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## Section I. ORGANIZATION.

1. GENERAL A salient feature of the organization of Japanese artillery prior to the outbreak of the present war was the absence of any adequate provision for the control of artillery by higher echelons. Preponderant, indeed almost exclusive, employment of artillery in the role of a forward infantry-support weapon justified, in the minds of Japanese staff officers, the allocation of small artillery units to infantry control, and a disproportion ate number of independent artillery units. Even the absence effect control was justified rovisions for divisi nder this concep rs, lery headd t 2 oth army tillery com ls) gr H quar have been htifi arti h tot he a art qua or major general. The commander exerger cises direct command over a tillery directly attached to the army, and provides for unified control of army and division artillery. The artillery group headquarters is commanded by a major general or colonel and includes methodal personnel of 170 officers and enli me is headquarters exercises control of all division artillery and e es bf tl nt regime reg tł ati Ital nsions. Command. According to Japanese docas a rule consolidates all the artillery, trine, "The division comma both divisional and attached, and entrusts its direction to the division artillery commander." Nevertheless, the regulations state that "depending on the situation, an important part of the artillery may be ed a mmanders." and thus far in actual prac disposal of front-li tion bee: ιth xception. lan neoreneally der d es the ba lea sion he m hf e d kiti fa тb ts rel ry ten and iel s necessary to ensure effective coder

operation between infantry and artillery. The division artillery commander, in turn, usually a colonel, assigns missions to each battalion or other unit under his control and provides for coordinated control of fire.

**b.** The Standard Artillery Regiment (Horse-drawn). The normal artillery component of the Japanese triangular division is the 36-gun regiment of 75-mm field or mountain artillery. The regiment may be either horse-drawn or motorized; if the former, it has a personnel of about 2,300. The horse-drawn regiment consists of a regimental headquarters, three bat-

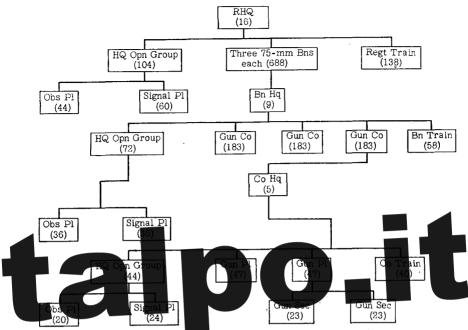


Figure 1.—The Standard Artillery Regiment (Horse-drawn).

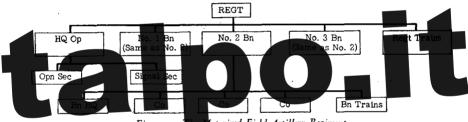


Figure 2.— The Motorized Field Artillery Regiment.



Figure 3.—Part of a motorized 105-mm gun battery. (The tractors are 4-ton Model 94 Sumidas; one draws two Model 92 gun caissons, each holding 24 rounds, the other a Model 92 105-mm gun. The touring car is a Model 1929 Buick. Beyond the Buick is a Model 94 truck chassis fitted as a battery detail vehicle.)

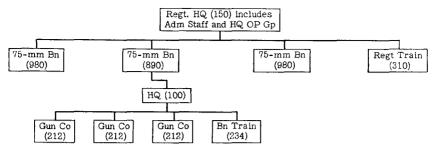


Figure 4.—The Mountain Artillery (pack) Regiment



Figure 6.-Model 92 (1932) 105-mm gun in position in a depression on the reverse slope of a hill.

talions armed with 75-mm guns, and a regimental train. Approximately 2,000 horses are used for traction and mounts.

