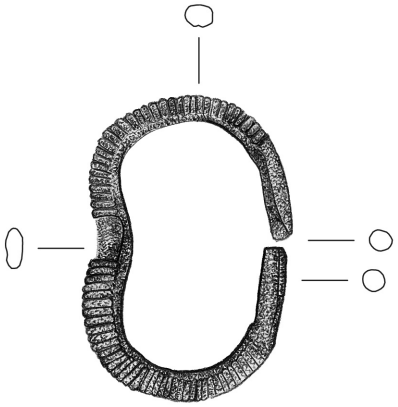
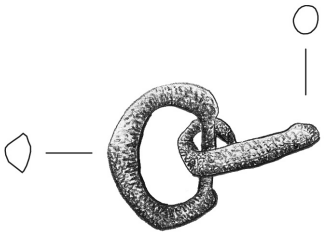
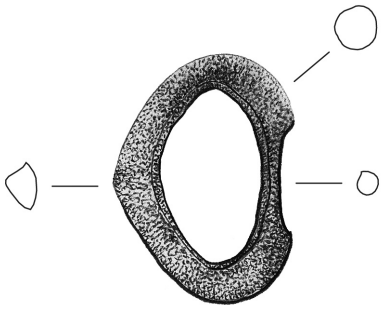
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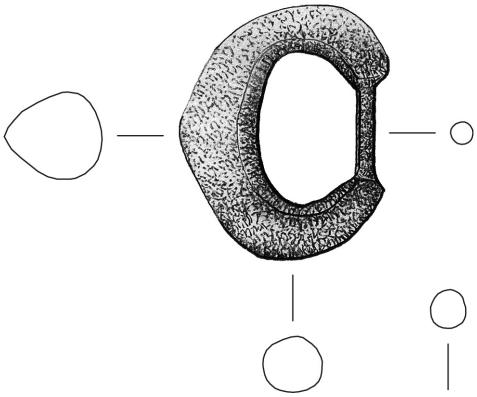
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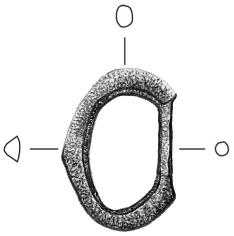
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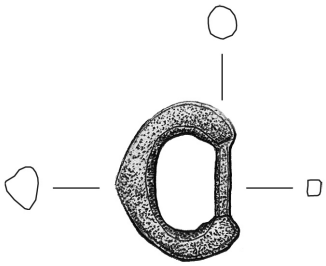
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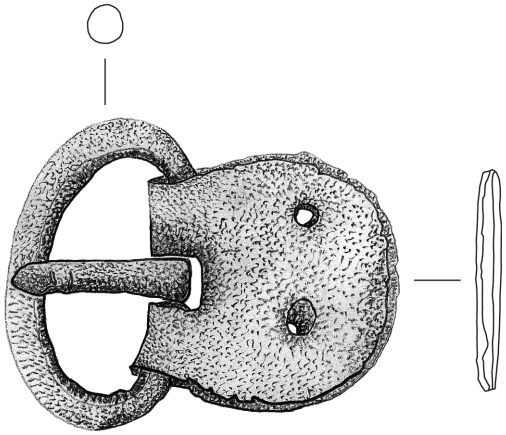
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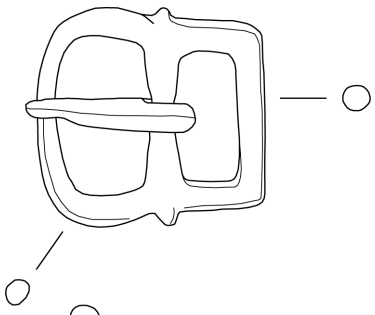
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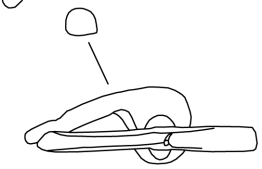


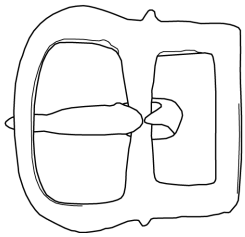
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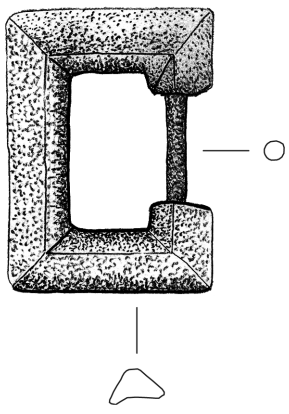
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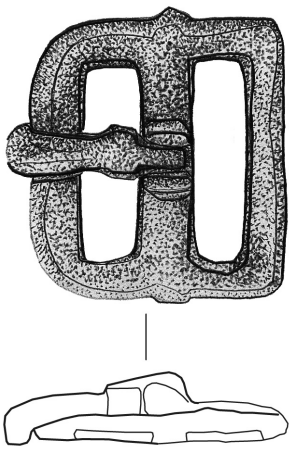




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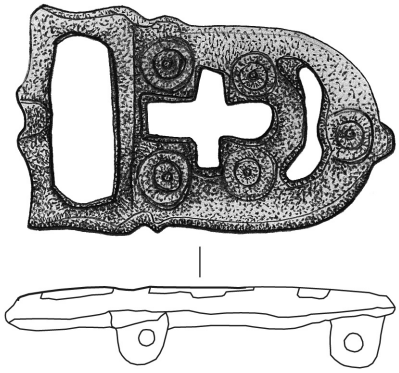


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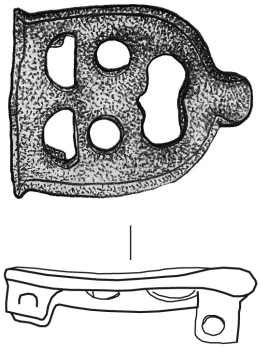


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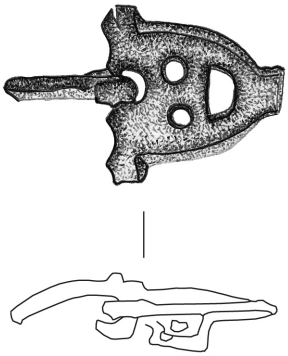
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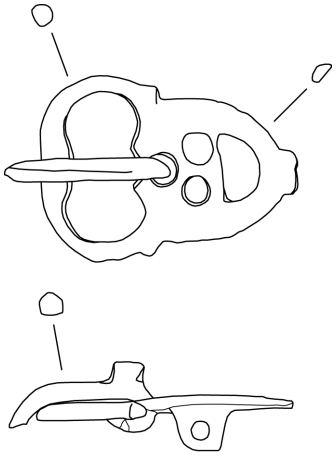
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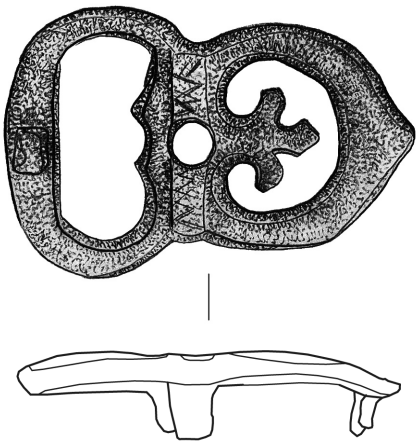
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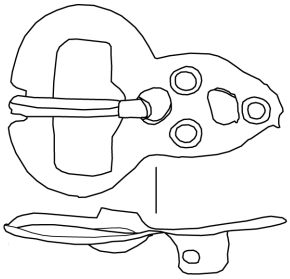
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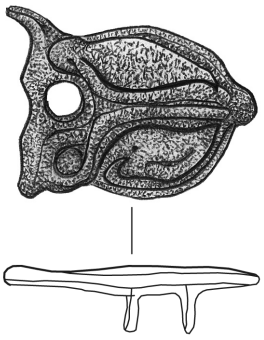
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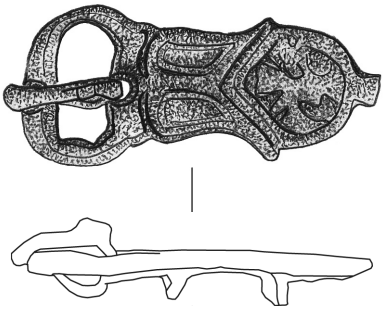
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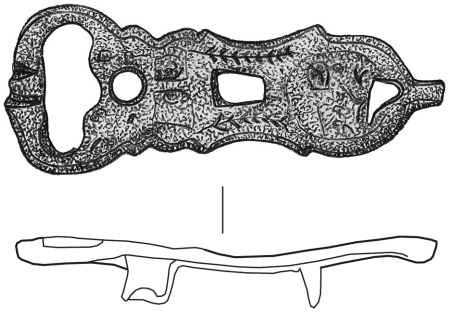
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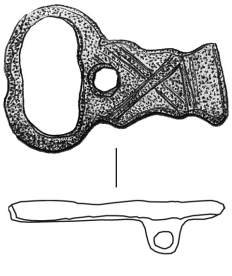
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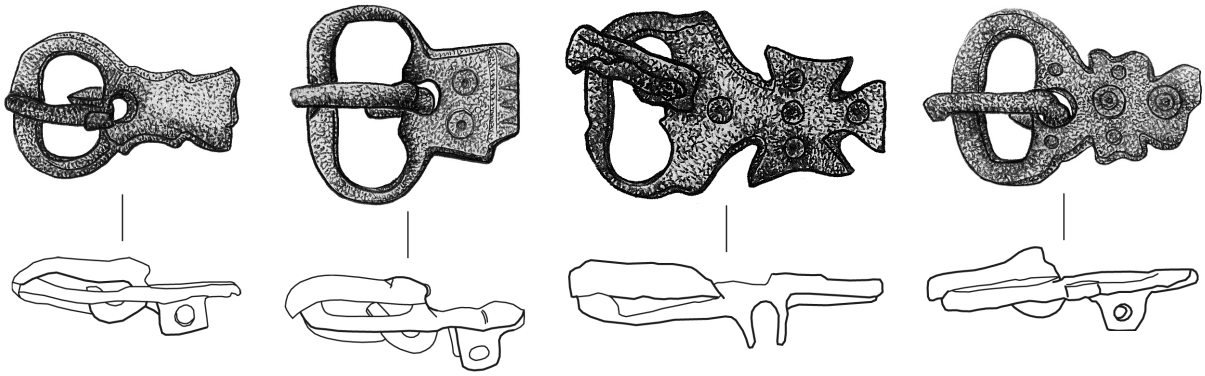
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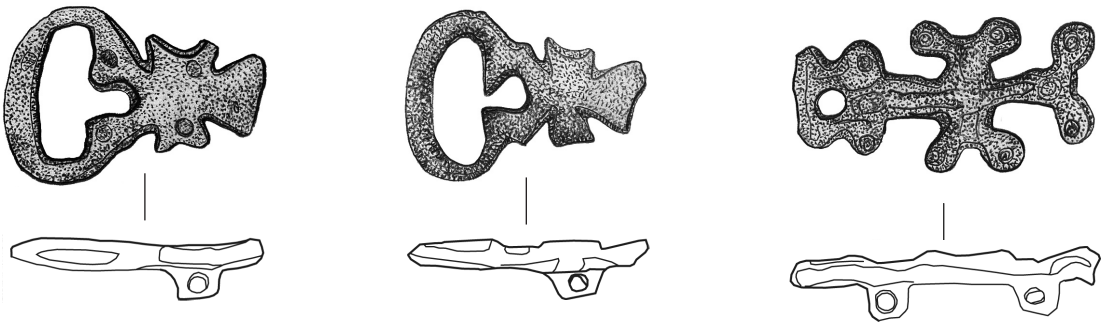
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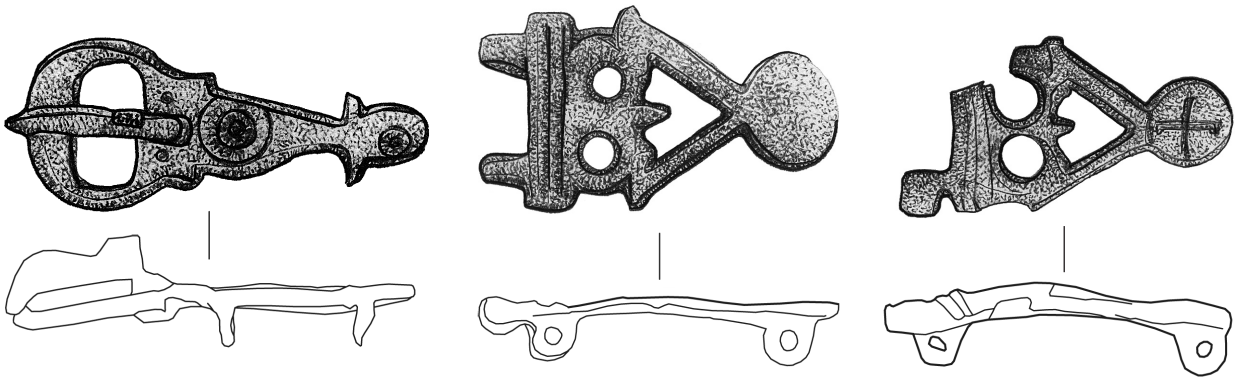
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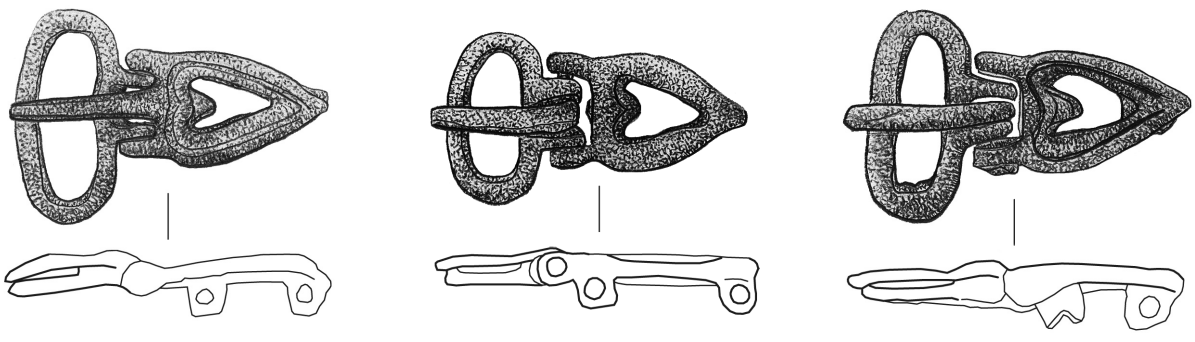
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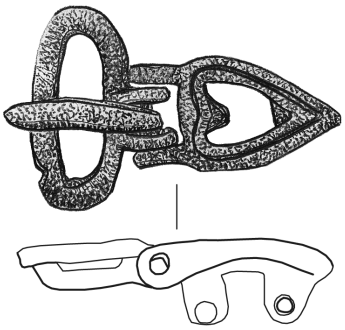


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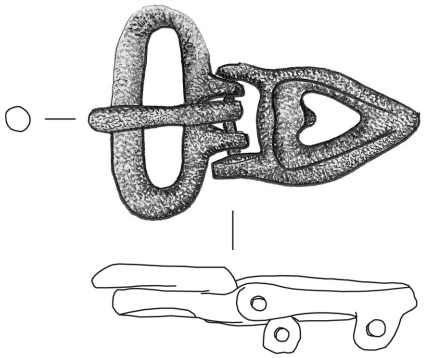


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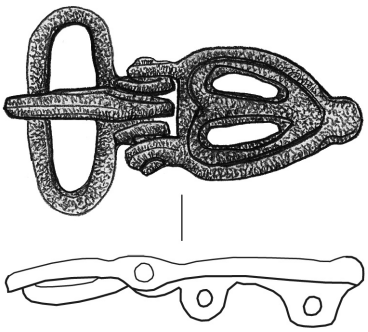
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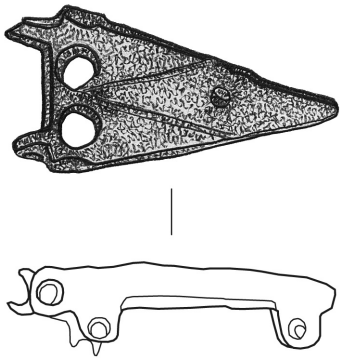
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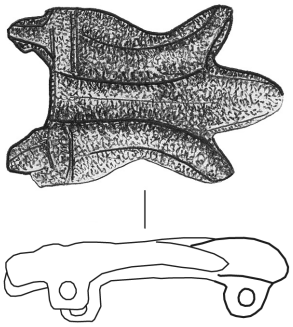
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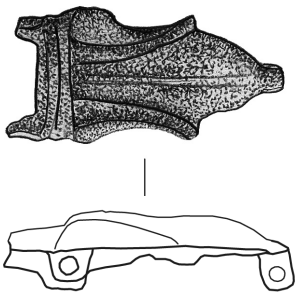
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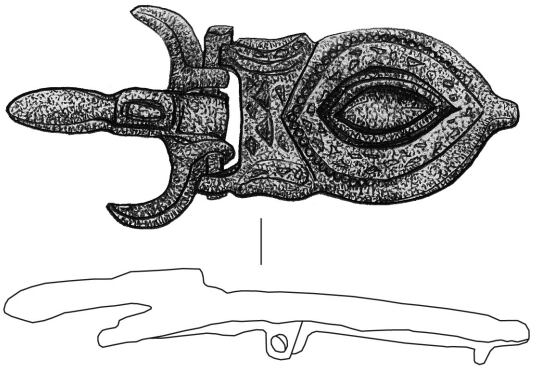
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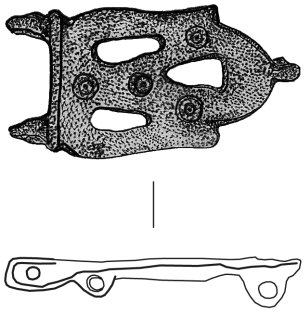
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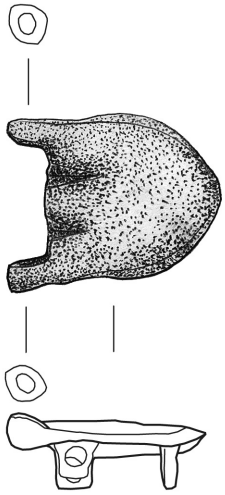
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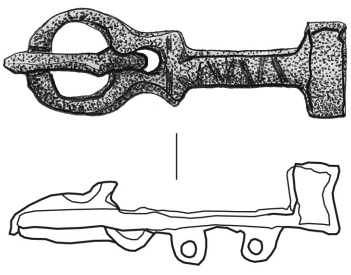
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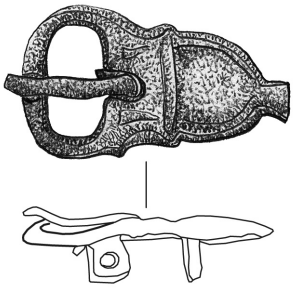
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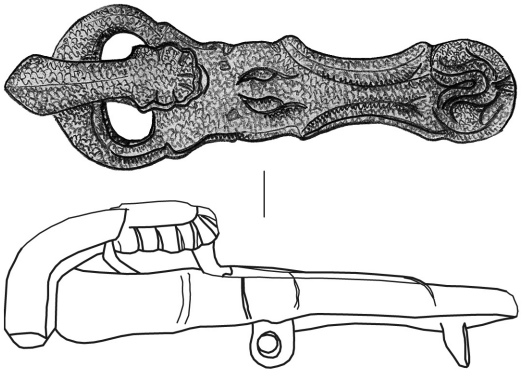
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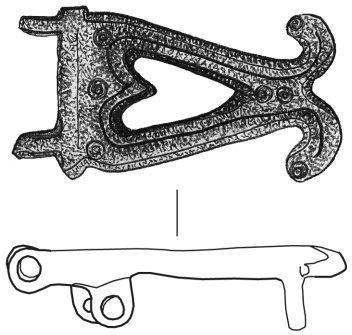
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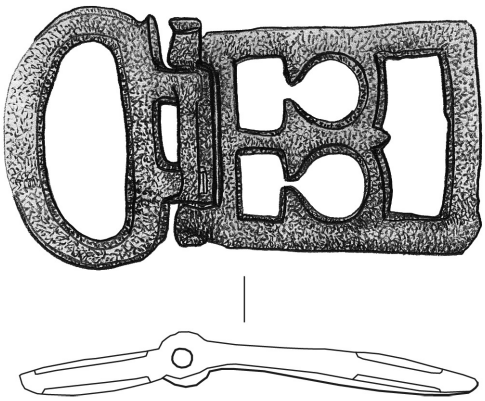
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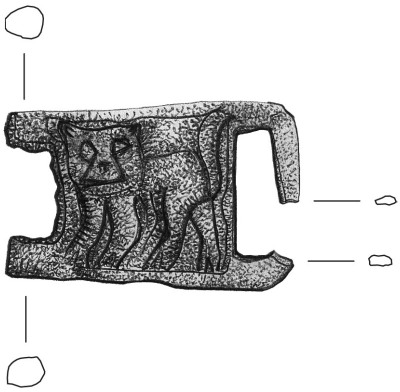
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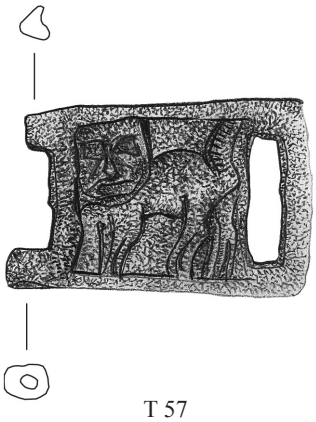
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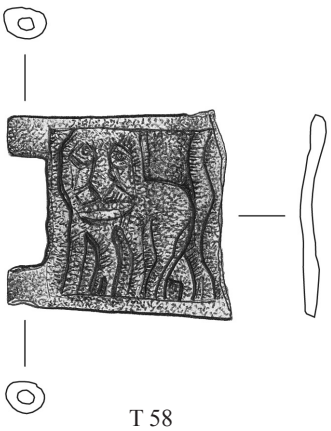
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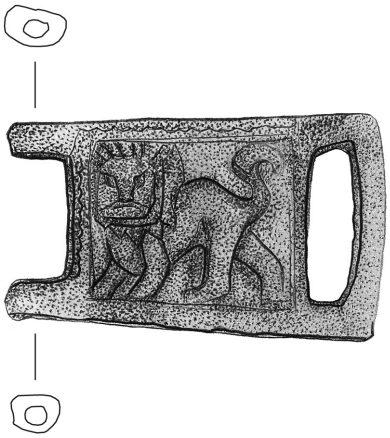
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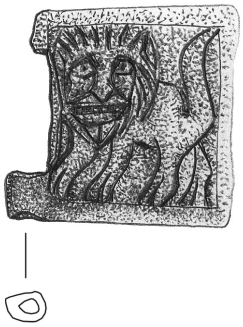
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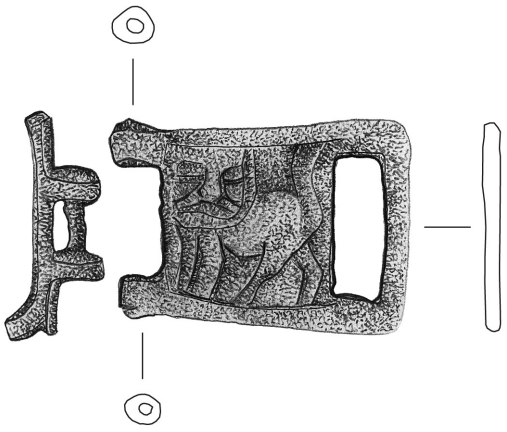
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T 59



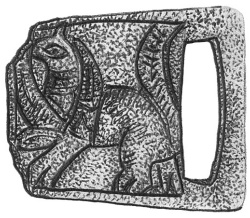
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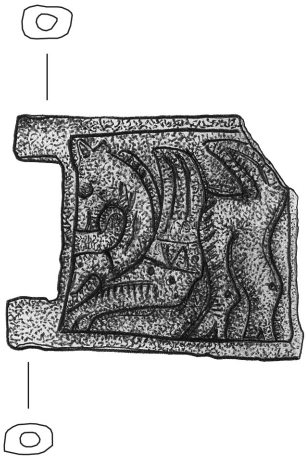
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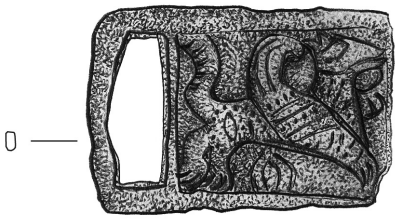


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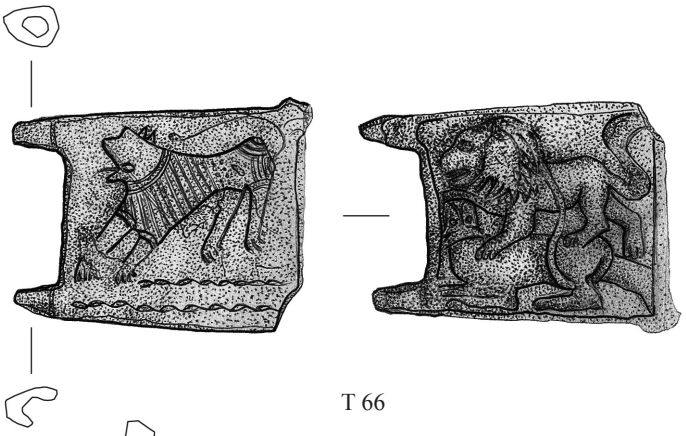


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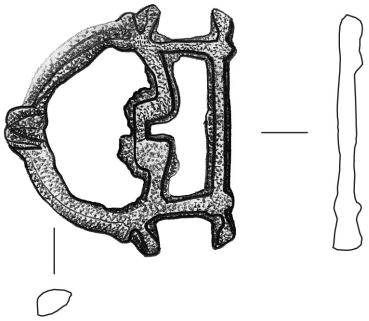
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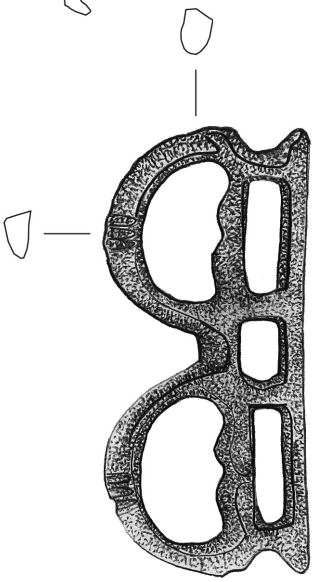
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T 66



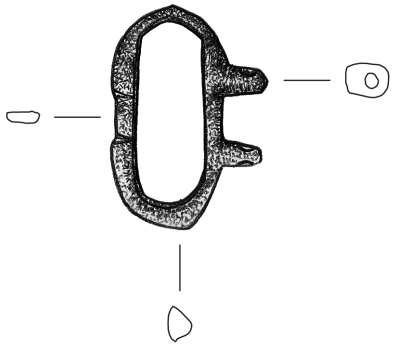
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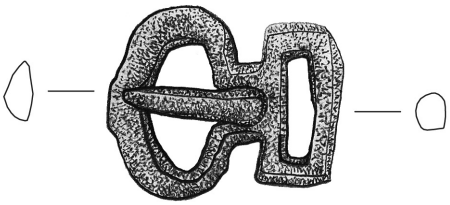
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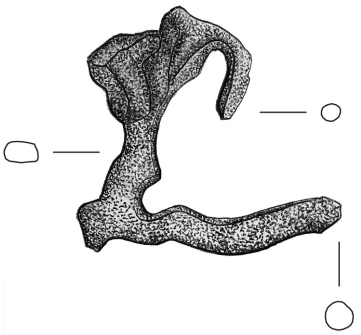
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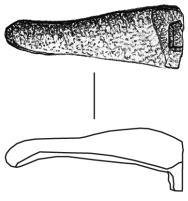
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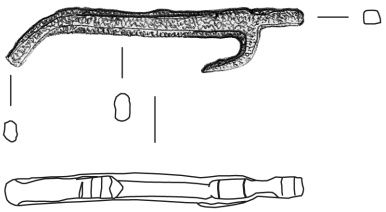
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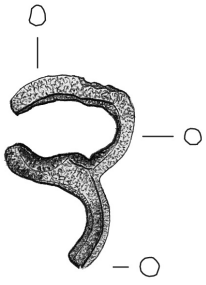
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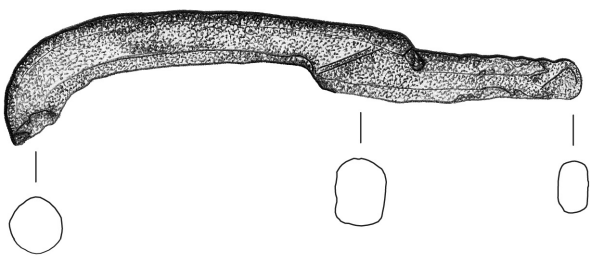
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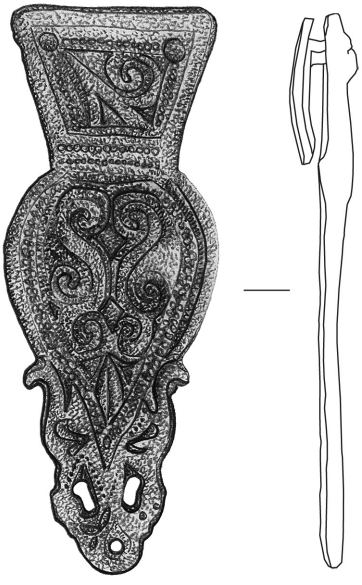
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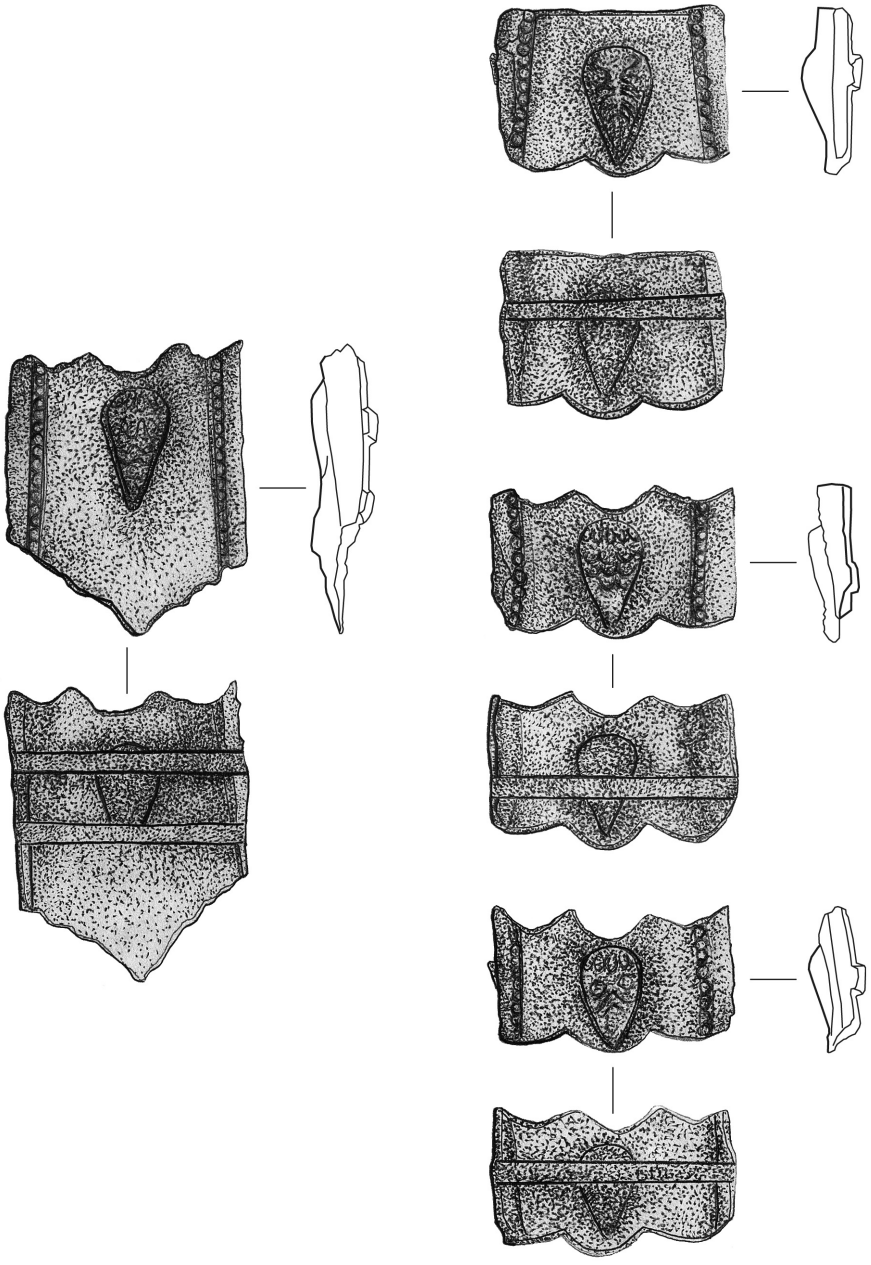
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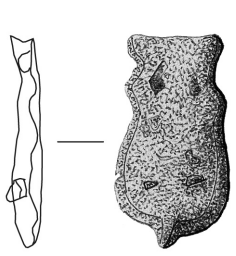
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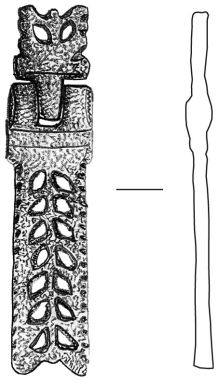
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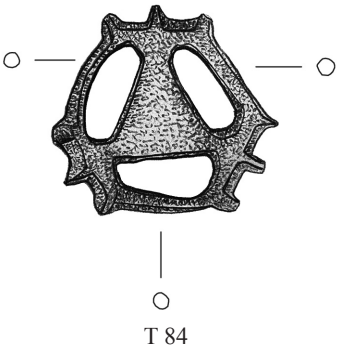
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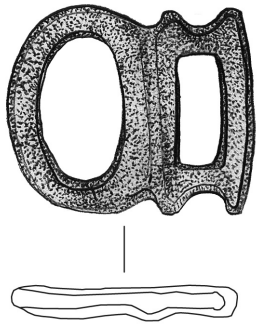


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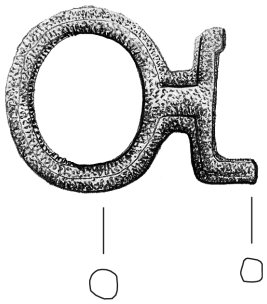


