## PRUSSIAN NEEDLBGUN.

The Arm that Won the Prus sian Victories.

DESCRIPTION OF THE GUN
The Most Formidable Engine or Destruction in the World.

WHAT MAY BE DONE WITH IT.
mon ste, Ete., ste., kte., Ete, Ete. The vast superiority of the Pruaslan needle
gun during the late contest in Bohemia has oansed, as already stated, extraordinary excute-
ment in the military circles of France and Yingland. our latest despatebes, published in
Thureday's paper, state that arrangements have been perfected to arm the English troopa with
the brech-loading ritte; and there exiats no lom brect-loading ritle; and there exists no
doutht that ere loong all the armies of Europe Which has done such terriblo execoution in the
battles of Munchengratz, Skalite, Trautenan, and Sudowa. It was this needle-gun which
enabled the Prussians to force the passage of
 she following terms:





 eapon, and the needie gun, it is believed, wine
erate quite a revolution in Enropan warfire.
aring the Crimean war, it will be rememb red, a military commission, consisting of General United States Aray, visitied the various Euro-
pean military establishments, and in their reports, subsequently submitted to Congress,
we find frequent allusions to the neede.run.
Trom Major Nordecaits report we wextract the we find frequent allusions to the needle-gun.
From Major Mordecais' report, we extract the
tollowing description of this, arm of defense,

## satire



 of place to enter into a somewhat detailed de
acription of it The prinolple of the needle-gun, viz, to in
eert the charge at the breech, with a view to sert the charge at the breecth, with a view to
enee and facility of logding, is by no meane
novel, it having been emplosed in the anausette novel, it having been emploged in the amusette
of Marshal saxe, the arms of Montalembert, of
Robert, and of Letaucheur as well as in the zobert, and of Letauchenx, ns well as in the
vali pieces of the French, and in the chamber
 sme several of this sort, one of which surpr-
ingly resembles the needlegun in the method ongly resembles the neediegun in the methot,
of elosigg the brech, with the differecee that,
in place of the chamber being drawn back in place of the chamber being drawn back to
load, he barrel is advanced, and that the coni-
cal termination of the tarrel engages over that al termination of the barrel engages over thai
of the chamber botht teminations being provided with the halr turn of a screw. The charge
hes in the fixed chamber, and is ignited by Aise in the fixed chamber, and
mateb-lock. $A$ lever attached to the barrel serves to turn and to move it back and forth.)
The inventor of the present Prussian needle un s Mr . Dreyse, manntacturer of arms at Som. dvantare of ense and faclity of to loading the by
dosing the breech with two screws belin closing the breech with two screws bobind each
other, having a spoce between them. In thin
pace there was a spiral sping, which carried a
 Ded drawn back, and when let loose the pene
ration of the needle into the falmanate caused
the ignition of the charge, The cartridges with spherical balls uped with
his arm were at first inserted at the muzte tis arm were at first inserted at the muzzle,
ind had a priming of fulmiuntat ot the boilom,
which frequently exploded prematurely when
 Mold on the sides of the bore.
These objections induced the projector t Insert the cartridze at the breach, and wa
done in Norway, and hence the new Prossian
needlegun. In reference to the Norwegian breech-loadiug gun, it may be briefly remarked
now, that the barrel is open at the rear, and
there is a separate chamber for the charge the barrel. The ball is cylindro-conient. In the Prussian needle-gun the cartridge is in
serted at the rear; the lynition is produced by the
intrusion of a
needle into the fultuinute atthebed to the cartridge, and the closing,
the open burrel i eifected by the fiting
of the front end of the chamber to the rear o The barrel, the rifled part of which is $30^{\circ} 0 \mathrm{e}$
inches long, has a calibre of 0.606 inches, with Thu grooves, having a twist of tiveelevenths in
the length of the barrel, or an inclination ot 88
degrees, 6 minutes, and 17 seconds, degrees, 6 minutes, and 17 seconds, The
breadth of these is 0.243 inches, and their depth $0 \cdot 13$ inches. The unrifted portion at the rean
nakke a kind of chamber, or bed of the car
tuidge, the diameter of which is 0.0 inches, several hundredths greater than the bore, and
the length neearly the same as that of the car
tridre. The bed thage. reat bo as to admit the cerrtridgge easis
to the
after reneated dischnryes; the enlargemen must, however, be limitea, otherwise it wout
interfere with the central position of the car tridge. Where tue bed of the cartridge unites
with the grooves and bands, which hatiter pro
ject on account of the smalice calibre of the
竍 bore, there is a pradual slope to prevent too
sueden a compreesion or the bollinto the obre,nd
to tacilitate its passage. To the same end toere
is and bore for the distance of $6 \cdot 17$ Inches. The reur
of the barrel terminates exteraily conically,
and is called the mouth-ppece of hie burrel. Over these parts the cylinder, widh its six-sided
head, is serewe. This is cut out to such a
length and breadth on its right side as to admit ot easy entrance to the cartridge, whilst to the
rear the cut is octinued in a zzigagg, so that the
hind part lies exactly in the midale. Upon the
Une

ifth. The reduced charge consequent on the
Sixith. The disuse of the rammer as such.
On tects, among whitch the following are promi-
dither
nent:-
First. a waste of ammunition from the ease First. A waste of ammuninon from the
and rapatyy of loading, which can only b
gaurded againast by putting it in the hands of good and experienced marksmen, who kno



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