The regiment is commanded by a colonel or lieutenant colonel, with an adjutant and a staff of 14 noncommissioned officers and enlisted men. Its headquarters operational group, with a total personnel of 104, comprises an observation platoon and a signal platoon of two sections (one wire and one radio). The regimental train, commanded by a captain or a lieutenant, has a personnel of 138 officers and enlisted men allocated to three ammunition platoons and one field baggage platoon. Each battalion has a total strength of 688 officers and enlisted men; each gun company (battery) has a complement of 183, while 58 officers and enlisted men are in charge of each battalion train.

c. The Standard Ar ry Regiment (Motorized). The total strength motorized version he rtill nt is some dra 0. h reg h 12 n in head ters assign me tr 3 ach thr aŋ tho ota re nta s 1.9

. The Mountain Artiller ack) Regiment. The organization of the mountain artillery regiment is similar to that of the standard regiment, except that all equipment is carried on pack animals, and the companies (batteries) are armed with thirty-six 75-mm mountain guns in d of Its strength is somewhat greater than that of the eld pieces. ta eld artill egim wing gth of the SOK trength o he Un 7ag e tol mo

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Some regiments include a bartalion of 105-mm pack howitzers, for the existence of such a weapon has been reported, and there is reference to it in a Japanese document. The traverse of the weapon as reported is very narrow, in contrast to the current tendency in the construction of new Japanese artillery pieces which have a traverse of at least 30°. This factor, together with certain other evidence, suggests that the weapon may be an old one.

horse drawn, the regiment numbers approximately 2,380 officers and men; this figure will be materially reduced with motorization.

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**f.** Artillery in the Strengthened Division. In the strengthened division, as distinguished from the normal triangular type, the artillery element consists of an artillery group commanded by a major general or colonel. Such a group comprises a headquarters and a regiment of field artillery, armed with 75-mm guns and 105-mm howitzers. It also includes a battalion of medium artillery equipped with 150-mm howitzers. Other independent artillery units also may be attached if the missions of the group or tactical

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exigencies warrant such increases in its strength. Antiaircraft and antitank units also may operate under the control of the artillery group.

g. The Medium Artillery Battalion. The medium artillery battalion, as pointed out in f above, may be assigned or attached to the artillery group of a strengthened division. Possibly because the Japanese are inadequately supplied with this type of artillery, constituent companies, or even smaller units of the battalion in many instances, will be attached piecemeal. medium artillery battalion on Saipan was equipped with twelve 150-mm howitzers, eight 105-mm howitzers, and four unidentified pieces. Usually, the battalion will have a total of twelve pieces.

The battalion consists of a headquarters, with the usual administrative p, and three companies each equipped 🗖 staff and operational g rith fou

otal strength of the battalion is estimat -mm howitzers. t٩ d m Τ is afforde 76 un 4 11 d t such

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re is little information about Japanese 3. HEAVY ARTILLERY. heavy artillery; but it is known that there are heavy artillery regiments of Although no organizations of the mebile both the mobile and fixed type. een in existence prior to 1937, there now are as type are believed to hap e fixed h<u>eavy</u> artiller iments were d y as 12 regiments. ne þЬ ich un batter and of /1ĥ, believed th e m e t are s at rgan e u d ai 5.9 are

The fixed type, in addition (9.45 mch nowitzers. to 240-mm howitzers, are repo to be equipped with an undetermined number of 300-mm howitzers.

ELLIGENCE) 4. **OBSERVATION** REGIMENTS. (Jonera echnical efficiency at and tech Τ ation рa Since r te έo ak he sent hd (int g ng of be er, e o ra en eg ts ntif Ko In in h been tan been very accurate, these results were eounterbattery l pa.

ound ranging, flash ranging, and wellachieved, it is believed, by use coordinated air observation. Existence of observation regiments and evidence of their satisfactory performance afford additional reason to anticipate improvement in Japanese artillery techniques. Balloon regiments are known to exist, and independent balloon companies were employed for artillery observation at Singapore. A motorized balloon company, with a total personnel of 145, is equipped with one observation balloon, and its transport is handled by 23 motor vehicles.

**b.** The Observation (Intelligence) Regiment. The observation regiment, which is commanded by a lieutenant colonel, has a total personnel of 675. Such units thus far identified have been horse-drawn, although motorization may have begun. Normal organization includes a headquarters group, a survey unit, a plotting unit, and a sound detector unit. Headquarters unit, in addition to administrative personnel, includes a meteorological, a photographic, and a signal section. The survey unit is organized into three platoons, each of which has three survey sections and one computing section. The plotting unit also has three platoons, each of which maintains three plotting stations. The unit is believed to include facilities and personnel for target plotting, flash spotting, and the interpretation of aerial photographs. The sound-detector unit is responsible for the optration of six listening posts.

