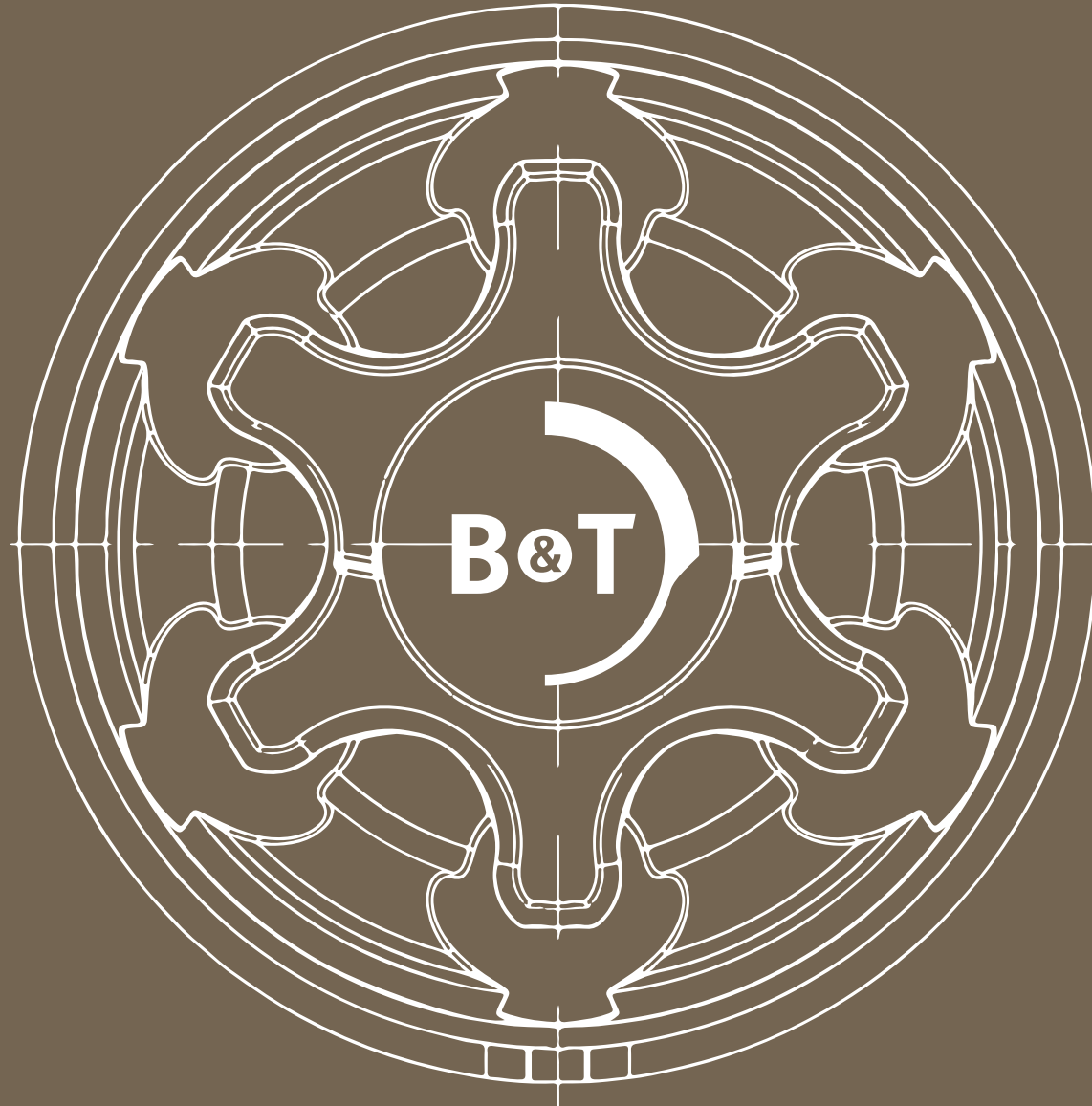


Quality. Precision. Innovation.

# SUPPRESSORS

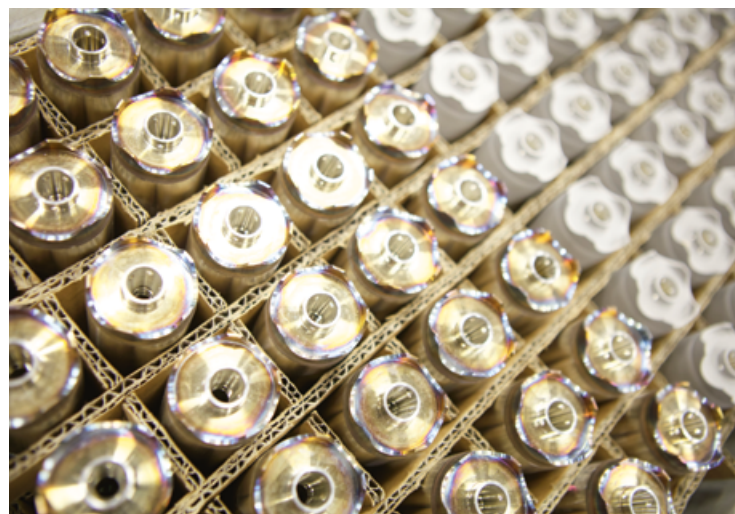


CATALOGUE 25

# B&T: SWISS MADE QUALITY, PRECISION AND INNOVATION.

Over the past 30 years, a small company on the shores of Lake Thun, known to only business insiders, has grown into a small force in the industry. Despite growth and change, B&T has kept the most important thing with that it started more than thirty years ago.

