MODERN WEAPONS OF WARFARE

Big Guns Described And Military Terms Defined

HE modern field gun in all armies twenty rounds a minute can be mainis a weapon of about 3-inch tained for a few minutes. But the calibre (that is to say, firing a difficulty in obtaining supplies of projectile of about 3-inch diameter), ammunition is so great that only in and it is so constructed that it does altogether exceptional cases is such not jump back or require to be relaid rapidity of fire allowed.

each time that it is fired. To hold the gun steady, it is fitted are two-shell and shrappel. Shell with a cradle, in which it slies when it are cases of steel containing high exrecoils, and the force of the recoil is plosive, usually lyddite, which is a checked by a buffer. The carriage is preparation of piric acid. The charge prevented from shifting by strong is detonated by a fuse, which may be brakes, on the wheels, and a spade on either time, set to go off a certain the trail of the gun. This buries it- number of seconds or fraction of self in the ground

fighting was fierce.

The Caisson. steel plated in front, so as to shelter the men behind it. It contains a ammunition wagon there are seventy man-killers; they are quite ineffective er and sixteen of the heavy howitzer, man-killers; they are quite ineffective er and sixteen of the heavy howitzer, man-killers; they are quite ineffective er and sixteen of the heavy howitzer, man-killers; they are quite ineffective er and sixteen of the heavy howitzer, man-killers; they are quite ineffective er and sixteen of the heavy howitzer, man-killers; they are quite ineffective er and sixteen of the heavy howitzer, man-killers; they are quite ineffective er and sixteen of the heavy howitzer, man-killers; they are quite ineffective er and sixteen of the heavy howitzer, man-killers; they are quite ineffective er and sixteen of the heavy howitzer, man-killers; they are quite ineffective er and sixteen of the heavy howitzer, man-killers; they are quite ineffective er and sixteen of the heavy howitzer, man-killers; they are quite ineffective er and sixteen of the heavy howitzer.

from the French and German guns most trivial wounds.

gun, but are kept steadily on the en- which toss their projectiles high in siege weapons are so heavy and pon- rounds and scored 69 hits. The forty Merchant, Situate on Water

the British and French, a rate of have a range of 7,200 yards-1000 their fire against armies in the field, the machine gun scored 601 hits in 1½ Agents.—nov14

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The projectiles fired by field guns second after leaving the gun; or perworking the gun, by a steel shield, some object, as the ground or a gun- gun.

small bursting charge at the base twice as much. of the projectile. The bursting charge

In most modern field guns, though buildings, and for action against masonry foundations. not in the German, the sights are so troops in trenches, most armies em- Siege artillery of a still heavier type ainst a machine gun for one minute. arranged as not to recoil with the ploy howitzers, short, squat guns, are also sometimes employ d, though The machine gun discharged 228 Mr. John Syme, Commission emy. When the sights recoil the gun- the air (high-angle fire). In the Bri- derous that they become dangerous two marksmen fired 408 rounds and Street West, next to prememy. When the sights recon the gun- the art (high angle hier) is the gun every division has fifty-four to an army which is not certain of scored 62 hits. In another test again- ises occupied by J. J. Mullaly, field guns and eighteen howitzers, being able to advance. Moreover, the st forty-two marksmen and a machine Coal Merchant. Apply to

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The gunners are protected, while cussion, which explodes on striking yards greater than the British field though terrifying at the first to un-

The defect of the howitzer is that slight in proportion of the weight of men strong; the Austrian is 53,000 shells. The value of these shields Shrapnel, so called after their in- the shell is very heavy, and consequ- ammunition used. They are deadly was proved again and again during ventor, the British general, Shrapnel, ently much fewer can be carried than against fortifications. the Balkan wars. Men who kept be- are thin cases of tough steel contain- with the field gun. There is no secuhind them were safe. Men who show-ing a large number of bullets-in the rity that a single howitzer shell will The chief heavy siege guns, all of ed themselves above the shield were British artillery, 263, and in the do twice the damage of an ordinary which are howitzers, are as follows: almost instantly wounded when the French and German, 300-with a field gun shell, though it weighs British 9.4, 51/2 tons, carriage and cavalry is from 3,000 to 4,000 men.

Don't Use Them.

Close beside the gun when it goes breaks the thin steel case, when the The French do not employ a how-tons; Russian 12-inch, 6 tons, carriage cavalry from 1,000 to 2,000 men. A into action is the ammunition wagon, bullets sweep forward with the velo- itzer in their artillery. The Germans and equipment 28 tons. The troubles battalion of infantry is 1,000, comsometimes called the caisson. It is city imparted to the projectile of the have a heavy pattern of 6-in. calibre of a commander doomed to drag about posed of four companies, each 250 to be handled easily. In the French Shrapnel are regarded as good army corps has eighteen of the light-may be imagined.

two rounds, and when they have been against buildings, where shells are in addition to 126 field guns. Heavy fire rifle cartridges with great speed army is composed of two or deadly. Against men they are always artillery is taken into the field by by mechanical means, the force of the army corps satisfactory. So far back as the Duke most of the armies except the French, recoil being generally used to load the The weight of the shell fired from of Wellington's day there were com- The British division has with it four gun. They are very portable and exthe British field gun is 18½ pounds; plaints that they caused only the admirable sixty-pound guns, which ceedingly deadly, and make remarkhave a range of 9,500 yards and are ably good shooting. For the attack on field guns and very effective against buildings and In a test forty-two British first-

With good modern guns, such as meter and weighing 35 pounds. They grave problem, whilst the effect of men scored 429 hits in six minutes; BAINE JOHNSTON & CO., The howitzers are of 4.5-inch in dia- supply of ammunition for them is a gun each fired 750 rounds. The marks-

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idea of the deadliness of the machine Various Machine Guns. The British machine gun is the Maxim; the French the Hotchkiss or

minutes. These figures give a good

Puteaux; the German the Maxim; the Austrian the Schawzlose. In all cases machine guns are attached to the infantry, the proportion in the British, French and German armies being two guns per battalion or 1,000. A pontoon, used for bridging rivers, is a lightly built punt, usually made of canvas stretched over a steel or wooden frame. The pontoons are conveyed in wagons. There are thirty two in each British building train, sufficient to build a bridge 100 yards long. The time required is about four

An army corps, a term which constantly recurs in war telegrams, varous armies, and may not be the same for the same army at all time. The trained troops, is comparatively British army corps is about 38,000 men strong; the German, Russian and French vary from 40,000 to 55,000

equipment 20 tons; German 11.2-inch, A brigade of infantry is from 3,400 to 6 tons, carriage and equipment 22 4.000 men strong, and a brigade of firing a shot of about 90-1b., and a with him weapons weighing thirty- strong. A battery of artillery has lighter pattern of 4.2 in. calibre. Each four tons in wet weather on bad roads from four to six guns, and is usually

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class shots were fired at a target ag- The office lately occupied by

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