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### Section II. BASIC DOCTRINE.

5. RELATION OF ARTILLERY TO INFANTRY. a. Offensive. Any study of Japanese artillery doctrine must be predicated upon a thorough understanding of their infantry tactical doctrines. Constant insistence upon the superiority of the offense is the dominant consideration of Japanese infantry tactics. The primary objective is to close with the enemy as soon as possible, so that the assumed inherent superiority of the apanese soldier in hand-to-hand fighting may be exploited with maxim lvantage Time af  $\operatorname{im}$ asis 1 ffense has e nd dox ical doctr ki tua woi dicate ۱cl ass g t te. e li efð unch wi ad ate lon result that the vital principle of concenactors, with tration of effort has often be i flouted.

Envelopments, either single or double, are the preferred maneuvers in Japanese offensive tactics. A determined frontal pressure is maintained by a holding attack, while the main force is thrown against one or both enemy flanks. The classic objective of epythopment factics is to attain complete

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however, if the desire to deny the enemy time to build up his forces and fire power outweighs the usual prodent sestimations on this form of attack which the lapanese normally recognize. In a frontal attack the main effort is made against a soft sport in the opposing line, with the objective

of scoring a swift, deep penetration along a narrow front.

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If tanks are employed, Japanese combat regulations stipulate that leading tanks are expected to rush deeply into the zone of hostile artillery. Friendly rtillery, on the other hand, is assigned a mission of sovering the advance of the tanks through the forward areas of hostile and tank weapons.

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confronted with a hostile force so overwhelmingly superior in numbers, fire power, or position that reversion to the defense is unavoidable despite doctrinal precepts. Yet a profound dislike of the defense permeates all tactical manuals and imbues officers and enlisted men alike with the conviction that it is nothing more than a passing phase in combat. The objective of defense, according to Japanese doctrine, is to inflict such losses on a temporarily superior enemy that eventually his advantages will be neutralized and the offensive can be resumed. This conviction has the effect of stimulating eagerness to initiate counterattacks which are often, accordingly, delivered without adequate preparation.

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c. Application to Artillery. The doctrinal principles that so completely permeate infantry doctrine have their corollaries in artillery tactics. The primary function of Japanese field artillery is conceived to be the immediate and close support of infantry assault. The speed of movement and the constant endeavor to achieve surprise, considered so essential in an infantry offensive, apply with equal validity to artillery doctrine.

To be sure, the Japanese recognize other important artillery objectives. Enemy infantry is to be crushed and the weapons emplaced on his flanks are to be destroyed by artillery fire, according to Japanese artillery instruction. Obstacles that impede infantry advance are assigned to the artillery for destruction, and the capabilities of artillery for the disruption of hostile rear lines of communication are stressed. In actual practice verthe the function of artillery as a direct infantry support weapon has bee phasized almost t

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ib th atio :0 turn res me gu 6 21 Technical deficiencies of Japanillery units. independent action limitations have militated against the ese artillery and serious p mass employment of artillery under high-echelon control. But basically the Japanese method of allocating artillery has resulted from doctri of close support for antry.

erv d rs, the en to instrate that they are just as ready as the eager to rs of front-line combat. Positions are sited infantrymen to brave the dang with a few hundred yards of foremost enemy defense points, and command posts, in many cases, are located right beside the guns to make here have been instances when Japanese ol of fire possible. only 50 Japan ds hould be nd i ans try ha erit 61di elo

ch disposit would entail.

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b. Jungle Fighting. Jungle fighting aggravates the difficulties of extending close fire support because of the difficulty of locating friendly infantry and the necessity of firing over the trees and thus too far ahead of the infantry to enable full advantage to be taken of the artillery support. As stated in Japanese doctrine:

If an artillery position in the rear of the front line is selected, it usually means that the position must be well to the rear in order to permit firing safely over the trees and above the head of our own troops. To choose such a position means that in

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