That is, passion for firearms and creating high-precision solutions for the most demanding customers. B&T AG, a Swiss company with an excellent reputation as a specialist producer of carbines, sub-machine guns, suppressors and weapon accessories. B&T stands for quality, precision and innovation worldwide.







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# HISTORY



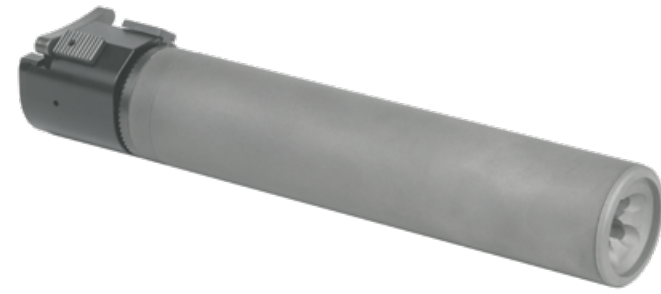
Founding

1992



SUC (Squared Ultra Compact) – 9mm Pistol Suppressor.

1997

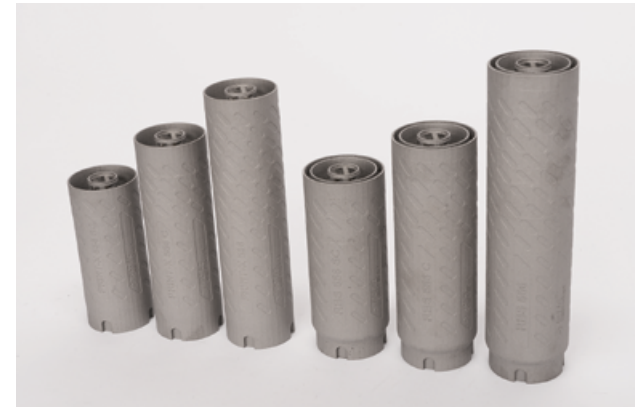


Rotex III – Excellent Suppression.

2009



M.A.R.S. (Miniature Assault Rifle Suppressor) – A new lightweight and accurate interface.



Print-X – Increased performance through 3D printing – Increased durability for Inconel – Reduced weight for Titanium

2019

1991

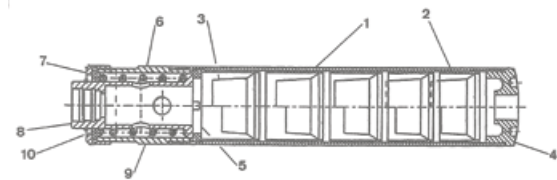


QD SMG/PDW – With minor changes still in use today!

1996



Impuls IIA – Used by Police and Militaries to this day.



2004

MP9/TP9 Suppressor First reduced back-pressure design



2009



Rotex V – The Standard for ARs with NATO flash hiders.

2017



RBS (Reduced Back Pressure Suppressor) – To reduce gas blowback – to protect weapon and shooter.

2024



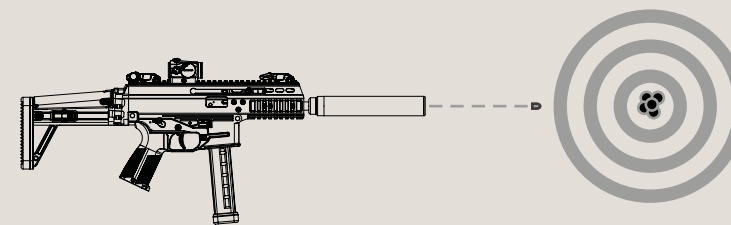
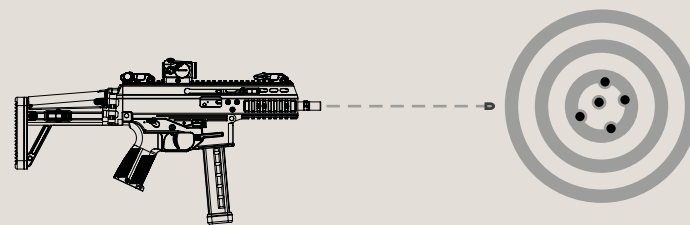
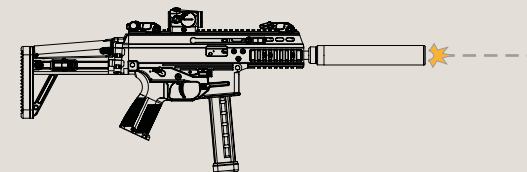
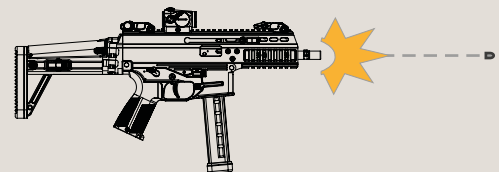
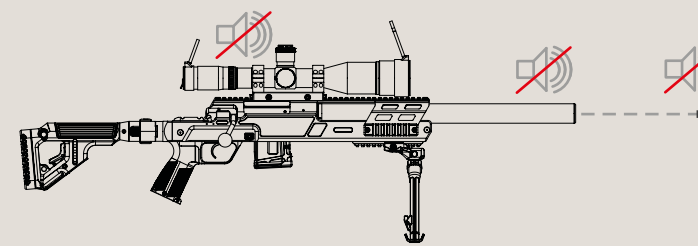
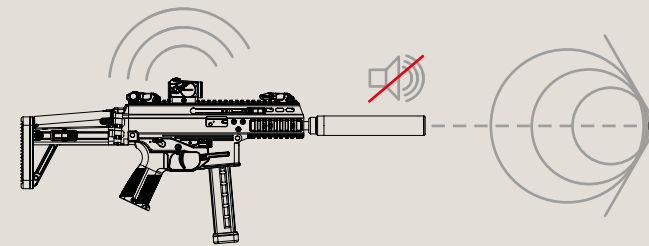
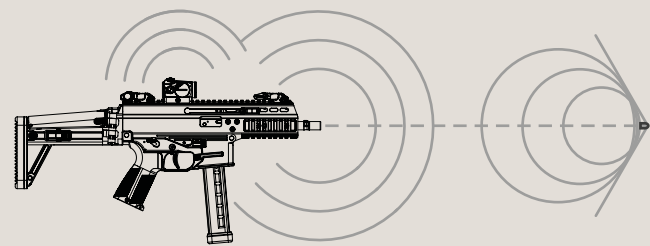
3D-Print