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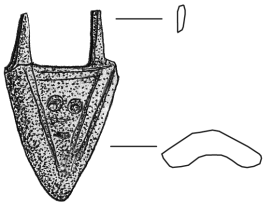
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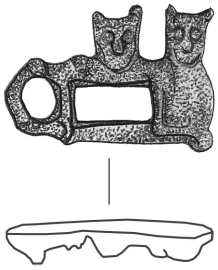
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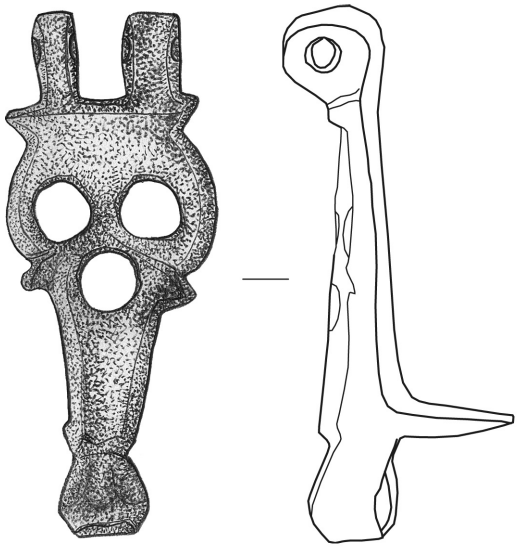
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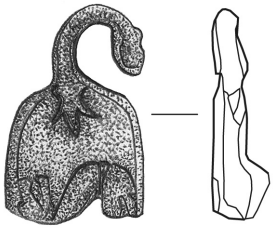
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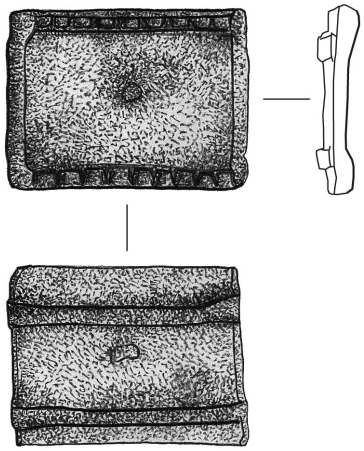
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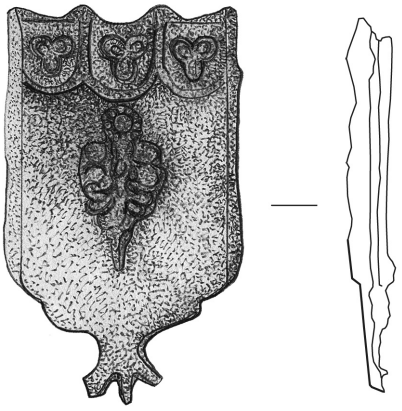
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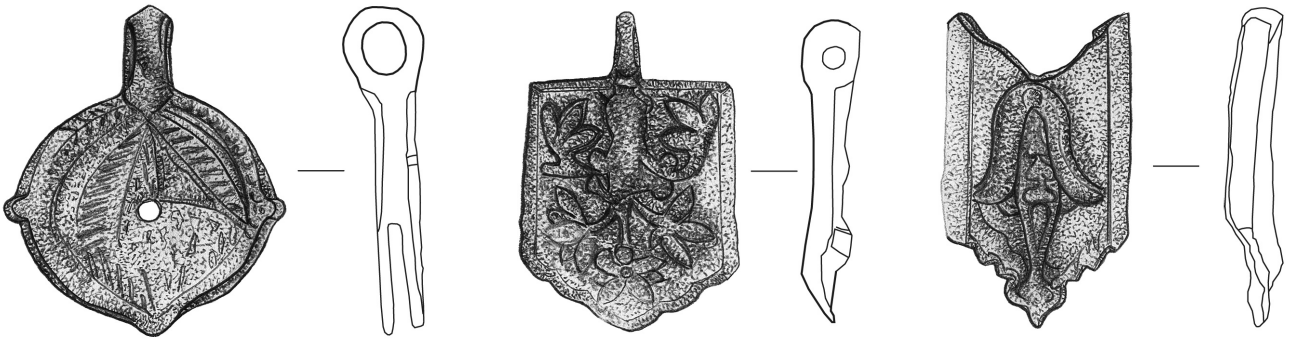
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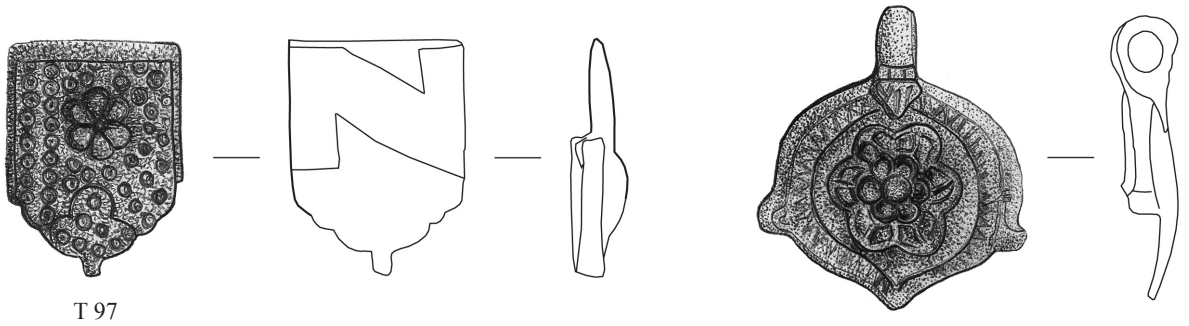
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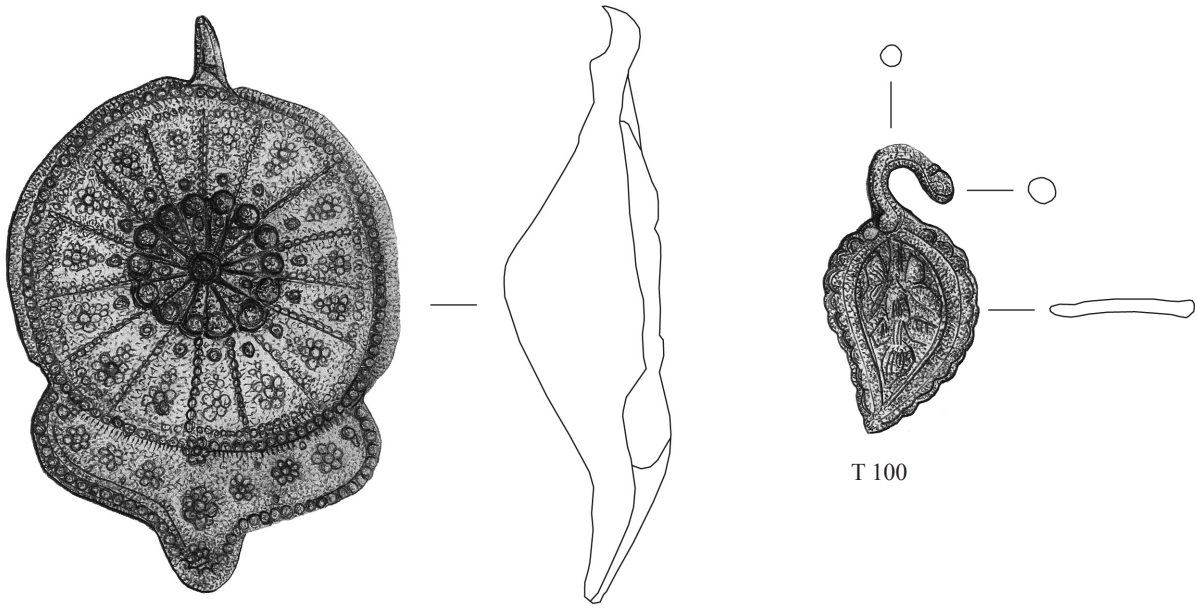
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T 93 T 94 T 96

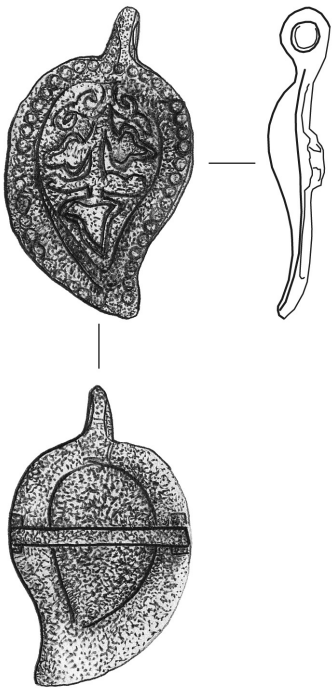


T 97 T 98

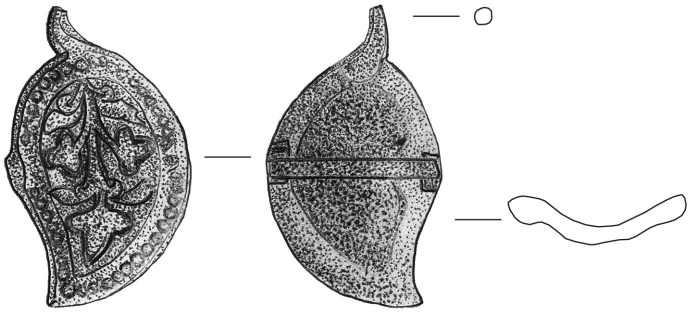


T 99 T 100

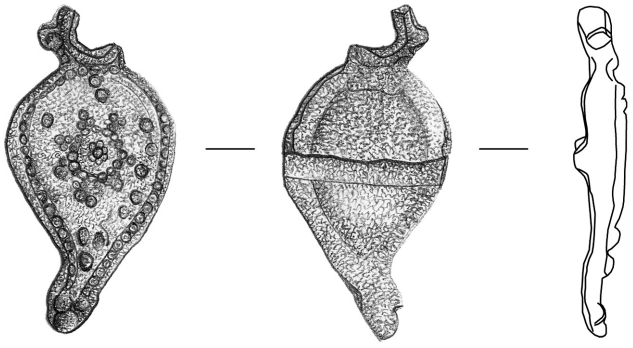
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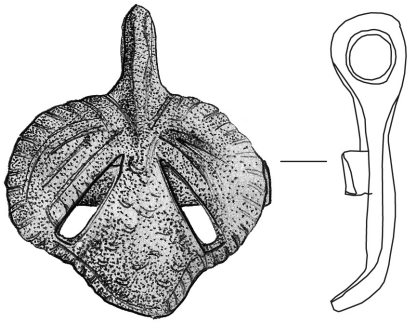
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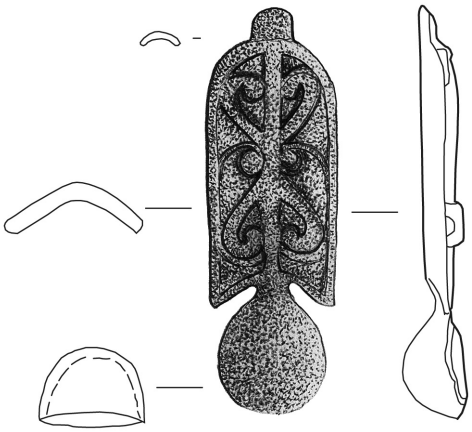
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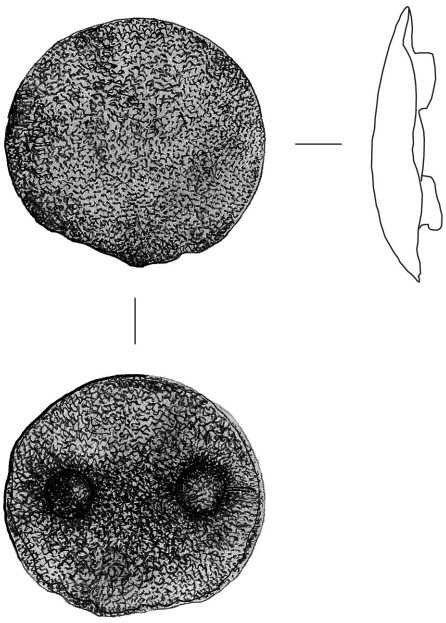
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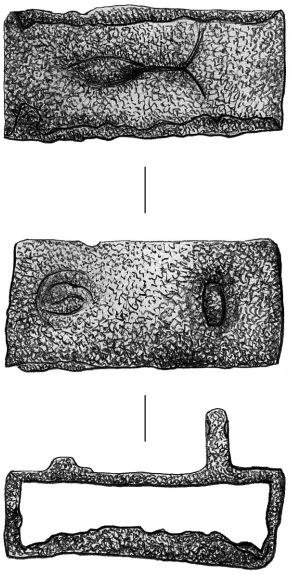
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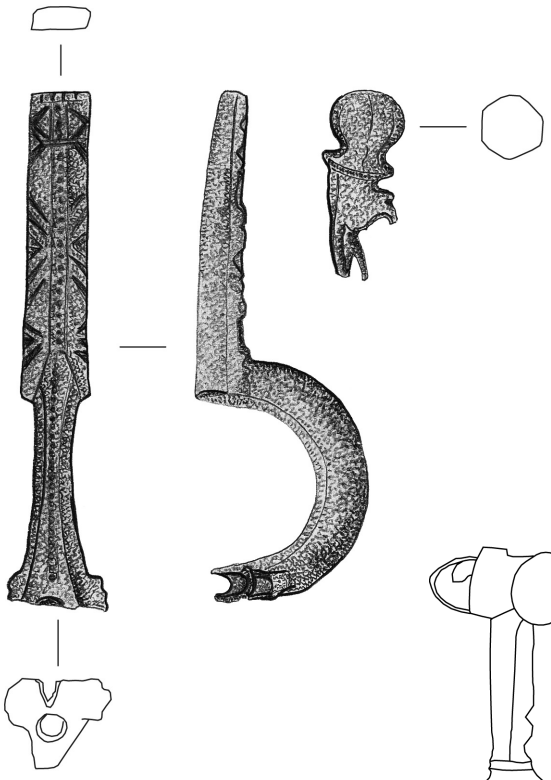
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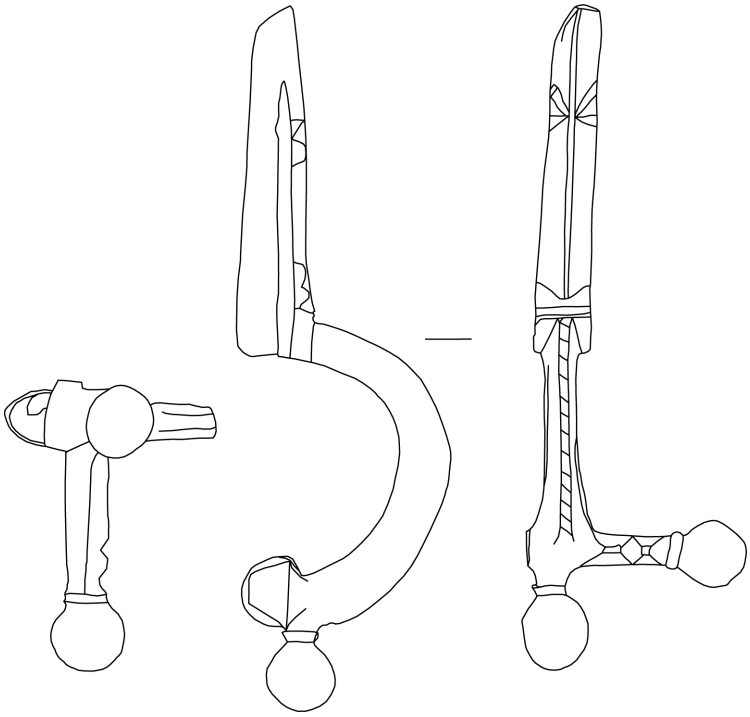
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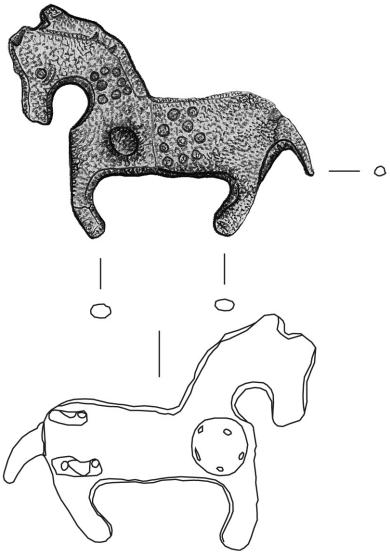
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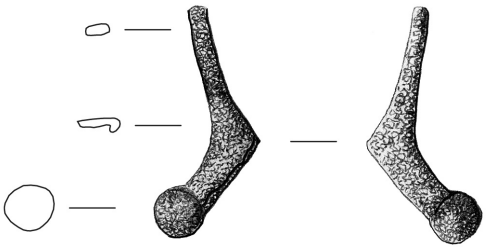
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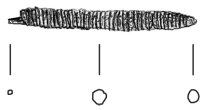
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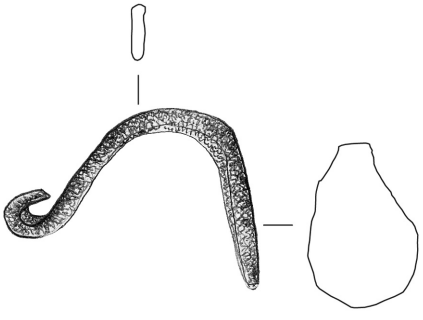
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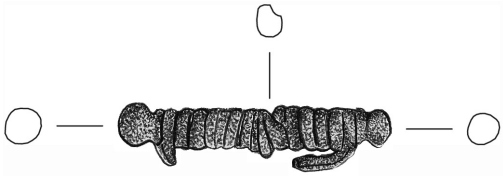
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T 116

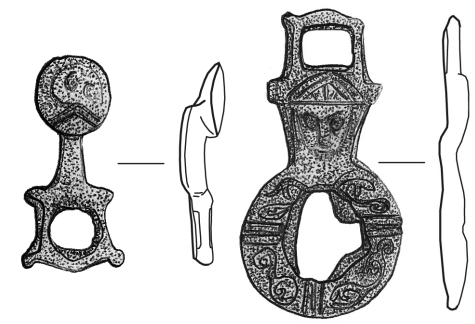


T 114



T 117

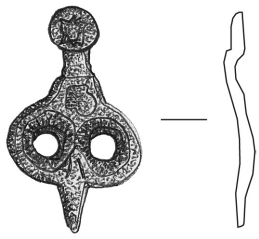
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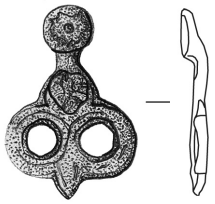
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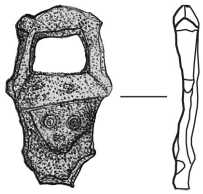
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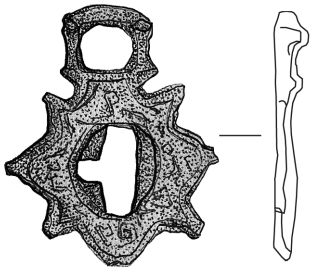
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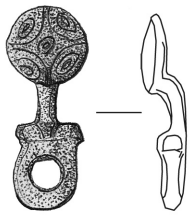
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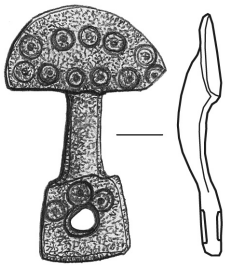
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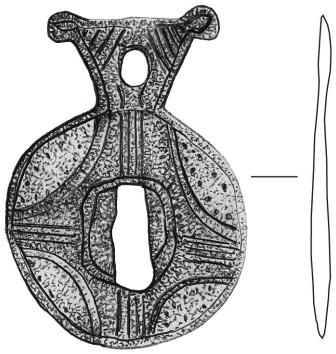
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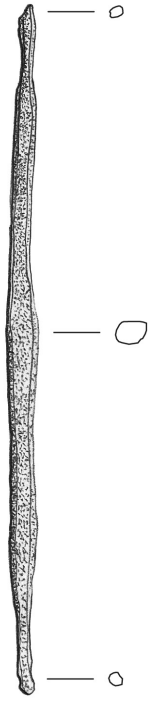
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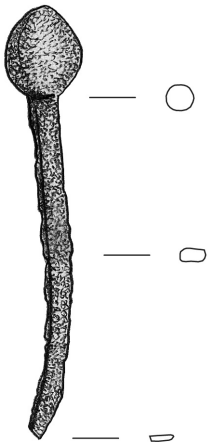
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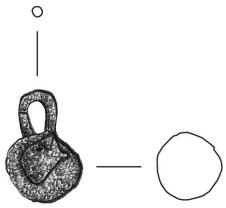
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T 128



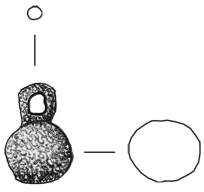
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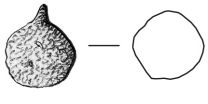
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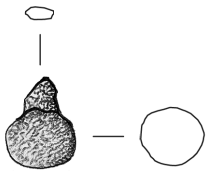
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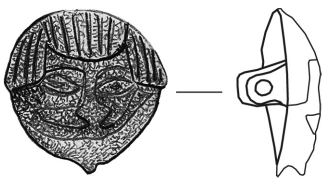
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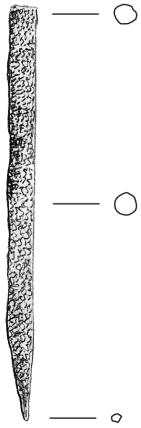
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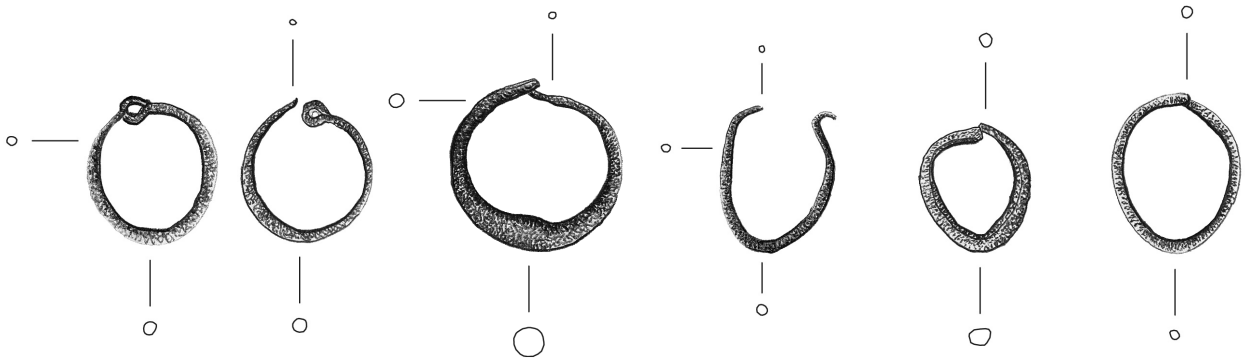
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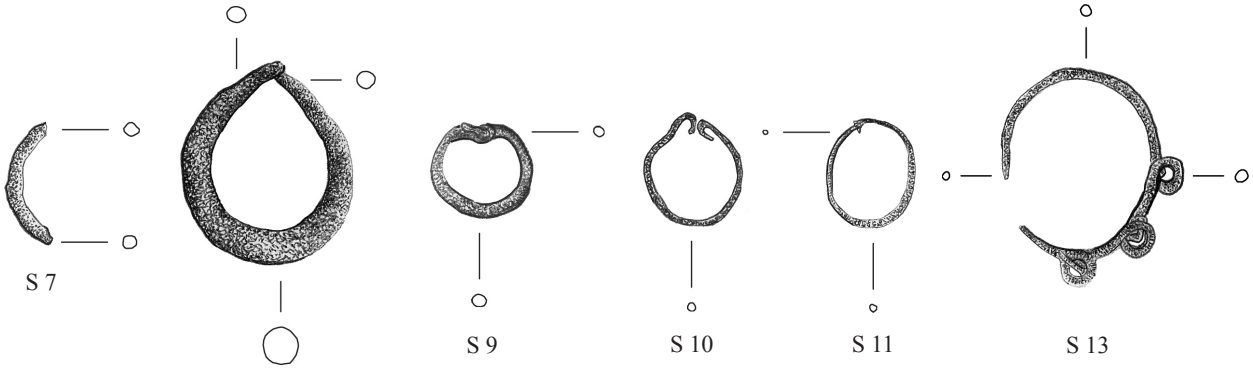
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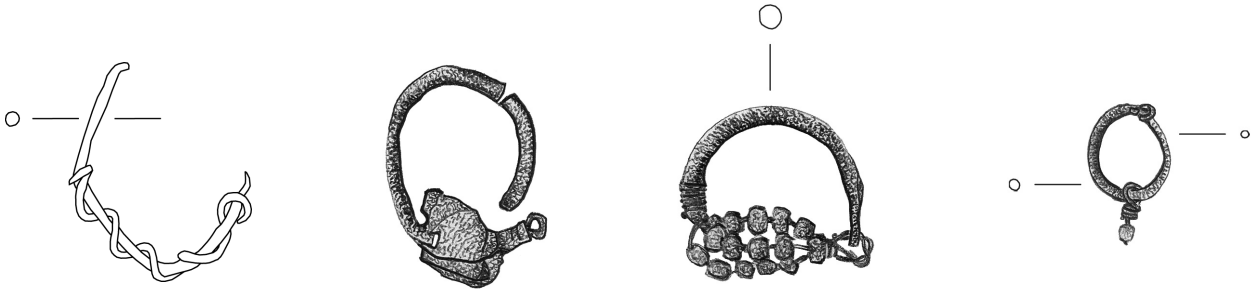
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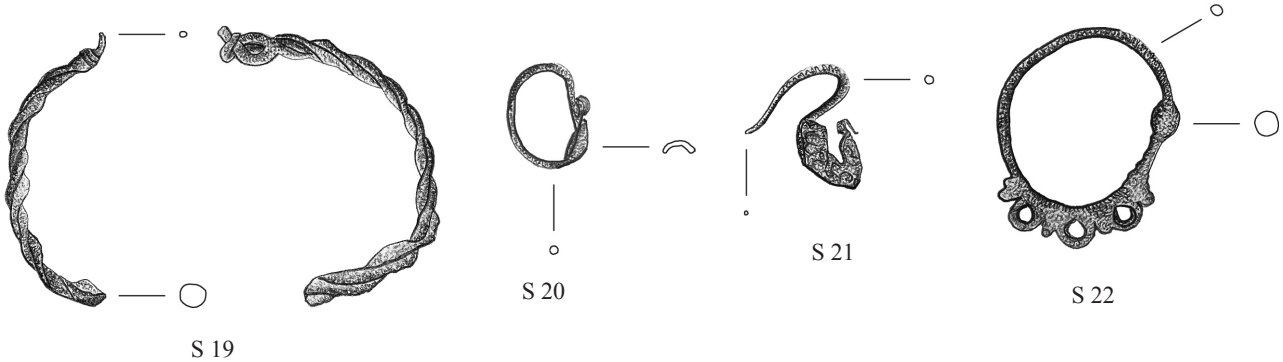
S 1 S 2 S 3 S 4 S 6



S 7 S 8 S 9 S 10 S 11 S 13

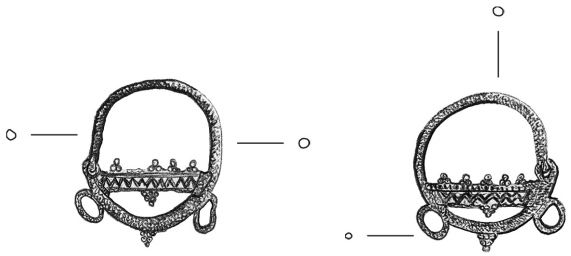


S 15 S 16 S 17 S 18

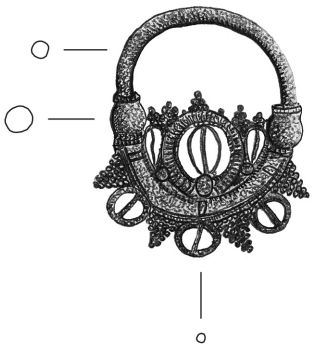


S 19 S 20 S 21 S 22

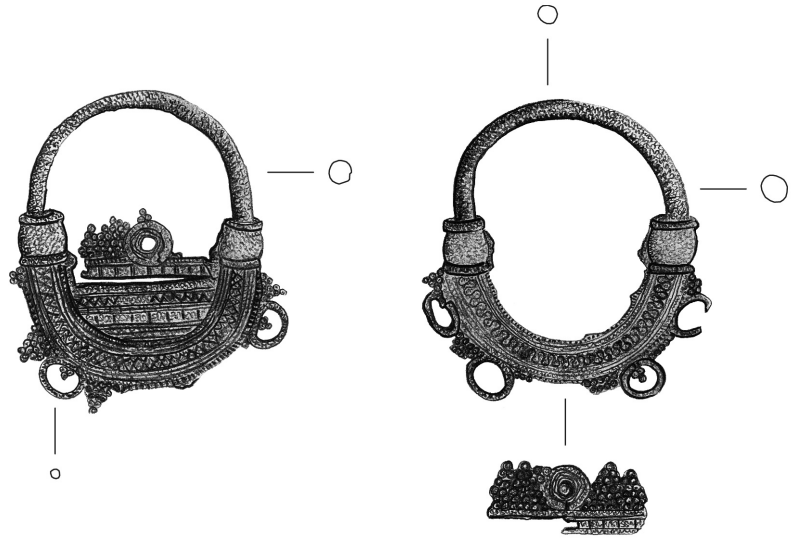
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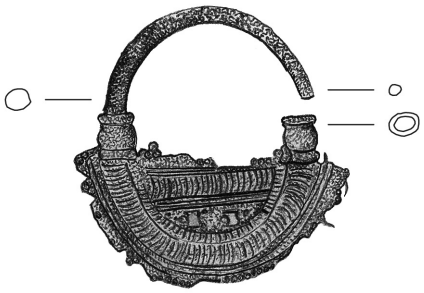
S 23



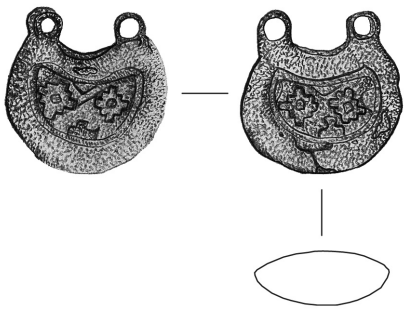
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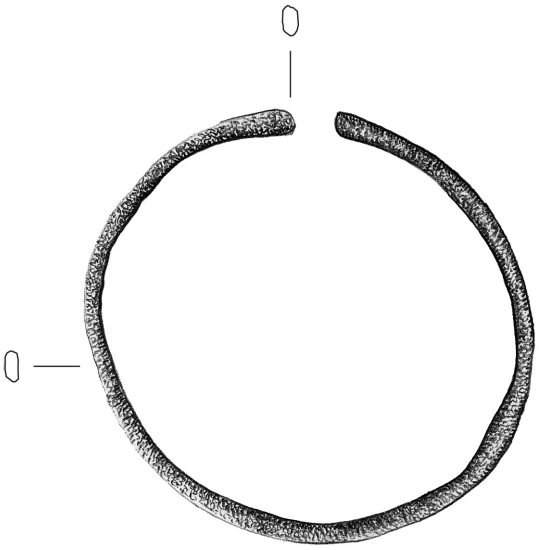
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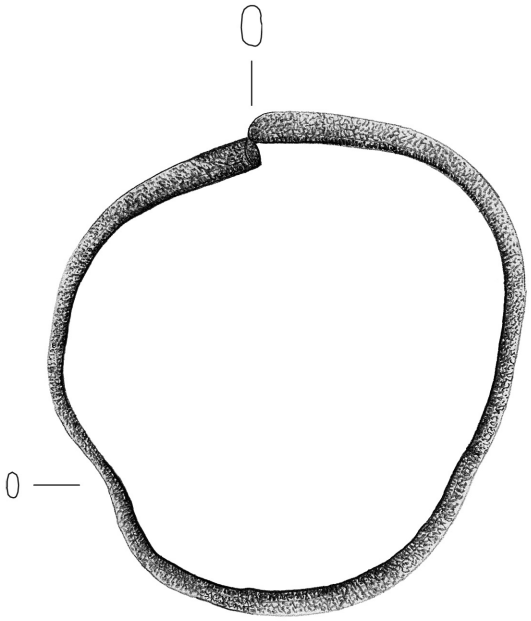
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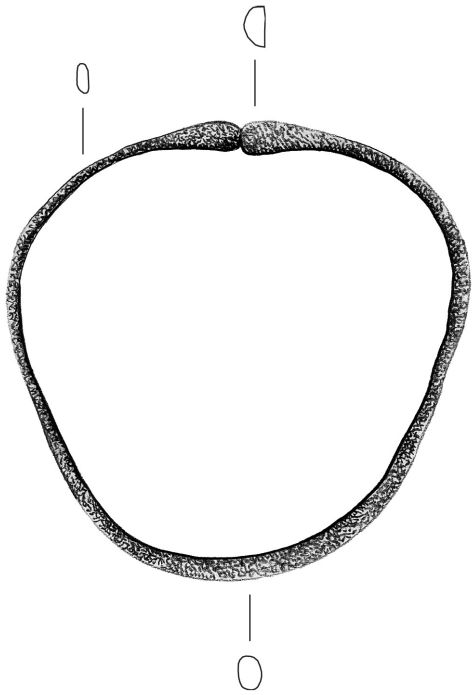
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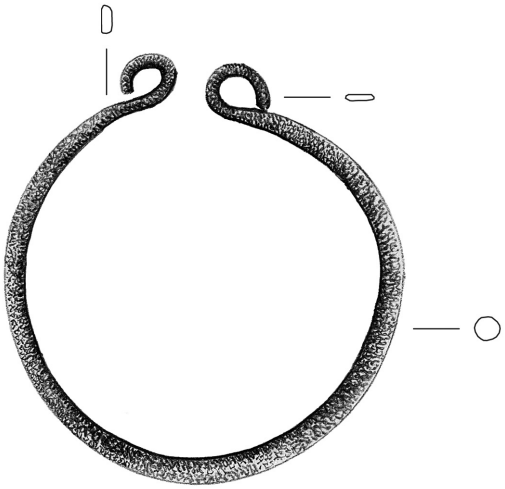
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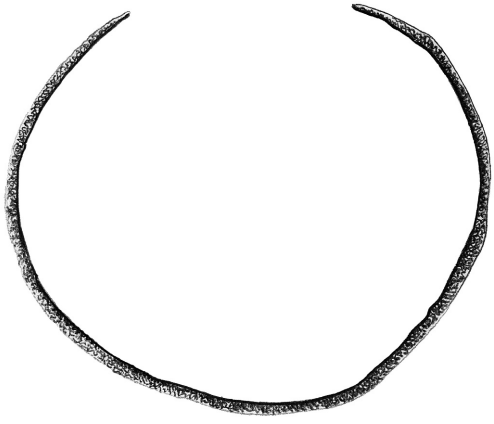
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S 31



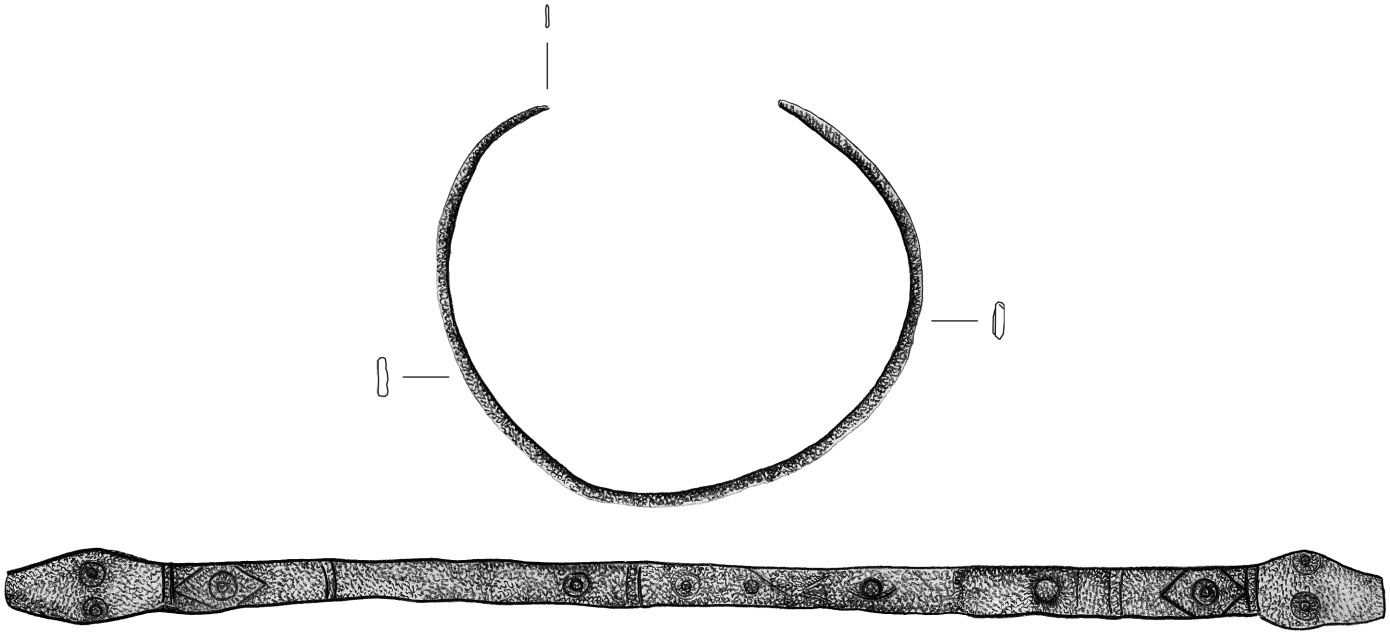
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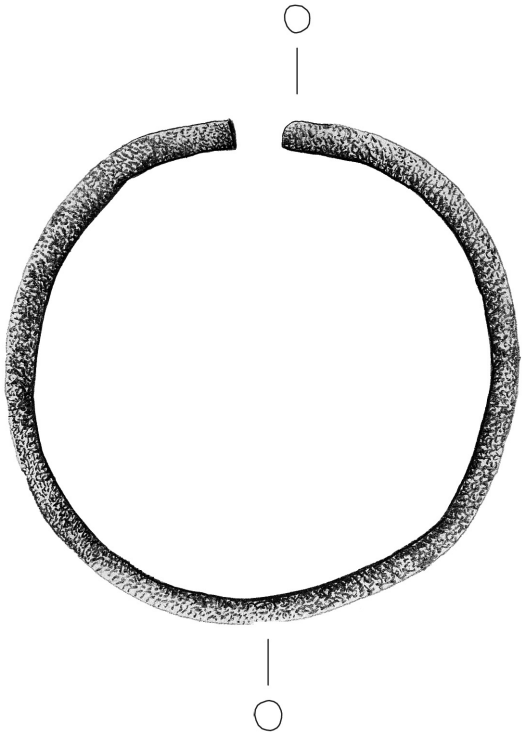


