17 11	
SG 43M Machine Gun 7.62mm Mosin-Nagant USSR Introduced in 1943, this medium MG replaced the PM 1910.		L 44 W 113.5 RT 12 ROF *5 Cap 250 AW 13.7 Blt 9 KD 12 SAB 1	1 -39 2 -29 3 -23 4 -19 5 -16 6 -12 7 -9 8 -7 9 -6 11 -4 13 1	FMJ PEN 22 DC 8 *JHP PEN 21 DC 9 AP PEN 31 DC 8 MA .2 BA 63 TOF 0	22 8 19 9 30 8 .2 56 0	21 8 18 9 28 8 .2 48 1	20 8 17 9 26 8 .4 41 2	17 8 13 9 19 7 .5 36 2	14 7 10 8 15 6 1 27 5	8.3 6 8.0 8 12 6 2 17 11	
DPM / Light Machine Gun / 7.62mm Mosin-Nagant / USSR Updated DP with improved bipod & return spring.		L 50 W 29.1 RT 10 ROF *5 Cap 47 AW 3.3 Pan 9 KD 12 SAB 3	1 -30 2 -20 3 -14 4 -10 5 -8 6 -6 7 -5 8 -4 9 -3 10 -2 12 0	FMJ PEN 24 DC 8 *JHP PEN 23 DC 10 AP PEN 34 DC 8 MA .3 BA 63 TOF 0	24 8 23 10 33 8 .6 56 0	23 8 22 9 32 8 1 41 1	21 8 19 9 30 8 2 36 2	20 8 15 9 28 8 3 27 5	15 7 12 8 17 7 6 21 8	9.5 6 9.1 8 13 6 11 17 11	

Machine Guns	Physical Data	Aim Time AC Md	Ballistic Data										
			Range in 2 yard hexes										
			10	20	40	70	100	200	300	400			
DShK / Heavy Machine Gun / 12.7 x 107mm / USSR		L 62	1 -41	FMJ PEN	43	42	41	38	36	30	25	21	
Standard Russian heavy machine gun.		W 173.5	2 -31	DC	10	10	10	10	10	10	10	10	10
		RT 12	3 -24	*JHP PEN	41	40	39	37	35	29	24	20	
ROF *5			4 -20	DC	10	10	10	10	10	10	10	10	10
		Cap 50	5 -17	AP PEN	61	59	57	54	51	42	35	29	
AW 13.5			6 -14	DC	10	10	10	10	10	10	10	10	10
		Blt 9 -4	7 -11	MA	.2	.3	.5	.9	1	3	4	5	
KD 46			10 -3	BA	63	56	48	41	36	26	21	17	
		SAB 2	11 -1	TOF	0	0	1	2	2	5	7	10	
Vickers Mk1 Machine Gun .303 British Mk8z UK			L 46	1 -38	FMJ PEN	18	18	17	16	14	11	8.6	6.6
Adopted in 1912, it remained in service into the mid 1960s.	W 95.0		2 -28	DC	8	8	7	7	7	7	6	6	
	RT 12		3 -22	*JHP PEN	18	17	16	15	14	11	8.2	6.3	
ROF *4			4 -18	DC	9	9	9	9	9	8	8	7	
	Cap 250		5 -15	AP PEN	26	25	24	22	20	16	12	9.3	
AW 15.0			6 -10	DC	7	7	7	7	7	6	6	6	
	Blt 9 -6		7 -8	MA	.2	.2	.2	.3	.5	.9	1	2	
KD 10			11 -4	BA	63	55	47	40	35	26	20	16	
	SAB 1		13 1	TOF	0	0	1	2	3	6	9	12	
Bren Mk1 Light Machine Gun .303 British UK			L 45	1 -29	FMJ PEN	18	17	16	15	13	10	7.5	5.6
Reliable light machine gun developed in the 1930s.		W 24.1	2 -19	DC	7	7	7	7	7	6	6	4	
		RT 8	3 -12	*JHP PEN	17	16	15	14	13	9.6	7.2	5.4	
ROF *4			4 -9	DC	9	9	9	9	9	8	8	6	
		Cap 30	5 -7	AP PEN	25	24	23	21	19	14	11	7.9	
AW 2.2			6 -6	DC	7	7	7	7	7	6	6	4	
		Mag 9 -3	7 -5	MA	.2	.4	.8	2	2	4	6	8	
KD 10			11 -1	BA	62	55	47	39	35	25	20	16	
		SAB 3	13 1	TOF	0	1	1	2	3	6	9	13	
M1919 A4 Machine Gun 30 '06 Springfield USA			L 41	1 -36	FMJ PEN	22	21	20	18	17	13	9.3	6.9
Standard US anti-aircraft, tank, and infantry machine gun of WW II.	W 76.5		2 -26	DC	8	8	8	8	7	7	6	6	
	RT 12		3 -21	*JHP PEN	21	20	19	18	16	12	8.9	6.6	