# SUPPRESSOR BASICS

Firearm suppressors have been around for well over 100 years. However, these have become widely popular only over the last 20 years. During this time the requirements have changed in many ways.

While suppressors were initially obscure tools for selected special applications, today these items are the primary instruments for hearing protection and signature reduction. In order to make the actual effects of suppressors clear, some basic principles should be explained.



When a bullet leaves the barrel of a firearm, the gas pressure, equaling several hundreds to thousands of times atmospheric pressure, is suddenly equalized. This process is perceived by the human ear as a loud bang. To reduce it, suppressors restrict and slow the flow of the combustion gases at the muzzle. Another source of sound when a shot is fired is the sound of the bullet moving above the speed of sound. The final source of noise is the mechanical sound of the weapon's bolt or slide. A suppressor cannot influence the acoustics of these final two actions. B&T also has suppressors that are integrated with barrel that are ported near the chamber. This will reduce the speed of 9mm bullets to such an extent that the sound of the bullet breaking the sound barrier does not occur. Suppressed bolt-action weapons when used with subsonic ammunition such as the SPR300 offer minimal noise because there is no mechanical or ballistic noise when fired.

When a bullet leaves the muzzle, there are always some combustible gases and unburned powder particles. When these elements come into contact with the oxygen in the ambient air, they ignite. The resulting muzzle flash can be significantly reduced using suppressors.

Another ballistic phenomenon is when the bullet leaves the muzzle, it is overtaken by the combustion gases. This can destabilize the bullet during flight and reduce accuracy. By slowing down the gases, a suppressor can minimize this disruption to the bullet's flight. The additional mass of the suppressor at the muzzle also reduces barrel vibrations, which can also have a positive effect on the overall accuracy.



## PISTOLS / SUBMACHINE GUNS

The passion of our founder and company owner Karl Brügger is pistol caliber carbines, especially in the 9x19 mm caliber. This is reflected not only in the large number of weapons that B&T offers in this caliber, but also in the associated suppressors.

To meet a variety of applications, B&T offers a wide range of suppressor for pistols, submachine guns and pistol caliber carbines. Do you need a custom suppressor? Contact us! Most of the time, we can find a solution using existing components or design complete custom solutions in the shortest possible time!

PISTOLS / SUBMACHINE GUNS



# PISTOLS



# SMG



## TECHNICAL SPECS

	IMPULS IIA (9MM)	IMPULS IIA COMPACT	IMPULS IIA (.40) <sup>1</sup>	IMPULS IIA (.45) <sup>1</sup>	IMPULS XM	WITH BOOSTER MODULE	PRINT-X XM	WITH BOOSTER MODULE	JET	MINI-JET «HUSH PUPPY»
<b>Caliber</b>	9x19mm	9x19mm	.40 S&W	.45 ACP	9x19mm				.32 ACP / 380 ACP / 9x19mm	
<b>Interface</b>	M13,5x1L, 1/2"-28 <sup>2</sup>		M14,5x1L <sup>2</sup>	M16x1L <sup>2</sup>	M13,5x1L, 1/2"-28 <sup>2</sup>				M12x0.75 M13,5x1L, 1/2"-28 <sup>2</sup>	
<b>Diameter</b>	35mm				35mm				30mm	35mm
<b>Length</b>	199mm	157mm	199mm		152mm	191mm	152mm	191mm	152mm	76mm
<b>Length past muzzle</b>	185mm	142mm	185mm		138mm	177mm	138mm	177mm	142mm	64mm
<b>Weight</b>	404g	332g	487g	489g	237g	298g	215g	250g	116g	95g
<b>Suppression<sup>3</sup></b>	32dB	28dB	30dB	28dB	22dB	28dB	22dB	28dB	29dB	29dB (wet)

<sup>1</sup>Suppressor not depicted  
<sup>2</sup>Other threads possible upon request  
<sup>3</sup>Actual suppression may vary due to firearm, barrel length, ammunition and environmental factors

