

The new 6.5x25 CBJ cartridge system



The 6.5x25 CBJ is a new cartridge system developed by CBJ Tech AB of Sweden. It can be used in most weapons chambered for the 9x19 Parabellum cartridge where only the barrel is replaced.

The different variants of the system covers any application and offers high, and in many aspects extreme, performance in pistols, Personal Defense Weapons and short assault rifles. All variants, except Blank, can be used in the same weapon without any alterations.

Key characteristics:

- High velocity; V_0 of 730-900m/s depending on barrel length
- Optional penetration, from minimal to extreme
- High hit probability due to low recoil and good ballistic performance
- High wounding effect
- High system flexibility
- Sub-caliber variants have a Ballistic Coefficient very similar to that of the 5.56x45 M855



10% ballistic gelatin



6.5x25 CBJ Ball

The 6.5x25 CBJ Ball is the standard cartridge with a tungsten projectile enclosed in a discarding plastic sabot. It offers high penetration and wounding effect even at long range, and is effective against all targets normally engaged with small arms fire. It will penetrate the NATO CRISAT target and 35cm+ of ballistic gelatin at a range of 300m.

6.5x25 CBJ ST

The 6.5x25 CBJ Spoon Tip is exactly the same as the Ball cartridge except that the projectile has a spoon tip, which is a spoon-shaped asymmetry in the tip of the bullet. It affects neither the outer ballistics nor the penetration capability. The spoon tip causes the bullet to tumble quicker than normal in soft targets in order to assure effectiveness in hits with very short wound tracks, for instance extremity hits.



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6.5x25 CBJ HET

The 6.5x25 CBJ High Energy Transfer has a full caliber brass bullet with a hollow base.

The bullet is highly effective within a range of about 50m, after which lethality is rapidly reduced, making it suitable for use in sensitive environments.

Penetration is carefully balanced to suit typical police applications.

6.5x25 CBJ Subsonic AP

The 6.5x25 CBJ Subsonic Armor Piercing fires a heavy, full caliber copper jacketed tungsten projectile at subsonic speed.

It can be effectively used with silencers and offers good penetration, low velocity drop down range and a substantial wounding effect.



6.5x25 CBJ TRP

The 6.5x25 CBJ Training Reduced Penetration has a sabot containing a non-tungsten metal projectile.

It closely duplicates the outer ballistics of the Ball and ST cartridges, but lacks their penetration capacity and decreases its lethality at a higher rate at extended ranges.

It is intended as a full range training round.

6.5x25 CBJ Frangible

This cartridge has a bullet made of a mix of polymer and metal powder.

Penetration capacity of hard objects is minimal, though it will not fragment when passing soft tissue.

As a low cost training round for target shooting, it is effective out to 100m.

As a combat cartridge for use in very sensitive environments, it is effective within 50m.



6.5x25 CBJ Blank

This is a conventional blank cartridge developed for training purposes, such as double sided exercises etc. A blank firing device needs to be attached in order to have a fully functioning cycling.

6.5x25 CBJ Drill

This cartridge is an inert dummy cartridge intended for training purposes such as loading and unloading drills, actions during stoppage etc.



6.5x25 CBJ Ballistic Data

Cartridge	Ball		ST		HET		Subsonic AP		TRP		Frangible	
	110	300	110	300	110	300	110	300	110	300	110	300
Barrel length, mm	110	300	110	300	110	300	110	300	110	300	110	300
V ₀ , m/s	730	900	730	900	730	900	300	325	850	1050	730	900
E ₀ , J	533	810	533	810	666	1013	360	423	325	496	666	1013
V ₅₀ , m/s	678	841	678	841	491	621	289	311	732	918	491	621
E ₅₀ , J	460	707	460	707	302	482	334	387	241	379	302	482
V ₃₀₀ , m/s	457	578	457	578	177	192	244	259	336	417	177	192
E ₃₀₀ , J	209	334	209	334	39	46	239	268	51	78	39	46



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