ROF *4			4 -16	DC	9	9	9	9	9	8	8	7	
	Cap 250		5 -12	AP PEN	31	30	28	26	24	18	13	9.7	
AW 15.5			6 -9	DC	8	8	8	7	7	7	6	6	
	Blt 9 -4		7 -7	MA	.2	.2	.3	.4	.6	1	2	3	
KD 11			10 -3	BA	62	54	45	38	33	24	18	14	
	SAB 1		12 -1	TOF	0	0	1	2	2	5	8	11	
M1919 A6 / Machine Gun / 30 '06 Springfield / USA			L 53	1 -33	FMJ PEN	22	21	20	18	17	13	9.3	6.9
Developed in 1943, the M1919 A6 is a modified M1919 A4. A shoulder stock and bipod were added.		W 48	2 -23	DC	8	8	8	8	7	7	6	6	
		RT 12	3 -17	*JHP PEN	21	20	19	18	16	12	8.9	6.6	
ROF *4			4 -12	DC	9	9	9	9	9	8	8	7	
		Cap 250	5 -9	AP PEN	31	30	28	26	24	18	13	9.7	
AW 15.5			6 -7	DC	8	8	8	7	7	7	6	6	
		Blt 9 -3	7 -6	MA	.2	.4	.7	1	2	4	5	7	
KD 11			10 -2	BA	62	54	45	38	33	24	18	14	
		SAB 3	11 -1	TOF	0	0	1	2	2	5	8	11	
M2HB / Heavy Machine Gun / .50in Browning / USA			L 65	1 -41	FMJ PEN	49	48	47	45	43	36	31	26
Standard U.S. heavy machine gun	W 157.5		2 -31	DC	10	10	10	10	10	10	10	10	10
	RT 12		3 -26	*JHP PEN	47	46	45	43	41	35	30	25	
ROF *4			4 -21	DC	10	10	10	10	10	10	10	10	
	Cap 110		5 -18	AP PEN	69	68	66	63	60	51	44	37	
AW 28.8			6 -16	DC	10	10	10	10	10	10	10	10	
	Blt 9 -7		7 -12	MA	.2	.3	.6	1	1	3	4	6	
KD 50			11 -4	BA	64	57	49	42	37	28	23	19	
	SAB 2		13 -1	TOF	0	0	1	1	2	4	7	9	

Explosive Weapons	Physical Data	Aim Time AC Md	Ballistic Data Target Range				Explosive Data Range from Burst in Hexes						
			40	70	100	400	C	0	1	2	3	5	10
<p>Sturmpistole / Flare & Grenade Launcher / Germany</p> <p>The Sturmpistole is a modified flare pistol with a rifled bore sleeve, a folding stock, and aiming sights. Data shown to the right is for the pistol loaded with a Panzerwurfkorper 42 anti-tank grenade. The 42 grenade is a modified Number 61 anti-tank rifle grenade. It is muzzle loaded, arms immediately after firing, and is impact detonated. High Explosive (HE) data is for the pistol loaded with a Wurfkorper 361 grenade. The 361 consists of a Number 39 egg grenade mounted on a plastic tube containing the propellant charge. The grenade is muzzle loaded, has a four second (2 phase) fuse, and a Maximum Range (MR) of about 40 hexes.</p>	L 12/23 W 6.8 RT 8 Cap 1 AW HC 1.3 HE .9 MR HC 30 HE 40	1 -22 2 -11 3 -9 4 -7 5 -5 6 -4	HC PEN 900 DC 10 HE PEN 2.9 DC 10 AOI 1 BA 4 TOF 16	PEN 900 2.7 2.7 2.6 2.5 2.3 DC 10 4 4 3 3 3 BSHC *5 6 1 -3 -6 -9 BC 12K 654 165 50 25 11 4 PEN 2.9 2.4 2.4 2.2 2.1 1.9 DC 10 3 3 3 3 3 BSHC *3 4 0 -4 -7 -11 BC 8K 517 137 42 21 9 3									