	RBS MP9/TP9	SMG/PDW QD	SMG/PDW QD COMPACT	SMG INTEGRAL	SMG INTEGRAL COMPACT	SMG INTEGRAL SUBCOMPACT
<b>Caliber</b>	9x19mm	9x19mm		9x19mm		
<b>Interface</b>	MP9/TP9 QD	3-Lug QD		Integral – only for integrally suppressed barrels		
<b>Diameter</b>	50mm	35mm		40mm		
<b>Length</b>	212mm	210mm	146mm	315mm	252mm	189mm
<b>Length past muzzle</b>	188mm	178mm	115mm	–		
<b>Weight</b>	467g	370g	275g	491g	417g	342g
<b>Suppression<sup>3</sup></b>	31dB	32dB	26dB	–	–	–









## SERVICE RIFLE / MACHINE GUNS

**As the main infantry rifles, service rifles are playing a leading role in the spread of firearm suppressors. This is due to their extensive use among police forces and modern armies alike.**

The range of models, calibers, barrel lengths and operating systems found in modern service rifle designs contributes to the wide variety of products found in the B&T suppressors range. In addition to the various muzzle interfaces, there are different suppressor designs with different operating parameters for most calibers to choose from. In addition, B&T has recently developed the next generation suppressor. This is the RBS family of suppressor for automatic weapons. More about this on page 20.

# PRINT-X RBS

Additive manufacturing allows the cost-effective combination of RBS technology with the proven star baffle geometry. In this way, maximum suppression performance is combined with minimal back pressure. This eliminates the need for a gas adjustment on the firearm.



## TECHNICAL SPECS

	PRINT-X RBS	PRINT-X RBS COMPACT	PRINT-X RBS SUBCOMPACT
<b>Caliber</b>	5.56 mm / 7.62 mm		
<b>Interface</b>	HUB		
<b>Diameter</b>	44 mm		
<b>Length</b>	168 mm	128 mm	105 mm
<b>Weight</b>	415 g	345 g	285 g
<b>Suppression<sup>3</sup></b>	32 dB	26 dB	20 dB

	PRINT-X RBS TITAN	PRINT-X RBS COMPACT TITAN	PRINT-X RBS SUBCOMPACT TITAN
<b>Caliber</b>	5.56 / 7.62mm		
<b>Interface</b>	HUB		
<b>Diameter</b>	44 mm		
<b>Length</b>	168 mm	128 mm	105 mm
<b>Weight</b>	295 g	251 g	220 g
<b>Suppression<sup>3</sup></b>	32 dB	26 dB	20 dB

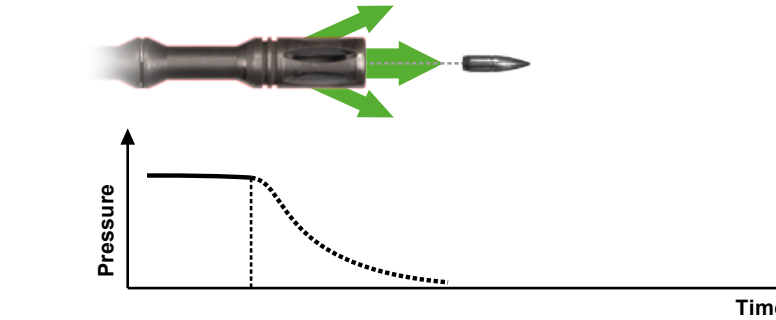
<sup>1</sup>Suppressor not depicted  
<sup>2</sup>Other threads possible upon request  
<sup>3</sup>Actual suppression may vary due to firearm, barrel length, ammunition and environmental factors



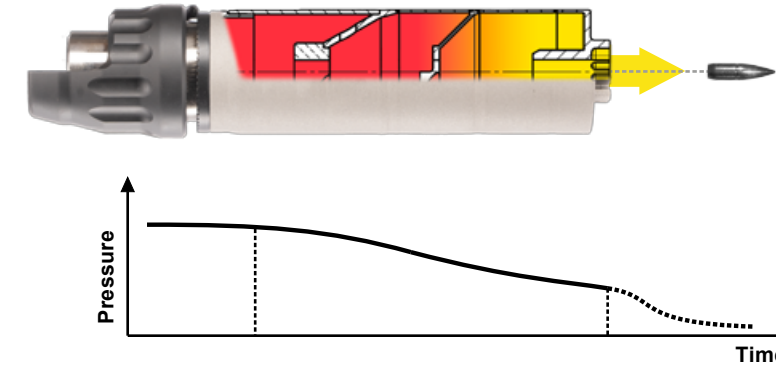
# REDUCED BACKPRESSURE SYSTEM

The patented Reduced Backpressure System was developed to minimize the impact of the suppressor on the firearm and shooter.

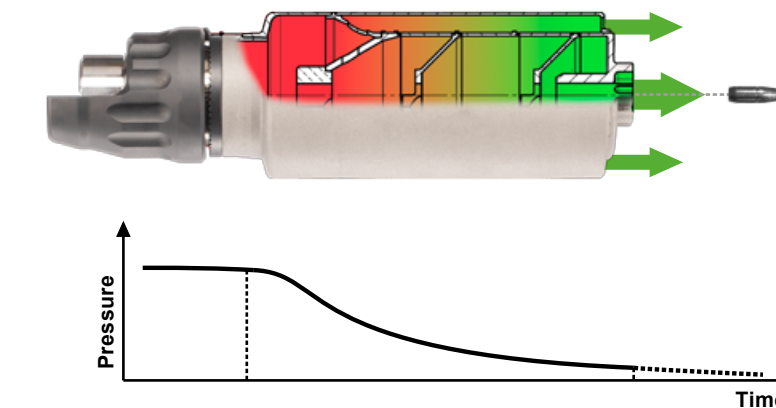
The current generation Print-X RBS shows only 0–5% increase in cadence and bolt velocity, depending on the weapon system. For comparison, the difference between the bolt velocities of clean and lubricated weapons versus dry, dirty weapons usually exceeds 10%.