S 33

TAFEL 16



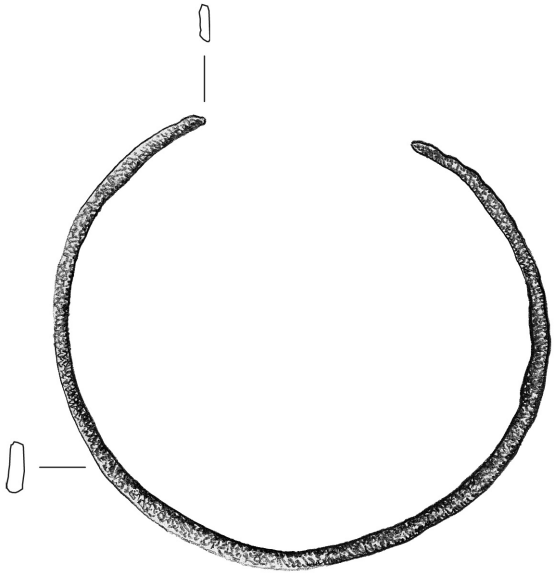
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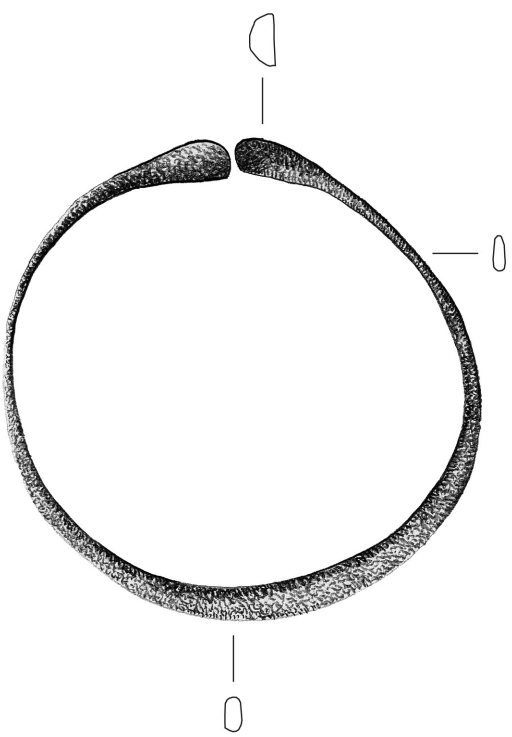
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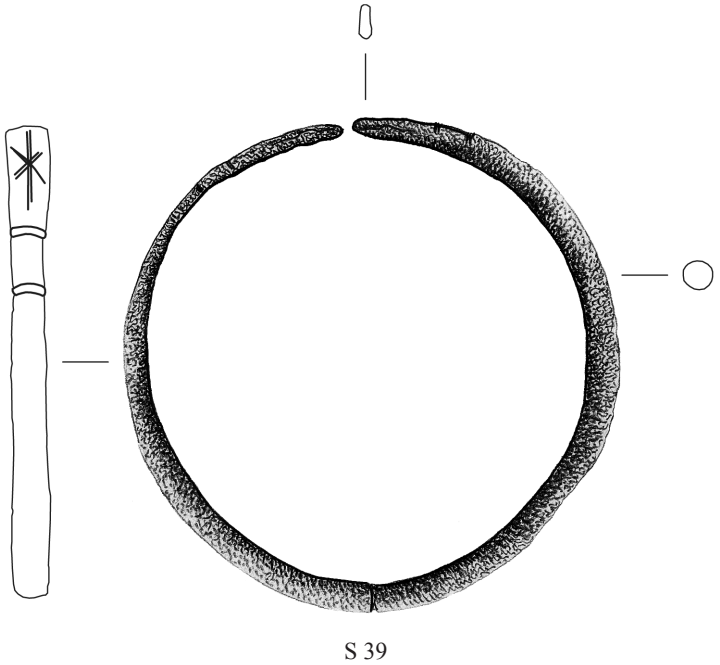
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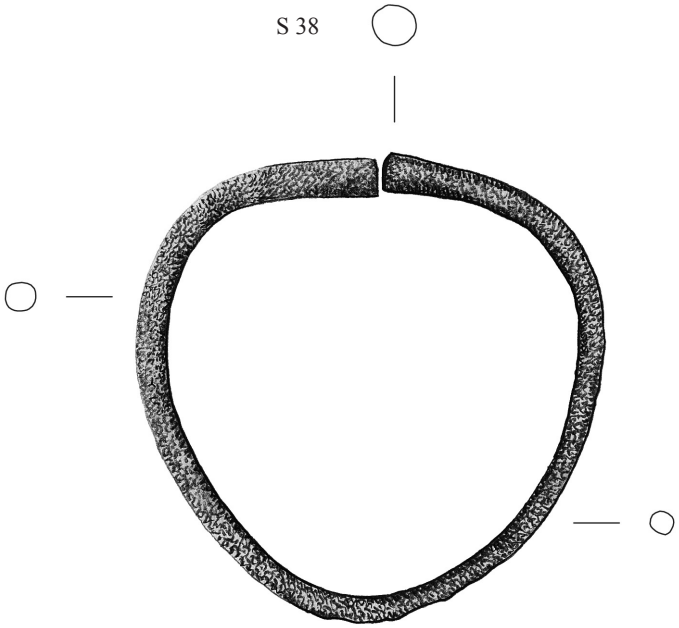
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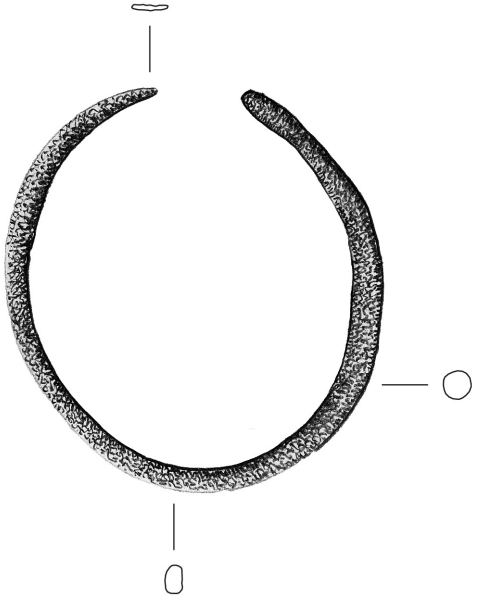
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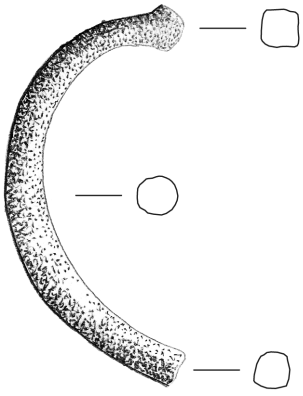
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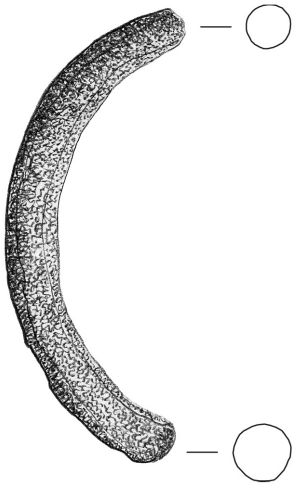
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S 42

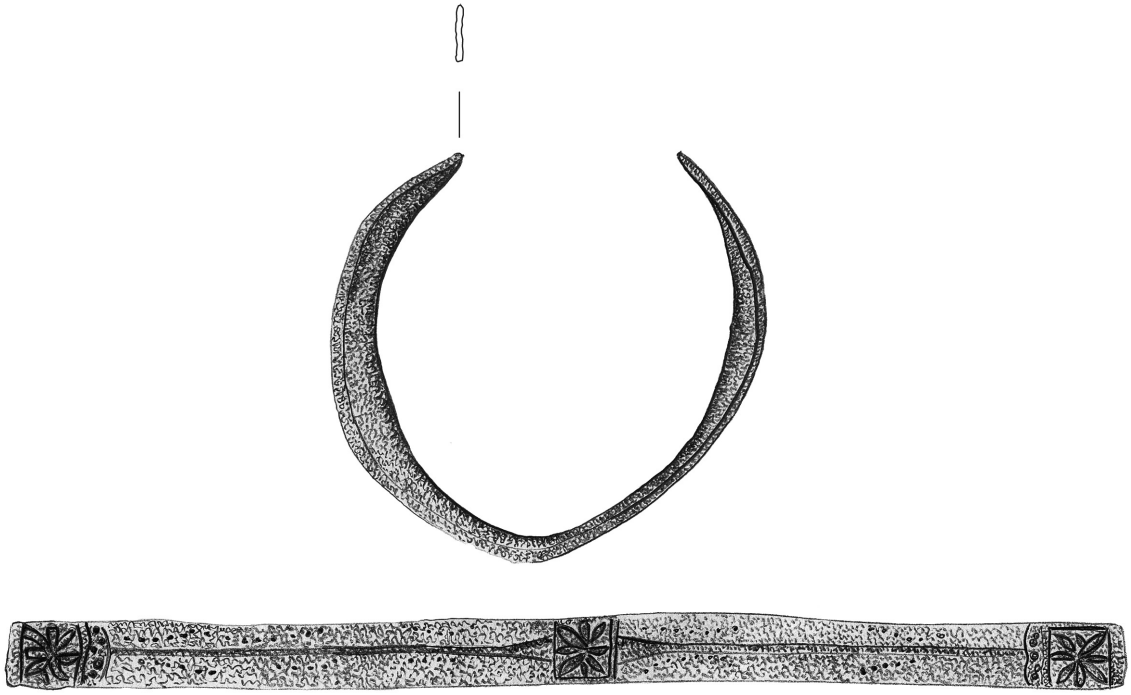


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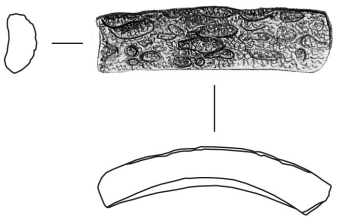


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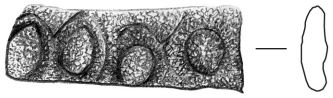
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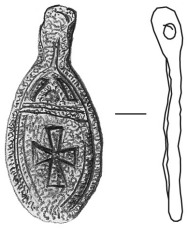
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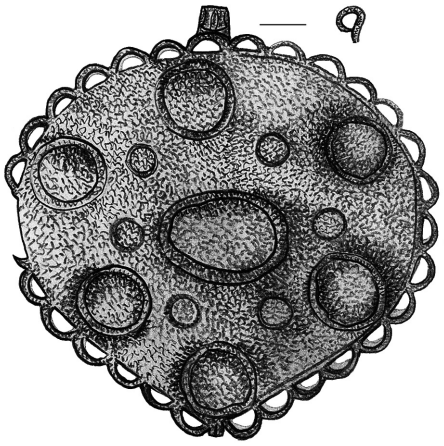
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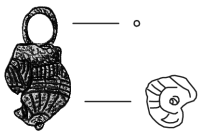
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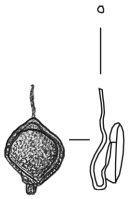
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S 59



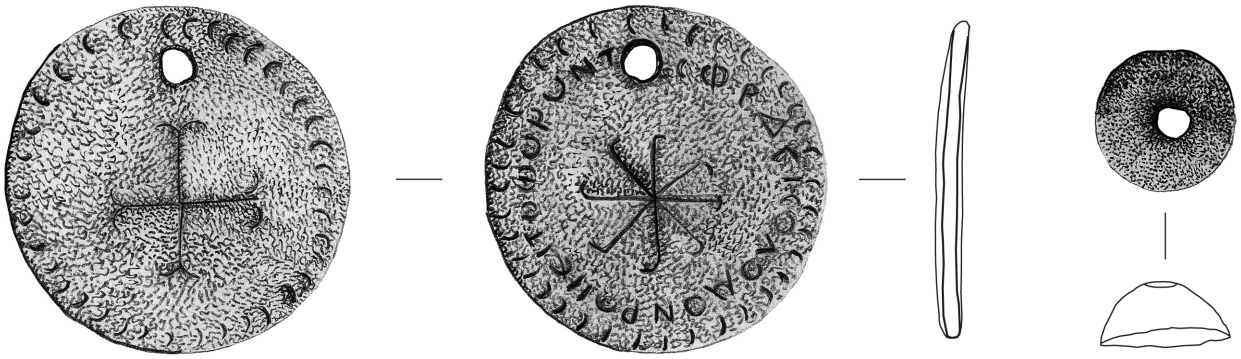
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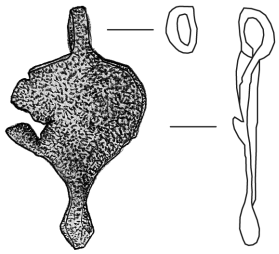
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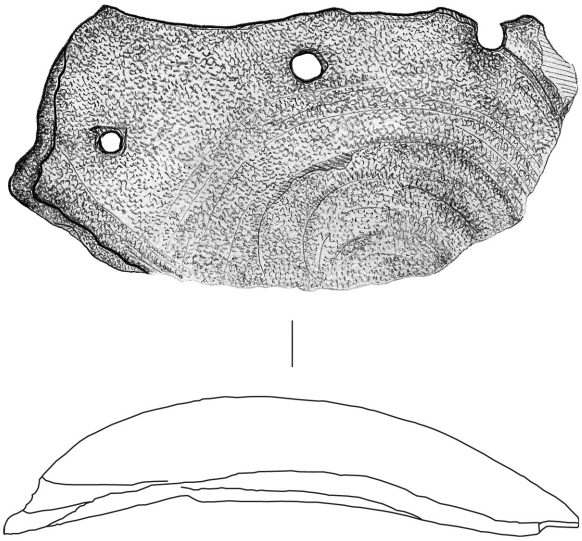
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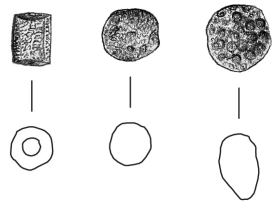


S 65 S 66

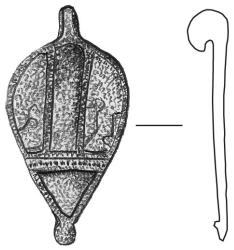


S 67

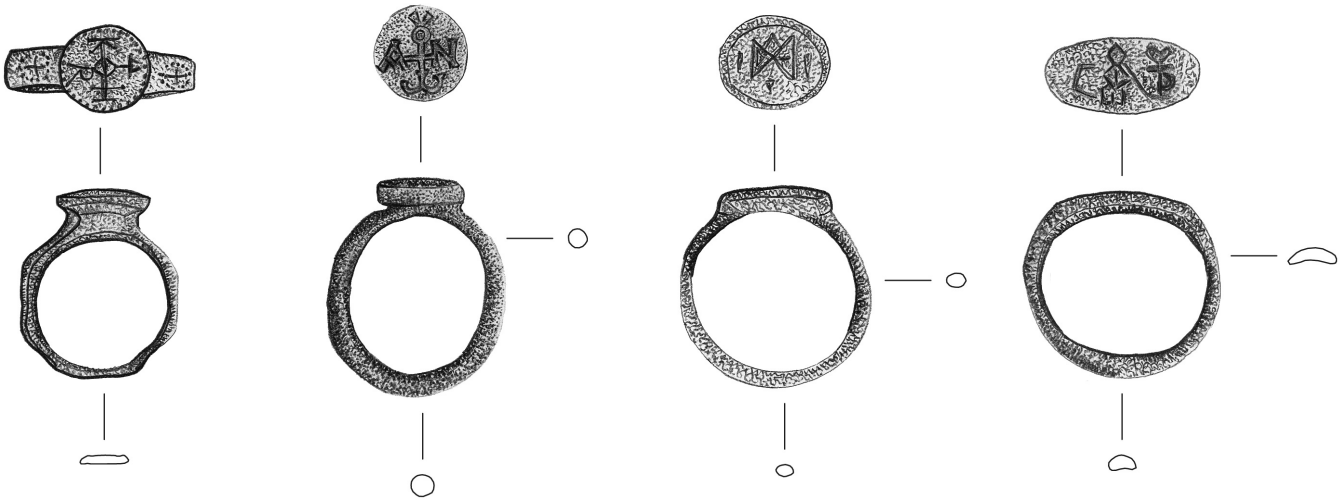




S 71 S 72 S 73



S 68 S 69

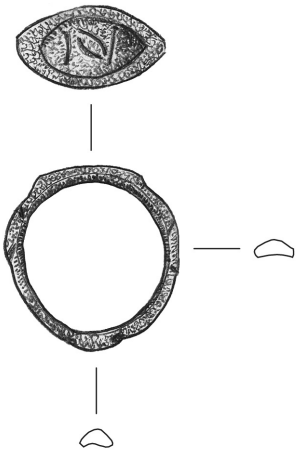


S 74 S 75 S 77 S 78

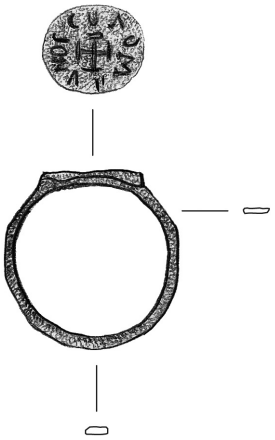
TAFEL 20



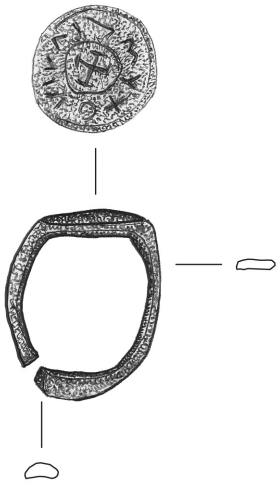
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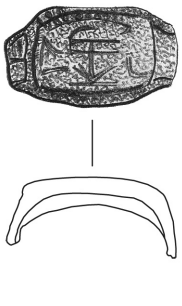
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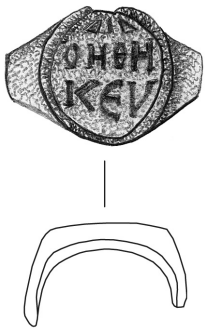
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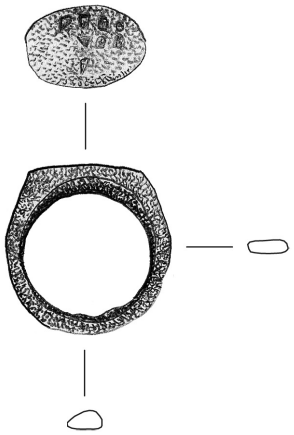
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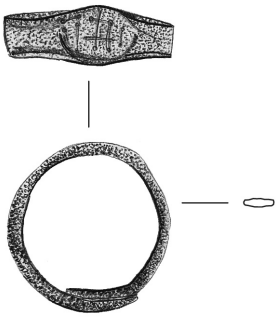
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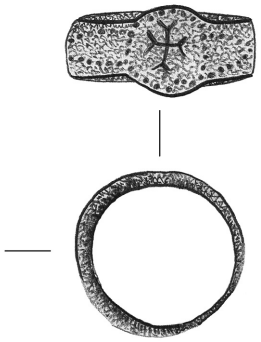
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S 86



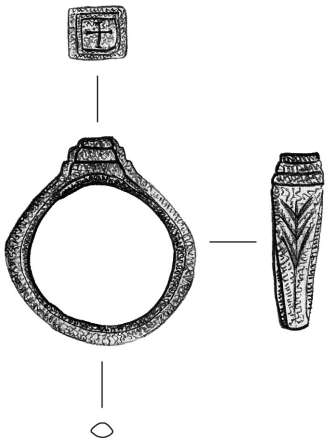
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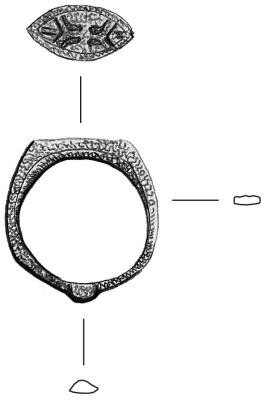
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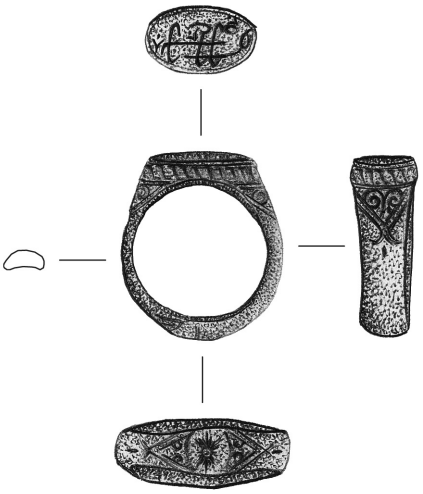
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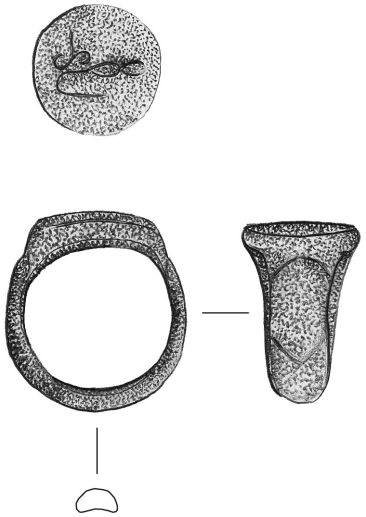
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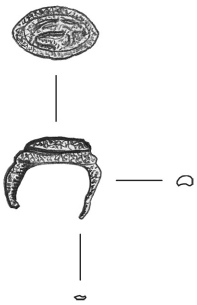
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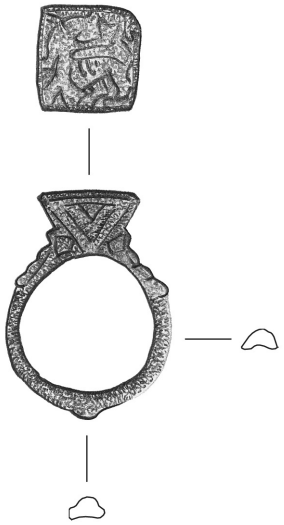
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S 93



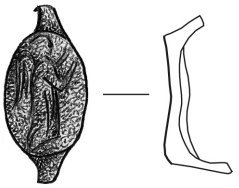
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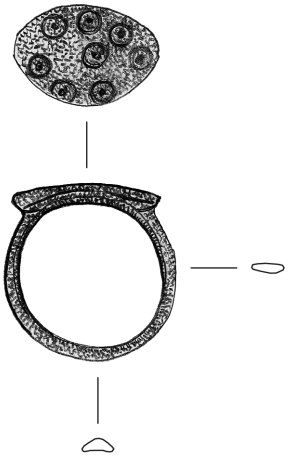
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S 96



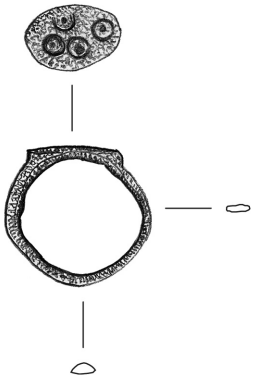
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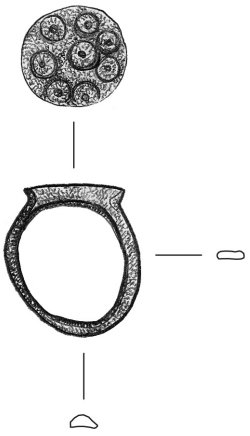
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S 99

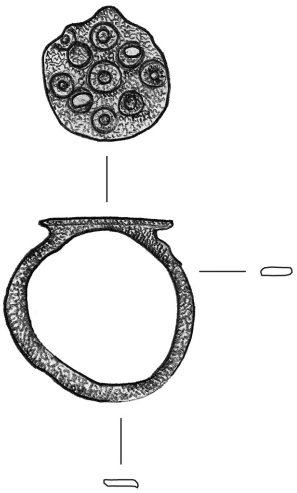


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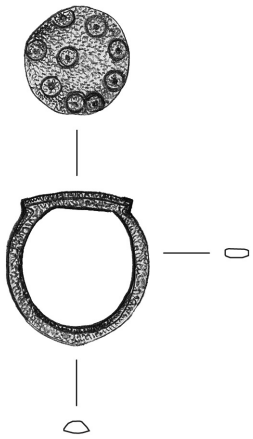


S 101

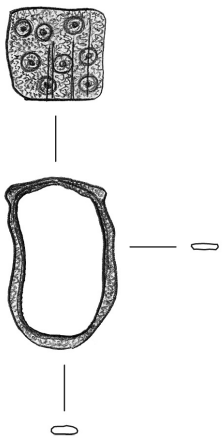
TAFEL 22



S 102



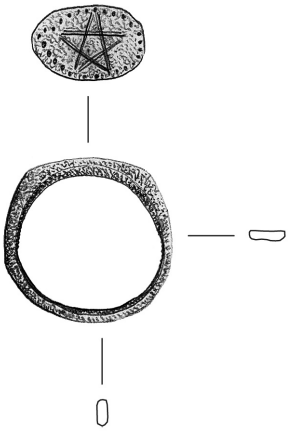
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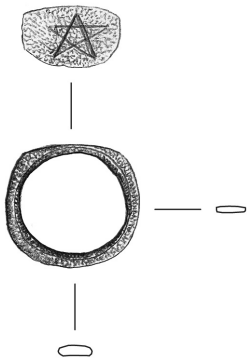
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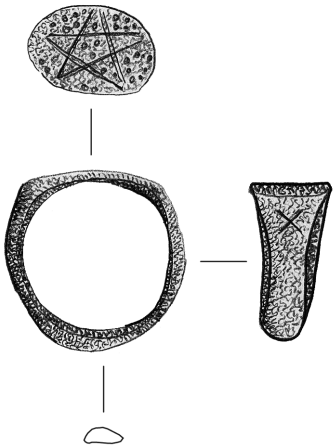
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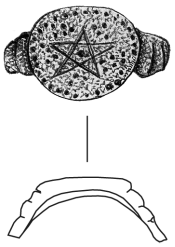
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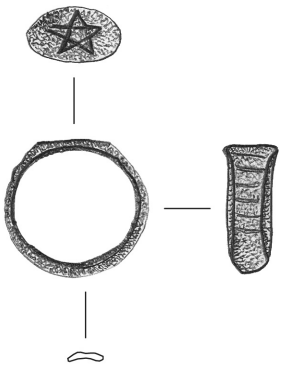
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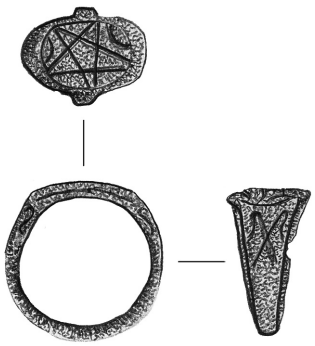
S 108



S 109



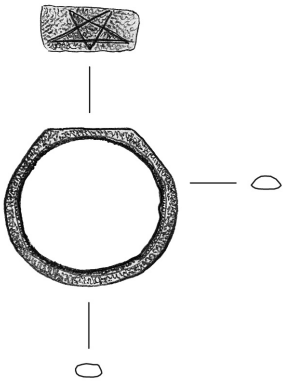
S 110



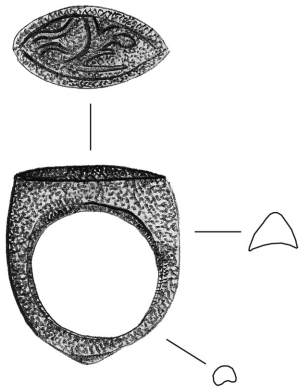
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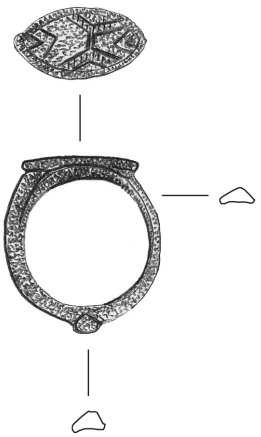
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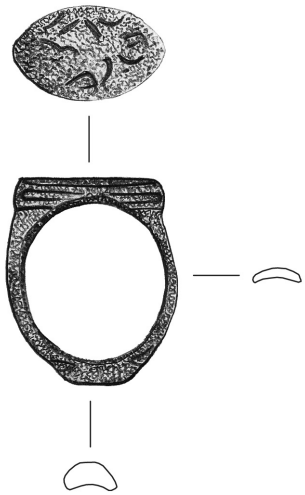
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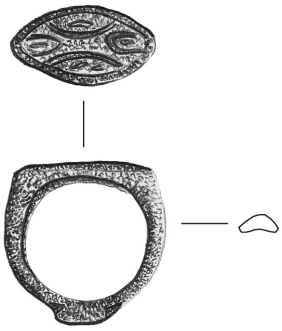
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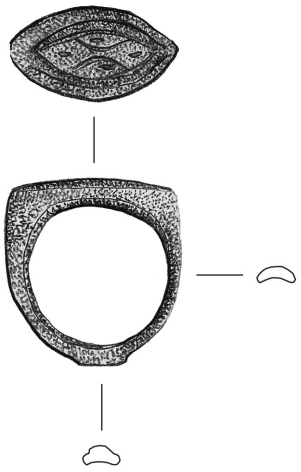
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S 116



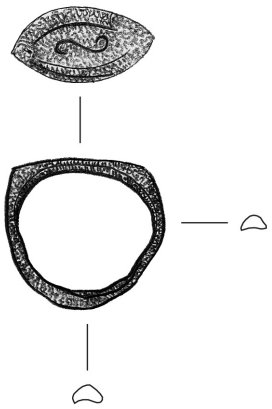
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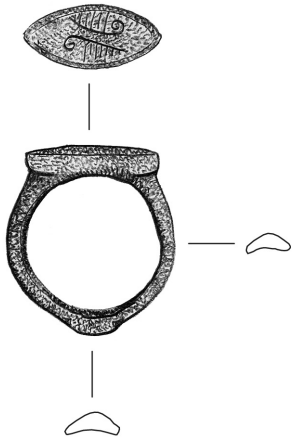
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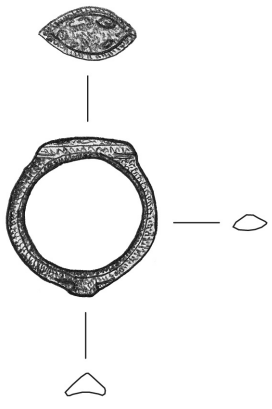
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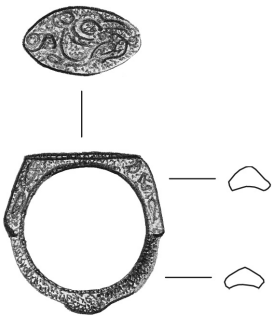
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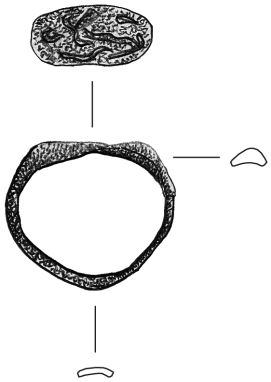
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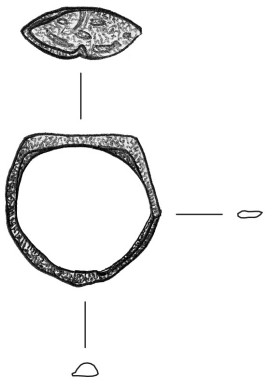
S 122



S 123

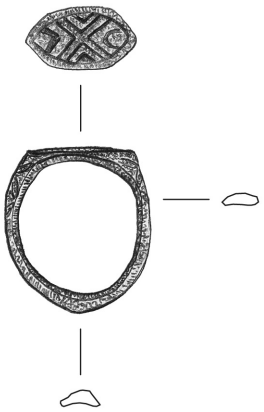


S 124

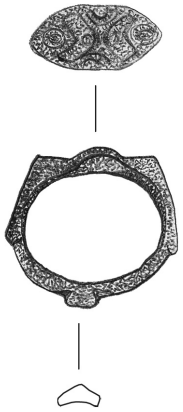


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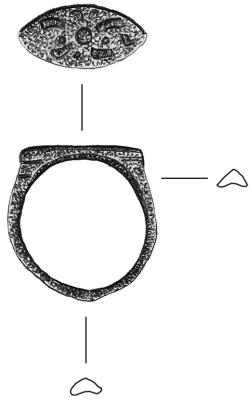
TAFEL 24



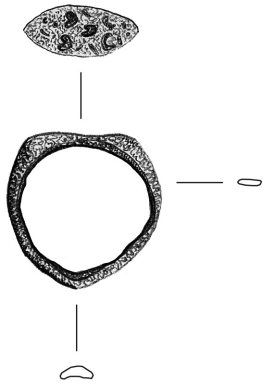
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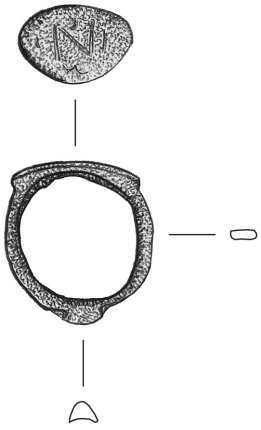
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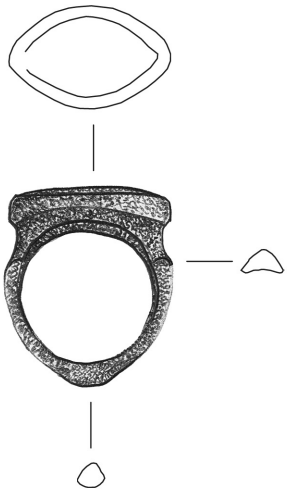
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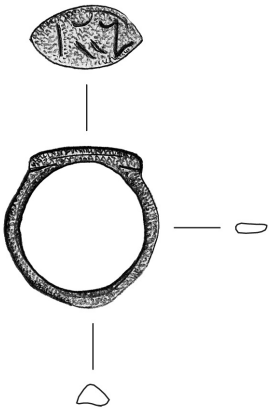
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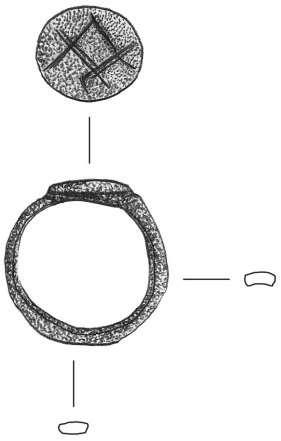
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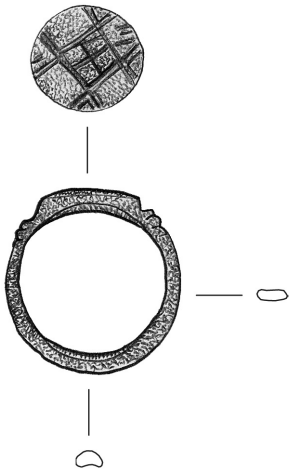
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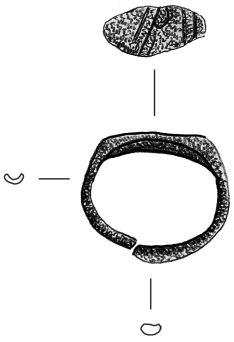
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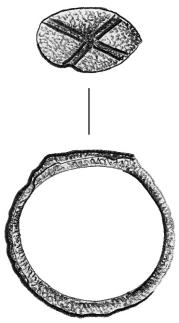
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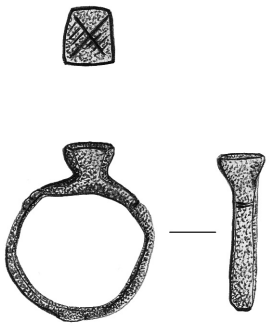
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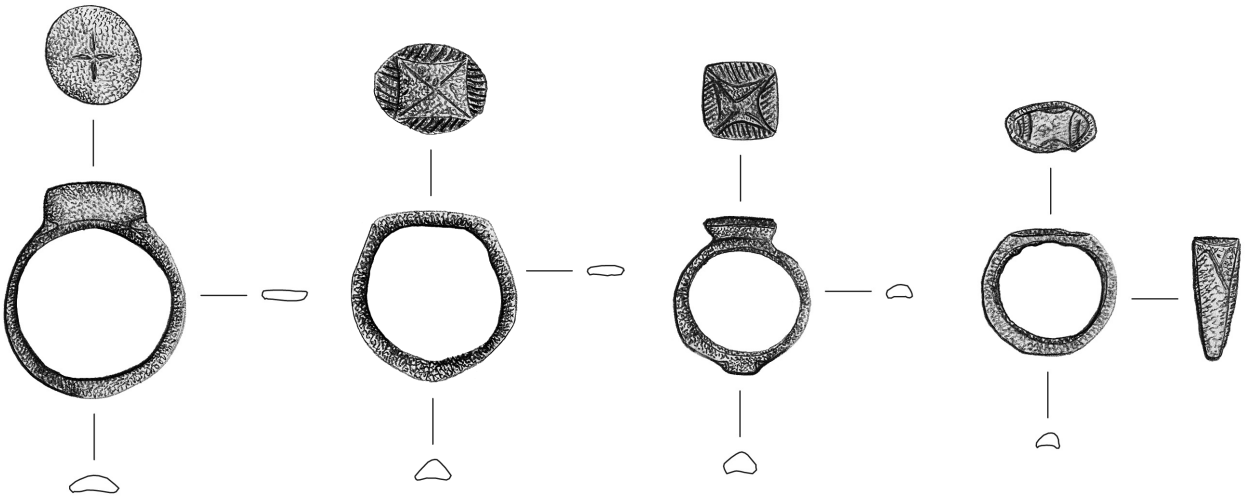
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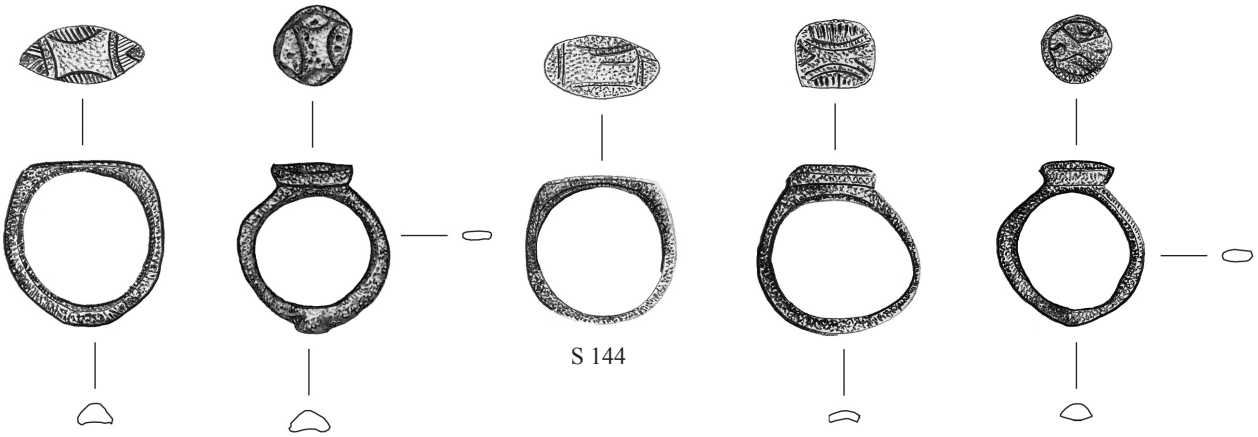
S 136



