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Germany develops a new generation of armor-piercing projectiles to improve combat effectiveness

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Recently, Germany announced that it will develop a new generation of 120mm stabilized armor-piercing projectile with a 120mm tail wing code-named KE2020Neo. After the successful development of this bomb, it may be equipped on the new generation of Leopard 2A7V main battle tank to improve its combat capability.



German Leopard 2A7



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Developed in Germany The armor-piercing projectile in the sexual area is largely due to pressure from Russia. At present, the large number of Russian T90MS equipped with a wedge-shaped bow and a semi-elliptical cast turret with similar horizontal inclination angles of the upper and lower armor plates. As far as passive protection is concerned, the turret of the T-90MS main battle tank is made of a composite armored steel casting base shell with a 435 mm thick plastic-aluminum composite armor inside. Its armor-piercing ability is equivalent to 530 mm rolled homogeneous steel armor. The armor-piercing projectile capacity is equivalent to 520 mm rolled homogeneous steel armor. With the addition of "contact"-5 dual anti-reaction armor, the frontal passive protection capability of the turret is greatly improved. Its armor-piercing projectile ability is equivalent to 780~810mm rolled homogeneous steel armor, and the armor-piercing projectile ability is equivalent to 1020~ 1220 mm rolled homogeneous steel armor.



Russian T90MS tank

The DM53/63 stabilized shelling projectile used by the 120 mm smoothbore gun of the Leopard 2A6 tank currently equipped by the German army has a penetration depth of only 700 mm at an attack distance of 2 kilometers. It is difficult to cause effective damage to the Russian main battle tank, let alone the Russian army. The new fourth-generation tank T-14 "Amata" being equipped has a frontal armor that is 1 meter thick against penetration!

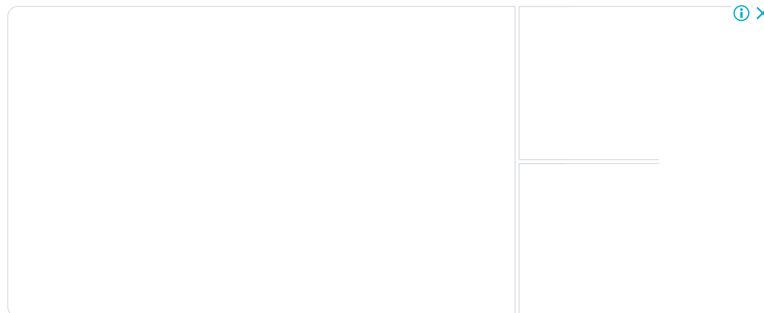
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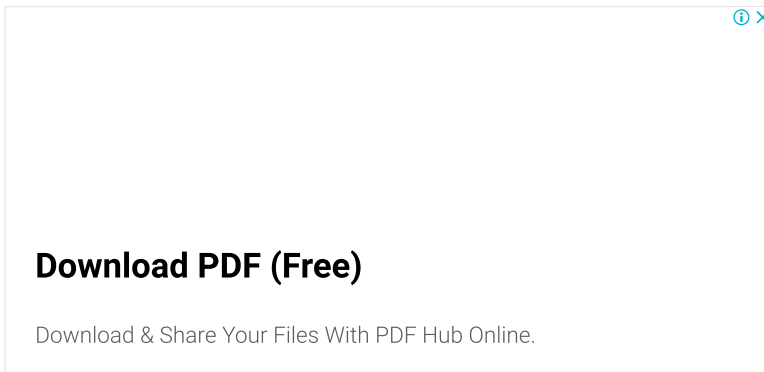
Russian T14 tank

In fact, when the German army was faced with insufficient firepower, it was also prepared to follow the example of the Russian army and increase its caliber to compensate for the insufficient damage. For example, the Russian army generally used 125mm smoothbore guns, and the German army Use 120 mm. During the Cold War, Germany also developed a 140 mm smoothbore gun. However, although this kind of artillery is powerful, it also has the problem of increasing the caliber and too little ammunition carrying base, resulting in a reduction in the continuous combat capability of a single vehicle. For this reason, in the new generation of main battle tank artillery, the Germans took the second place and chose a relatively special caliber of 130 mm. After all, the smoothbore gun of 130 mm caliber, on the one hand, has more than 120 mm caliber smoothbore guns. Power, on the other hand, guarantees the ammunition carried in the car. Today, Germany's new generation of 130 mm caliber smoothbore gun has not only achieved loading tests, but also carried out multiple live firings. From the existing information, this new generation of German 130 mm caliber smoothbore gun has used 51 times The barrel of the diameter, the fired 130mm tail stabilized armor-piercing projectile, has the ability to penetrate more than 1 meter thick RHA at a distance of 2 kilometers, even if it is attacked from the front of a T-14 or "Bastion" M main battle tank, Germany The new generation of 130mm caliber tank guns is also pressureless.



German 130mm tank gun

Therefore, if the information disclosed by the German side this time is true, then from a certain level, the future DM77-style 120mm tail stabilized armor-piercing projectile will undoubtedly become the strongest armor-piercing ability. The 120mm tail fin stabilizes the shelling armor-piercing projectile. Of course, the German DM77-type 120mm tail stabilized armor-piercing projectile is currently in a planning stage without even a conceptual drawing, and its service will still have to wait some time. During this period, whether Russia will further increase the frontal protection capabilities of its main battle tanks to a higher level is also worth looking forward to. Faced with the rapid development of military technology today, the two ends of the conflict between armor and penetration have been declining. The human weapon system must enter the electromagnetic era from the gunpowder era, facing the future of new concept tank guns such as electromagnetic guns. It is not easy to say whether it still has the power to fight.



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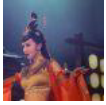
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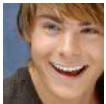
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