When shooting unsuppressed, the gas pressure is suddenly equalised to atmospheric pressure at the muzzle. The resulting pressure wave is perceived as a loud bang.



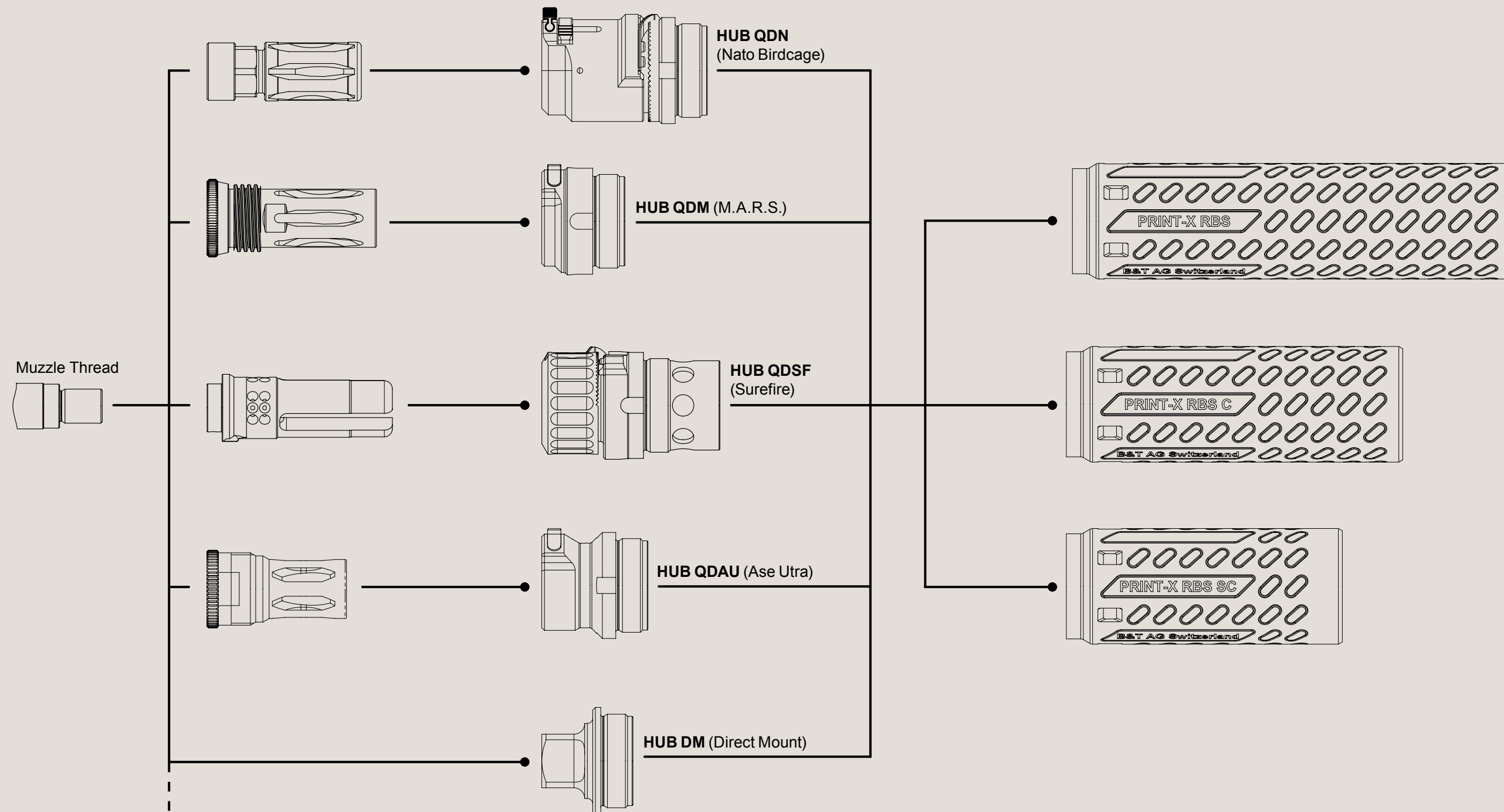
Conventional suppressors reduce the muzzle blast by slowing down the combustion gases at the muzzle. As a result, they create a gas build-up. This leads to an increase of up to 30% in the bolt velocity and rate of fire of self-loading weapons, especially gas-operated ones. A part of the pressure remains until the breech is opened, causing combustion gases to be blown through the ejection port towards the shooter. This phenomenon is called blowback.



To reduce blowback, B&T has developed and patented the Reduced Backpressure System - RBS. In contrast to conventional suppressors, a part of the gases are channeled forward from the first chamber. As a result, the pressure drops significantly faster and considerably less gas reaches the shooter. A further advantage of the reduced back pressure is that the bolt velocity and rate of fire do not increase or only increase minimally depending on the weapon configuration. RBS suppressors can therefore also be used on weapons without an adjustable gas block without causing additional wear on the firearm.