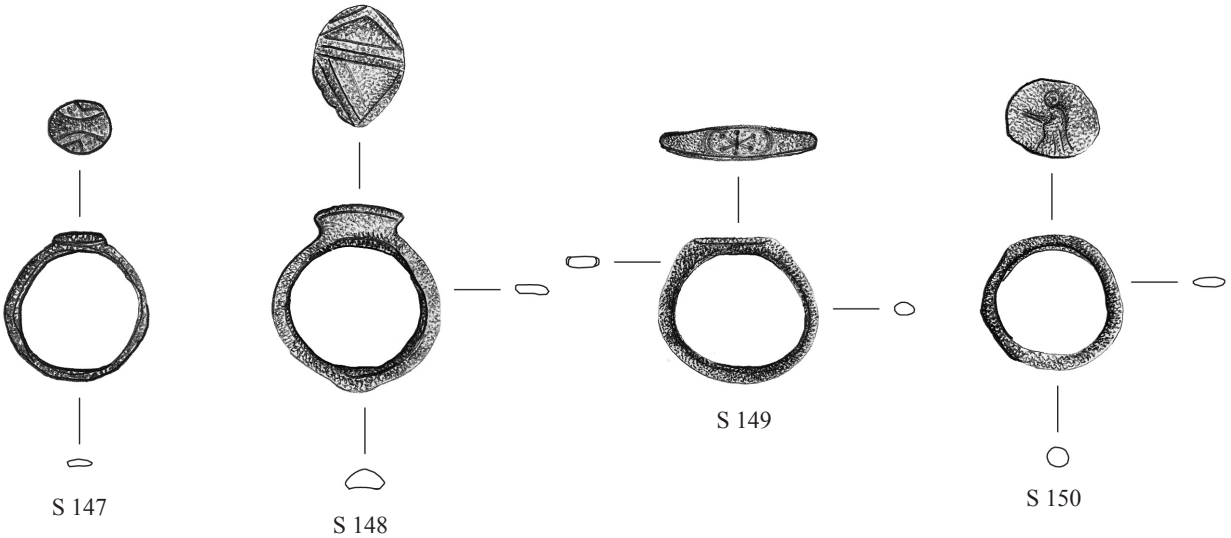
S 137



S 138 S 139 S 140 S 141

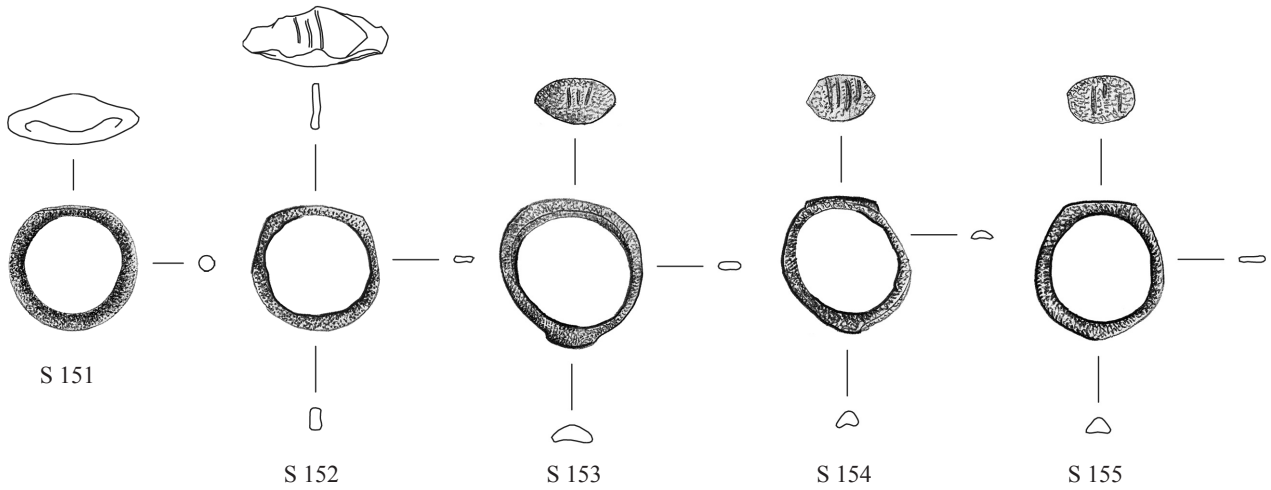


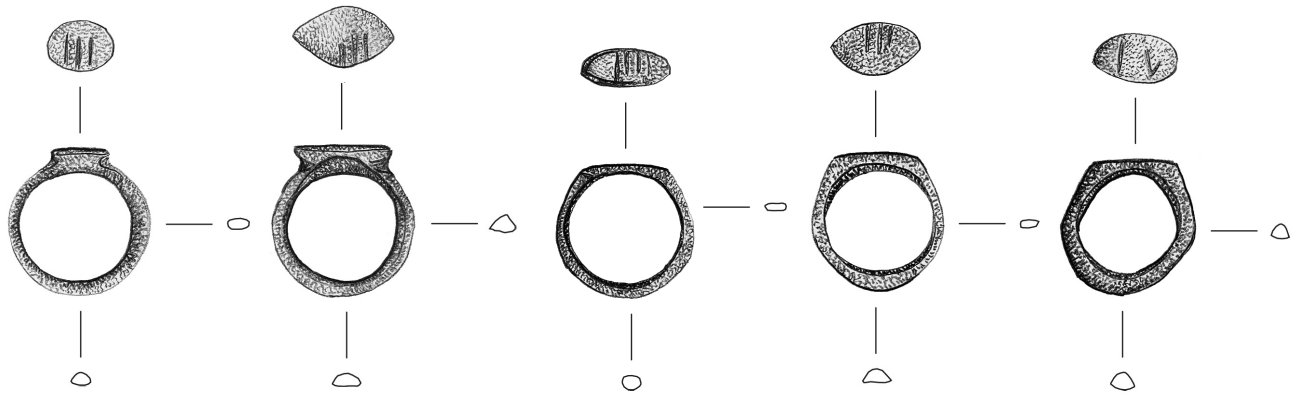
S 142 S 143 S 144 S 145 S 146

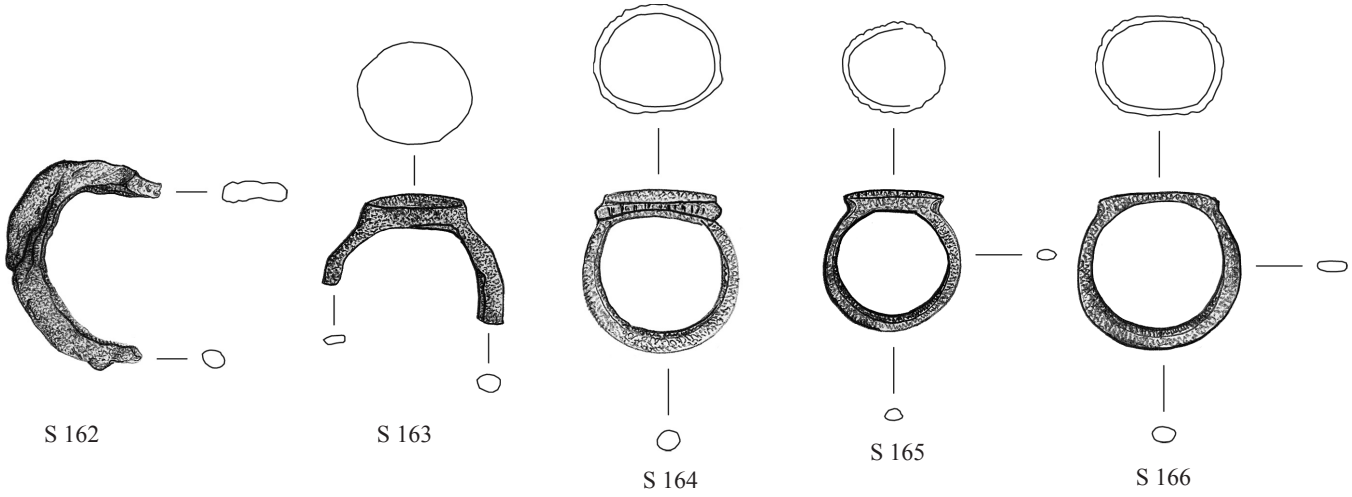


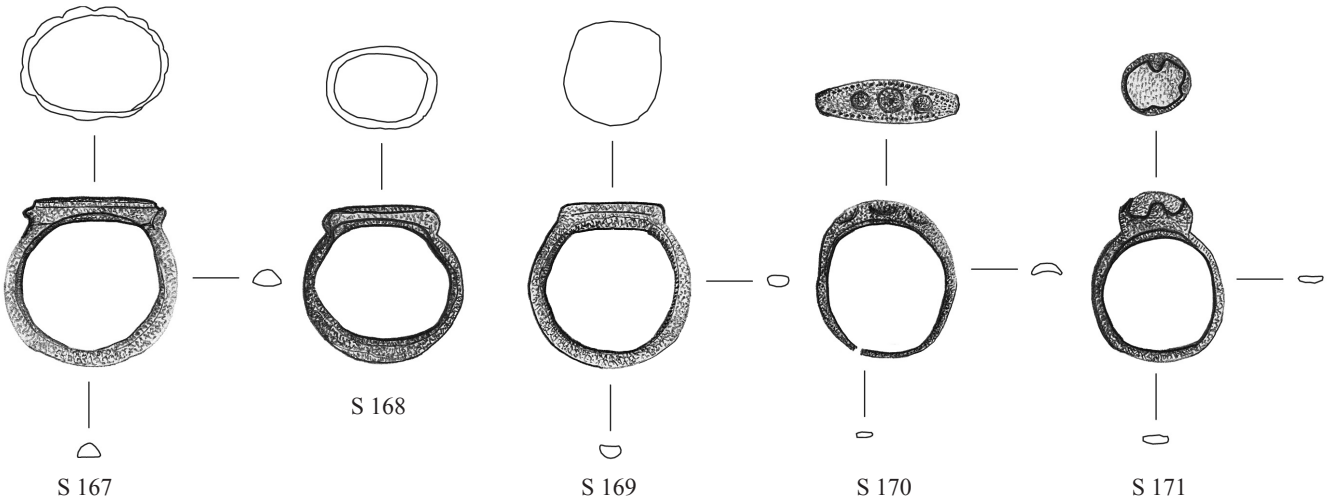
S 147 S 148 S 149 S 150

TAFEL 26

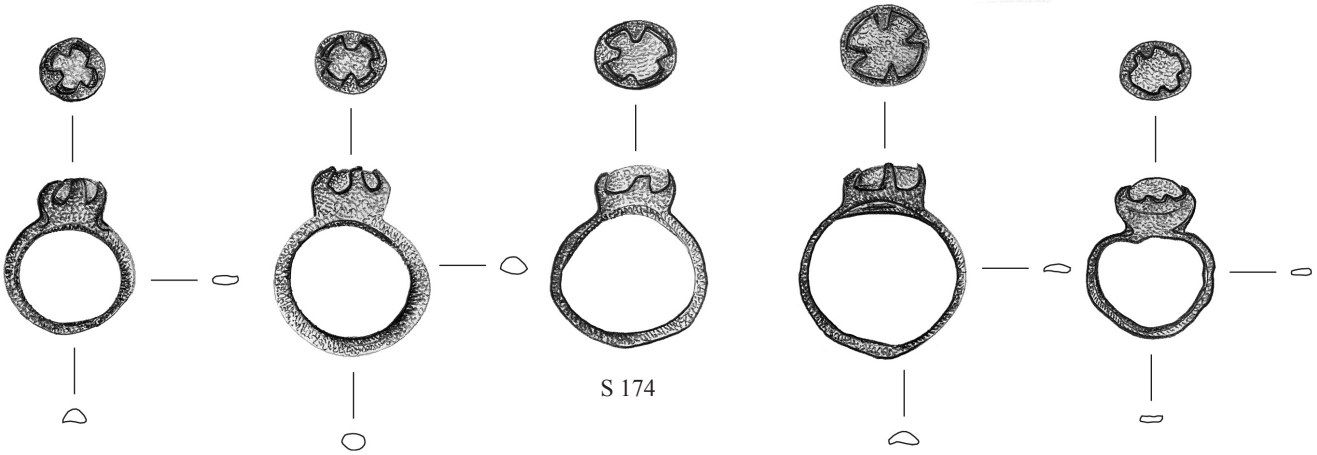

S 151
S 152
S 153
S 154
S 155


S 156
S 157
S 158
S 159
S 161

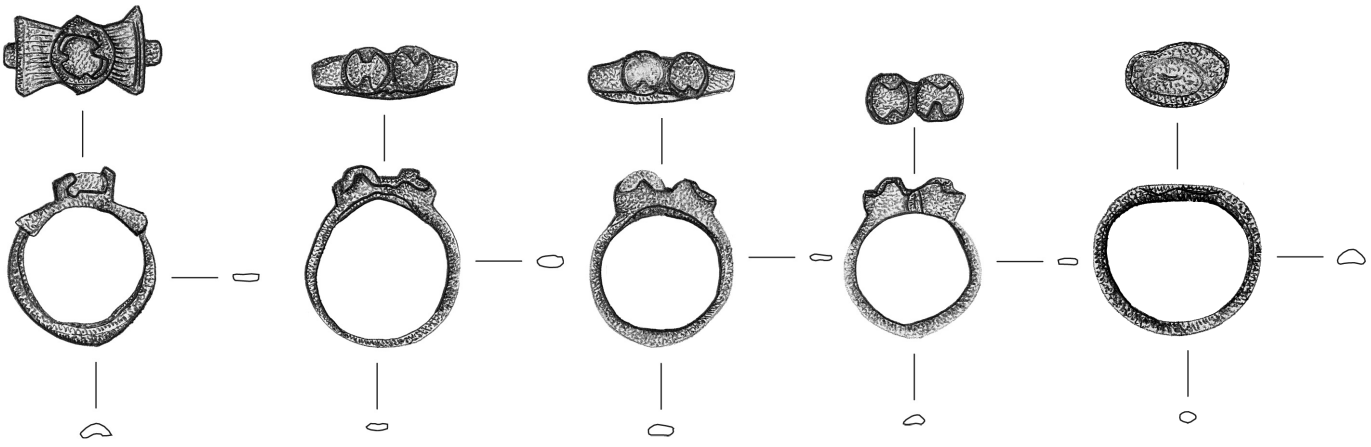

S 162
S 163
S 164
S 165
S 166



S 167 S 168 S 169 S 170 S 171

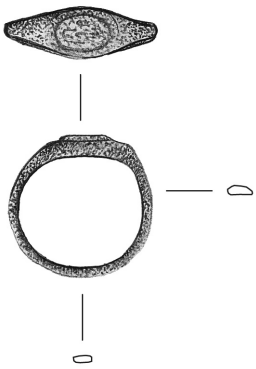


S 172 S 173 S 174 S 175 S 176

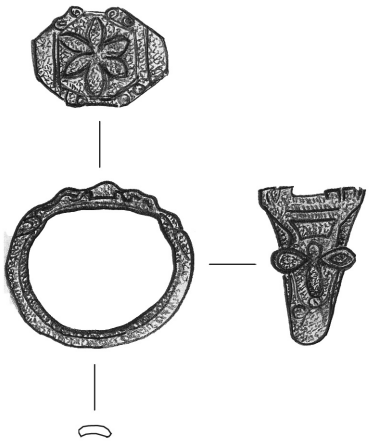


S 177 S 178 S 179 S 180 S 182

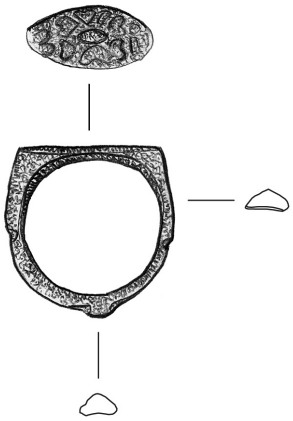
TAFEL 28



S 183



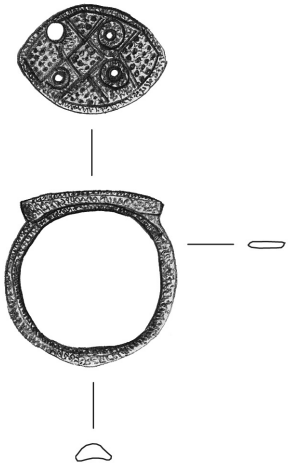
S 185



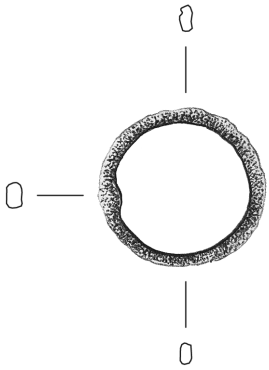
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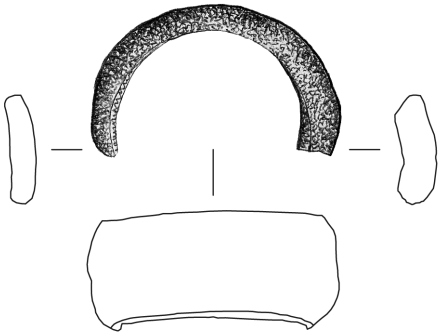
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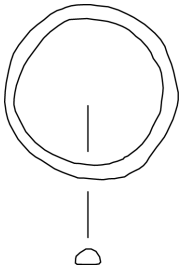
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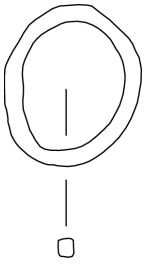
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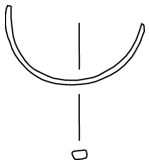
S 192



S 193



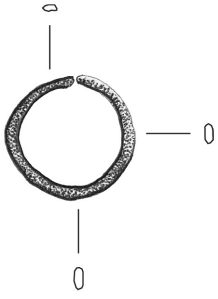
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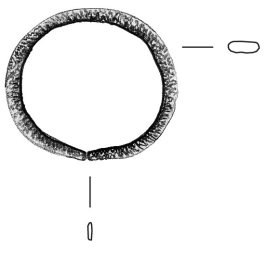
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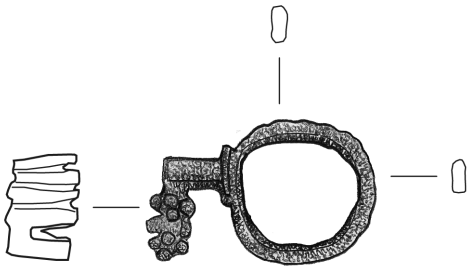
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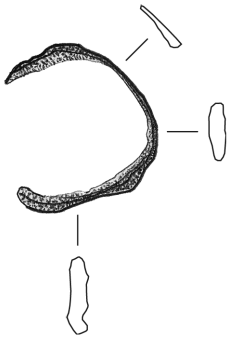
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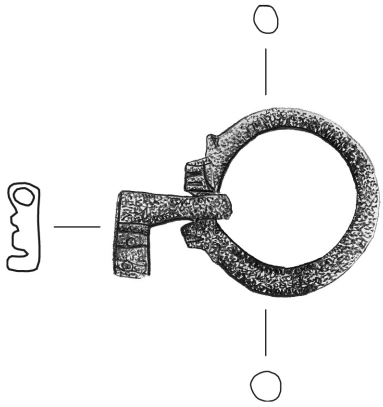
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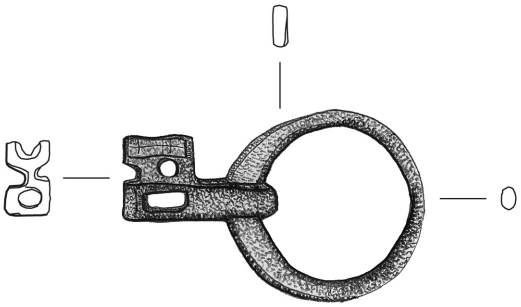
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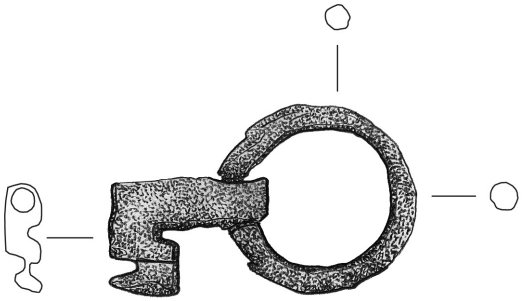
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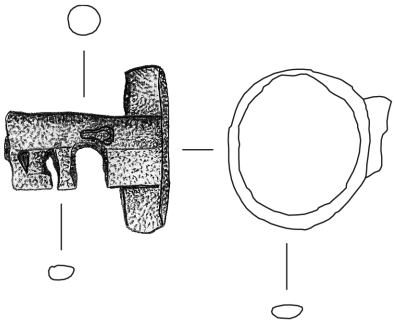
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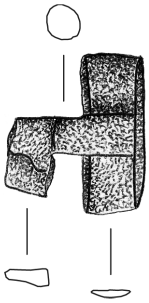
S 202



S 203



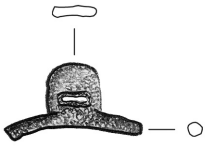
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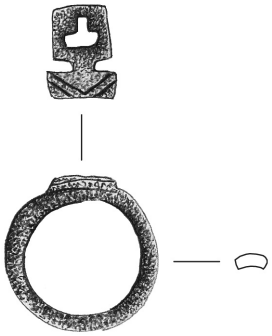
S 205



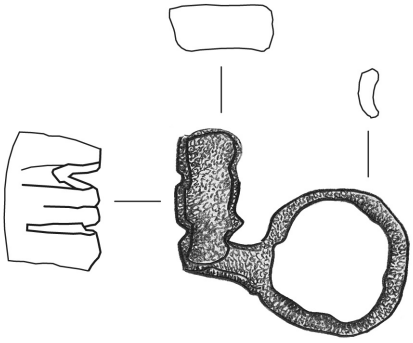
S 206



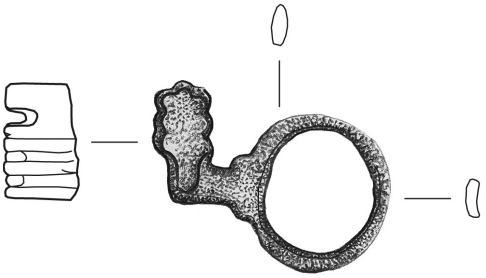
S 207



S 209

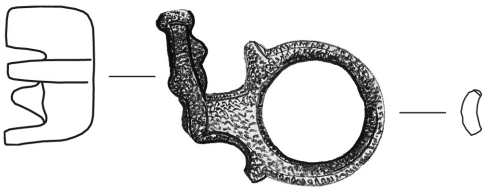


S 210

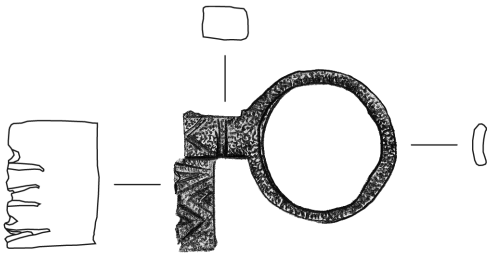


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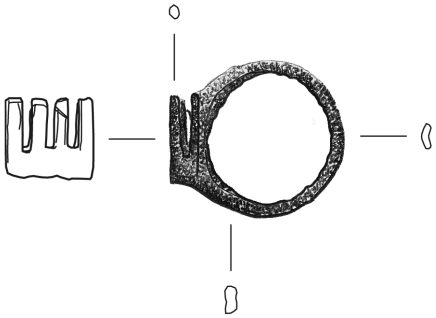
TAFEL 30



S 212



S 213



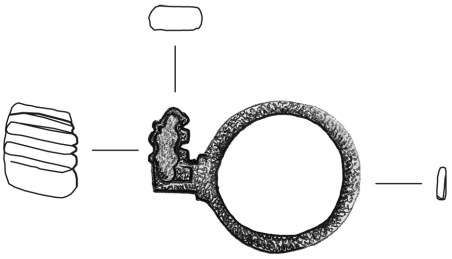
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S 215



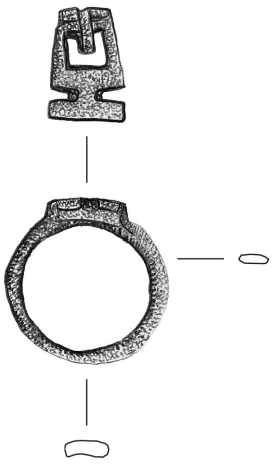
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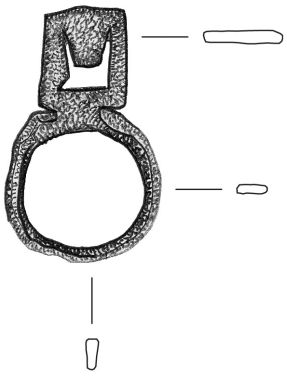
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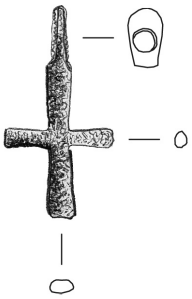
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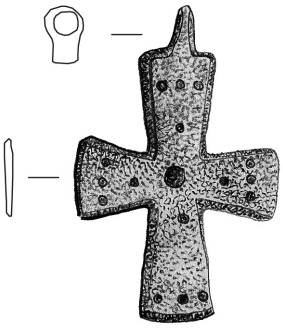
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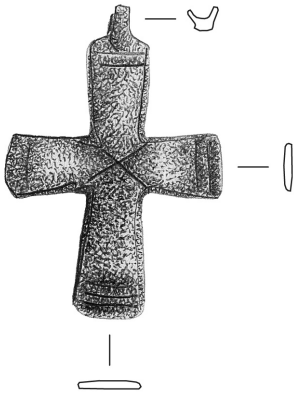
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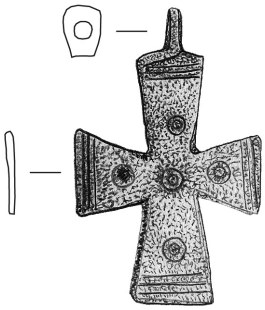
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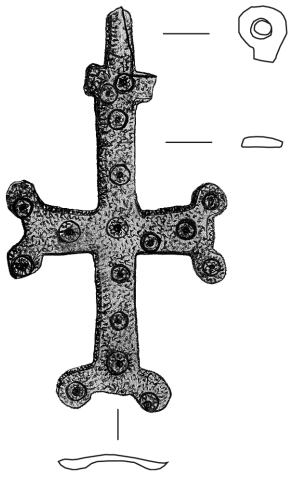
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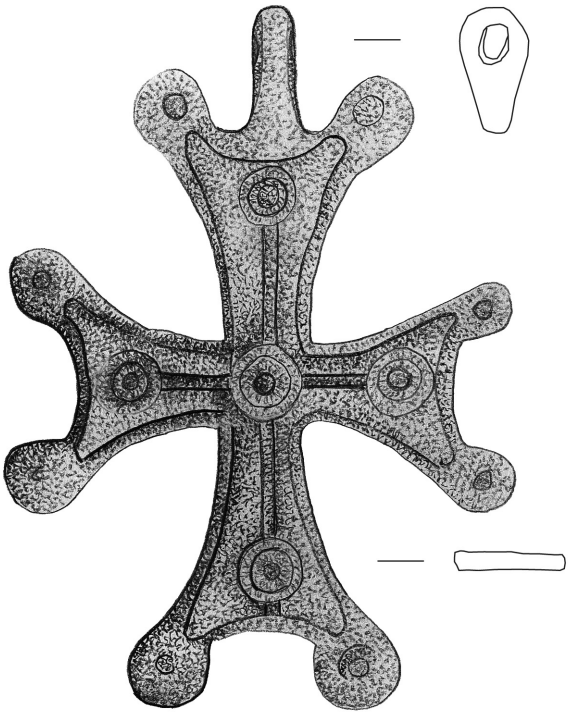
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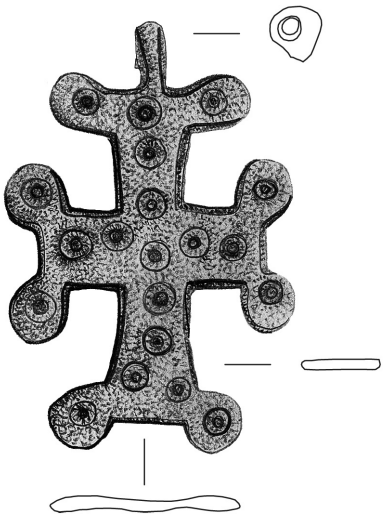


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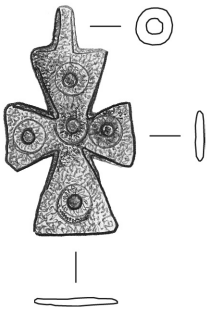


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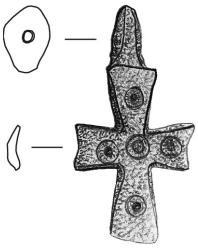
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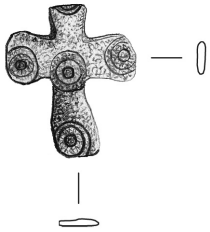
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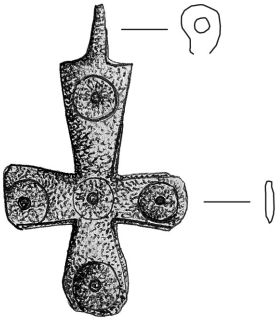
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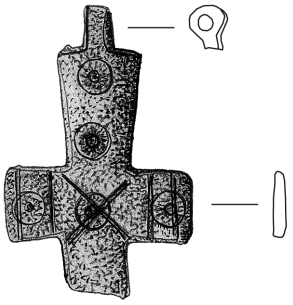
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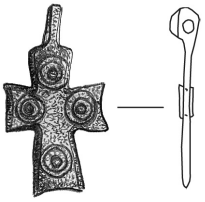
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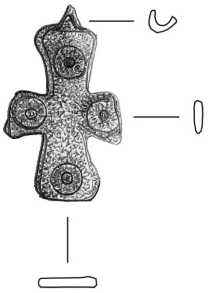
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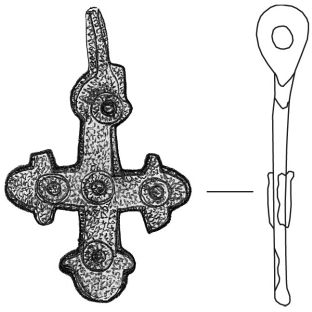
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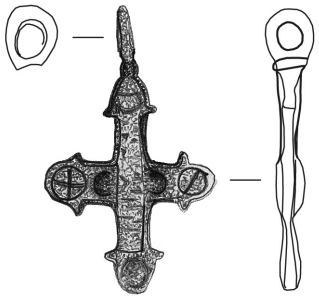
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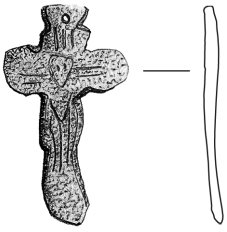
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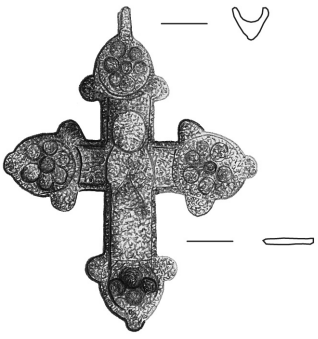
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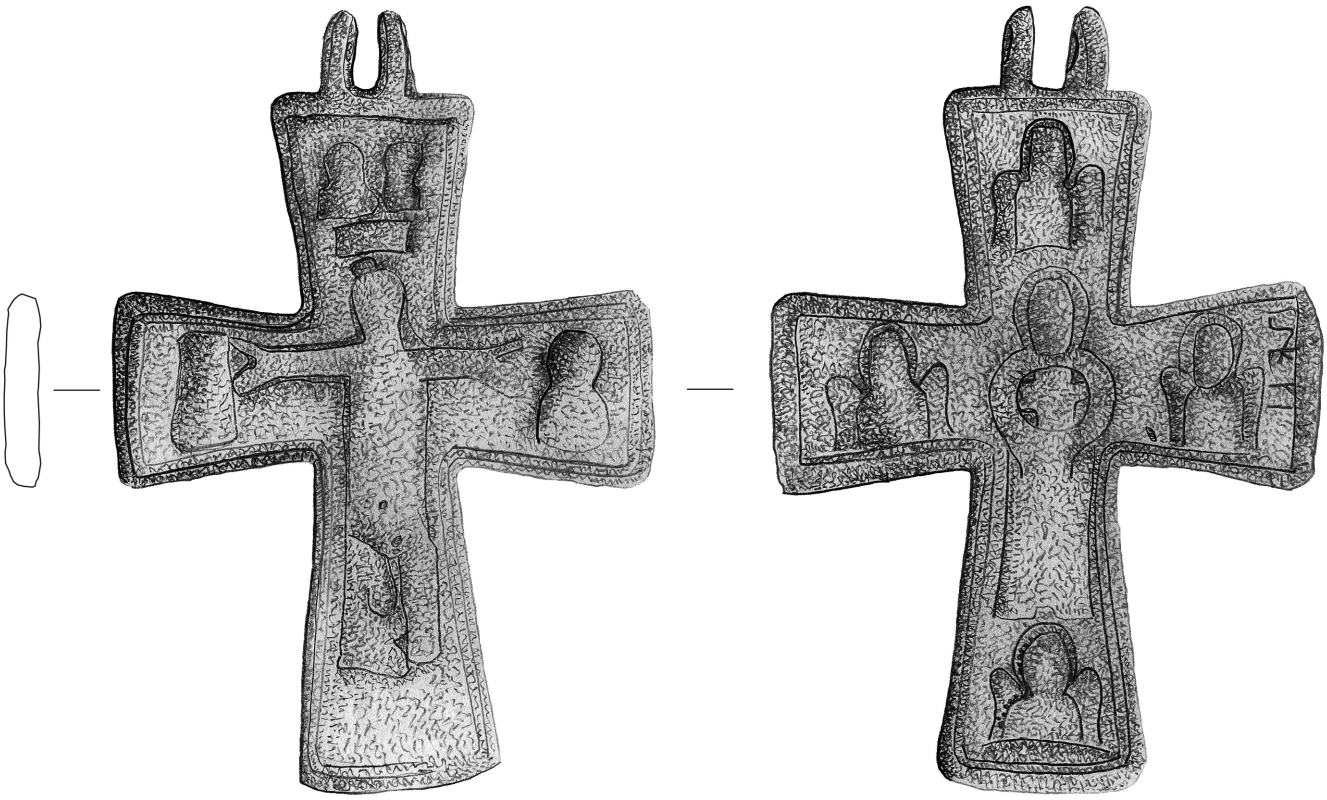
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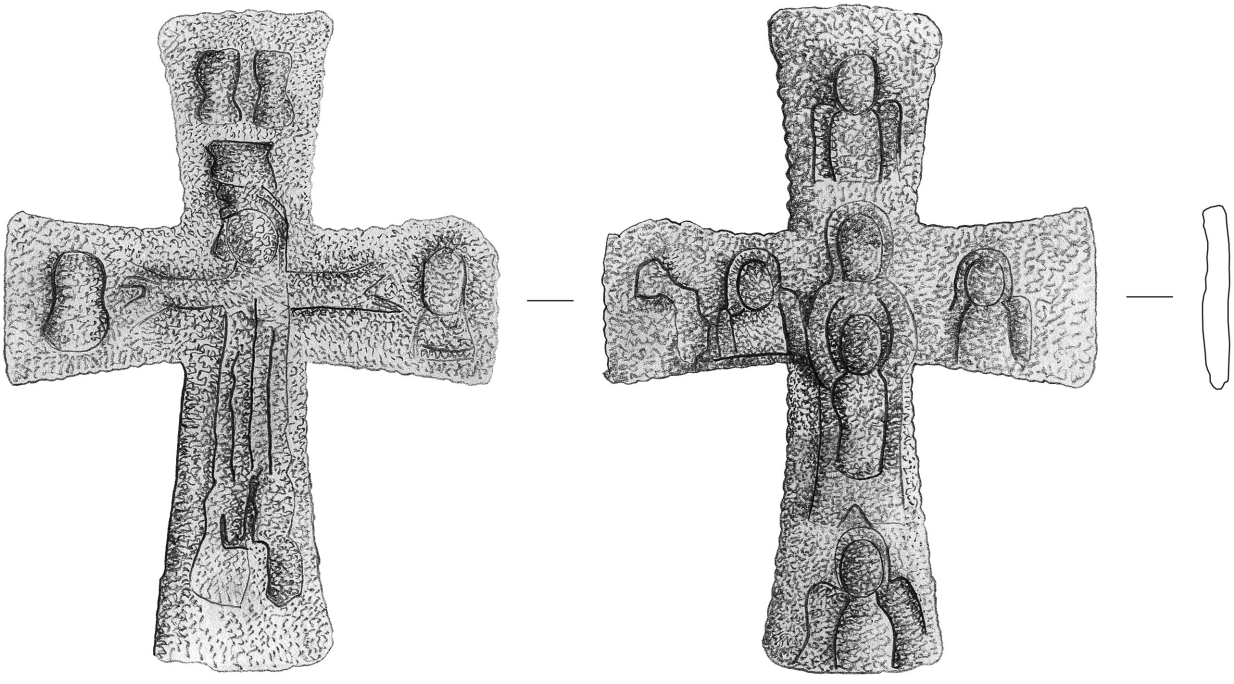
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K 20



K 21

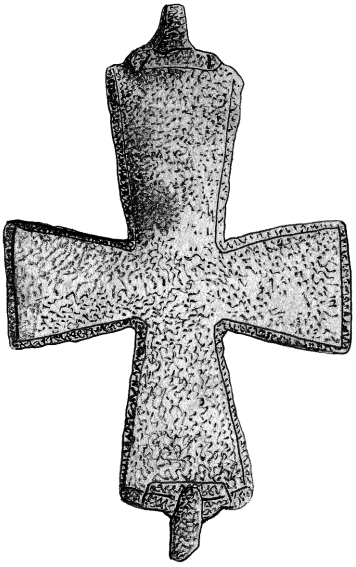


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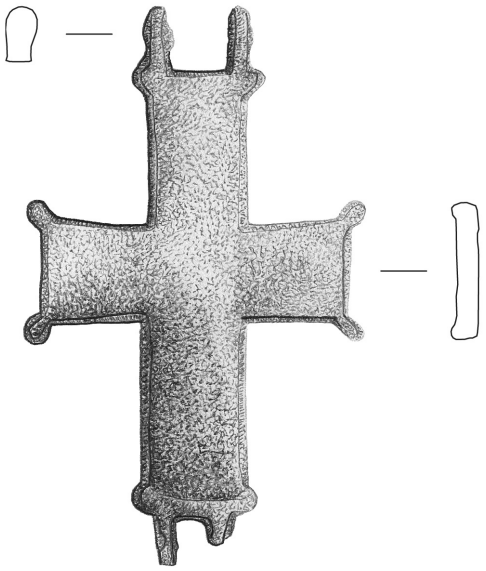
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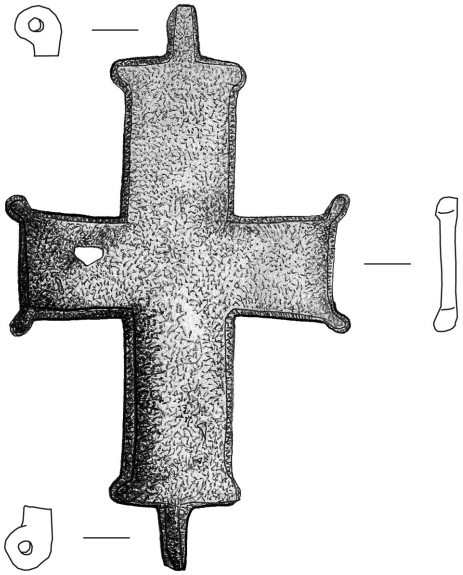


