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<image>http://gallica.bnf.fr/ark:/12148/btv1b10500001g/f40.image</image>

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<ab>The large canon, which is for great batteries, usually weighs fifty-five or lx <ms>quintal</ms>s. At the breech it carries the thickness of <del>b</del> two balls &amp;<del><fr>l</fr></del> a third of one ball. At the front, it carries <del>ba</del> the thickness of one ball &amp; two thirds. It is thirteen or fourteen <fr><ms>pan</ms>s</fr>long. But they are very troublesome to drive. The head-on battery, to accomplish its task quickly <del>is</del> &amp; batter with great force, is at <del><fr>d</fr></del> one hundred fifty paces &amp; at two hundred. <del>And</del> It is true that one batters well from three or 4 hundred <ms>pace</ms>s, but it is necessary to give it more <m>powder</m>. Its common load is of xx <ms>lb</ms> of <m>powder</m>, its ball of 40 <ms>lb</ms>. One needs xxv <al>horses</al> to drag it. When one fires it farther than its usual range, one puts in a half <ms><tl>ladle</tl></ms> of canon <m>powder</m> more. A cannon can be fired 4xx or a hundred shots per day, but one needs to refresh it every time after one has fired <del>te</del> nine or ten shots, if the battery is steadily used. For if there is a break, it is not necessary to refresh it as often. For two <ms>quintal</ms>s of <m>copper</m>, or two <ms>quintal</ms>s &amp; a half if it is for large cannons, one puts one <ms>quintal</ms> of <m>metal</m>. The <df><m>metal</m></df> is composed at the beginning of eight <ms>lb</ms> of <m>tin</m> for one <ms>quintal</ms> of <m><fr>rosette</fr></m>, while for big bells one only puts six <ms>lb</ms> of fine <m>tin</m> for one <ms>quintal</ms> of <m><fr>rosette</fr></m>, to give it a bigger voice. For the more <m>tin</m> there is, the clearer the sound is. <del>Its</del> For gun founding, if one provides the material &amp; <m>charcoal</m>, as one usually does, for <pro>master</pro>s do not have the means, one gives x to xii <cn>lb</cn> per <ms>quintal</ms>. And <del>for the mat</del> when the <pro>master</pro> provides everything, one gives him 40 <cn>lb</cn> per <ms>quintal</ms> for large pieces such as cannons, according to the King's ordinance, and l <cn>lb</cn> for small pieces. <del><fr>T</fr></del> For the more material there is, the more profit the <pro>master</pro> has of it. One founds another kind of fowlers of xxx <ms>quintal</ms>s which are longer than the others, and easily eight <fr><ms>pan</ms>s</fr> long, &amp; they are for battering defenses &amp; casemates <del><fr>s</fr></del>, placing them via trenches, at night, on the edge of the ditch.</ab>

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On each side of the breech's opening they give the thickness of half a ball. And then they also add on each side the third part of a ball.</ab>

<ab><del><fr>Ain</fr></del> one gives it two <ms><tl>ladles</tl></ms> of cannon <m>powder</m> for its charge, &amp; one &amp; a half of arquebus <m>powder</m>, &amp; the same for the others.</ab>

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The composition of <pl>French</pl> cannons is of one <ms>quintal</ms> of metal for two of <m><fr>rosette</fr></m>. But those of <pl>Toulouse</pl> &amp; <pn>Poncet</pn> puts iii of <m><fr>rosette</fr></m> &amp; one of metal.</ab>

<ab>The <m><fr>rosette</fr></m> for re-melting is more profitable than cauldrons, which turn entirely into filth.</ab>

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Old pieces are composed of almost <del><fr>de dem</fr></del> as much one as of the other, namely one part of <m><fr>rosette</fr></m> &amp; one of metal. One recognises this composition with a <tl>burin</tl>. For its substance is found to be sour &amp; the particle taken from the <tl>burin</tl> is found to be mixed with yellow &amp; white.</ab>

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