# HUB-INTERFACE

The HUB interface (Harmonised Universal Base) allows any combination of silencer bodies with adapters of all kinds. This means that a silencer can be used on different weapons with different muzzle interfaces. In addition to our own interfaces (NATO, M.A.R.S., QDR), B&T also offers solutions for direct mounting as well as interfaces for the most common silencers from AAC, Acheron, Ase Utra, A-Tec, Huxwrx, SIG, Surefire and others.





# MG

Due to the enormous thermal influences, machine guns place the highest demands on suppressor designs and materials. B&T has accepted this challenge. The result is a range of suppressors that meet the highest requirement. In order to ensure the proper function of the weapon, B&T's patented RBS technology is used. The calibers that are currently covered range from 5.56 mm (.223 Rem.) to 12.7 mm NATO (.50 BMG).



PRINT-X RBS LMG



PRINT-X RBS50 M2A1

## TECHNICAL SPECS

	PRINT-X RBS LMG	PRINT-X RBS50 M2A1
<b>Kaliber</b>	5.56 mm / 7.62 mm	12.7 mm
<b>Anbindung</b>	HUB / QDM / QDAU / DM / ...	1-1/8"-12 L / M30x2L
<b>Durchmesser</b>	44 mm	69 mm
<b>Länge</b>	175-195 mm	275 mm
<b>Gewicht</b>	520-810 g	1950 g
<b>Dämpfung<sup>3</sup></b>	25 dB	24 dB

<sup>1</sup>Suppressor not depicted  
<sup>2</sup>Other threads possible upon request  
<sup>3</sup>Actual suppression may vary due to firearm, barrel length, ammunition and environmental factors

MG

# SUPPRESSOR DUMMIES

B&T offers a wide range of training suppressors and blast deflectors for all applications. This is regardless of whether it is mounted on an inert manipulation weapon, a blue gun for FX or UTM training ammunition or a live weapon, B&T has a training option. These products have no baffles and do not reduce sound. It will focus the energy directly forward of the shooter. These products correspond to the exact size and weight to the live counterparts and provide an excellent way for the most realistic training possible.



