

.308 Win. SWISS P Tactical

10.6 g / 163 gr

Excellent first hit probability of targets behind angled glass

No projectile deflection and fragmentation ensure the safety of bystanders

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



RUAG SWISS P
The Sniper's Choice

Application

The challenge is to accurately hit targets behind an angled window or wind shield without the risk of unpredictable bullet deflection. This could endanger bystanders, especially if the shooting line is not perpendicular to the window.

Conventional bullets break apart or fragment when penetrating glass which makes accurate shooting impossible. At least 90% of the residual body of the SWISS P Tactical bullet stays intact and it does not fragment at all.

Tight production tolerances and small production batches ensure constant ballistic values and stringent quality controls guarantee identical trajectory from batch to batch.

All .308 Win. SWISS P rounds have an identical point of impact at 100 m which allows the shooter to instantly change the bullet type.

Cartridge

7.62x51 / .308 Win.

projectile	SFNBT, 10.6 g / 163 gr
projectile material	CuZn - alloy
ballistic coefficient G1	0.3032 (ICAO)
primer / propellant	SINOXID / double base powder
case material	CuZn - alloy
cartridge weight	24.6 g

Performance

term of reference	C.I.P.
mean chamber pressure	max. 4 150 bar (21°C)
muzzle velocity	820 m/s (2 690 fps) 650 mm barrel
muzzle energy	3 564 J
accuracy at 100 m	$S_a \leq 18$ mm

Packaging

20 rds/cardboard box, 200 rds/cardboard box

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Ballistic Coefficients	820 m/s	340 m/s	200 m/s
Drag Coefficient	0.4783	0.5233	0.2183
Ballistic Coefficient G1	0.3032	0.2173	0.2729
Ballistic Coefficient G7	0.1569	0.1737	0.1582

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Trajectory	0 m	50 m	100 m	150 m	200 m	250 m	300 m	350 m	400 m	450 m	500 m	550 m	600 m
Velocity [m/s]	820	769	721	674	630	588	548	511	476	444	413	385	358
Energy [J]	3'564	3'134	2'755	2'408	2'104	1'832	1'592	1'384	1'201	1'045	904	786	679
Time of flight [ms]	0	63	130	202	279	361	449	543	645	754	871	996	1131
Wind drift [cm]	0	1	4	9	17	28	42	58	79	102	130	163	200

Trajectory	0 yds	50 yds	100 yds	150 yds	200 yds	250 yds	300 yds	350 yds	400 yds	450 yds	500 yds	550 yds	600 yds
Velocity [fps]	2690	2538	2393	2251	2118	1989	1867	1753	1646	1547	1451	1364	1280
Energy [J]	3564	3171	2821	2495	2208	1949	1716	1513	1333	1179	1037	916	807
Time of flight [ms]	0	59	121	188	258	333	412	495	583	675	773	873	980
Wind drift [inch]	0	0.36	1.40	3.19	5.77	9.23	13.61	19.00	25.46	33.08	41.29	52.08	63.65

Test barrel length: 650 mm / Twist rate: 12" / Crosswind velocity: 5 m/s Reference conditions: 15 °C/59 °F / 1013.25 hPa / 0% humidity / 0 m/ft above sea level

Trajectory	cm	50 m	100 m	150 m	200 m	250 m	300 m	350 m	400 m	450 m	500 m	550 m	600 m
Rifle zeroed at	50 m	x	-3	-9	-19	-33	-53	-79	-113	-155	-208	-273	-353
	100 m	1	x	-5	-13	-27	-45	-70	-102	-143	-195	-259	-338
	150 m	3	3	x	-6	-18	-35	-58	-88	-127	-177	-240	-317
	200 m	5	7	6	x	-9	-24	-45	-74	-112	-160	-220	-296
	250 m	7	10	11	8	x	-14	-33	-60	-96	-142	-201	-275
	300 m	9	15	17	16	11	x	-18	-43	-76	-121	-177	-249
	350 m	11	20	25	27	24	15	x	-22	-53	-94	-148	-217
	400 m	14	25	33	37	37	31	19	x	-29	-68	-120	-186
	450 m	17	31	42	49	52	49	40	24	x	-38	-86	-149
	500 m	21	39	54	65	72	73	68	55	34	x	-43	-102

Trajectory	inch	50 yds	100 yds	150 yds	200 yds	250 yds	300 yds	350 yds	400 yds	450 yds	500 yds	550 yds	600 yds
Rifle zeroed at	50 yds	x	-0.79	-2.70	-5.82	-10.36	-16.54	-24.63	-34.94	-47.82	-63.74	-83.19	-106.77
	100 yds	0.53	x	-1.28	-3.93	-8.01	-13.71	-21.34	-31.17	-43.58	-59.03	-77.99	-101.12
	150 yds	1.01	1.10	x	-2.05	-5.65	-10.88	-18.04	-27.40	-39.34	-54.31	-72.80	-95.47
	200 yds	1.48	2.04	1.55	x	-3.29	-8.06	-14.74	-23.63	-35.10	-49.60	-67.62	-89.81
	250 yds	2.11	3.30	3.43	2.35	x	-4.29	-10.34	-18.60	-29.44	-43.32	-60.71	-82.27
	300 yds	2.89	4.87	5.79	5.49	3.78	x	-4.84	-12.32	-22.38	-35.46	-52.07	-72.85
	350 yds	3.52	6.12	7.68	8.00	6.92	4.20	x	-7.29	-16.72	-29.18	-45.16	-65.31
	400 yds	4.46	8.01	10.50	11.78	11.63	9.85	6.16	x	-8.24	-19.76	-34.79	-54.00
	450 yds	5.41	9.90	13.33	15.55	16.35	15.51	12.76	7.79	x	-10.33	-24.43	-42.69
	500 yds	6.50	12.10	16.63	19.94	21.84	22.10	20.45	16.59	10.14	x	-12.33	-29.48

Maximum range: 3830 m / 4188 yds

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Diagram of different zero ranges

