nor is there any practical distinction between the rifle corps still retaining their original designations and the ordinary regi-ments of the line. But, for the purposes in view, we must have Mounted Infantry. or. in other words, troops taught by special training to use the infantry weapon with the best possible flect. The weapons of cavalry and artillery are different also, whereas, it is the very essence of the case before us that the troops thus to be provided with new means of locomotion should be genuine foot soldiers, prepared to act as foot soldiers do. Of course, certain special recommendations would be desirable. The officers should be quick sighted, good horsemen, and accustomed to study country by hunting or other field exercises. It is also suggested that they should be ready, self reliant, able to speak at least one foreign language, and ac quainted with telegraphy. So, again, for the non-commissioned officers and men; they should be smart, intelligent, rather under than over sized, and as a matter of course marksmen, or first class shots. A few advantages in the way of pay would render the service attractive, and, indeed we can hardly doubt that, just as in our own generation all but foot soldiers have been made Riflemen, so a few years would suffice. if necessary, to turn half the Line into Mounted Infantry or Carmen.

The object, it will thus be seen, is to en sure the presence of a large force of infantry at a particular spot under circumstances requiring great quickness of movemnt. It will not do to arm cavalry with intantry rifles, for that would not make them genuine rifle men. Neither will it be sufficient to provide riflemen with horses, unless percautions are taken to prevent them from slipping out of ther proper skins and figuring as cavalry. But we can certainly teach troops of the Line to ride, and yet to act, not as dis-mounted Dragoons, but as regular foot sol-diers. It is simply a question of locomotion-of adding to the rapidity of an infantry march. In war time conjectures will infallibly occur at which such a resource would be invaluable. In certain situations both civalry and artitlery might be useless, or exposed to great peril for the want of a small body of infantry. The German cavalry discovered the necessity of the case in the late war and took measures accordingly. Our correspondent gives an interesting illustra tion of the subject, drawn from the Indian campaign of 1857. The Sepoy mutineers were men who could march under an Indian sun thirty miles a day for a week togethera feat, as we need hardly say, quite beyond the reach of the European soldier. Relying on this exceptional capacity, they watched heir opportunities, got a start of our troops, and so contrived to elude their pursuers for more than a year together. At last a small body of mounted Riftemen was organised, and by the aid of this force the affair was successfully finished in less than a week. In conclusion we are judiciously reminded that no country in the worldiese well adapted to this kind af practice as our own, " where at every mile you find a crest on which riflemen can act in position under cover, while their horses are sheltered close at hand in the next hollow." In another six months we shall have the Autumn Manœuvres again, and by that time, perhaps have provided ourselves with the means of testing to some extent the value of a suggestion which is certainly very reasonable, and which will not make any heavy demands on either the War Department or the Treasury.

THE LAUNCH OF THE RALEIGH.