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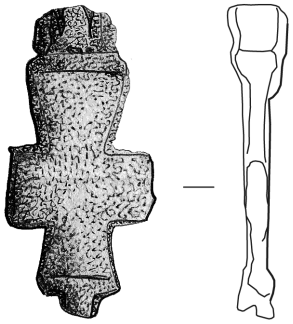


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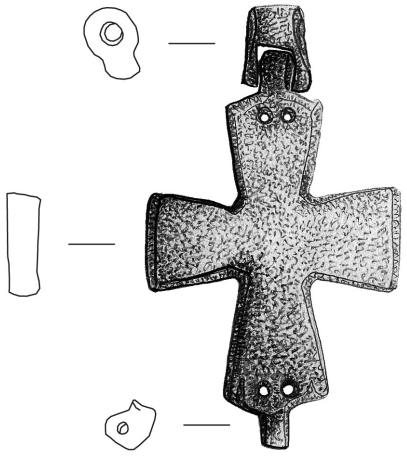




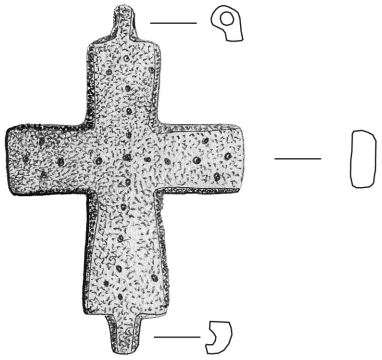
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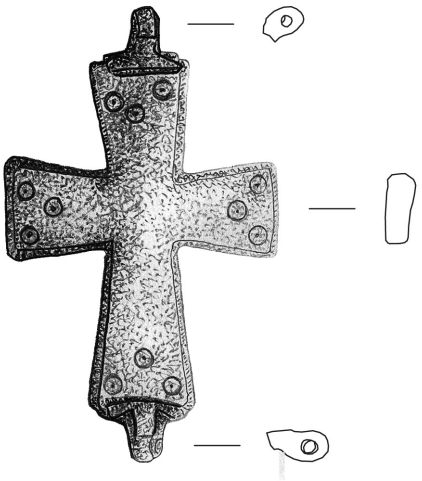
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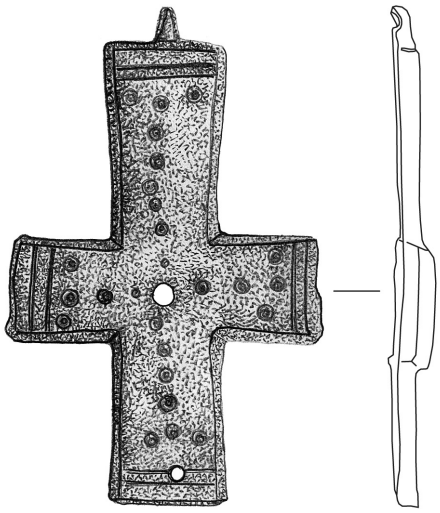
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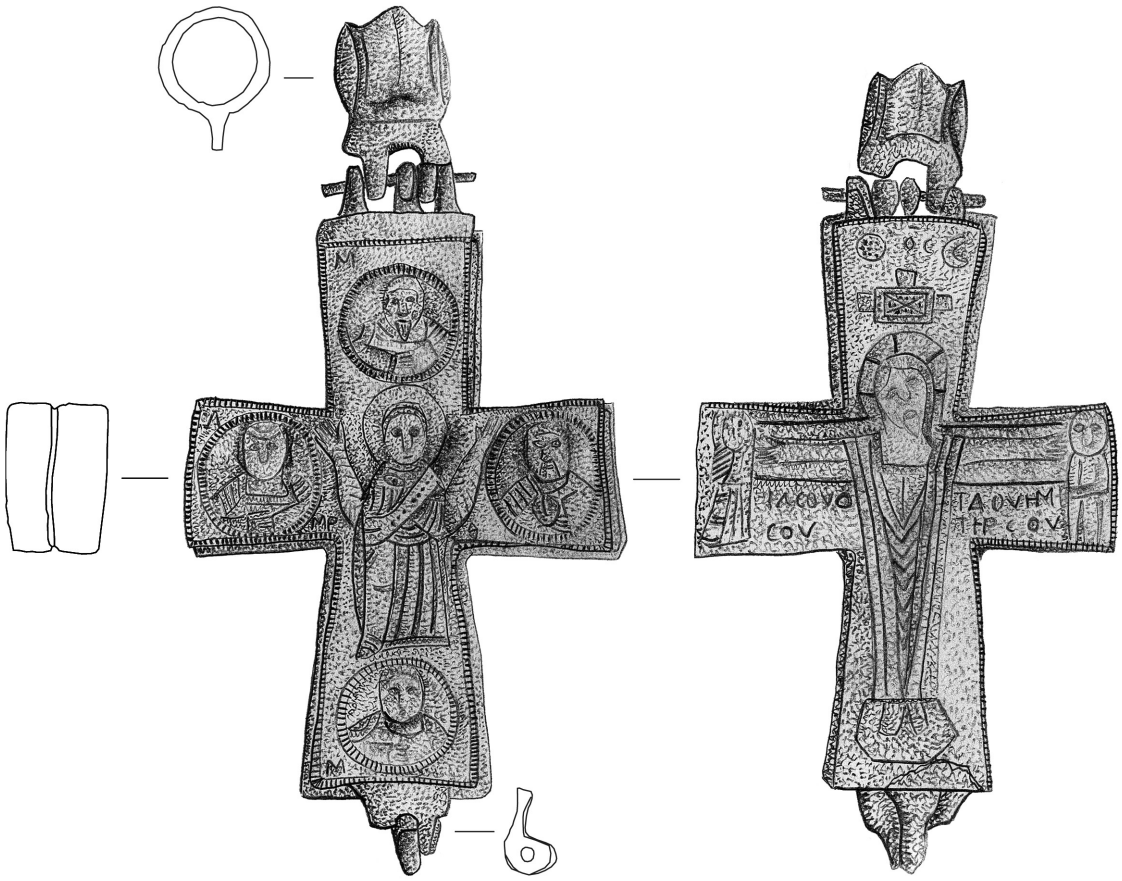
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K 29



K 30



K 31

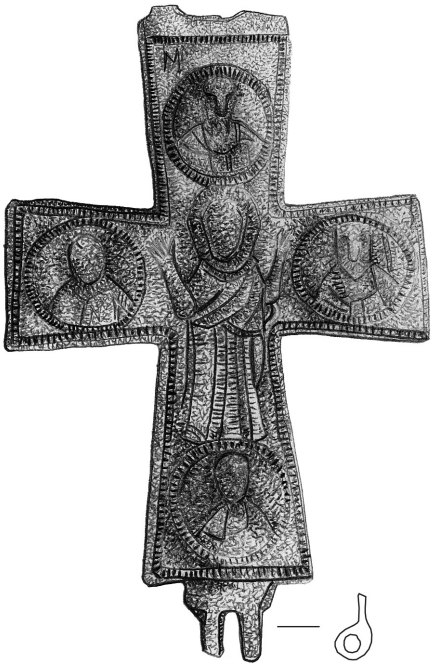
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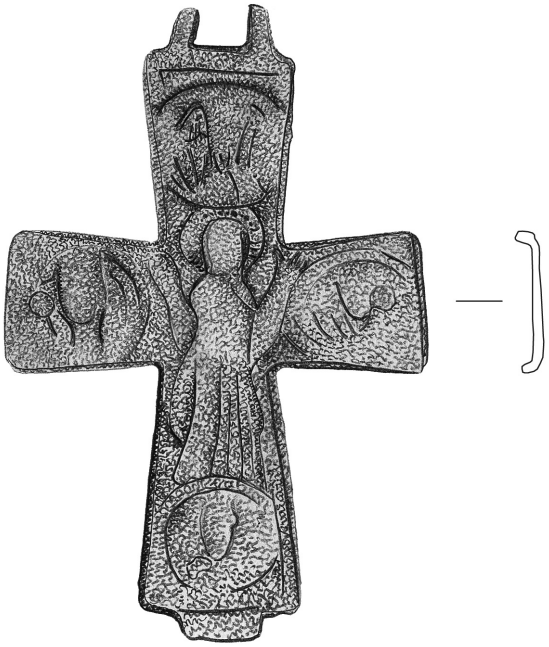
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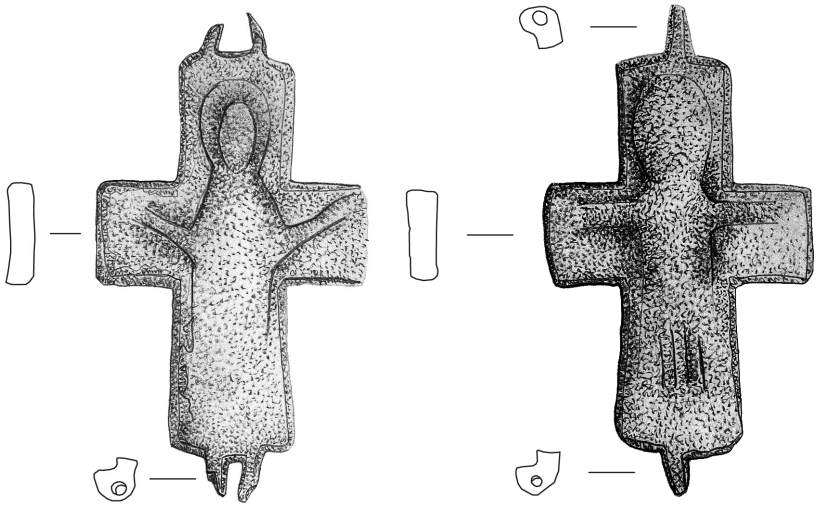
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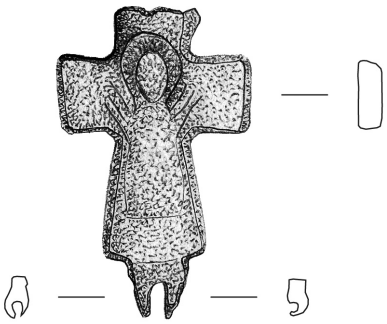
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K 35



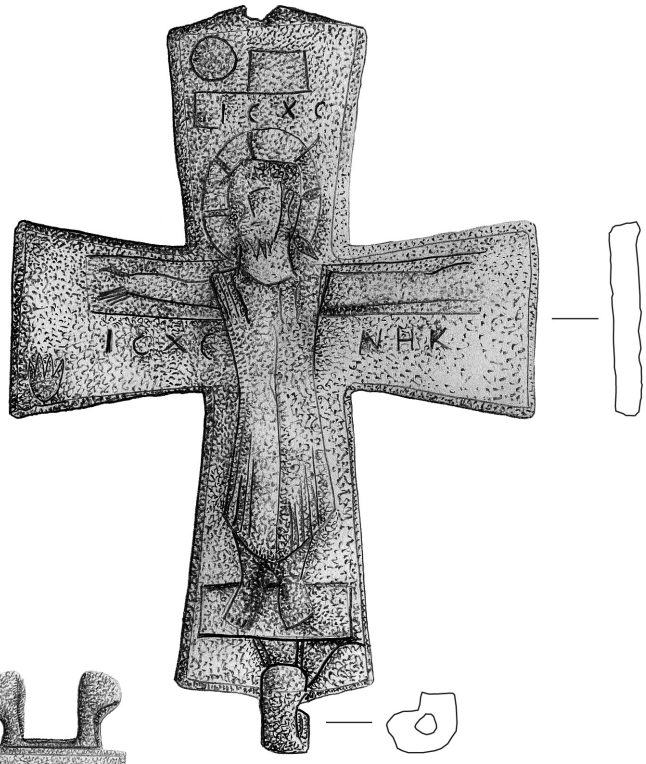
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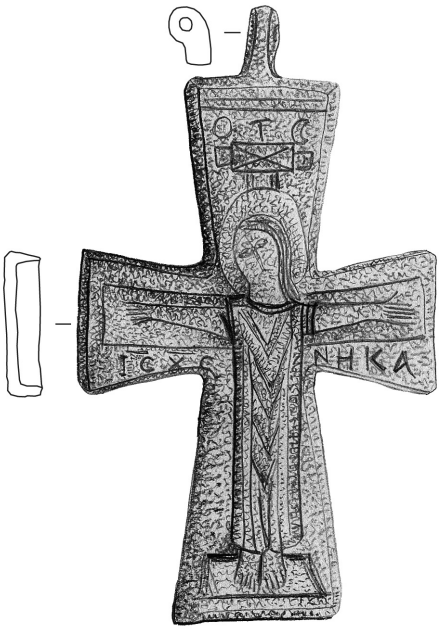
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K 38



K 39

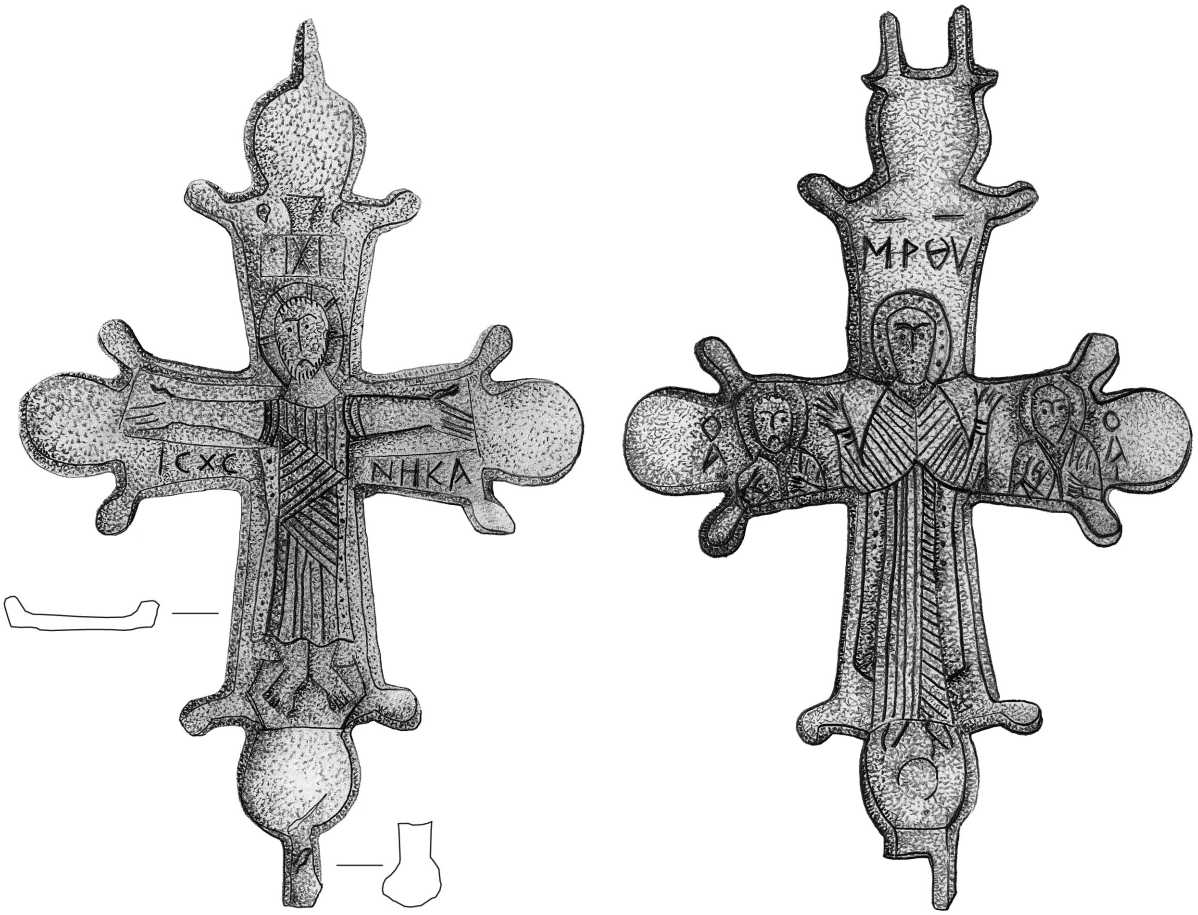


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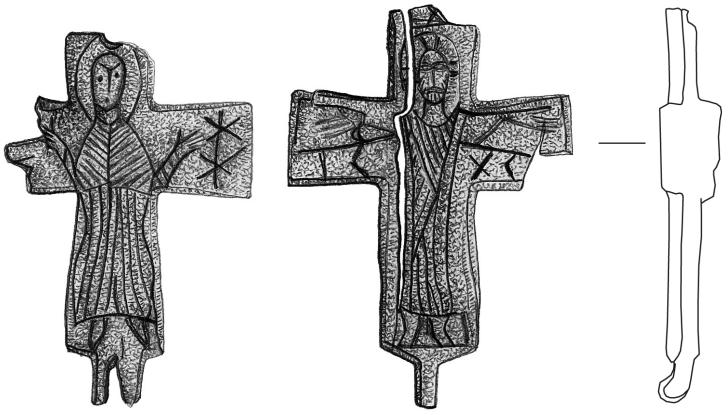


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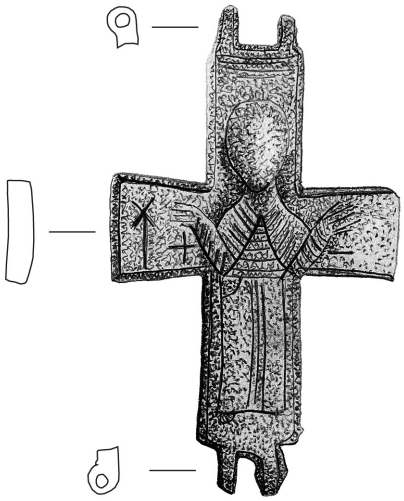
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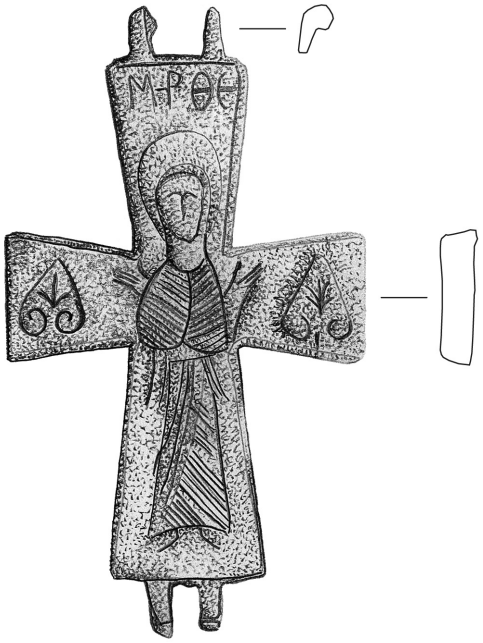
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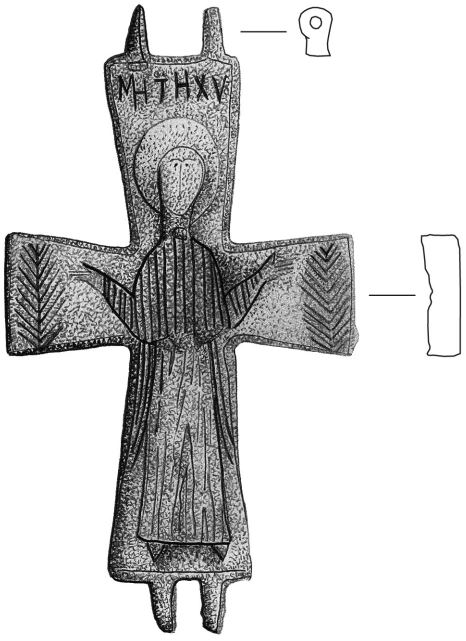
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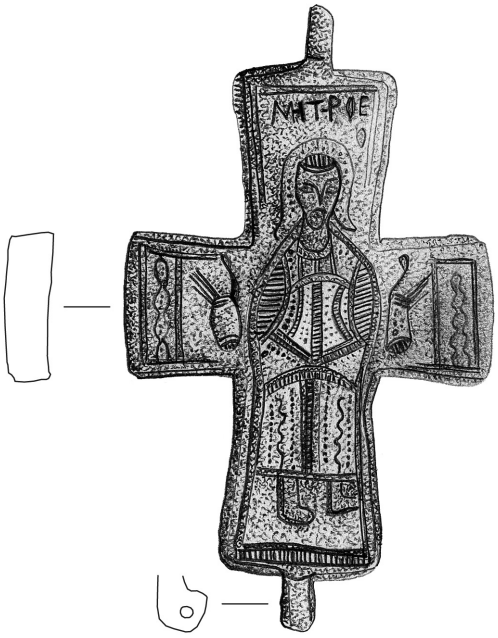
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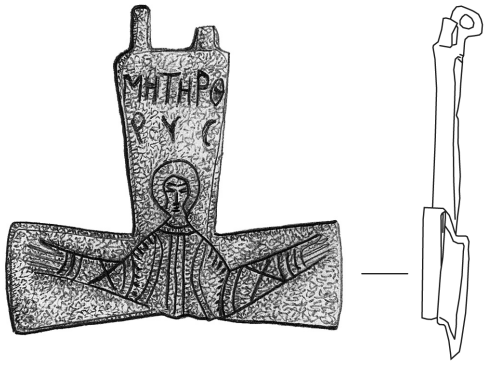
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K 46



K 47

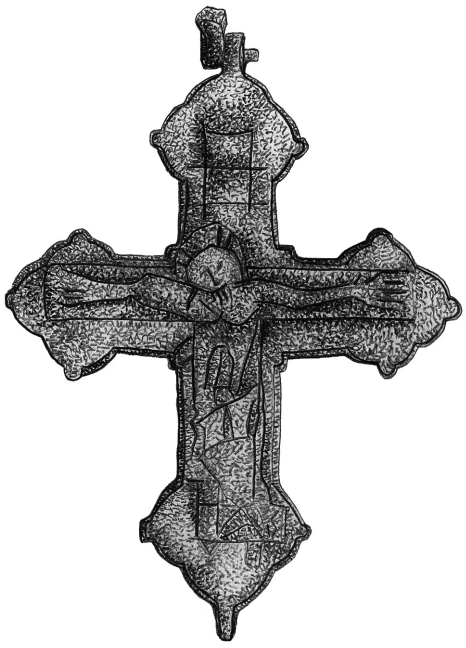


K 48

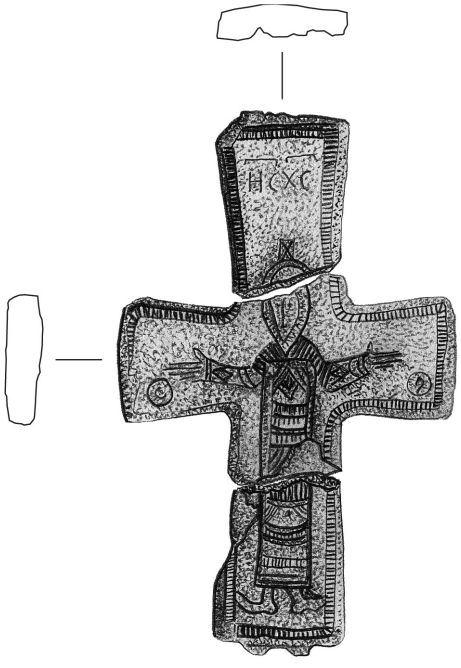
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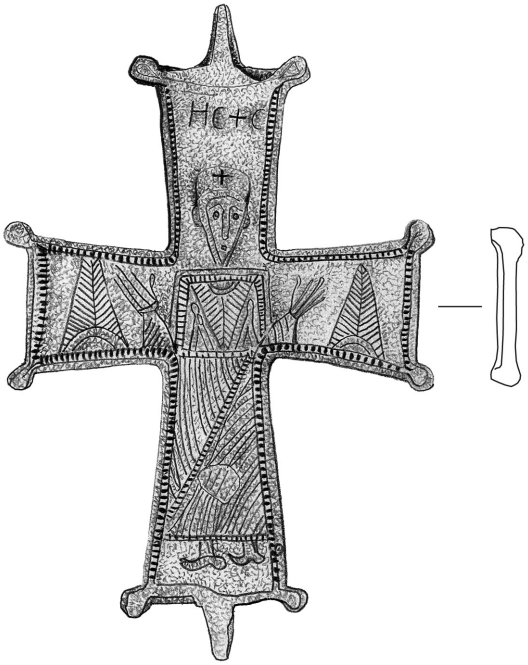
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K 50



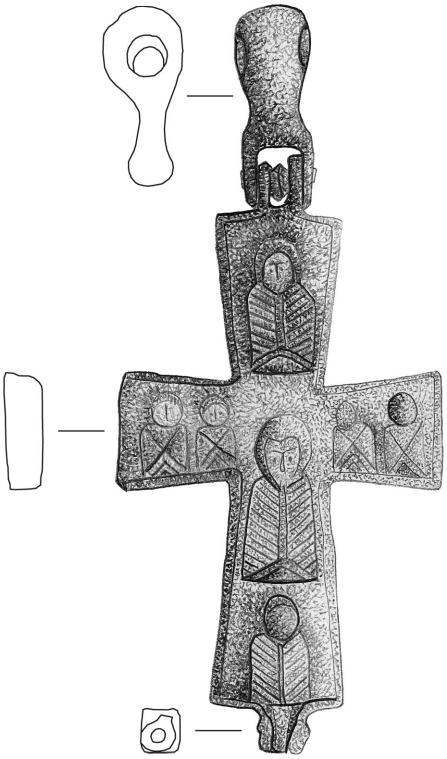
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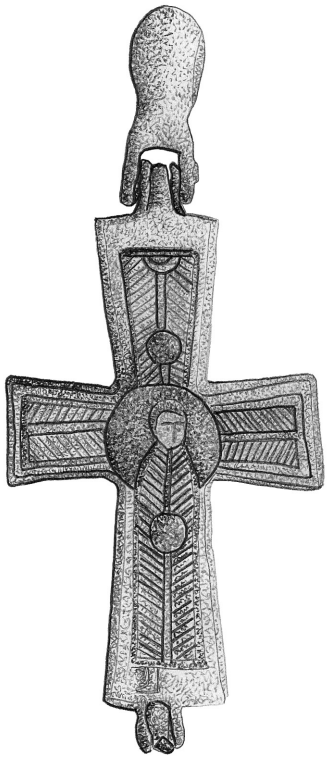


K 52

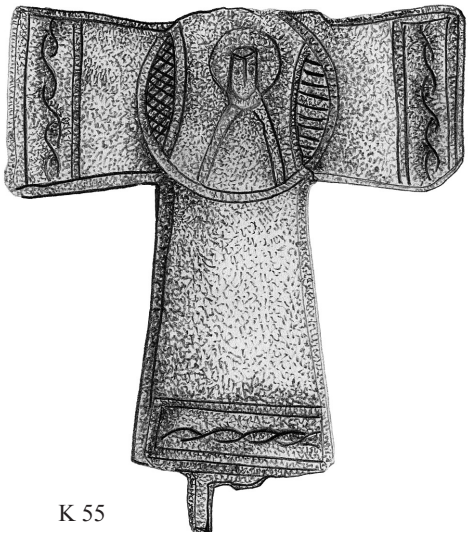


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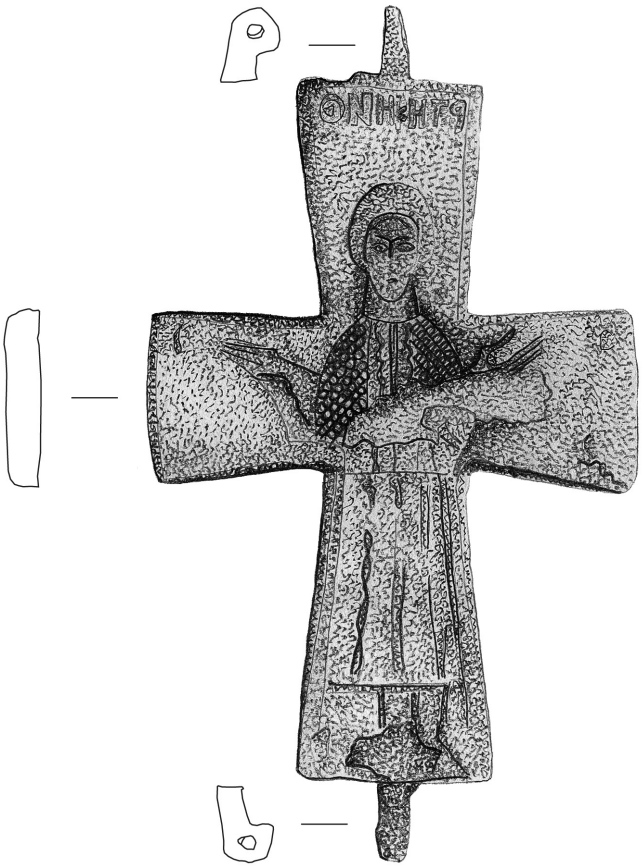




K 54



K 55

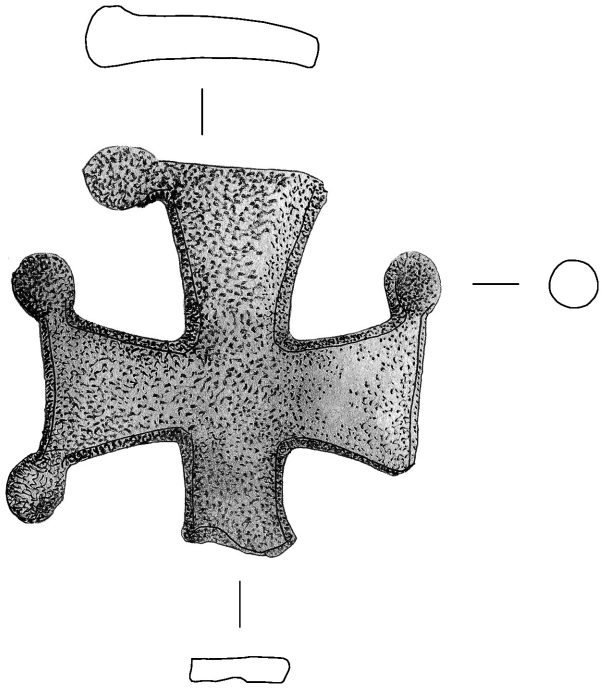


K 56

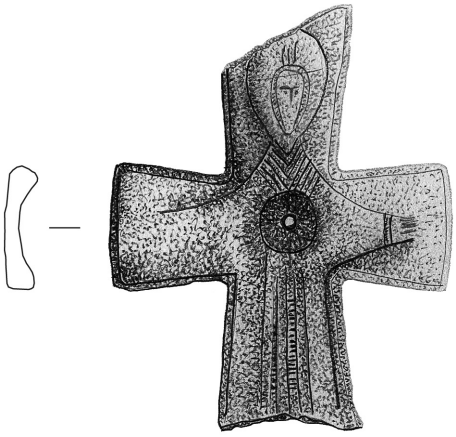
TAFEL 42



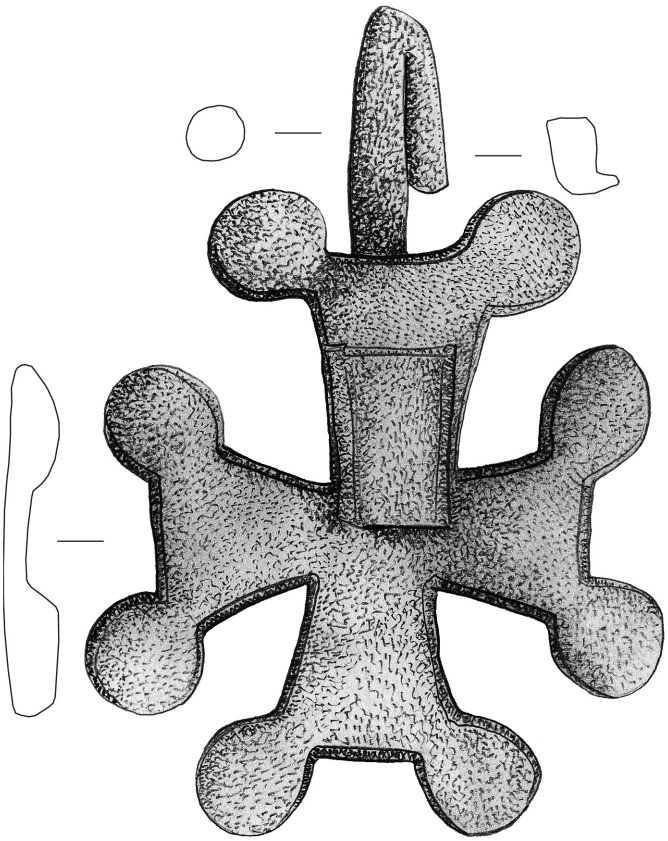
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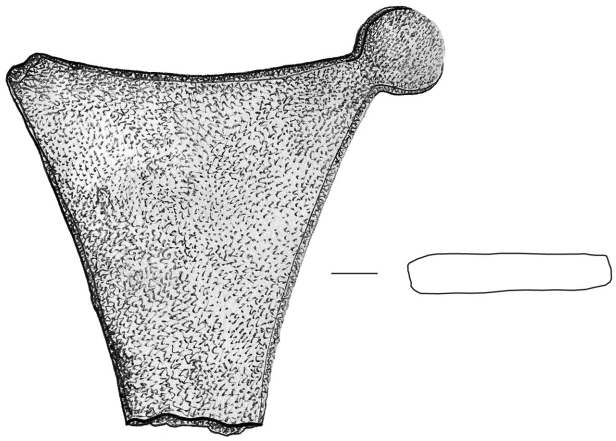
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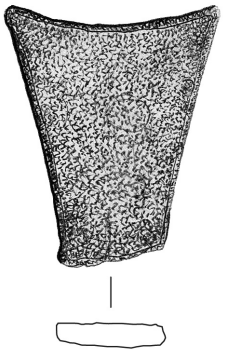


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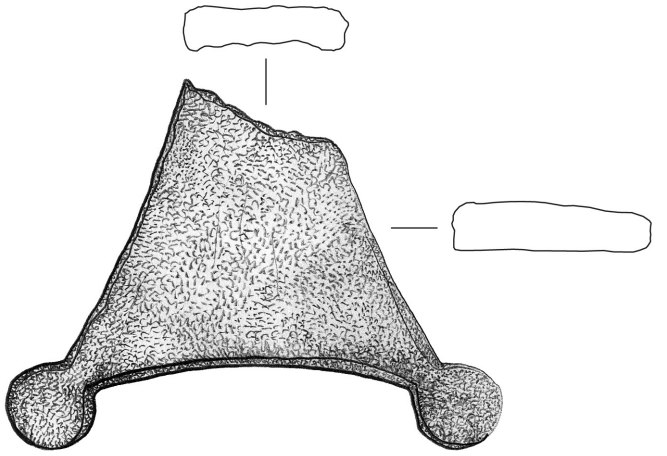


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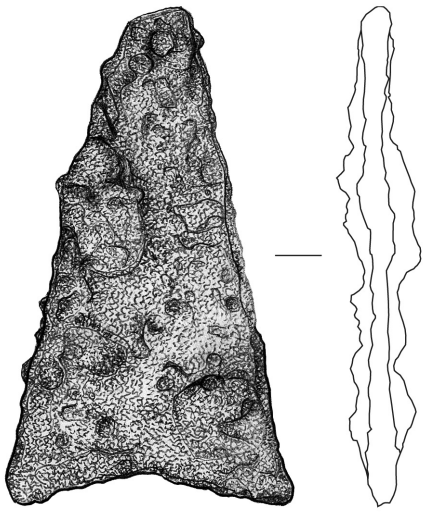