<p>Panzerschreck / 88mm Rocket Launcher / Germany</p>  <p>The Panzerschreck was a German copy of the US bazookas which were captured in North Africa. Its 88mm rocket contained a hollow charge explosive, and while not as effective as the US bazooka, it was far better than the anti-tank rifles it replaced. The Panzerschreck is handled by a two man team.</p>	L 64 W 27.3 RT 10 Cap 1 AW 7.3 MR 600	1 -29 2 -19 3 -13 4 -9 5 -8 6 -6 7 -5 8 -4 9 -3 10 -2 11 -2 12 -1	HC PEN 920 920 920 920 DC 10 10 10 10 BA 13 5 0 -19 TOF 4 7 11 50	PEN 920 2.5 2.4 2.3 2.3 2.1 DC 10 4 4 4 4 3 BSHC *7 9 2 -2 -5 -8 BC 14K 733 181 54 27 12 4									
<p>Panzerfaust / 48mm Recoilless Gun / Germany</p>  <p>The Panzerfaust was a one shot disposable anti-tank weapon developed near the end of the war. It was not a rocket launcher, but actually a recoilless gun. Explosion of a black powder charge in the launch tube drove the bomb out the front of the tube. The blast was driven out the back of the tube providing the recoilless effect.</p>	L 32 W 9.5 Cap 1 MR 50	1 -23 2 -12 3 -9 4 -8 5 -6 6 -5 7 -4 8 -3	HC PEN 17H DC 10 AOI 1 BA 2 TOF 14	PEN 17H 7.7 7.6 5.8 DC 10 8 8 7 BSHC 34 -3 -8 -12 BC 16T 5K 552 170 82 34 11									
<p>PIAT / Anti-Tank Bomb Launcher / UK</p>  <p>The Projector, Infantry, Anti-Tank weapon or PIAT is a spigot launcher using a steel rod to launch a bomb which is loaded into the muzzle tray. The propellant charge which launches the bomb drives the rod back, cocking it for the next shot.</p>	L 39 W 35.0 RT 16 Cap 1 AW 3.0 MR 70	1 -31 2 -21 3 -15 4 -10 5 -8 6 -7 7 -6 8 -5 9 -4 10 -3	HC PEN 640 640 DC 10 10 AOI 1 BA 4 -4 TOF 11 20	PEN 640 2.5 2.4 2.3 2.3 2.1 DC 10 4 4 4 4 3 BSHC *3 3 0 -5 -8 -12 BC 14K 733 181 54 27 12 4									
<p>M9A1 Bazooka / 2.36 inch Rocket Launcher / USA</p>  <p>The Bazooka fired a 60mm fin stabilized rocket with a hollow charge explosive. The rocket was loaded by an assistant into the rear of the launch tube and connected to an electric firing wire. When the trigger was pressed, two batteries in the pistol grip electrically fired the rocket motor. The bazooka was one of the most effective infantry anti-tank weapons of the war. After the war, a 3.5 inch Super-Bazooka saw service in Korea.</p>	L 54 W 16.7 RT 10 Cap 1 AW 3.4 MR 600	1 -26 2 -16 3 -10 4 -8 5 -7 6 -6 7 -5 8 -4 9 -3 10 -2 11 -1	HC PEN 14H 14H 14H 14H DC 10 10 10 10 AOI 1 BA 12 5 0 -19 TOF 4 7 11 50	PEN 14H 1.5 1.5 1.4 1.4 1.2 1.0 DC 10 2 2 2 2 2 2 BSHC *11 14 3 0 -3 -7 -12 BC 5K 368 103 32 17 7 2									

Grenades / Explosives	Physical Data	Explosion Data																			
		Target Range From Burst in 2 Yard Hexes																			
		C	0	1	2	3	4	5	6	7	8	10	12	14	16	20	25	30	40		
37M46 Fragmentation Grenade  France	Length 3.9 Weight 1.2 Arm Time 3 Fuse 2 Range 14	PEN 2.7 DC 10 BSHC *4 BC 71H	1.7 3 5 459	1.7 3 1 124	1.6 3 -4 38	1.6 3 -7 20	1.5 2 -9 12	1.4 2 -10 9		6 5 4 5	4 3 3 4	3 2 2 3	2 2 1 2	2 1 1 2	1 1 1 1	1 1 1 1	1 1 1 1				