The launch of the Raleigh on Saturday at Chatham adds a new frigate to the British The main features of her construction, which distinguish her from the old-fashioned type of frigate, are her cap acity to carry a heavy armament of a modern character and her enormous engine power; and the objects which have been sought in her design are an exceptional speed and a power of protecting herself with a heavier artillery than is usually carried by vessels which may be able to match her in These two characteristics give a special importance to the Raleigh. The first vessel of the kind built for the British Navy was the Inconstant, which was launched in 1868, and her success has been so great as to induce the Admiralty to gradually add a small squadron of such vessels to the Service. The Active and Volage succeeded the Inconstant, but were constructed with the idea of obtaining, substantially, the same advantages in a smaller compass. Since their con struction it has been, after much discussion, decided that a high rate of speed and a heavy armament can only be guaranteed by wooden vessels of a large size. tain a speed of fifteen knots an hour it is absolutely essentail to have engines of ex ceptional power and size; and it has been found impracticable, if not dangerous, to endeavour to obtain such a rate of speed in small vessels. So the construction of vessels like the Active and Volage was abandoned, and the Raleigh designed on a scale be tween the Inconstant and Active. And, indeed, since the Raleigh was laid down, so alive has the Admiralty been to the import ance of increasing the strength of the navy in wooden vessels as to propose this year to construct two more vessels of the same kind -the Boudicea and the Bacchante. The tonage of the Raleigh is 3210 tons; horse power nominal, 800. She is built of iron on the tranverso system, and has iron girders and supports. This iron skin is coated with two layers of wood, that nearest the iron being teak and the outer coating of oak and mixed woods. She will carry twenty-six guns of various calibre, the largest being 12½ ton, or 200 pounders. It is this capacity to carry such a powerful arment which secures the Raleigh her special superiority over vessels like the licture and Voluge. It is admitted now by most naval construc tors, that although size is an unquestionable disadvantage to ships in naval warfare, and that although expense is another objection in the construction of vessels of a large tonnage, yet the powers of carrying a powerful armament is so essential, and is, for smaller vessels, so impossible of attainment, that those advantages are more than recompensed by this one advantage, which can only be secured in frigates and large corvettes. Thus the Volage has only a burden of 232 tons, compared with the 4066 tons of the Inconstant, and her cost was, of course, proportionately different, but the armament of the Voluge is only equal to that carried on the upper deck of the Inconstant. The Vol age carries guns on her upper deck only, and these consist of six 7 inch muzzle load ing rifled guns, two on each side of the quarter deck, and one on each side forward of the funnel, with a poor 64 pounder pivot on her top gallant forecastle, and another of the same calibre on her poop. But she is unable to carry any guns on her main deck, and cannot therefore compare with the Inconstant, whose main deck battery consists of ten 12-ton rifled guns. This difference is

difference between the two vessels, as to warrant the conclusion which, as we have already said, has been arrived at, that dimin ished size and cost have been purchased at too dear a price. For their own class of vessols, both the Volage and Active are perfect; they do not carry a pound too much weight, and their construction is so delicate as to be superior in some points to the Inconstant In a cruise their speed would be surprising and their success would be certain, could they only escape the batteries of a heavier armed vessel, and maintain their engine power at the highest pressure. But the Government seem to have decided that such vessels are too delicate to be relied upon in rough work, and that they are too severely handicapped, both in size and armament, for the ordinary purposes of naval warfare. While the Raleigh has not the tonnage of the Inconstant, it has a sufficiently powerful armament, and is guaranteed a sufficient speed to make her a more useful and trustworthy vessel than either the Volage or Active. She will have the inestimable advantages of standing easily the racket of powerful engines; will, or rather should be, a match in point of speed for any armed wood on, yessel affoat, and will carry an armament capable of meeting on equal terms any antagonist of equal speed. The question still remains to what extent we require the construction of wooden vessels like the Raleigh. The answer, at present, is that they cannot be dispensed with, and that their service in real action may be found, in deed, indispensable. Had the long sustained battle between guns and armor been settled this question need never, perhaps, have been asked, and the launch of the Raleigh would have been an error in judgment. But it is impossible to assert that the class of ironclads which must now be built can hope to satisfy every want in naval warfare. They have gradually developed such special characteristics, and are designed to meet two such apparently irreconcilable needs, as perfect protection from shot, and as perfect carriages for the largert guns that they can only be regarded as having a special mission. Then again, the introduction of torpedoes has Then levelled the differences of strength between wooden and ironclad ships, until at length it is recognised that to be deficient in the fastest wooden vessels we can build, which are capable of carrying fair armaments, is to want an element of real power in our fleet, The chances of naval warfare are still suffi ciently open to leave many chances to our new wooden walls; but our wooden men of war must be superior in speed, construction, and armament to their predecessors. But thes will not be fought out by ironclade alone, nor can our ironclads by themselves be capable of giving that protection to our commerce which in time of war it would have a right to demand. These new vessely such as the Raleigh may find themselves in the position to follow Admiral Farragut's advice-"the best way to defend your om ships is to attack the enemy vigorously, and they would, we think, find it possible a times to follow this advice prudently as well as courageously. They would be exposed to the common enemy of all men-of war torpedoes; and they would have a friend to little recognised in such matters, smoke, while, probably, they would be superior a speed to any enemy. As an authority 03 these matters hissaid, in quoting the gallani Admiral's advice, he "nobly seconded the precept, as, in the wooden frigate Hartford, he fearlessly led his wood-built squadrons so important, and marks so essentially the through lines of torpedoes and floating ob