RBS QDN TRAINING



ROTEX V COMPACT TRAINING



MARS QD TRAINING RED



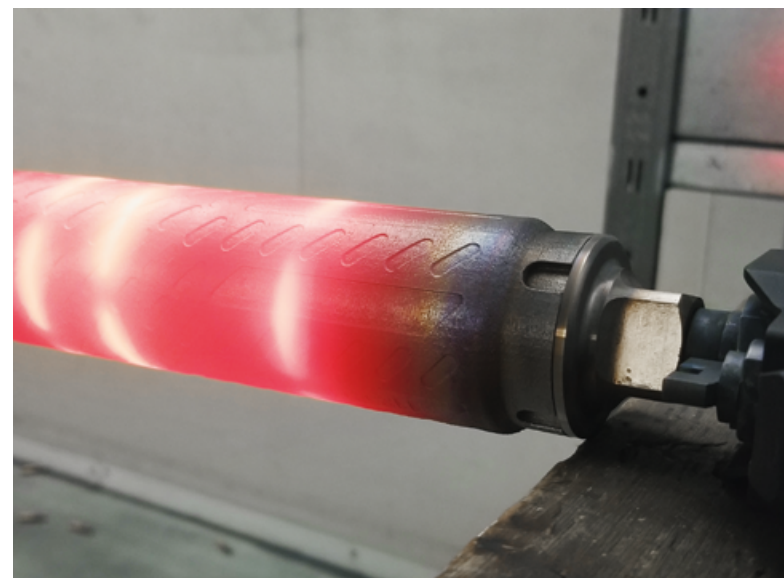
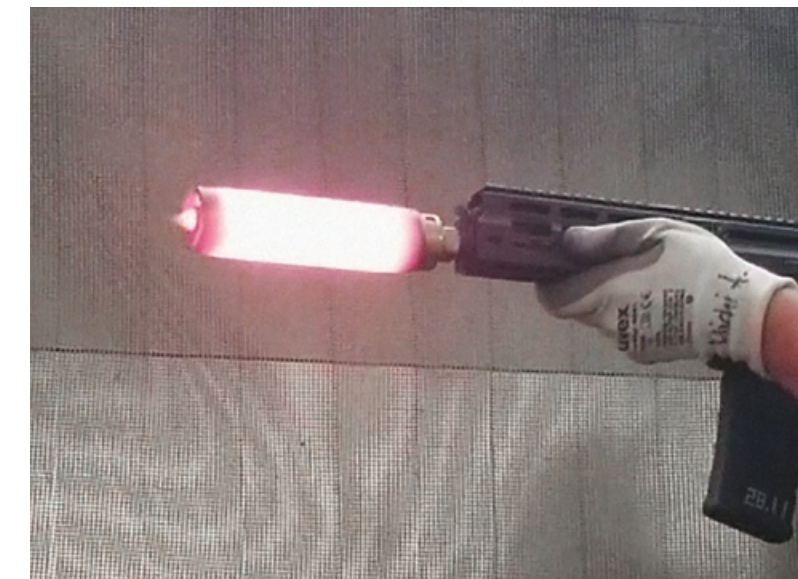
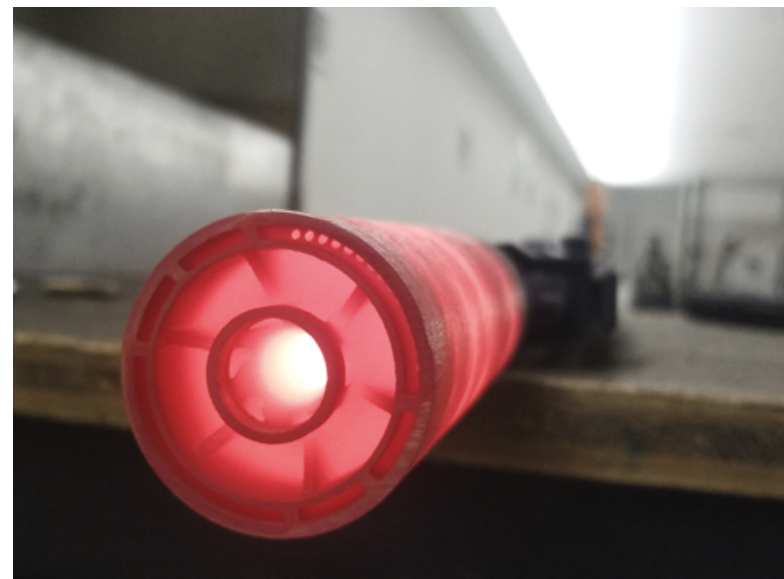
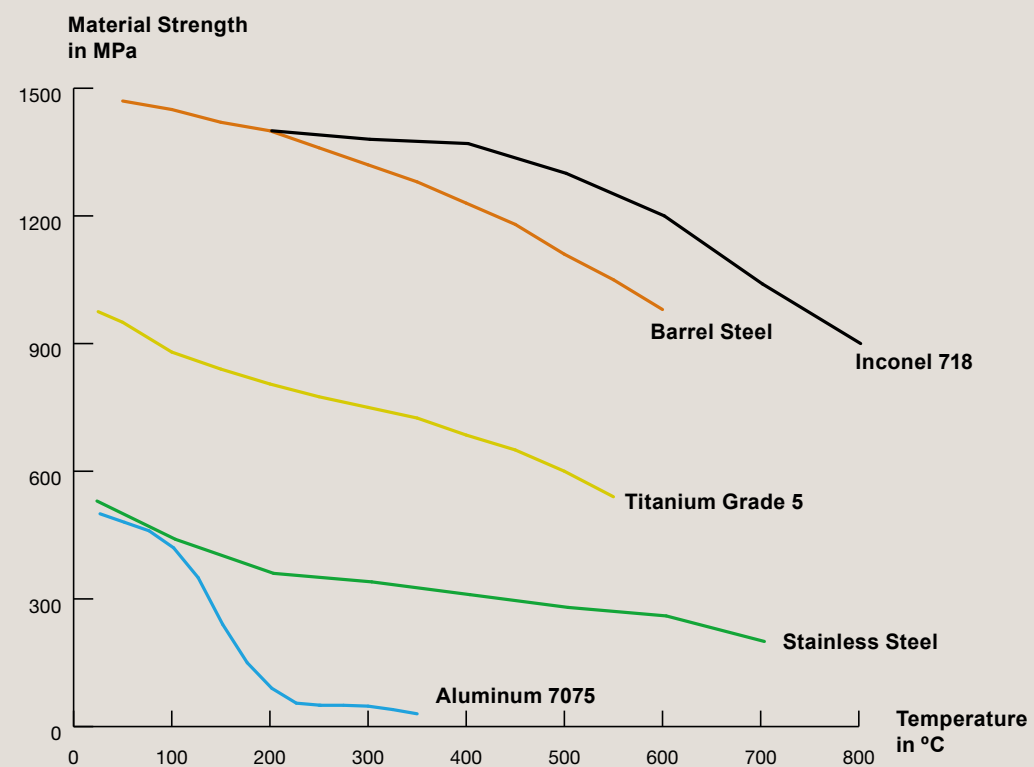
MARS QD TRAINING BLUE

The models shown are examples. We offer you training versions of all of our suppressors that correspond to the live models in terms of dimensions, weight, coupling and handling.

# HIGH ENDURANCE MATERIALS

Previous B&T assault rifle suppressor generations were and are still manufactured from high-temperature resistant steels in combination with a single Inconel part. Inconel is a Nickel-alloy developed to keep its strength at very high temperatures (see diagram). It is also very hard which makes it hard and expensive to machine. It was previously used only in the most highly stressed area of assault rifle and machine gun suppressors - the blast baffle. Using state of the art additive manufacturing however, suppressor bodies can now be completely 'printed' out of Inconel in a cost-effective manner. This allows the new generation of Print-X suppressors to surpass their predecessors impressive records by a wide margin.

In moderate use - single fire and short bursts with appropriate cool-down intervals - the service life of the Print-X suppressor will exceed 20,000 rounds.



Temperature saturation tests proved, that Inconel retains its strength even when glowing white hot. In fact, its strength while glowing still exceeds that of most steels at room temperature.



# HUNTING / PRECISION RIFLES



**The laws in many countries have changed in recent years to allow ownership and use of suppressors. Hunting with suppressors is not only legal in many European countries but is quickly becoming the norm.**

We expressly welcome and support this development. No matter if quiet .22 or powerful big game caliber, suppressors reduce muzzle report, flash and recoil and significantly improve practical accuracy. To meet hunting, target and tactical requirements, B&T has developed a range of suppressors primarily designed for bolt action rifles. If you are plinking, hunting or long-range shooting, with our hunting and precision rifle suppressors you can't go wrong!