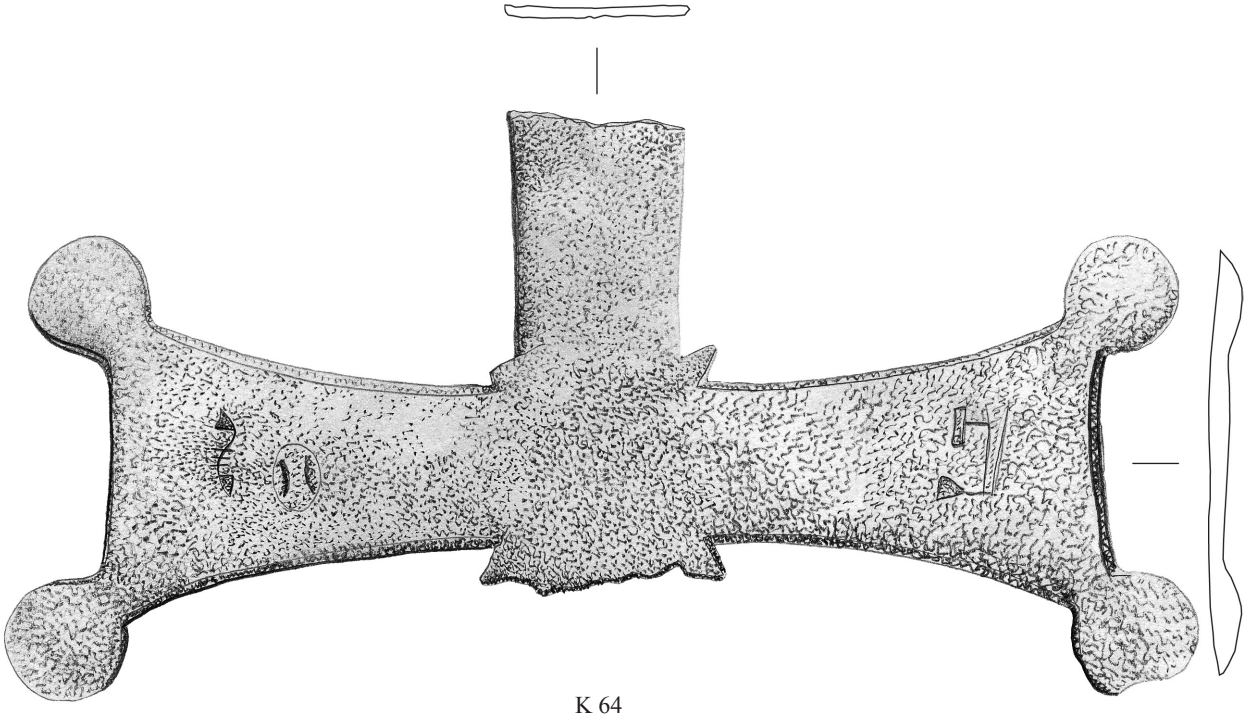
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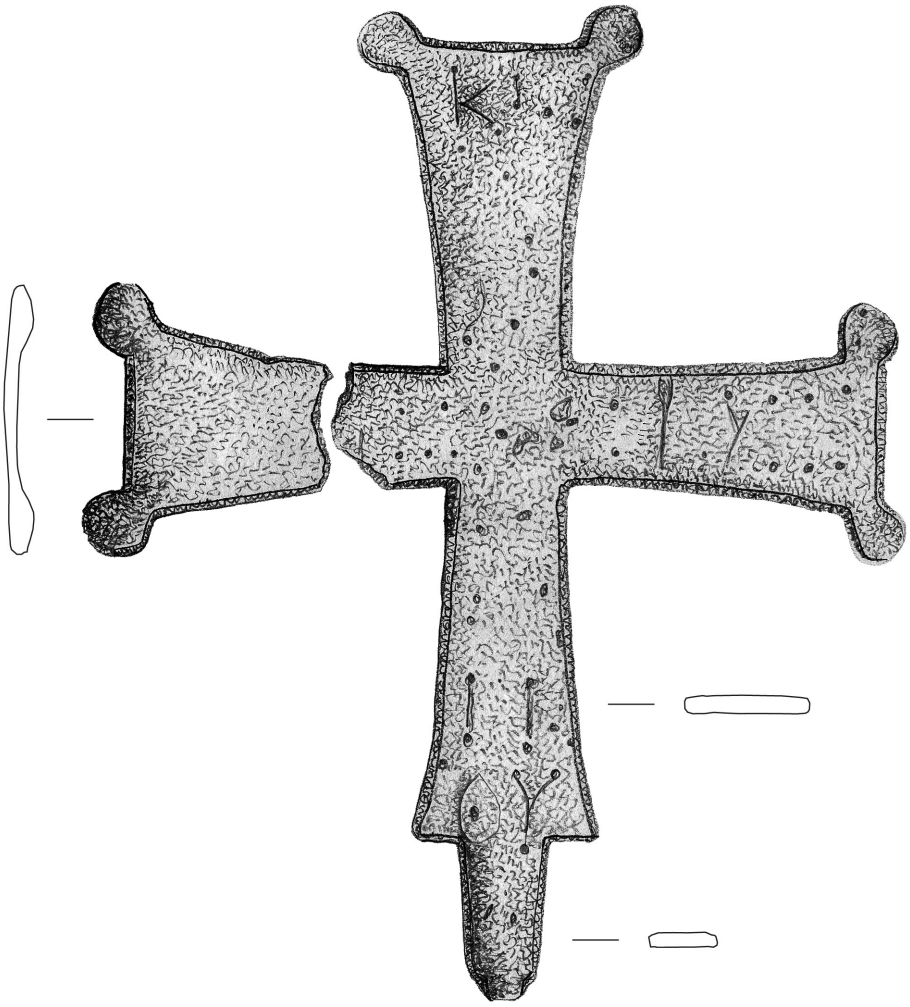
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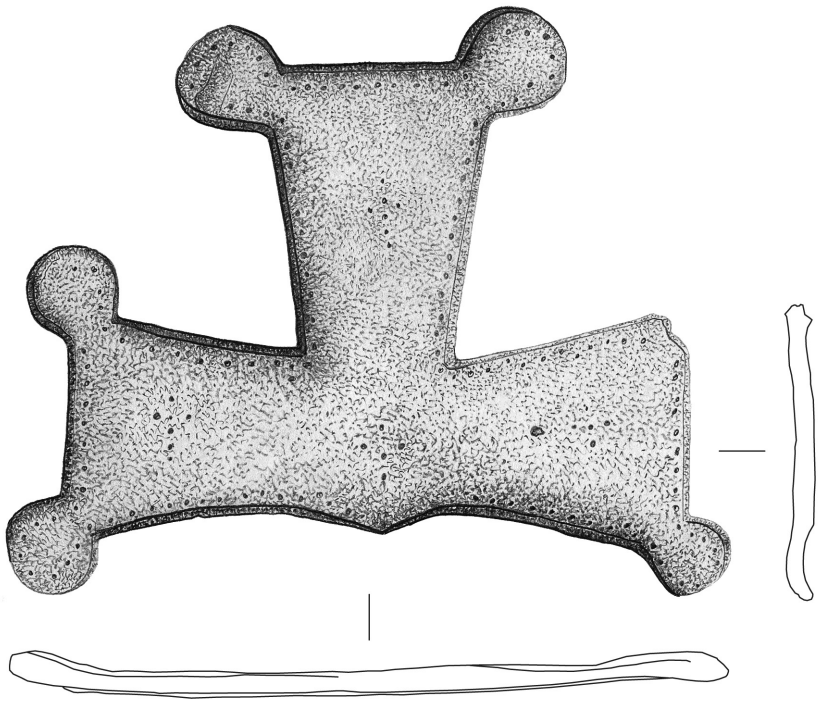
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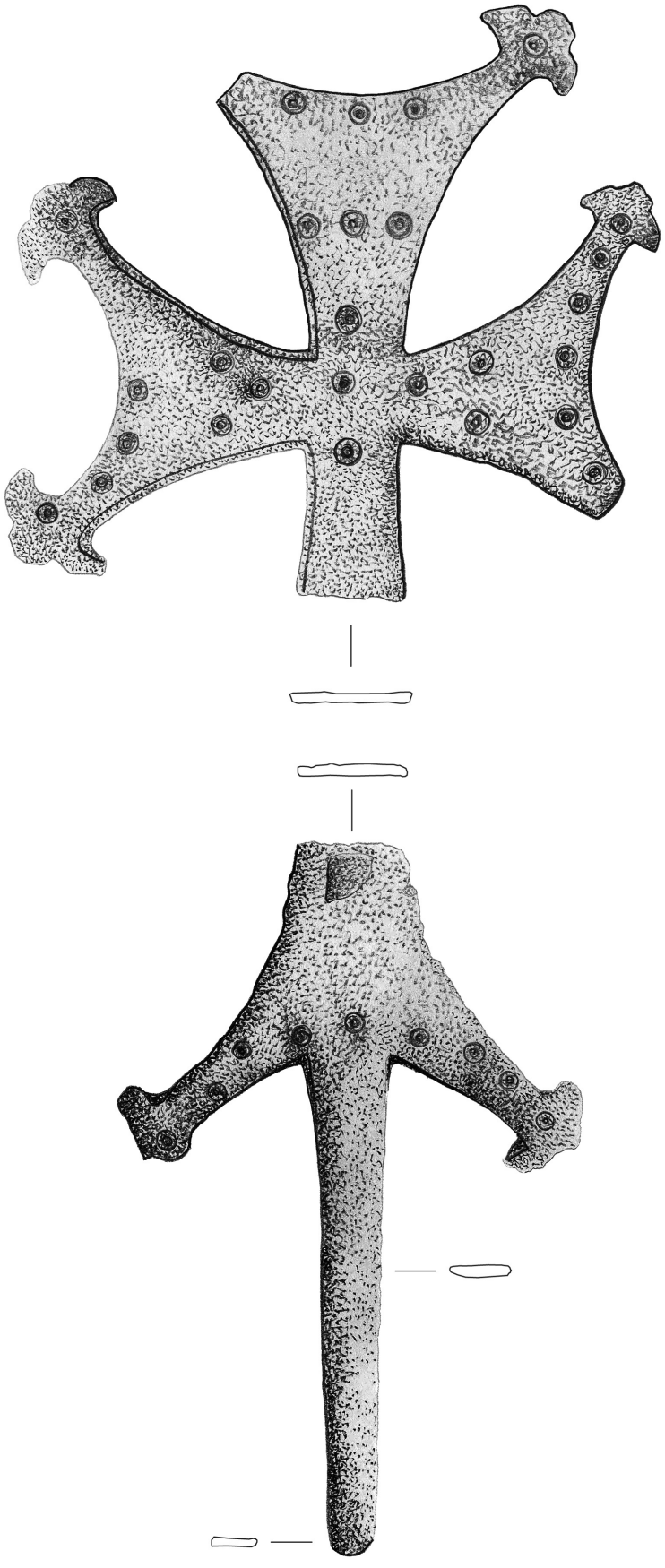
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K 65



K 66

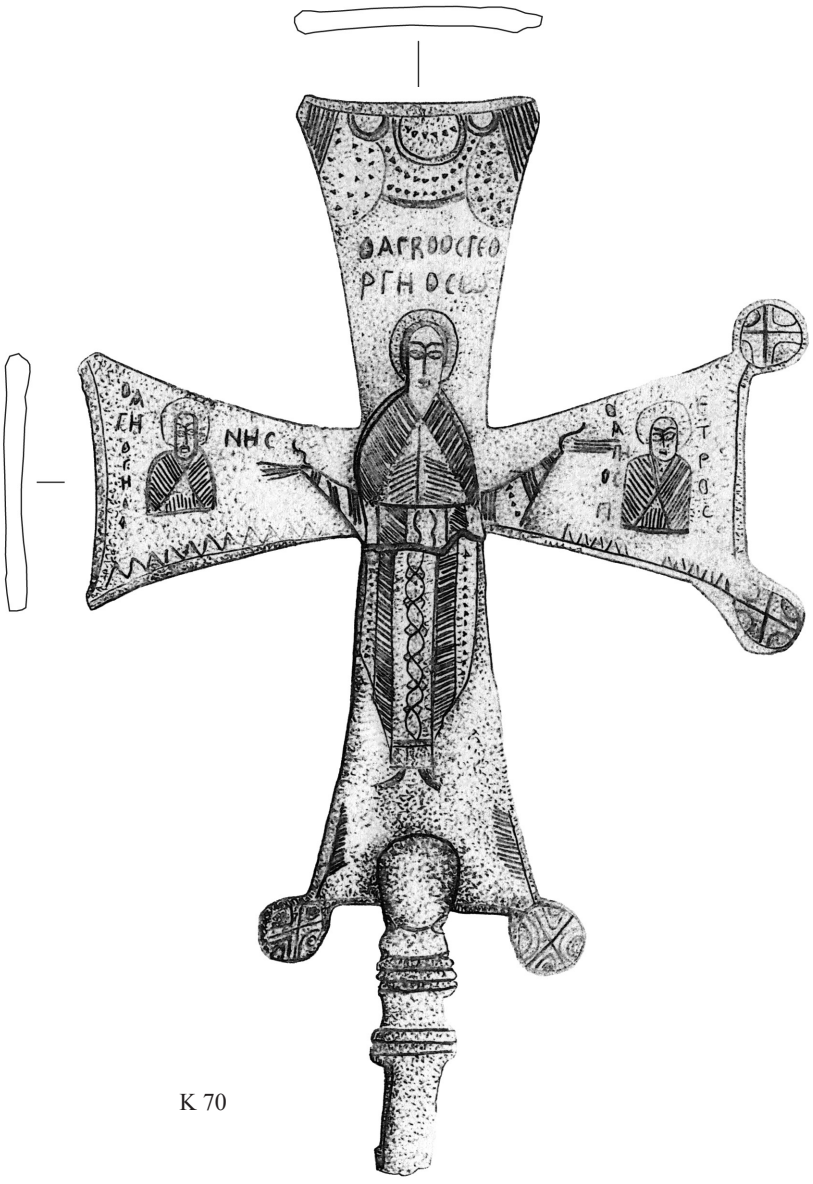


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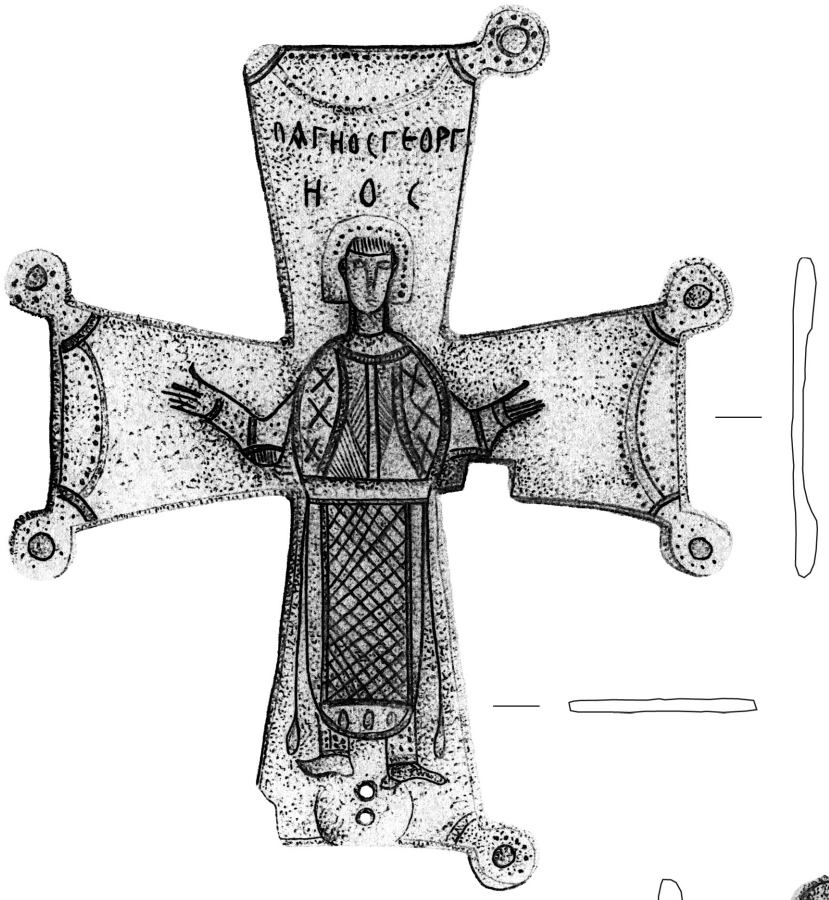
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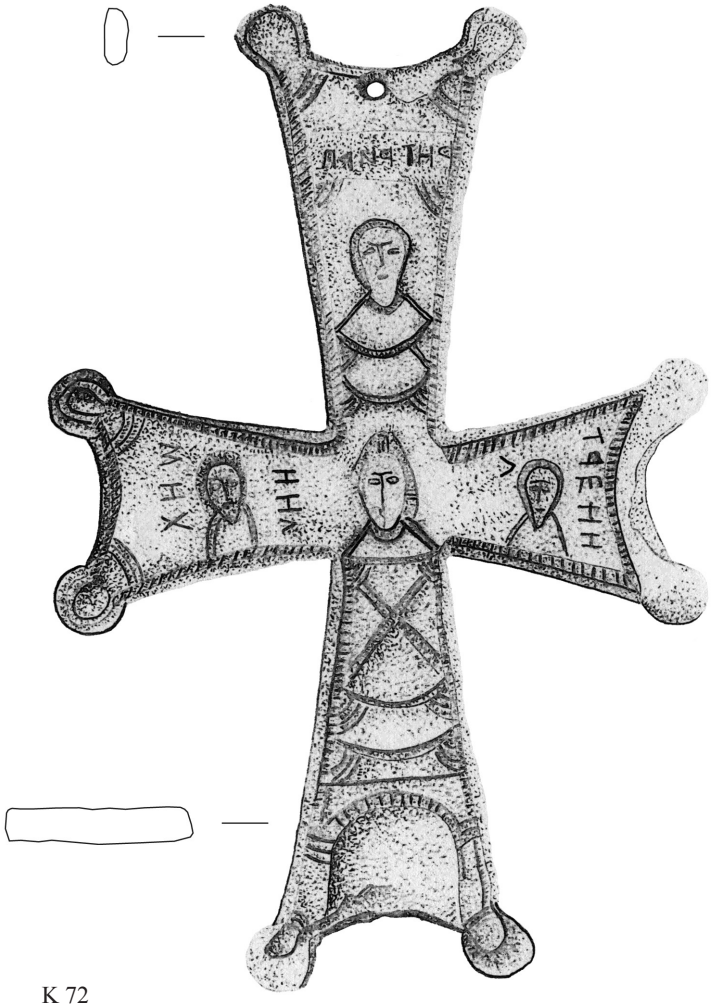
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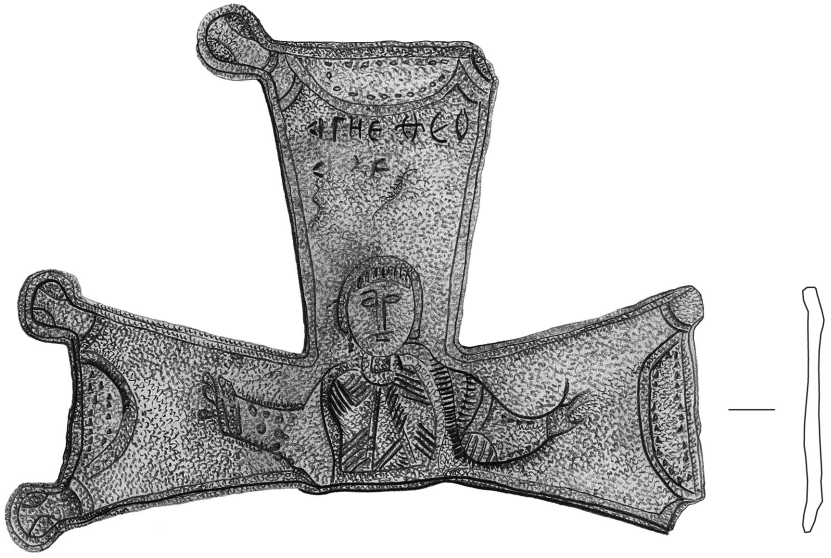
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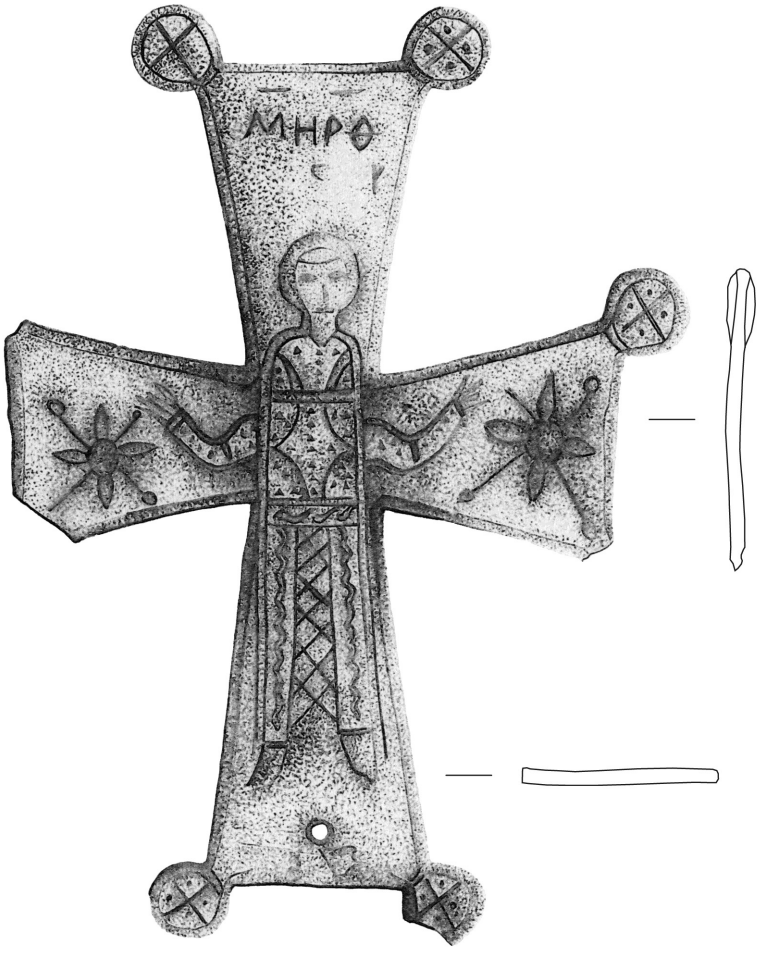
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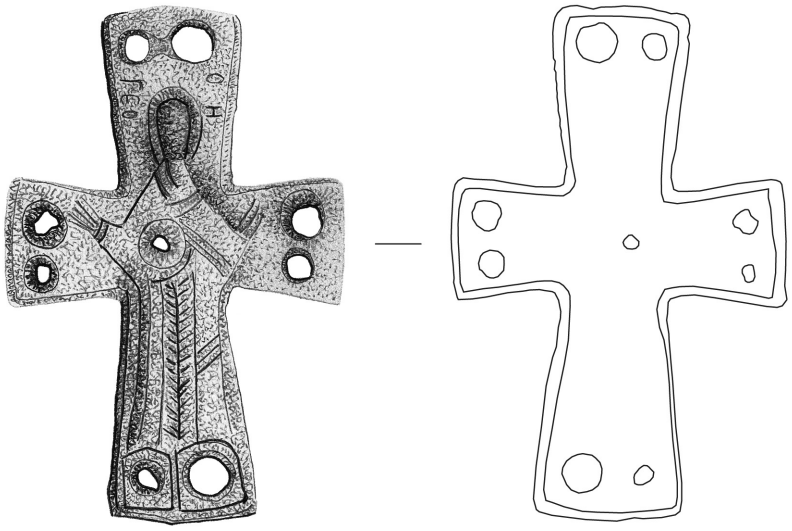
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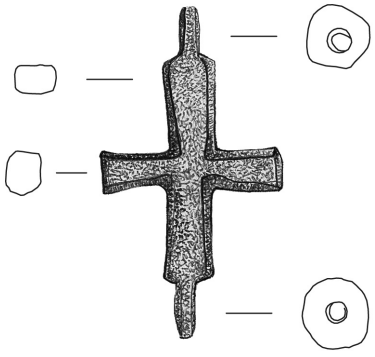
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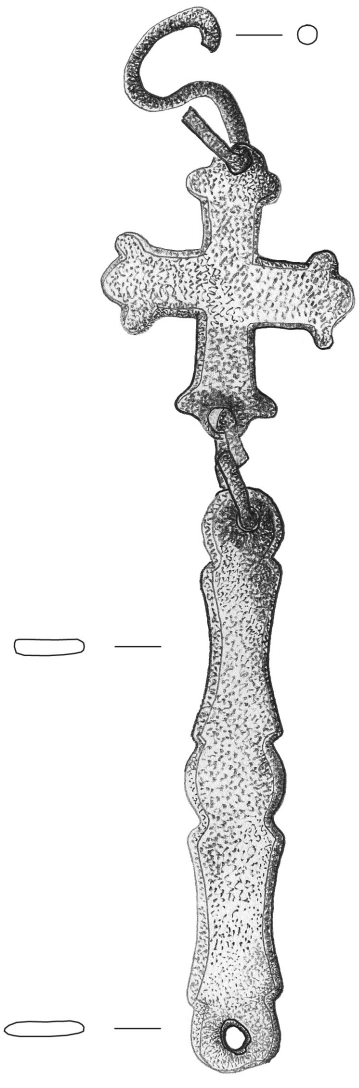
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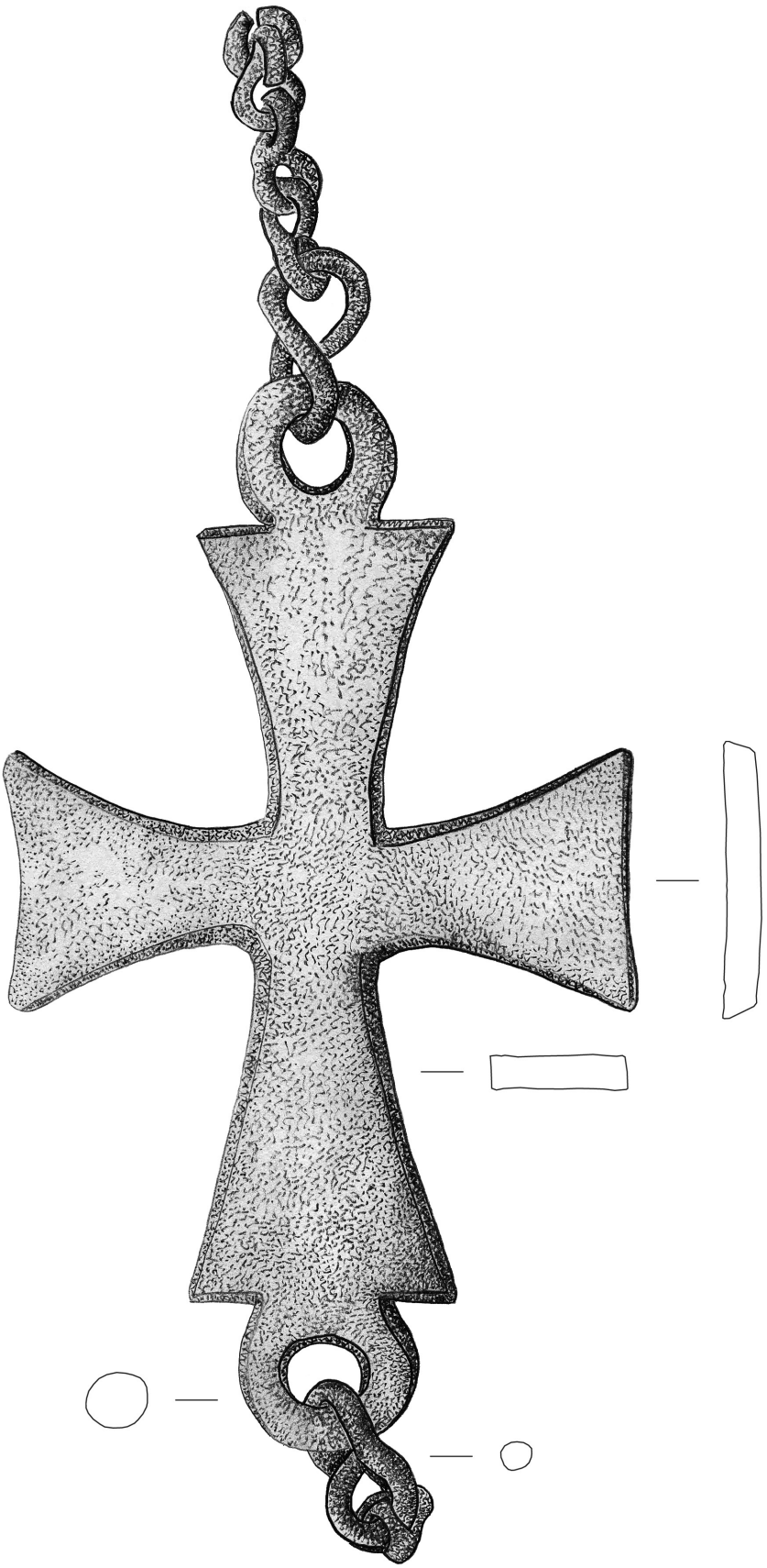
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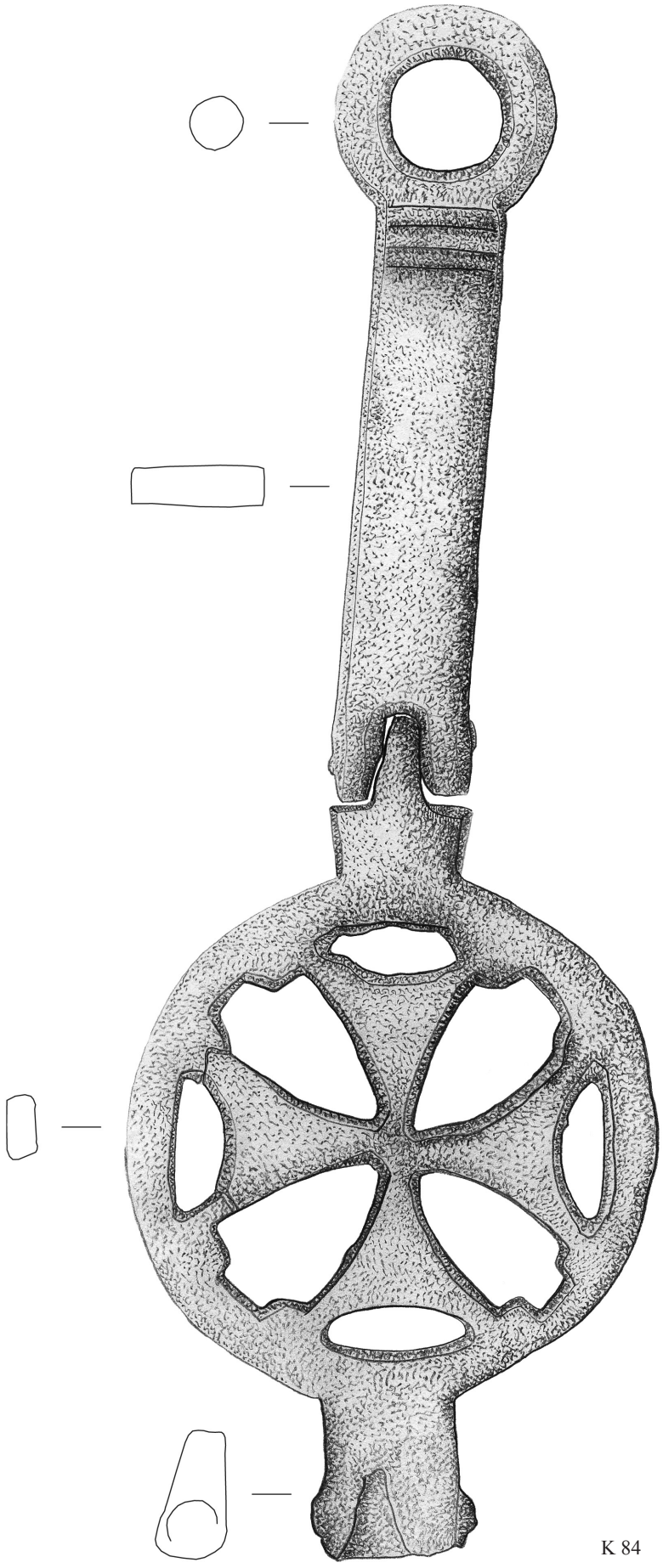
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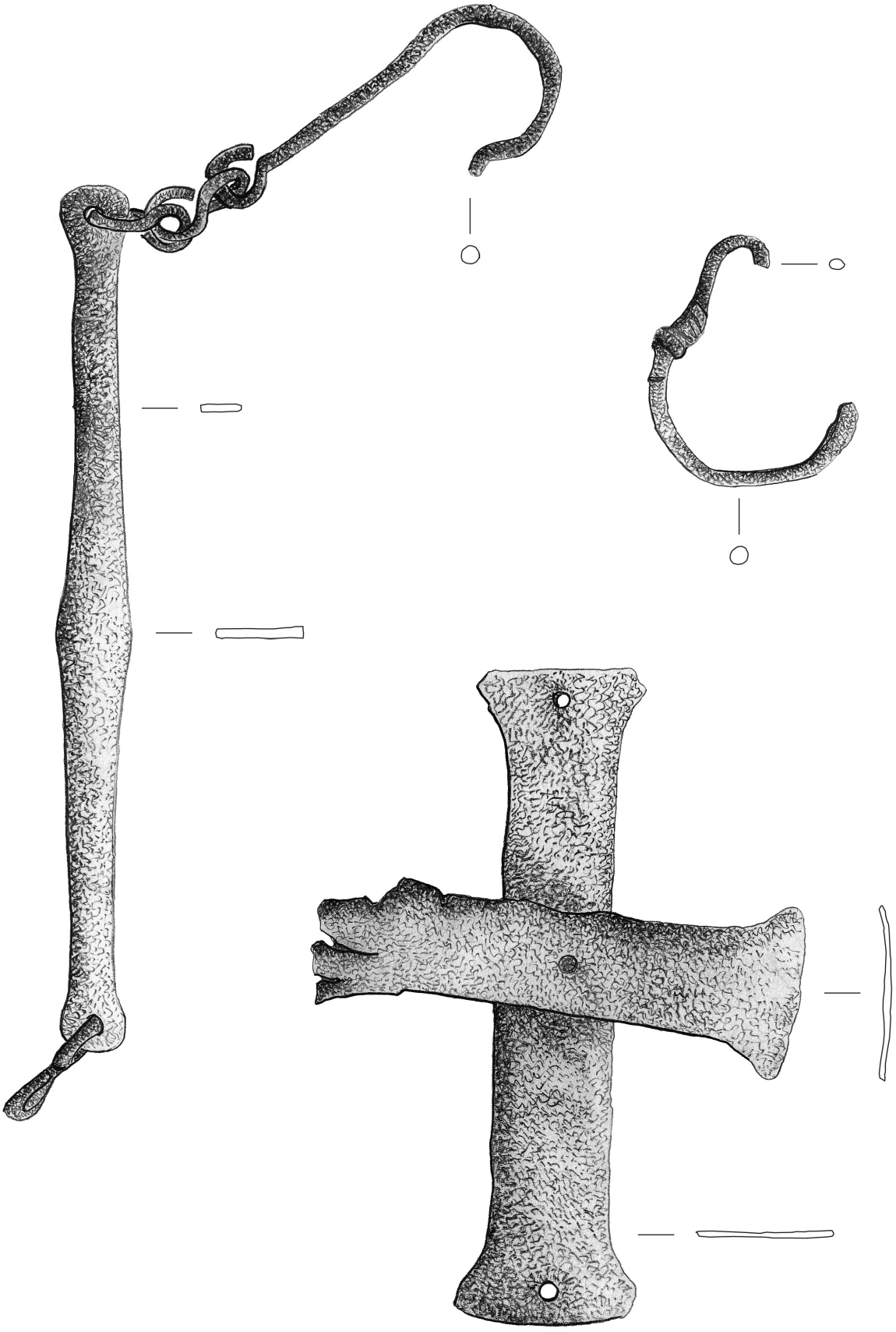
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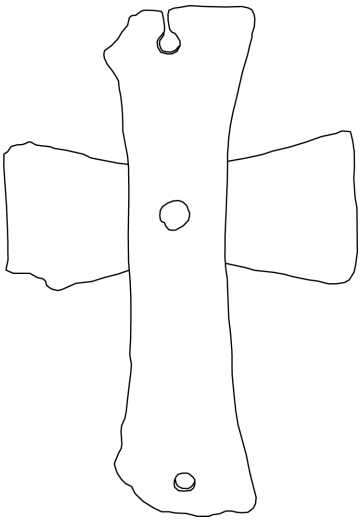
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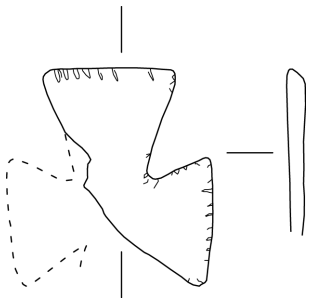
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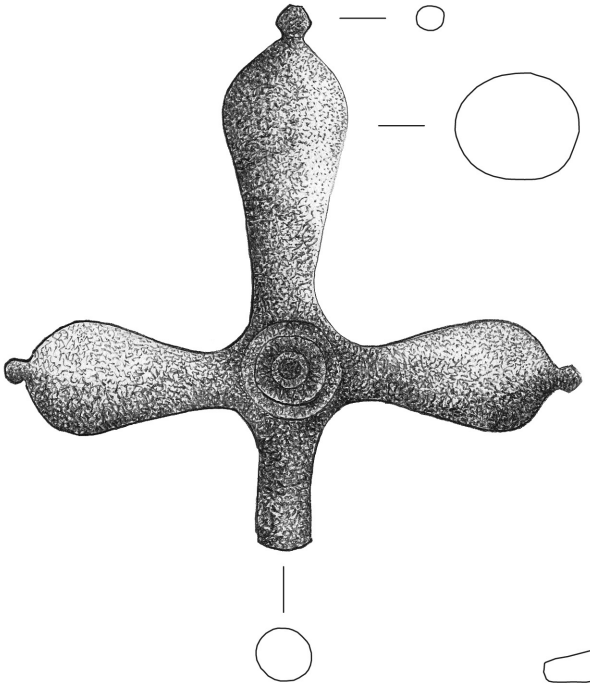
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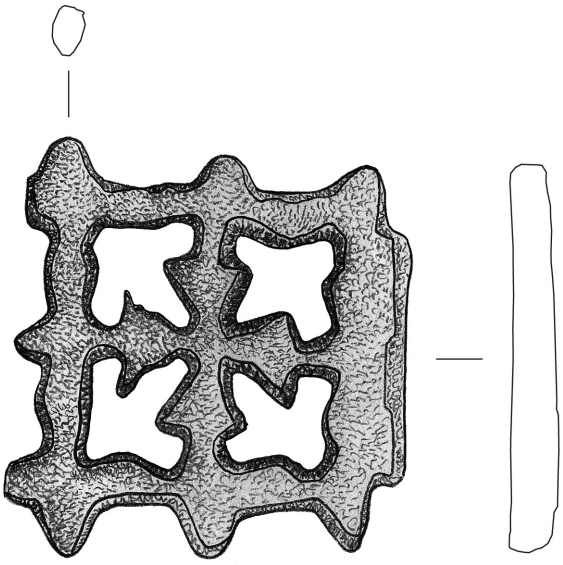
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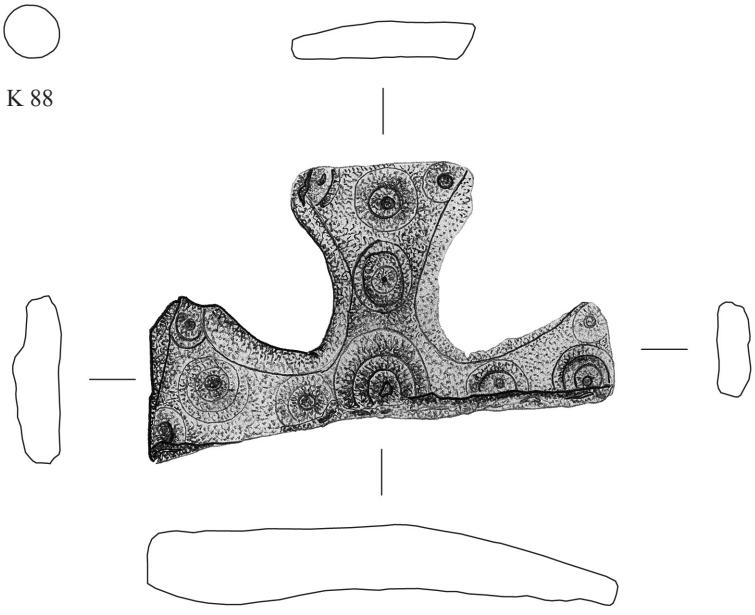
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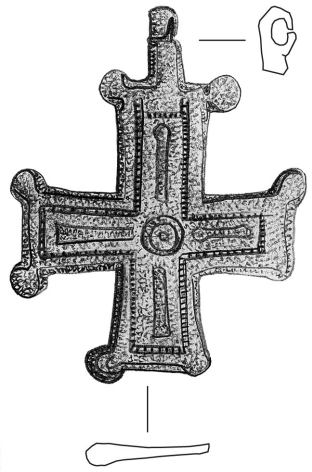
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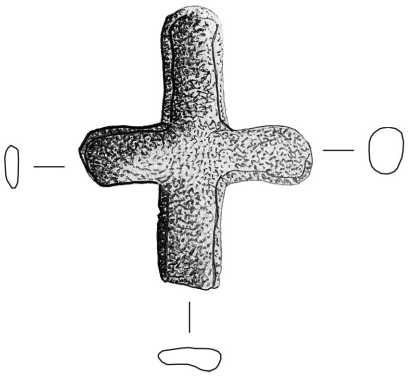
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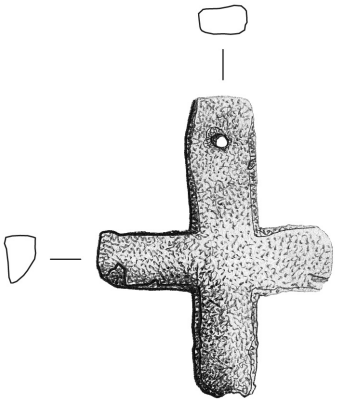
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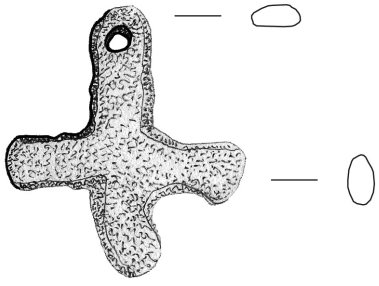
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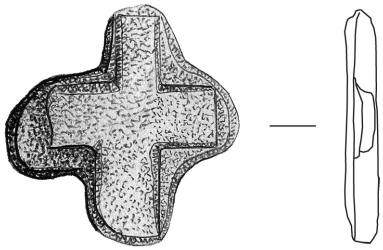
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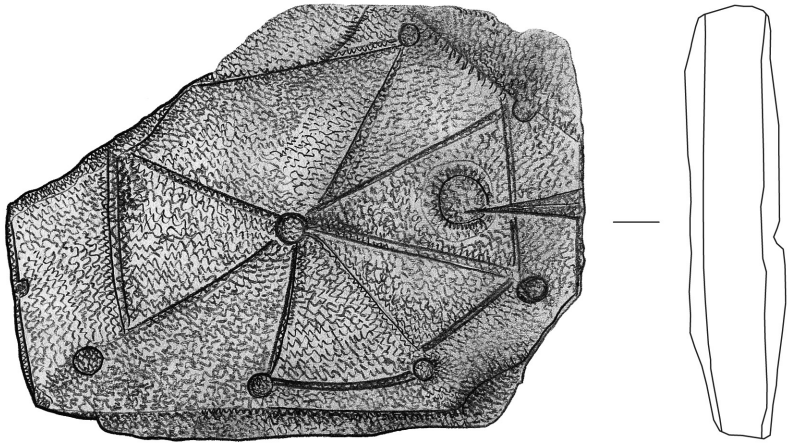
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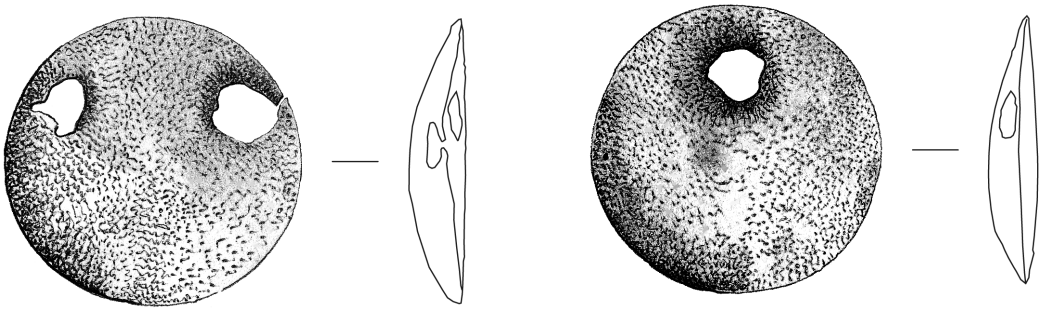
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K 95



