

# .338 Lapua Mag. SWISS P AP

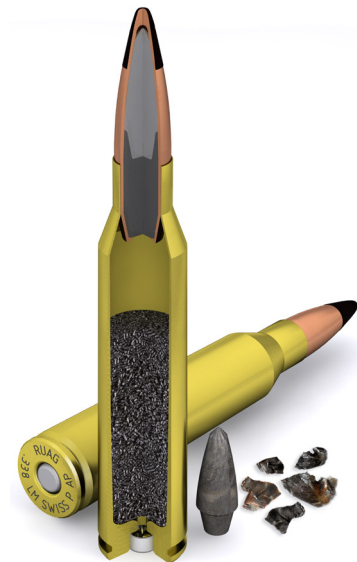
## 16.8 g / 260 gr

The most accurate Armour Piercing round

The tungsten carbide core provides outstanding penetration power

Temperature independent propellant guarantees a consistent point of impact

Coordinated ballistics with SWISS P Ball, Target, Styx Action and Tactical rounds



**RUAG SWISS**   
The Sniper's Choice

### Application

The tungsten carbide core is much harder and more ductile than most targets which makes it unstoppable for light armour. Because the core does not break apart during penetration, it transfers outstanding residual energy to the target.

Using only high quality raw materials and producing within tight tolerances ensures outstanding accuracy from batch to batch.

A wide range of special purpose bullets provide the desired terminal effect on hard and soft targets on every mission. All .338 Lapua Mag. SWISS P rounds have an identical point of impact at 300 m which allows the shooter to instantly change the bullet type.

The .338 Lapua Mag. SWISS P Armour Piercing is also available with a 19.4 g / 300 gr bullet.

### Cartridge

**8.6x70 / .338 Lapua Mag.**

projectile	AP, 16.8 g / 260 gr
projectile material	tombac jacket, tungsten carbide and lead cores
ballistic coefficient G1	0.6773 (ICAO)
primer / propellant	SINOXID / double base powder
case material	CuZn - alloy
cartridge weight	45.0 g

### Performance

term of reference	C.I.P.
mean chamber pressure	max. 4 200 bar (21°C)
muzzle velocity	847 m/s (2 789 fps) 650 mm barrel
muzzle energy	6 026 J
accuracy at 300 m	$S_a \leq 25.5$ mm

### Packaging

20 rds/cardboard box, 200 rds/cardboard box

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# .338 Lapua Mag. SWISS P Armour Piercing

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Ballistic Coefficients	847 m/s	340 m/s	200 m/s
Drag Coefficient	0.2623	0.3108	0.1225
Ballistic Coefficient G1	0.6773	0.4602	0.6338
Ballistic Coefficient G7	0.3526	0.3567	0.3576

Ballistic Coefficients	2779 fps	1115 fps	656 fps
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Ballistic Coefficient G1	0.6773	0.4602	0.6338
Ballistic Coefficient G7	0.3526	0.3567	0.3576

Trajectory	0 m	100 m	300 m	500 m	700 m	900 m	1000 m	1100 m	1200 m	1300 m	1400 m	1500 m	1600 m
Velocity [m/s]	847	801	713	630	554	483	449	417	387	359	335	321	310
Energy [J]	6'026	5'389	4'270	3'334	2'578	1'960	1'693	1'461	1'258	1'083	943	866	807
Time of flight [ms]	0	121	386	685	1023	1410	1625	1856	2105	2374	2663	2969	3287
Wind drift [cm]	0	2	16	47	98	174	222	279	344	420	505	599	699

Trajectory	0 yds	100 yds	300 yds	500 yds	700 yds	900 yds	1000 yds	1100 yds	1200 yds	1300 yds	1400 yds	1500 yds	1600 yds
Velocity [fps]	2779	2642	2381	2134	1909	1700	1601	1514	1399	1246	1146	1097	1058
Energy [J]	6026	5449	4424	3554	2844	2256	1999	1790	1526	1211	1025	939	873
Time of flight [ms]	0	110	346	602	877	1170	1322	1468	1644	1920	2243	2538	2834
Wind drift [inch]	0	0.61	5.58	15.94	32.68	56.98	71.17	88.78	109.03	132.17	158.48	188.30	221.20

Test barrel length: 650 mm / Twist rate: 10" / Crosswind velocity: 5 m/s Reference conditions: 15 °C/59 °F / 1013.25 hPa / 0% humidity / 0 m/ft above sea level

Trajectory	cm	100 m	300 m	500 m	700 m	900 m	1000 m	1100 m	1200 m	1300 m	1400 m	1500 m	1600 m
Rifle zeroed at	100 m	x	-40	-150	-353	-687	-919	-1208	-1567	-2015	-2564	-3226	-4007
	300 m	13	x	-85	-262	-569	-788	-1064	-1410	-1845	-2381	-3030	-3798
	500 m	30	49	x	-146	-420	-622	-881	-1211	-1629	-2149	-2781	-3532
	700 m	51	112	103	x	-231	-413	-651	-960	-1357	-1855	-2466	-3196
	900 m	76	187	230	178	x	-160	-373	-656	-1027	-1501	-2086	-2791
	1000 m	92	235	308	288	138	x	-200	-467	-823	-1281	-1850	-2539
	1100 m	110	290	400	416	303	181	x	-247	-585	-1024	-1575	-2246
	1200 m	131	352	504	563	491	390	232	x	-312	-731	-1261	-1910
	1300 m	156	426	627	734	711	634	501	297	x	-388	-894	-1519
	1400 m	184	510	766	930	963	914	808	632	368	x	-475	-1072

Trajectory	inch	100 yds	300 yds	500 yds	700 yds	900 yds	1000 yds	1100 yds	1200 yds	1300 yds	1400 yds	1500 yds	1600 yds
Rifle zeroed at	100 yds	x	-13.42	-48.70	-112.75	-215.35	-285.45	-371.24	-475.86	-603.50	-759.66	-948.49	-1173.68
	300 yds	4.35	x	-26.71	-81.97	-175.77	-241.48	-322.87	-423.05	-546.29	-698.05	-882.48	-1103.26
	500 yds	9.69	15.80	x	-44.58	-127.71	-188.04	-264.09	-358.94	-476.84	-623.25	-802.27	-1017.70
	700 yds	15.98	34.65	31.41	x	-71.16	-125.21	-194.98	-283.56	-395.13	-535.21	-708.00	-917.07
	900 yds	23.84	58.22	70.68	54.39	x	-46.68	-108.57	-189.29	-293.02	-425.24	-590.10	-791.24
	1000 yds	28.56	72.36	94.25	87.37	41.94	x	-56.73	-132.71	-231.77	-359.23	-519.38	-715.80
	1100 yds	33.59	87.44	119.38	122.56	87.18	50.71	x	-72.40	-166.39	-288.83	-443.94	-635.33
	1200 yds	39.56	105.35	149.23	164.35	140.90	110.40	64.21	x	-88.81	-205.23	-354.37	-539.79
	1300 yds	46.47	126.09	183.79	212.73	203.11	179.51	140.24	82.16	x	-108.48	-250.66	-429.10
	1400 yds	54.33	149.65	223.07	267.71	273.80	258.06	226.63	176.43	103.16	x	-132.82	-303.40

Maximum range: 6906 m / 7552 yds

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## Diagram of different zero ranges