# HUNTING / PRECISION RIFLES

B&T hunting and precision rifle suppressors cover everything from small game hunting to long-range shooting. These products are not just accurate and lightweight but also feature a great price-performance ratio! You can choose from a wide range of caliber and thread options to find the ideal solution for any application.

TIRE-X



TIRE-X COMPACT



TIGER



MONOBLOCK



## TECHNICAL SPECS

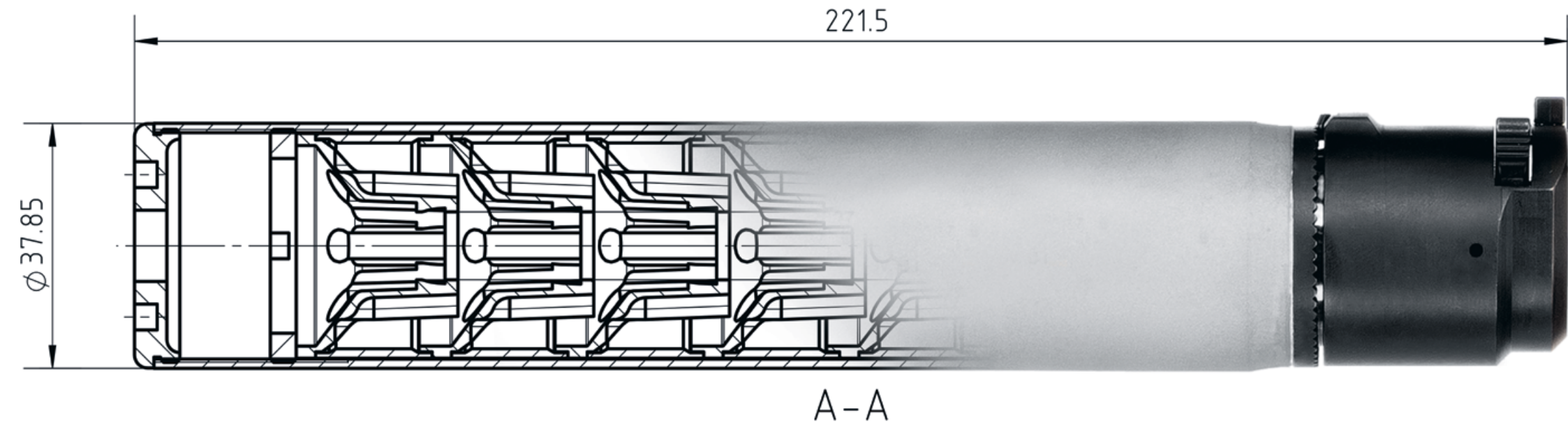
	TIRE-X	TIRE-X COMPACT	TIRE-X DM <sup>1</sup>	TIRE-X COMPACT DM <sup>1</sup>
<b>Caliber</b>	5.7 mm / 6.5 mm / 8 mm / 9.3 mm			
<b>Interface</b>	M10x1 / M14x1 / M15x1 / M16x1 / M17x1 / M18x1 / 1/2-28 UNEF / 5/8-24 UNEF			
<b>Diameter</b>	50 mm			
<b>Length</b>	268 mm	220 mm	216 mm	168 mm
<b>Weight</b>	530 g	460 g	435 g	360 g
<b>Suppression<sup>3</sup></b>	35 dB	32 dB	33 dB	30 dB

<sup>1</sup>Suppressor not depicted  
<sup>2</sup>Other threads possible upon request  
<sup>3</sup>Actual suppression may vary due to firearm, barrel length, ammunition and environmental factors

	TIGER	MONOBLOCK	
<b>Caliber</b>	.22lr	7.62 mm	8.6 mm
<b>Interface</b>	1/2"-20, 1/2"-28, M9x0.75,... <sup>2</sup>	QD Muzzle Break	
<b>Diameter</b>	30 mm	50 mm	
<b>Length</b>	152 mm	297 mm	
<b>Length past muzzle</b>	140 mm	221 mm	
<b>Weight</b>	101 g	652 g	645 g
<b>Suppression<sup>3</sup></b>	29 dB	30 dB	28 dB

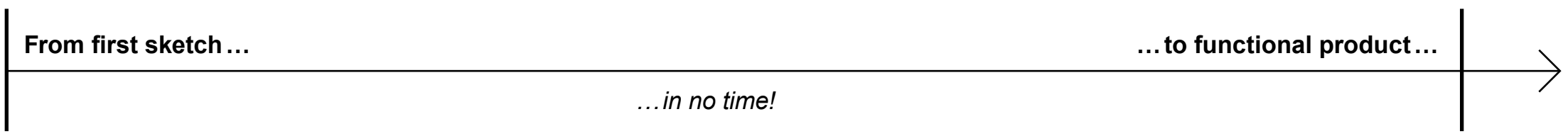


# CUSTOM SOLUTIONS



Firearm requirements and applications can be diverse and often vary greatly. B&T has a wide array of products that range from whisper quiet small caliber firearm suppressors to suppressors for crew served machine guns and to the heavy .50 BMG anti-material rifle.

Experience however shows that change is the only constant in life, customer demands are constantly evolving. B&T thrives pushing the envelope. Our product portfolio is always changing to meet your requirements. You are looking for a custom solution for your specific mission, don't hesitate to ask! B&T is not intimidated by any technical challenge!



**Is is not the big eating the small,  
but the fast overtaking the slow.**

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