K 96

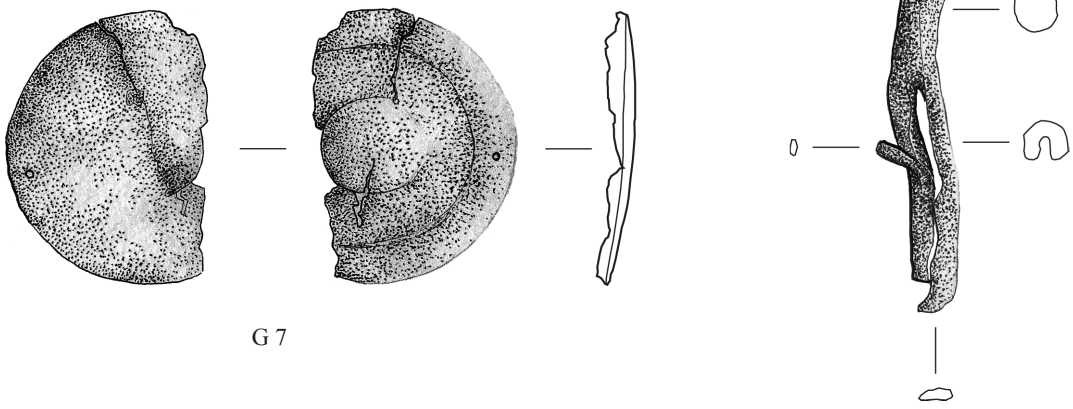


G 4



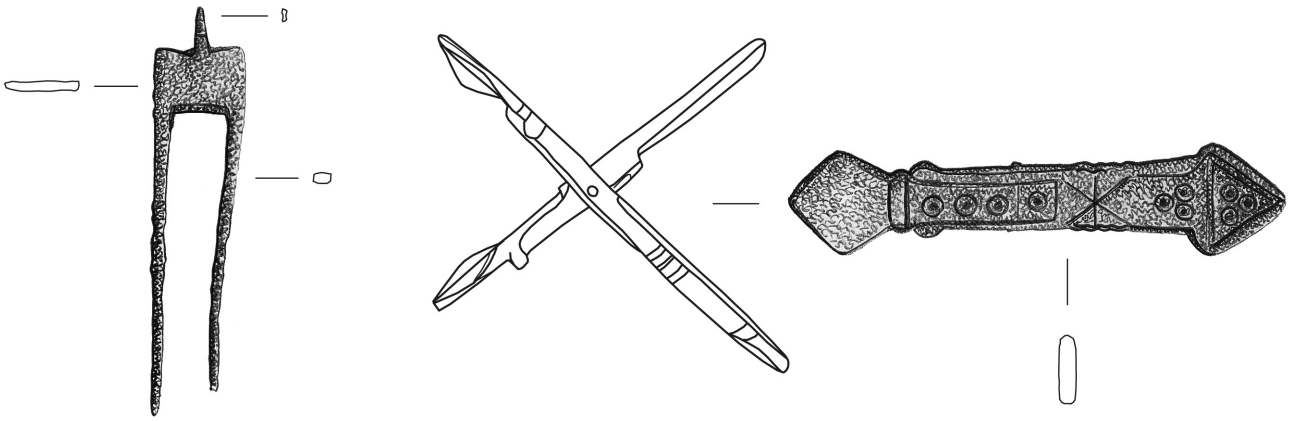
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G 6



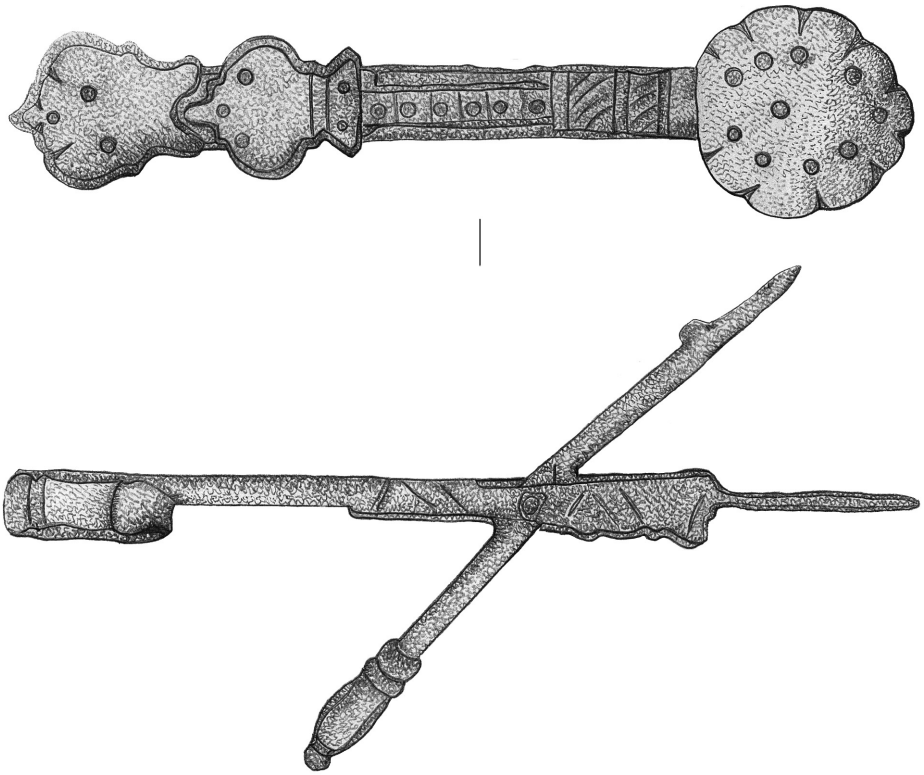
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G 8

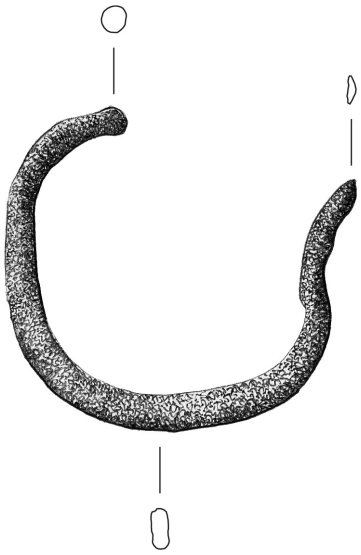


G 9

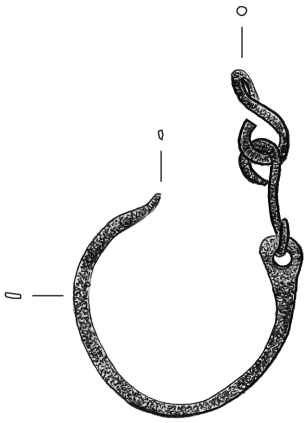
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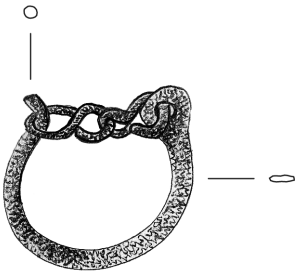
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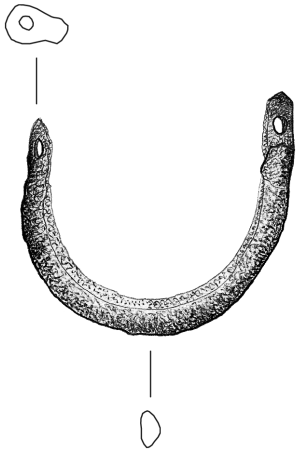
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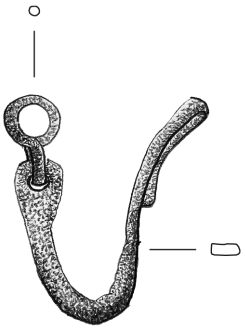
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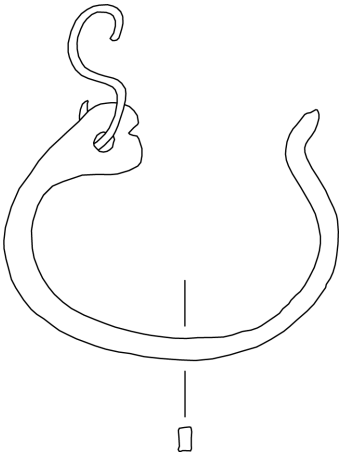
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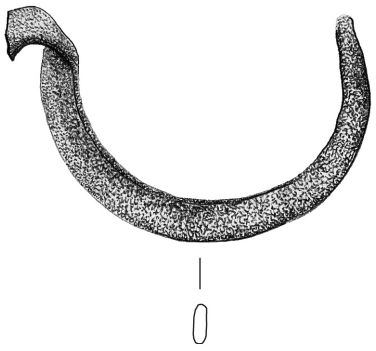
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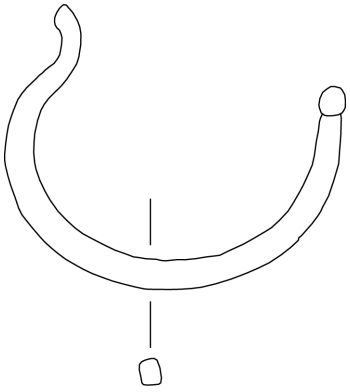
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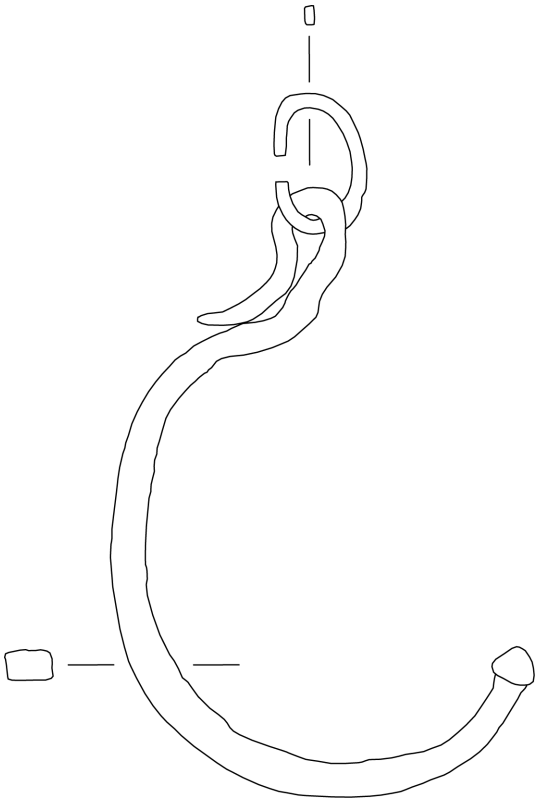
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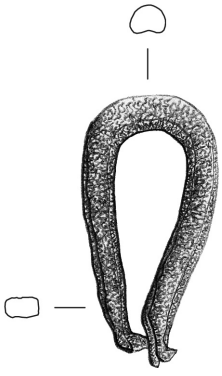
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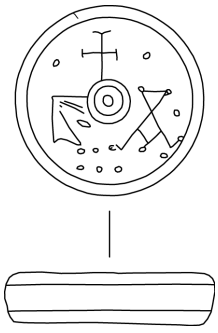
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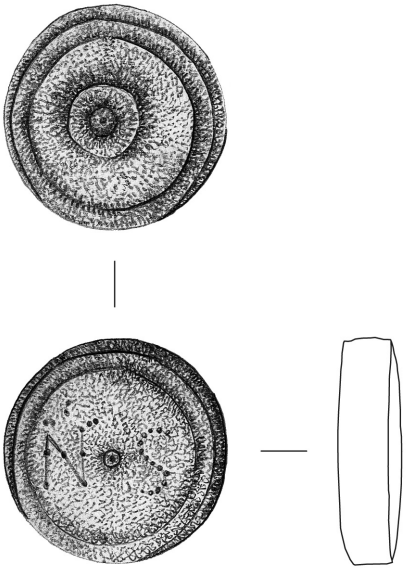
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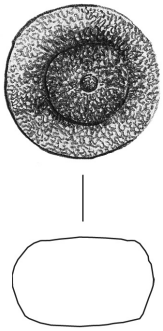
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G 29

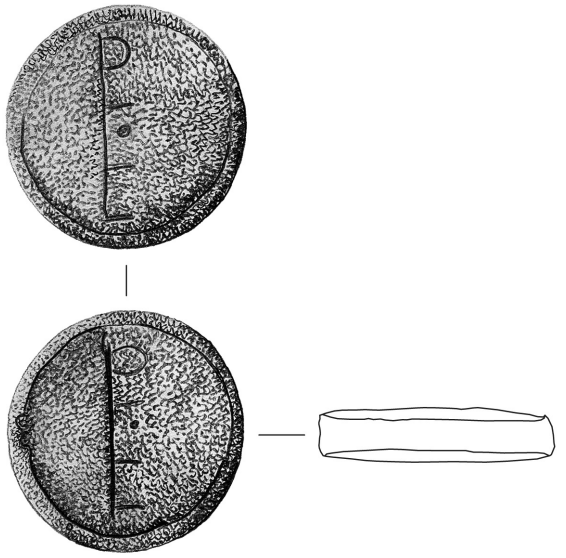


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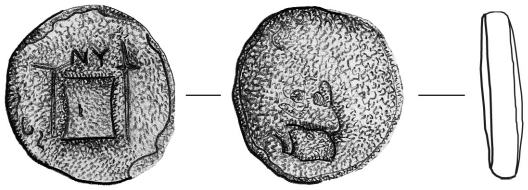


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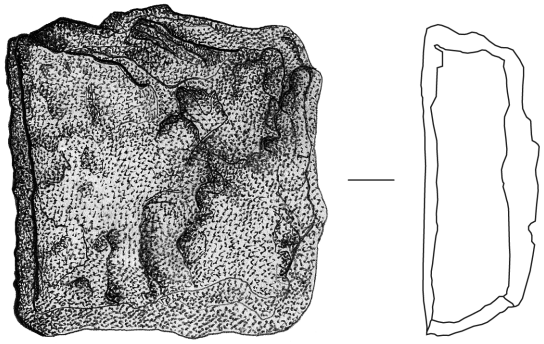
TAFEL 58



G 38



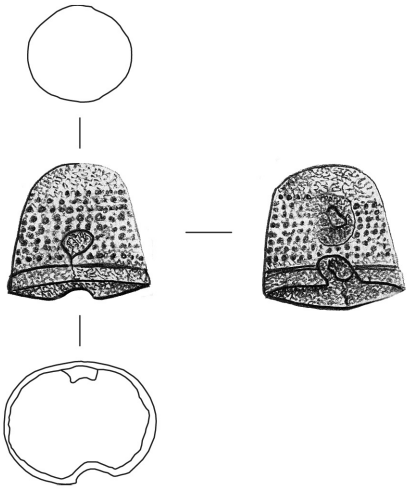
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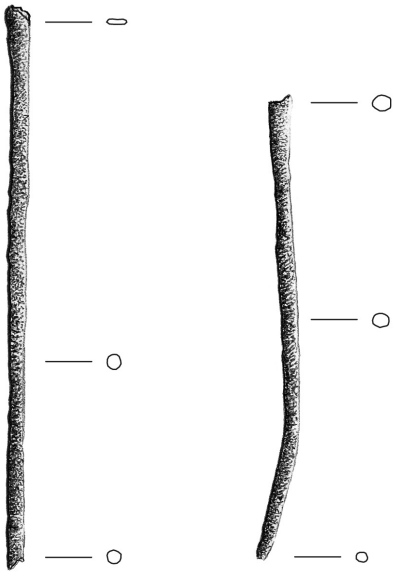
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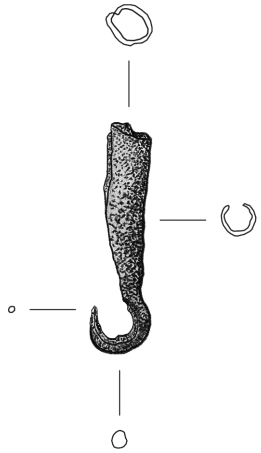
G 44 G 45



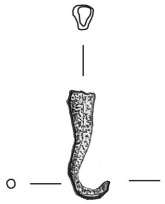
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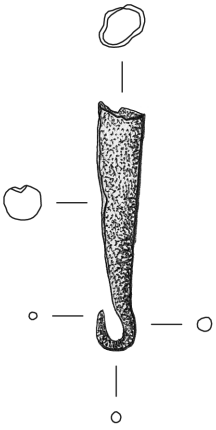
G 49 G 50



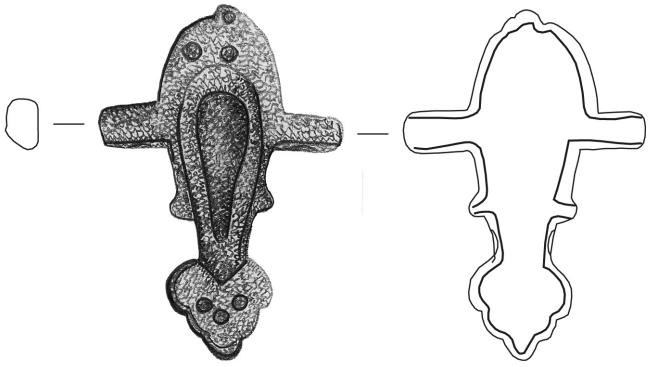
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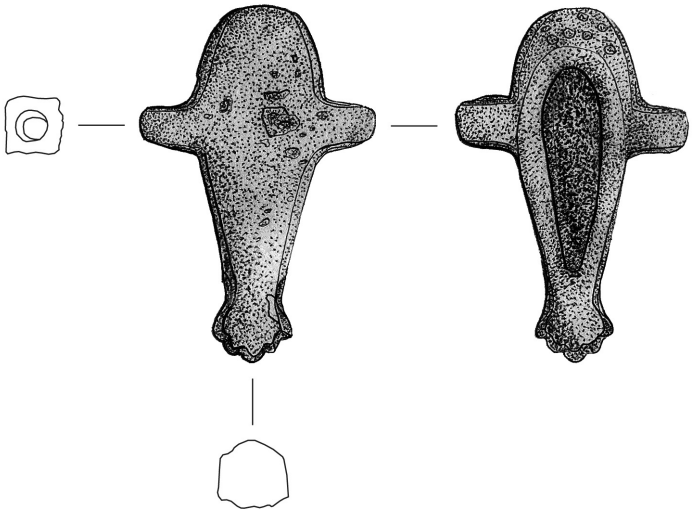
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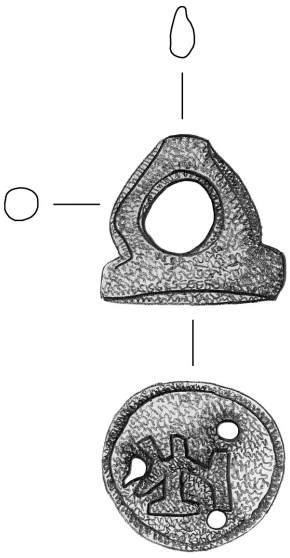
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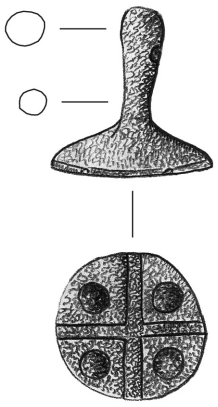
G 53*



G 53**

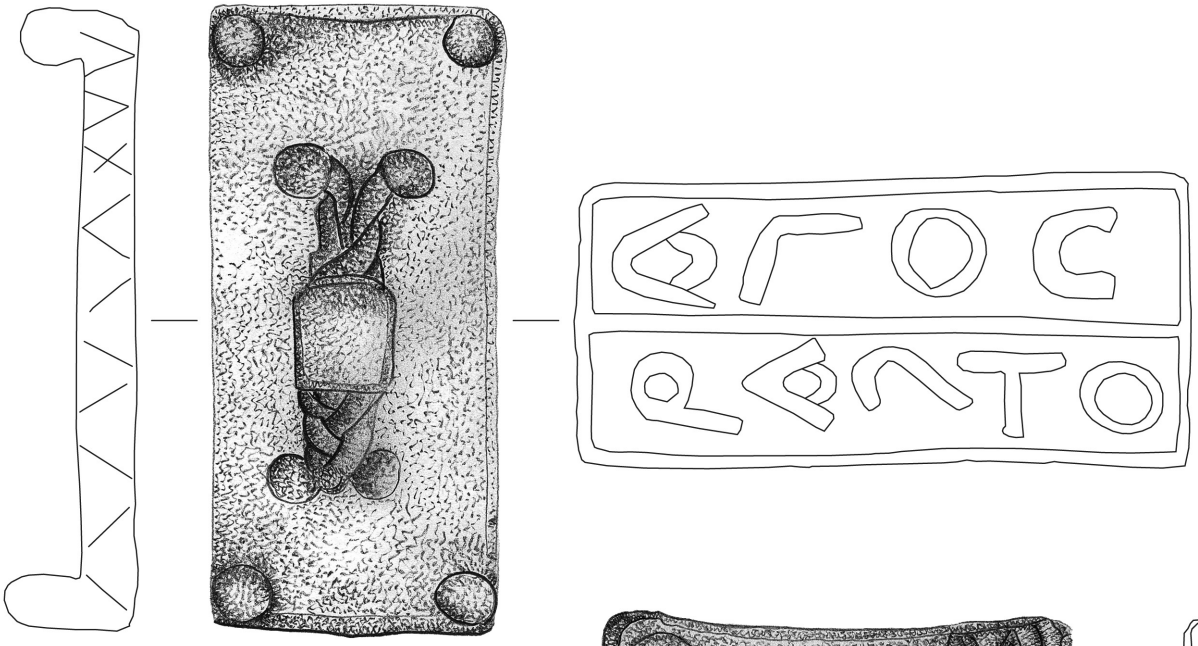


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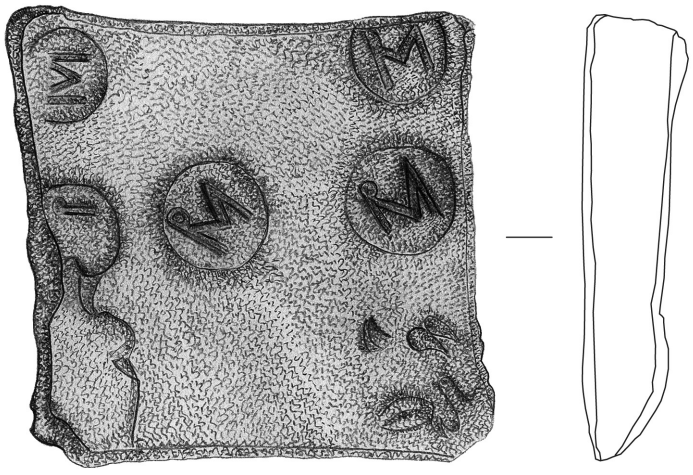


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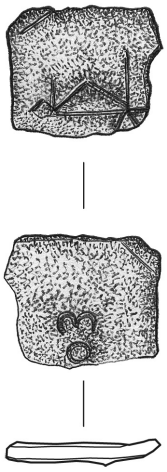
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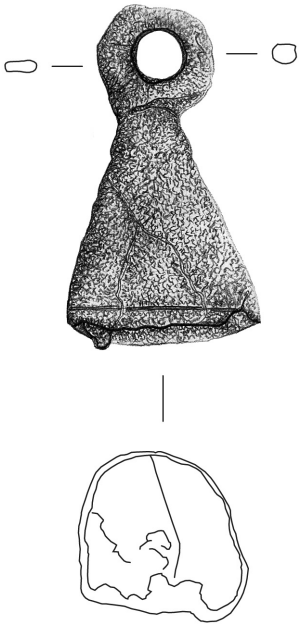
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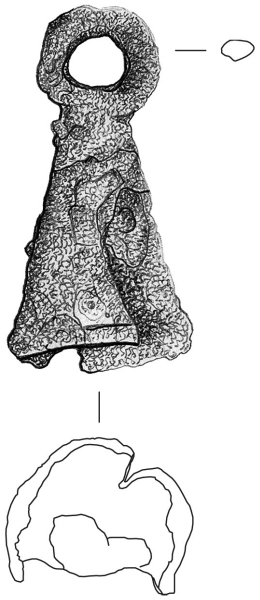
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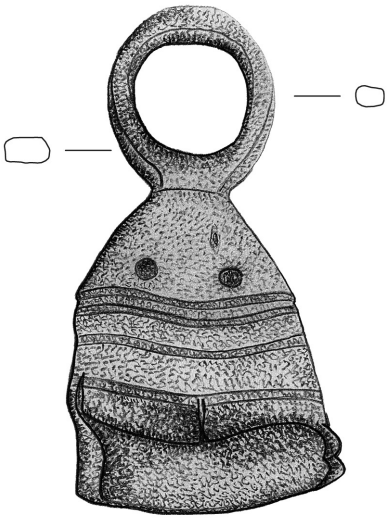
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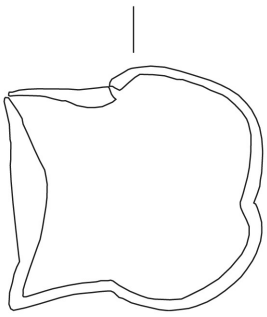


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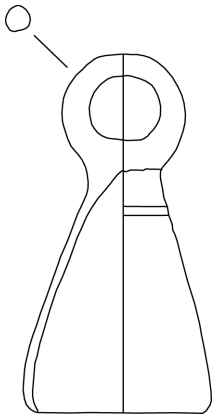


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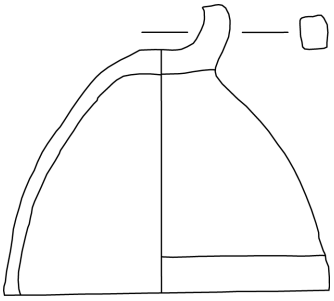




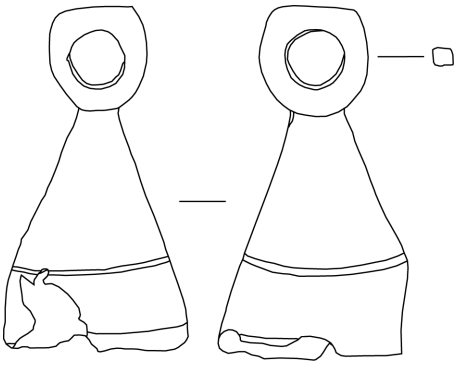
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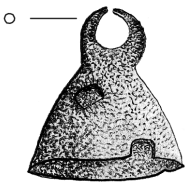
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G 74

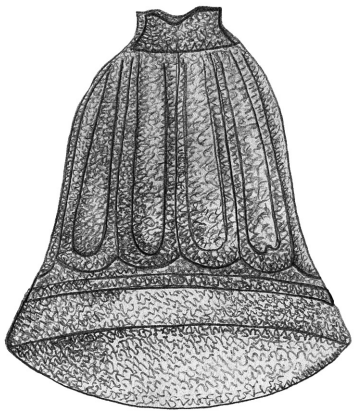


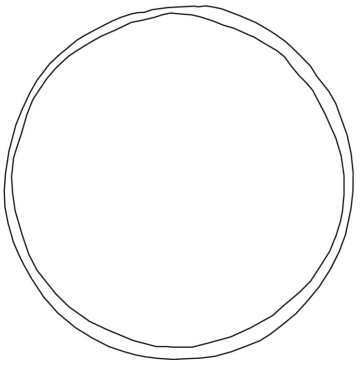
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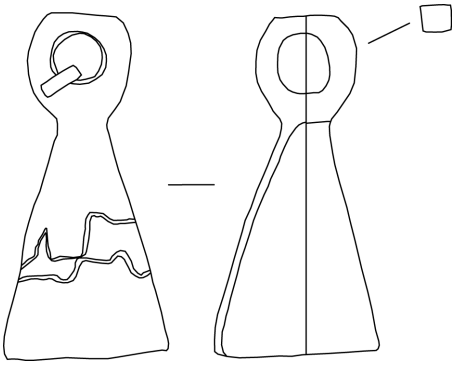


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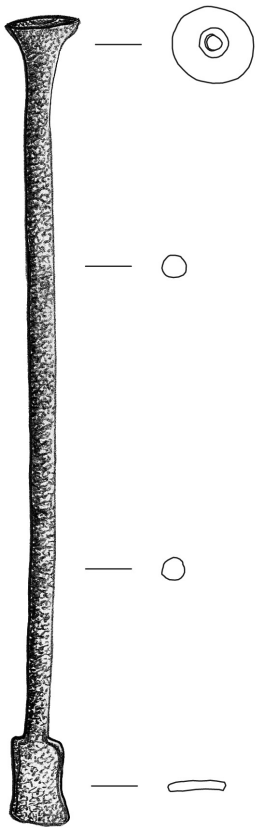


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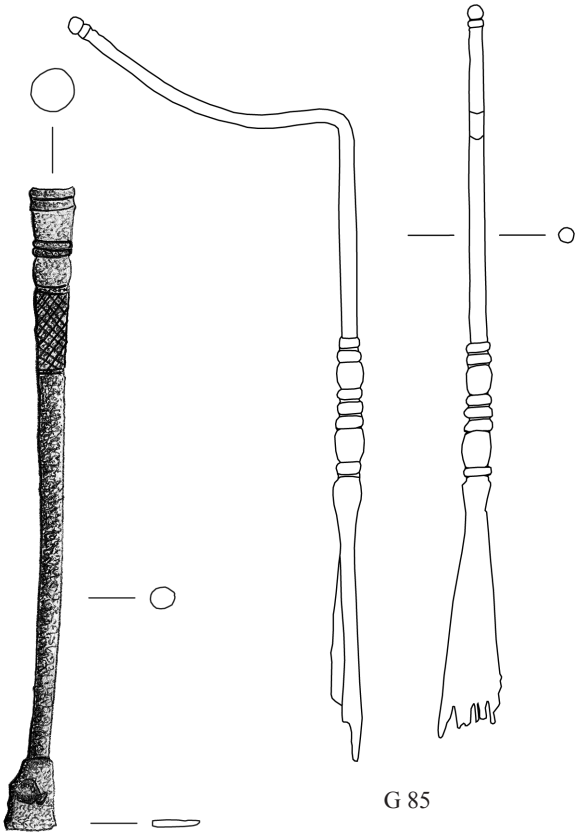


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TAFEL 62

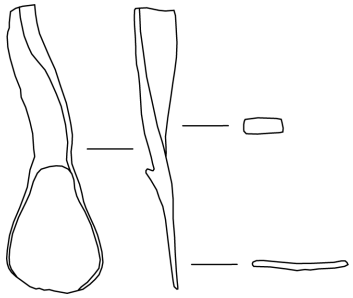


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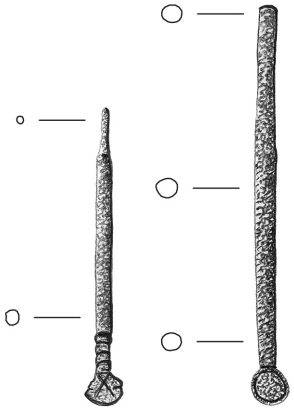


G 83

G 85

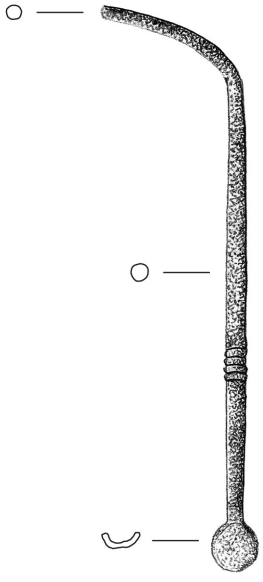


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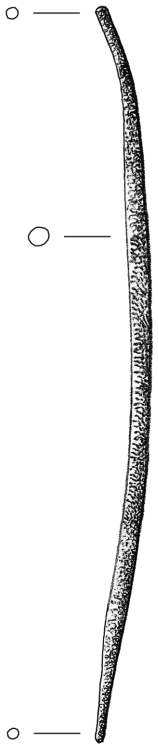