OF 37 Blast Grenade  France	Length 3.9 Weight .6 Arm Time 3 Fuse 2 Range 19	PEN 2.7 DC 10 BSHC *7 BC 71H	1.2 5 9 459	1.1 5 2 124	1.0 4 -2 38	.8 3 -5 20	.7 3 -7 12	.6 3 -8 9	.5 2 -10 6		5 4 3 5	4 3 2 4	3 2 2 3	2 2 1 2	1 1 1 1	1 1 1 1	1 1 1 1				
Defensive Fragmentation Grenade  France	Length 4.3 Weight 1.6 Arm Time 3 Fuse 2 Range 12	PEN 2.5 DC 10 BSHC *3 BC 54H	1.2 2 3 384	1.2 2 0 107	1.2 2 -5 33	1.1 2 -8 17	1.1 2 -10 11		7 6 4 7	6 4 4 4	4 2 2 2	2 2 1 2	2 1 1 2	1 1 1 1	1 1 1 1	1 1 1 1					
Gr 24 Blast Grenade  Germany	Length 14 Weight 1.3 Arm Time 4 Fuse 2 Range 17	PEN 3.4 DC 10 BSHC *2 BC 13K	2.7 4 2 693	2.6 4 -1 173	2.5 4 -6 52	2.4 4 -9 26		16 11 9 16	9 7 5 9	7 5 4 7	5 4 3 5	4 3 2 4	3 2 2 3	2 2 1 2	2 1 1 2	1 1 1 1	1 1 1 1				
M 91 Fragmentation Grenade  Japan	Length 4.9 Weight 1.2 Arm Time 3 Fuse 4 Range 14	PEN 2.4 DC 10 BSHC *3 BC 50H	1.2 2 3 368	1.2 2 0 103	1.2 2 -5 32	1.1 2 -8 17	1.1 2 -10 10		7 5 4 7	5 4 3 5	4 3 2 4	3 2 2 3	2 2 1 2	2 1 1 2	1 1 1 1	1 1 1 1	1 1 1 1				
F 1 Fragmentation Grenade  USSR	Length 4.9 Weight 1.3 Arm Time 3 Fuse 2 Range 13	PEN 2.4 DC 10 BSHC *2 BC 47H	1.1 2 2 351	1.1 2 -1 99	1.0 2 -6 31	1.0 2 -9 16		10 7 5 10	7 5 4 7	5 4 3 5	4 3 2 4	3 2 2 3	2 2 1 2	2 1 1 2	1 1 1 1	1 1 1 1	1 1 1 1				
RDG 33 Fragmentation Grenade  USSR	Length 11 Weight 1.6 Arm Time 4 Fuse 2 Range 14	PEN 2.7 DC 10 BSHC *4 BC 67H	1.8 3 4 445	1.8 3 0 121	1.7 3 -4 37	1.6 3 -7 19	1.6 2 -9 12		8 6 5 8	6 5 4 6	5 4 3 5	4 3 2 4	3 2 2 3	2 2 1 2	2 1 1 2	1 1 1 1	1 1 1 1				
RPG 40 Anti-Tank Grenade  USSR	Length 6.5 Weight 2.4 Arm Time 4 Fuse 1 Range 12	PEN 7.3 DC 10 BSHC *1 BC 71K	7.2 7 1 24H	7.1 7 -3 445	6.9 7 -8 116		57 35 24 57	35 24 18 35	24 18 14 24	18 14 11 18	14 11 8 14	11 8 6 11	8 6 5 8	6 5 4 6	5 4 3 5	4 3 2 4	3 2 1 3	2 1 1 2	1 1 1 1	1 1 1 1	
RG 42 Fragmentation Grenade  USSR	Length 4.8 Weight 1.0 Arm Time 3 Fuse 2 Range 15	PEN 3.0 DC 10 BSHC *3 BC 91H	2.2 3 3 545	2.1 3 0 143	2.0 3 -5 44	2.0 3 -8 22	1.9 3 -10 14		10 7 6 10	7 6 5 7	5 4 3 5	4 3 2 4	3 2 2 3	2 2 1 2	2 1 1 2	1 1 1 1	1 1 1 1	1 1 1 1			
# 36M Fragmentation Grenade  UK	Length 3.5 Weight 1.7 Arm Time 3 Fuse 2 Range 12	PEN 2.5 DC 10 BSHC *3 BC 54H	1.2 2 3 384	1.2 2 0 107	1.2 2 -5 33	1.1 2 -8 17	1.1 2 -10 11		7 6 4 7	6 4 4 6	4 4 2 4	4 2 2 4	2 2 1 2	2 1 1 2	1 1 1 1	1 1 1 1	1 1 1 1	1 1 1 1			
M 2 Fragmentation Grenade  USA	Length 4.5 Weight 1.3 Arm Time 3 Fuse 2 Range 13	PEN 2.3 DC 10 BSHC *2 BC 43H	1.0 2 2 335	1.0 2 -1 95	1.0 2 -6 30	1.0 2 -9 15		10 7 5 10	7 5 4 7	5 4 3 5	4 3 2 4	3 2 2 3	2 2 1 2	2 1 1 2	1 1 1 1	1 1 1 1	1 1 1 1	1 1 1 1			
Mk A3 Blast Grenade  USA	Length 5.3 Weight 1.0 Arm Time 3 Fuse 2 Range 15	PEN 3.8 DC 10 BC 20K	928 218	63	32	20	14	10	8	6	4	3	3	2	1	1	1	1	1		