

# .308 Win. SWISS P Styx Action

## 10.8 g / 167 gr

Outstanding stopping power while minimising the risk of collateral damage

Match grade accuracy

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

Militarised and optimised for automatic weapons

**RUAG SWISS**   
The Sniper's Choice



### Application

The hyper expanding hollow point bullet immediately deposits its energy within a very short distance providing excellent stopping power on soft targets and is direction stable.

The sophisticated bullet tip provides an absolutely reliable hyper expansion to approximately the double of its original diameter.

Tight production tolerances and small production batches ensure constant ballistic values and stringent quality controls guarantee identical trajectory 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 .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               | HPBT, 10.8 g / 167 gr        |
| projectile material      | tombac jacket, lead core     |
| ballistic coefficient G1 | 0.3630 (ICAO)                |
| primer / propellant      | SINOXID / double base powder |
| case material            | CuZn - alloy                 |
| cartridge weight         | 24.8 g                       |

### Performance

|                       |                                   |
|-----------------------|-----------------------------------|
| term of reference     | C.I.P.                            |
| mean chamber pressure | max. 4 150 bar (21°C)             |
| temperature range     | -54°C to +52°C                    |
| muzzle velocity       | 810 m/s (2 657 fps) 650 mm barrel |
| muzzle energy         | 3 543 J                           |
| accuracy at 300 m     | $s_a \leq 27$ mm                  |

### Packaging

20 rds/cardboard box, 200 rds/cardboard box

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| Ballistic Coefficients   | 810 m/s | 340 m/s | 200 m/s |
|--------------------------|---------|---------|---------|
| Drag Coefficient         | 0.4093  | 0.5345  | 0.1647  |
| Ballistic Coefficient G1 | 0.3630  | 0.2168  | 0.3684  |
| Ballistic Coefficient G7 | 0.1877  | 0.1732  | 0.2136  |

| Ballistic Coefficients   | 2657 fps | 1115 fps | 656 fps |
|--------------------------|----------|----------|---------|
| Drag Coefficient         | 0.4093   | 0.5345   | 0.1647  |
| Ballistic Coefficient G1 | 0.3630   | 0.2168   | 0.3684  |
| Ballistic Coefficient G7 | 0.1877   | 0.1732   | 0.2136  |

| 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]      | 810  | 768  | 727   | 687   | 649   | 612   | 576   | 542   | 510   | 478   | 449   | 420   | 393   |
| Energy [J]          | 3543 | 3185 | 2854  | 2549  | 2274  | 2023  | 1792  | 1586  | 1405  | 1234  | 1089  | 953   | 834   |
| Time of flight [ms] | 0    | 63   | 130   | 201   | 276   | 355   | 440   | 529   | 624   | 725   | 833   | 949   | 1072  |
| Wind drift [cm]     | 0    | 1    | 3     | 8     | 15    | 23    | 35    | 48    | 65    | 85    | 108   | 135   | 166   |

| 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]      | 2657  | 2517   | 2395    | 2275    | 2161    | 2049    | 1940    | 1836    | 1739    | 1641    | 1553    | 1464    | 1380    |
| Energy [J]          | 3543  | 3178   | 2877    | 2596    | 2342    | 2106    | 1888    | 1692    | 1517    | 1351    | 1210    | 1075    | 955     |
| Time of flight [ms] | 0     | 58     | 120     | 184     | 251     | 322     | 397     | 476     | 558     | 646     | 736     | 833     | 935     |
| Wind drift [inch]   | 0     | 0.30   | 1.18    | 2.68    | 4.84    | 7.71    | 11.35   | 15.81   | 21.15   | 27.43   | 34.74   | 43.15   | 52.74   |

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  | x    | -3    | -10   | -20   | -35   | -55   | -81   | -114  | -155  | -204  | -264  | -337  |
|                 | 100 | 2    | x     | -4    | -13   | -26   | -45   | -69   | -100  | -139  | -187  | -245  | -316  |
|                 | 150 | 3    | 3     | x     | -8    | -20   | -37   | -60   | -90   | -127  | -174  | -231  | -300  |
|                 | 200 | 5    | 7     | 6     | x     | -9    | -24   | -45   | -72   | -108  | -152  | -207  | -274  |
|                 | 250 | 7    | 11    | 11    | 8     | x     | -13   | -32   | -58   | -92   | -134  | -188  | -253  |
|                 | 300 | 9    | 15    | 18    | 16    | 11    | x     | -17   | -41   | -72   | -113  | -164  | -227  |
|                 | 350 | 12   | 20    | 26    | 27    | 24    | 15    | x     | -20   | -49   | -86   | -135  | -195  |
|                 | 400 | 14   | 26    | 34    | 37    | 37    | 31    | 20    | x     | -25   | -60   | -106  | -164  |
|                 | 450 | 17   | 31    | 41    | 48    | 50    | 47    | 38    | 22    | x     | -34   | -77   | -132  |
|                 | 500 | 20   | 38    | 52    | 62    | 67    | 68    | 62    | 50    | 30    | x     | -39   | -91   |

| 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   | x      | -0.94   | -3.02   | -6.34   | -11.08  | -17.41  | -25.56  | -35.76  | -48.28  | -63.46  | -81.69  | -103.39 |
|                 | 100  | 0.49   | x       | -1.60   | -4.46   | -8.72   | -14.58  | -22.26  | -31.99  | -44.04  | -58.75  | -76.51  | -97.74  |
|                 | 150  | 0.96   | 0.94    | x       | -2.57   | -6.37   | -11.76  | -18.96  | -28.21  | -39.79  | -54.04  | -71.32  | -92.08  |
|                 | 200  | 1.59   | 2.20    | 1.69    | x       | -3.22   | -7.99   | -14.56  | -23.19  | -34.14  | -47.75  | -64.41  | -84.54  |
|                 | 250  | 2.22   | 3.46    | 3.58    | 2.46    | x       | -4.22   | -10.16  | -18.16  | -28.48  | -41.47  | -57.50  | -77.00  |
|                 | 300  | 2.85   | 4.71    | 5.47    | 4.97    | 3.06    | x       | -5.76   | -13.13  | -22.83  | -35.19  | -50.59  | -69.46  |
|                 | 350  | 3.64   | 6.28    | 7.82    | 8.11    | 6.99    | 4.27    | x       | -6.85   | -15.76  | -27.34  | -41.95  | -60.04  |
|                 | 400  | 4.42   | 7.86    | 10.18   | 11.25   | 10.91   | 8.98    | 5.23    | x       | -8.69   | -19.48  | -33.31  | -50.61  |
|                 | 450  | 5.37   | 9.74    | 13.01   | 15.02   | 15.63   | 14.63   | 11.83   | 6.97    | x       | -10.06  | -22.94  | -39.30  |
|                 | 500  | 6.31   | 11.63   | 15.84   | 18.79   | 20.34   | 20.29   | 18.43   | 14.52   | 8.27    | x       | -12.58  | -27.99  |

Maximum range: 4371 m / 4780 yds

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## Diagram of different zero ranges