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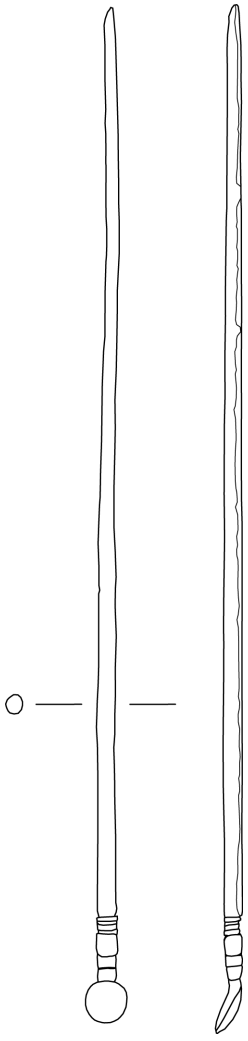
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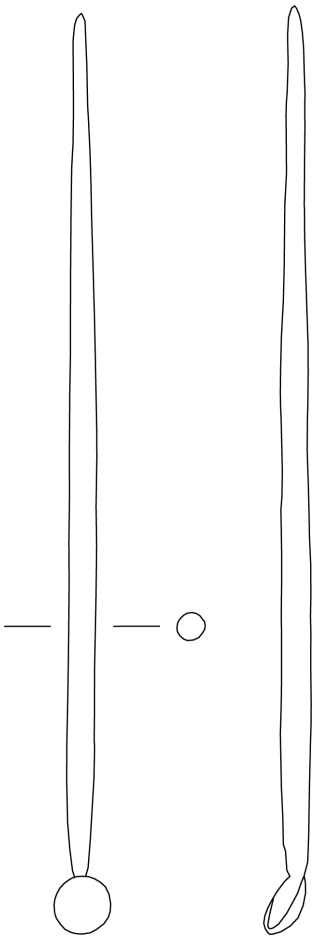
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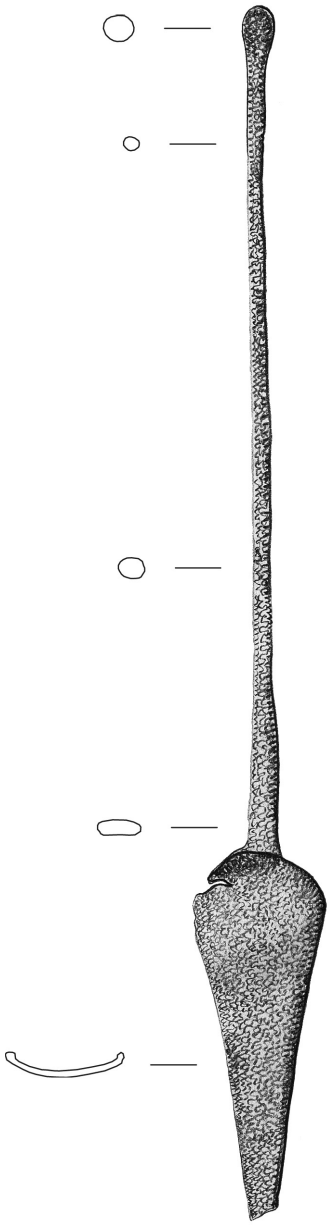
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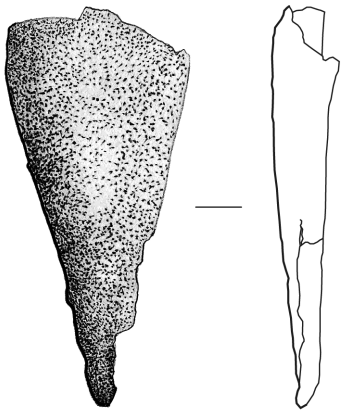
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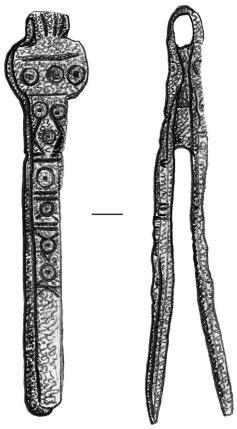
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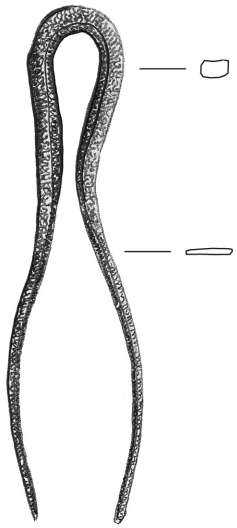
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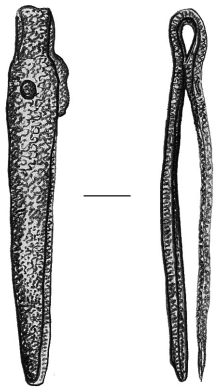
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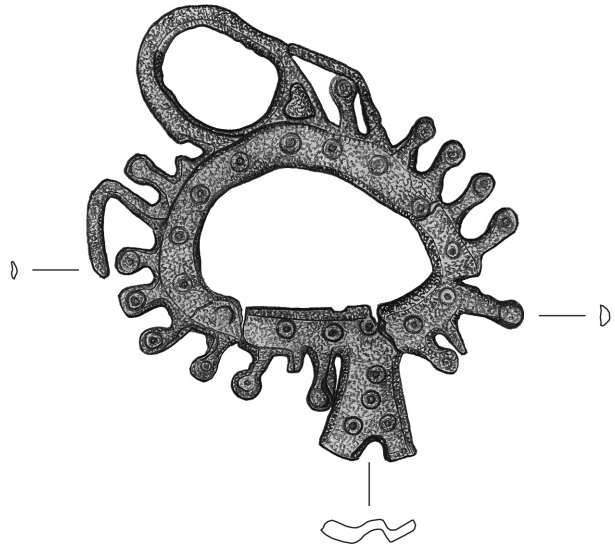
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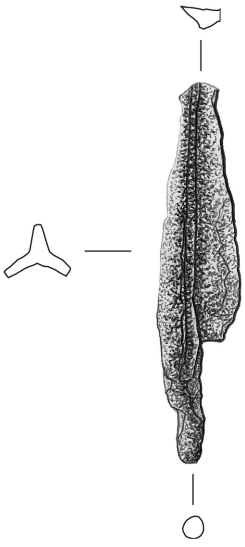
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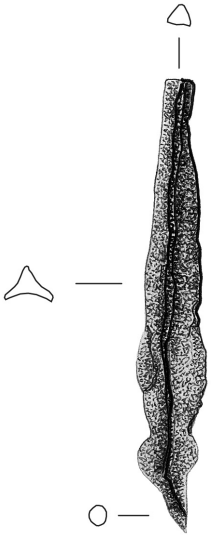
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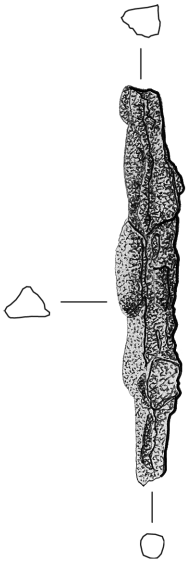
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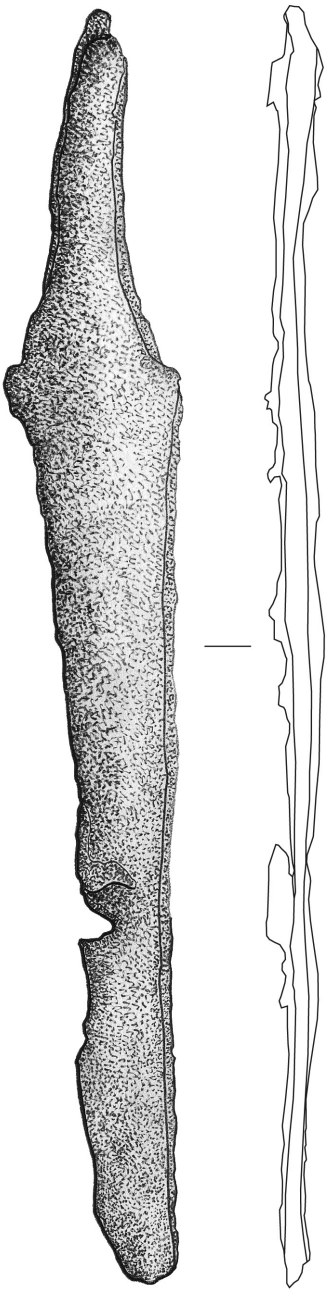
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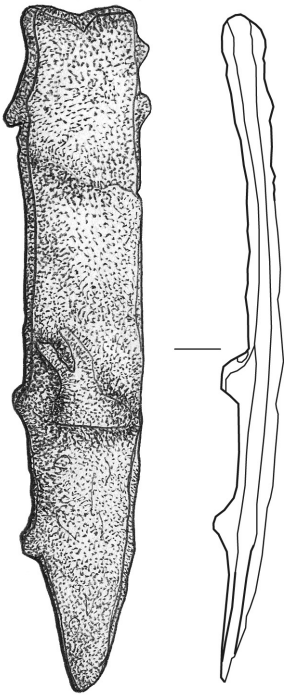
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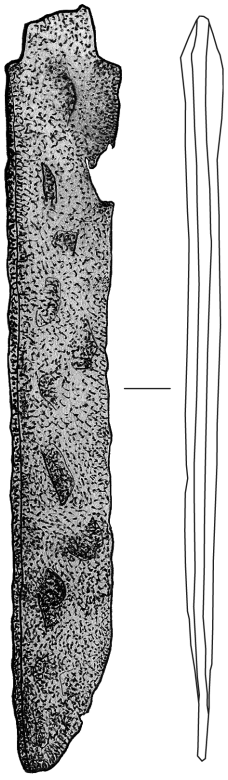
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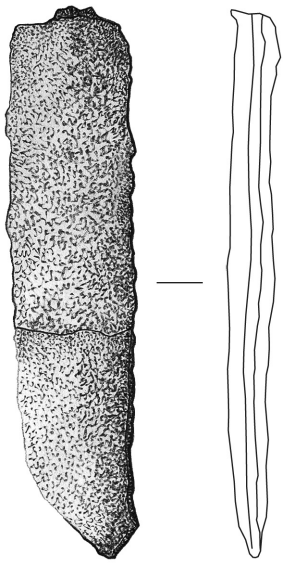
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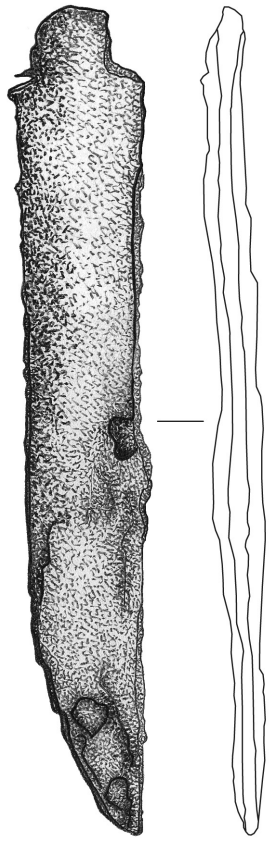
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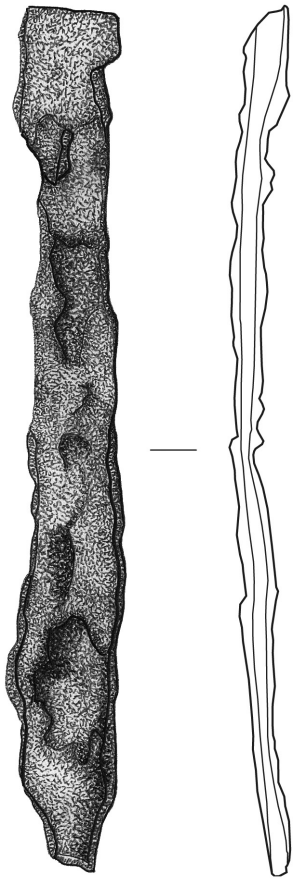
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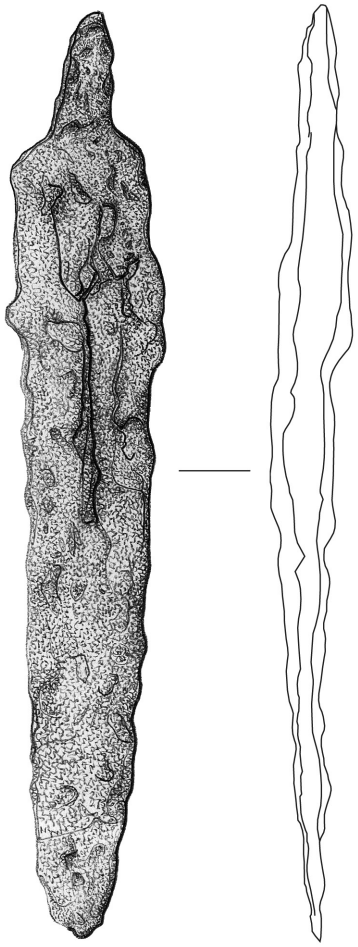
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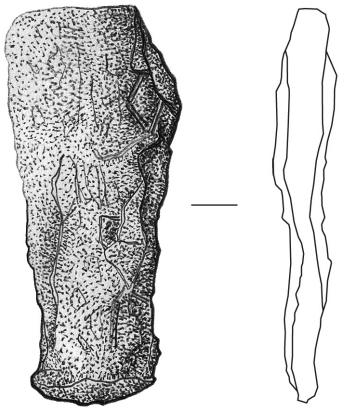
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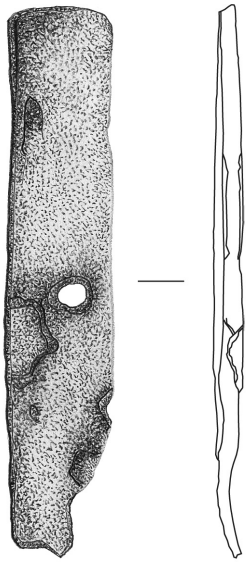
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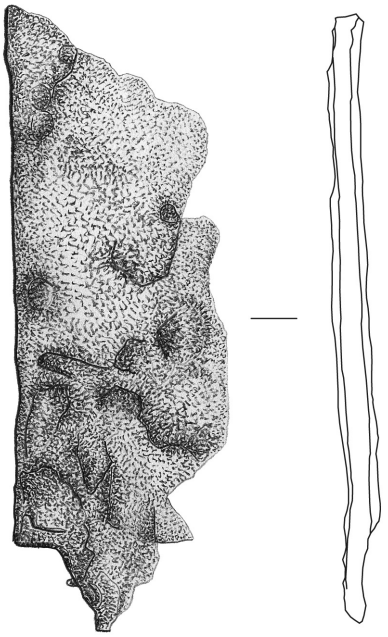
G 115



G 114



G 117

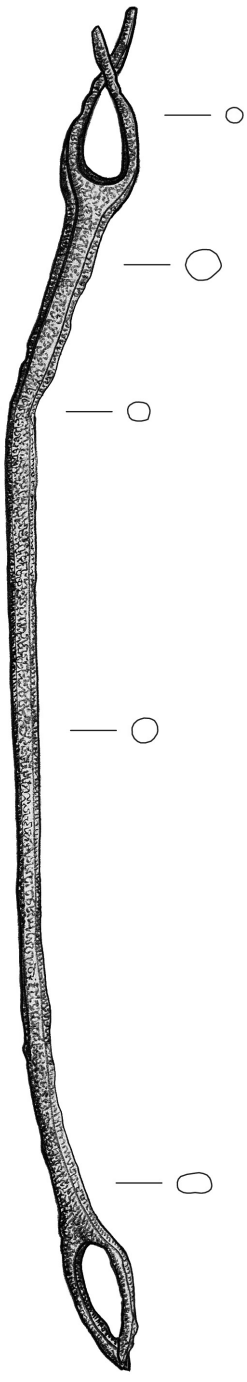


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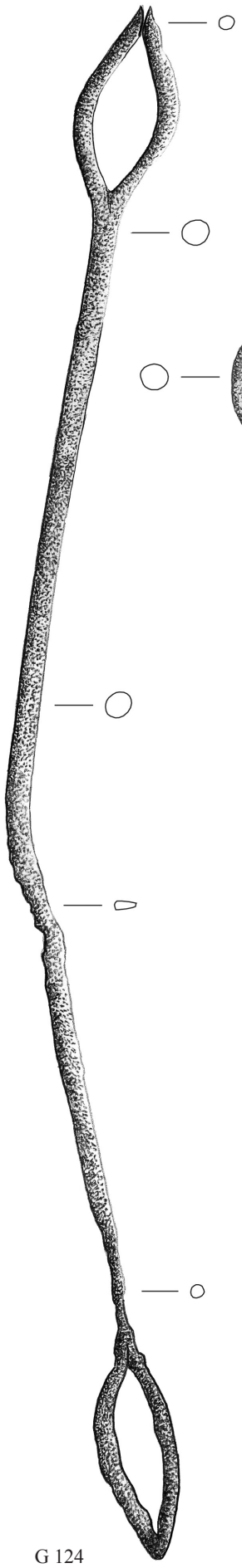
TAFEL 66



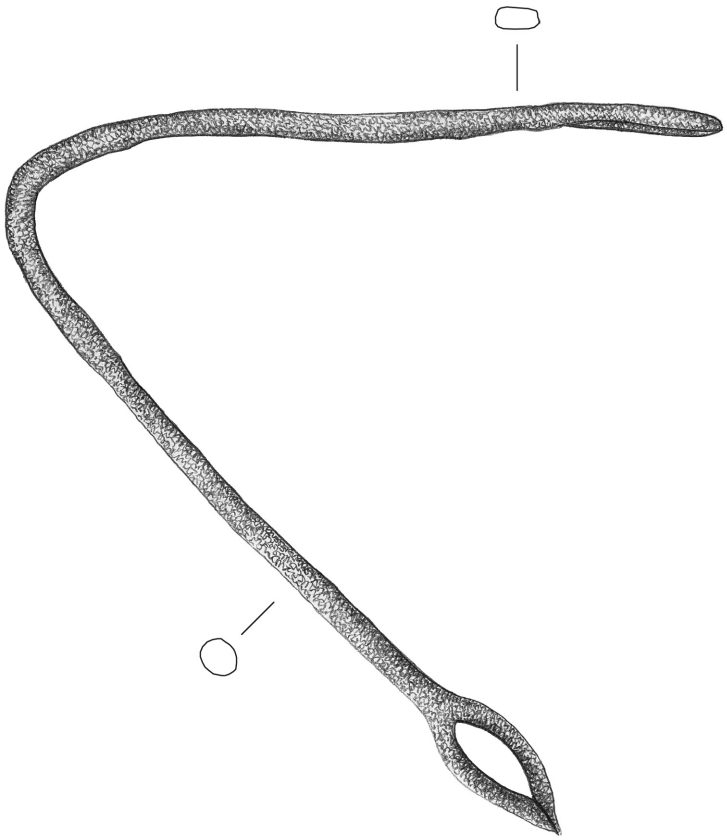
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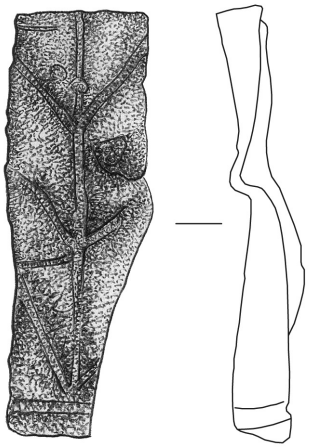
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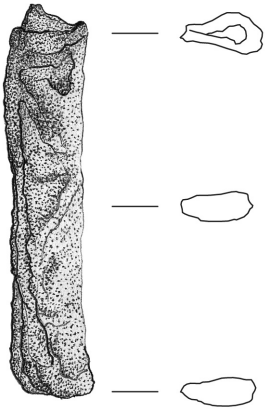
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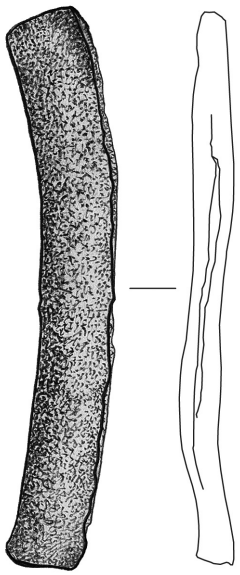
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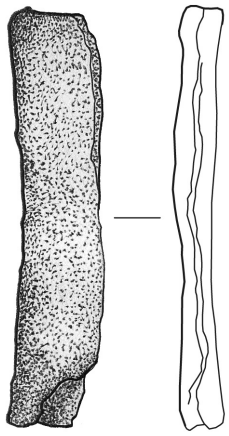
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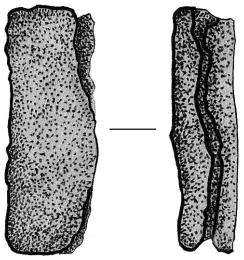
G 126



G 127



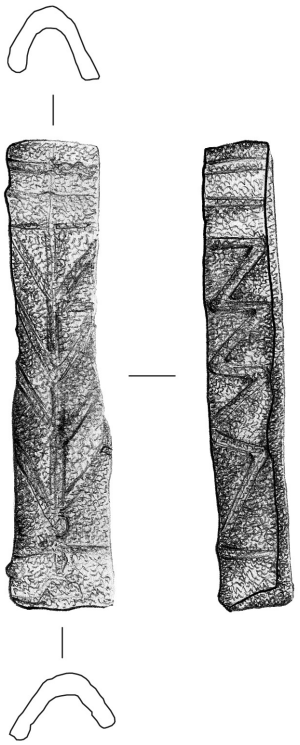
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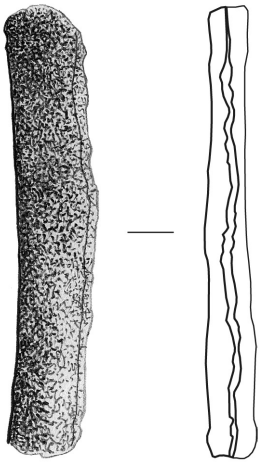
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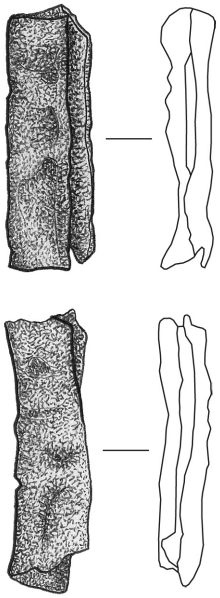
G 130



G 131



G 132

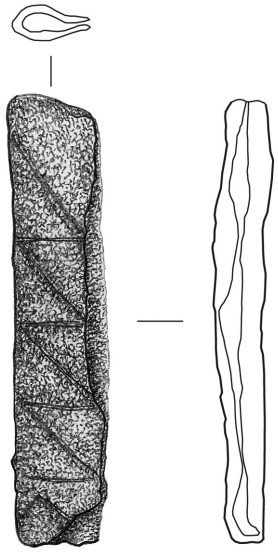


G 133

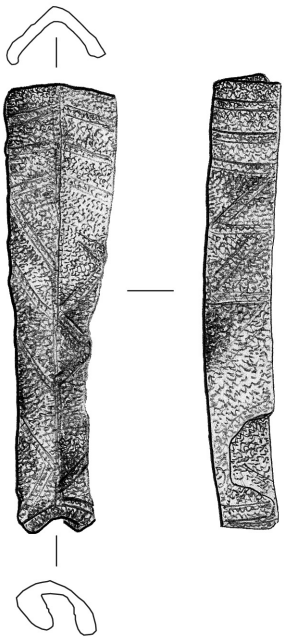


G 134

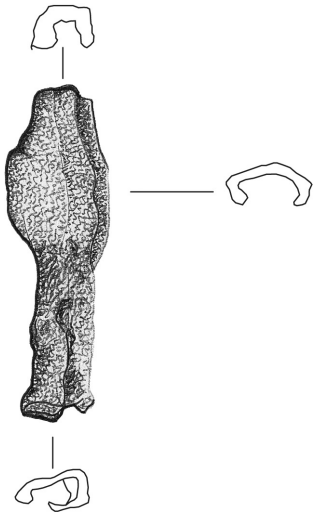
TAFEL 68



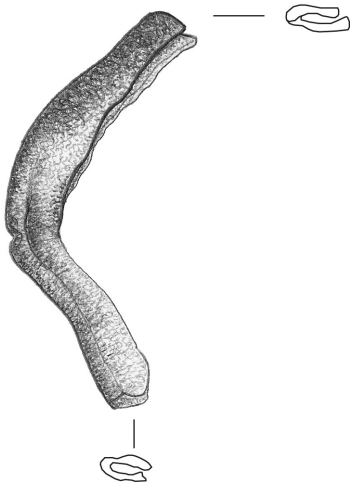
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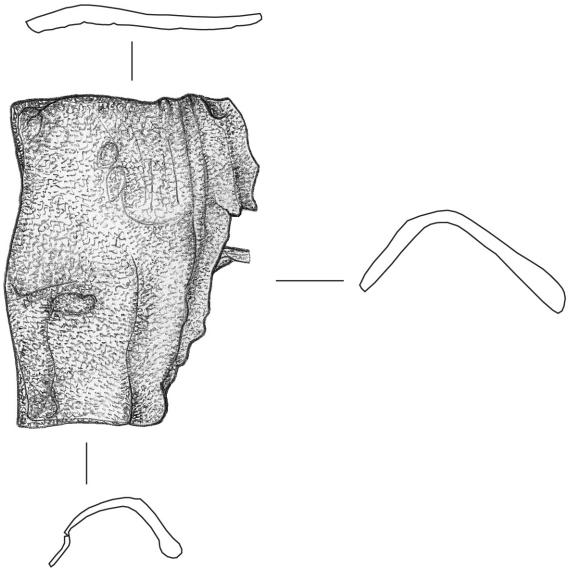
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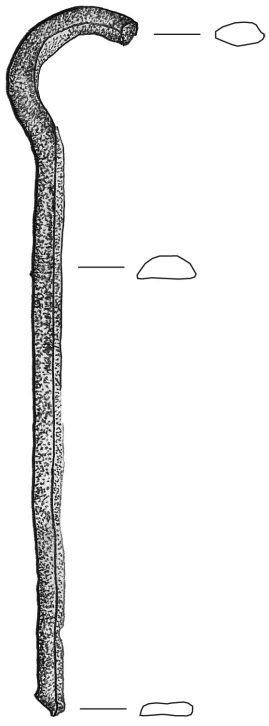
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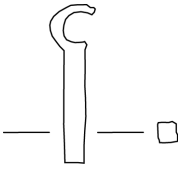
G 138



G 139



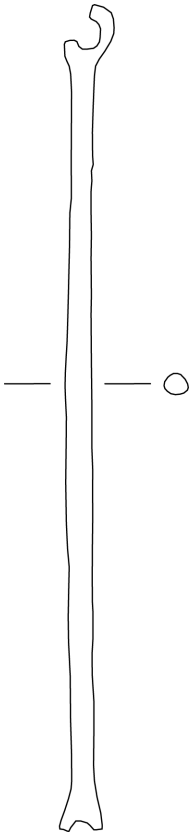
G 140



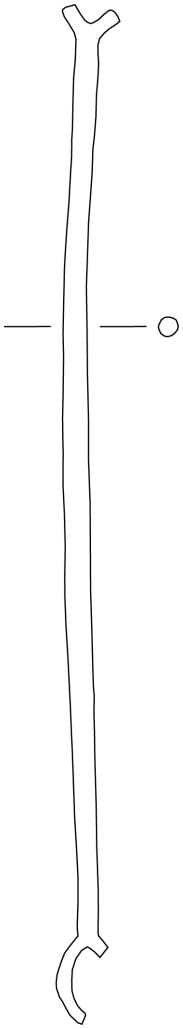
G 141



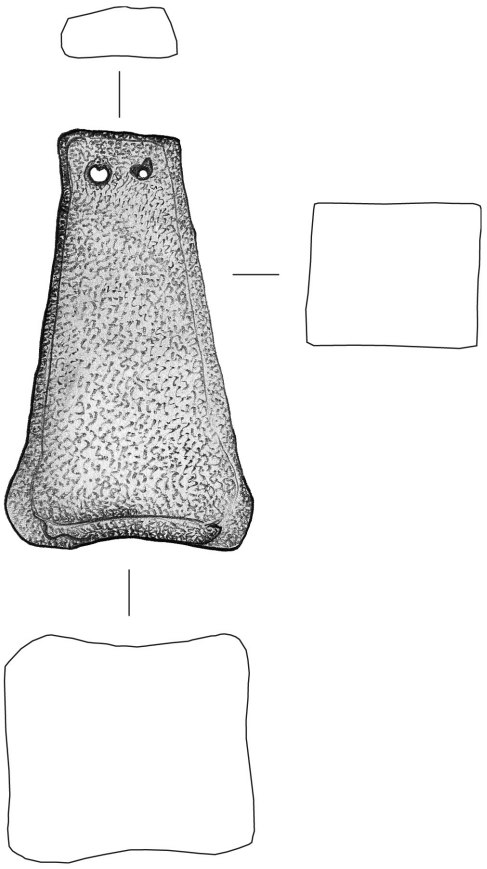
G 144



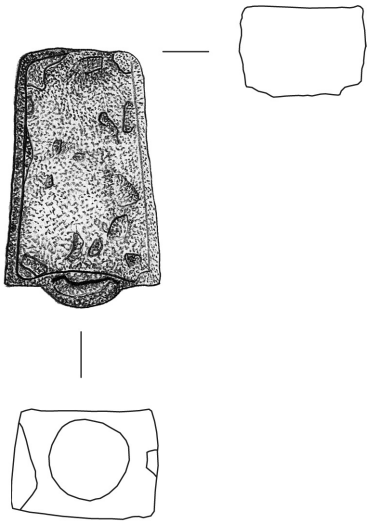
G 145



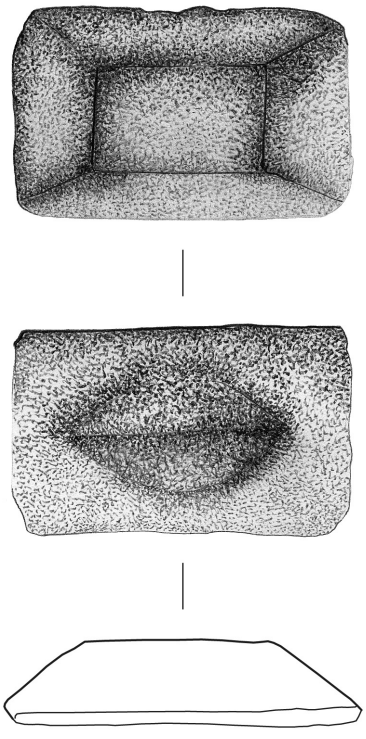
G 146



G 148

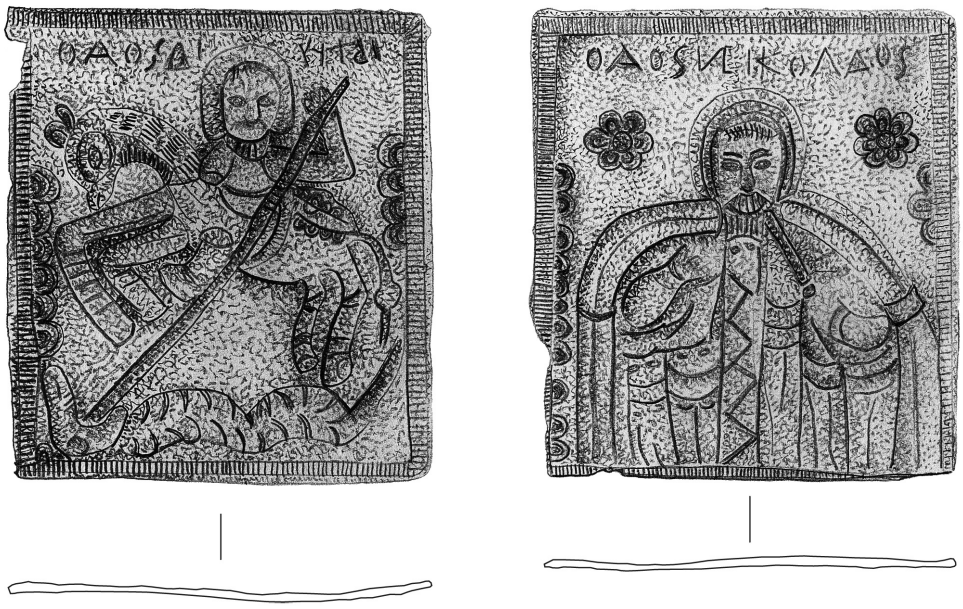


G 150



G 151

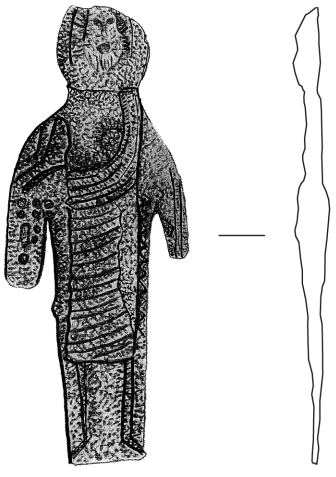
TAFEL 70



A 1



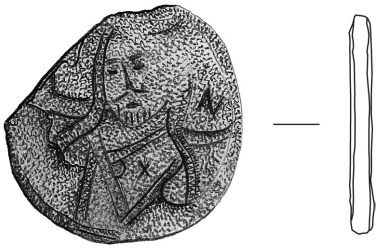
A 2



A 3



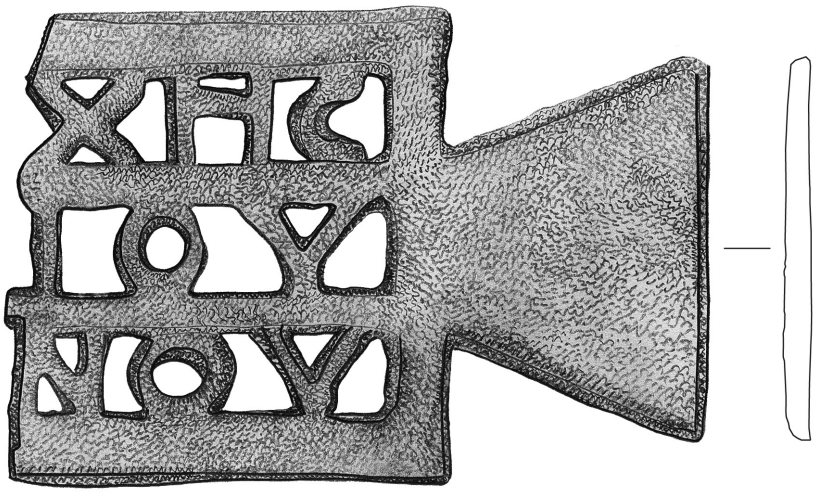
A 4



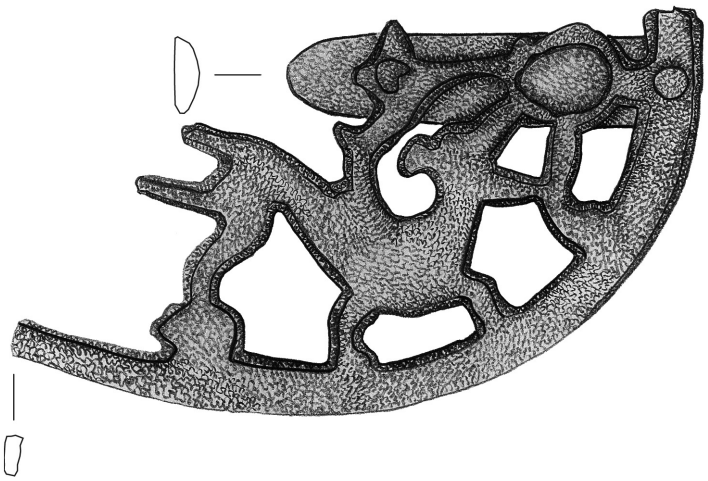
A 5



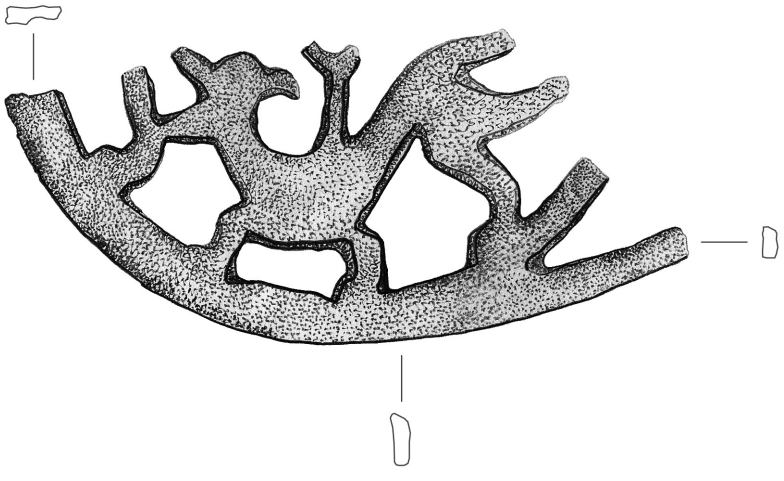
A 6



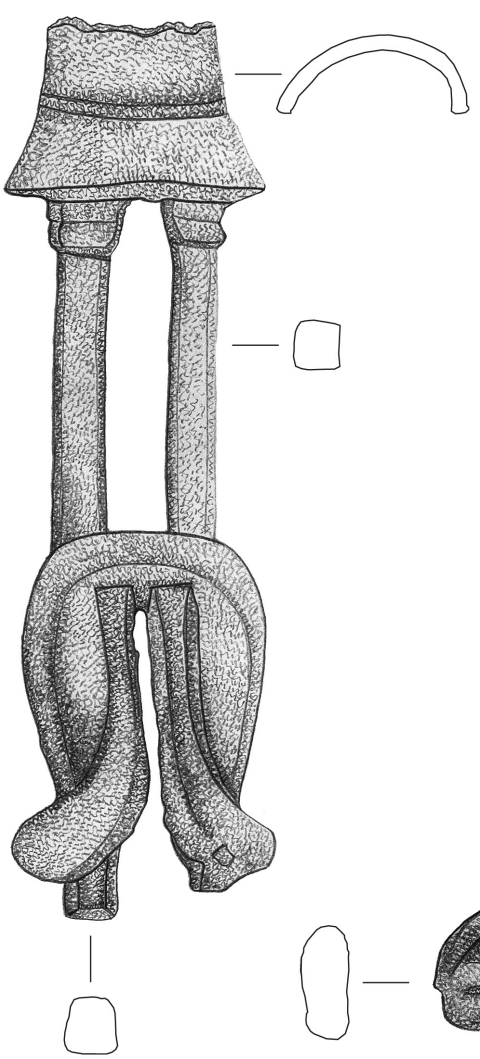
A 7



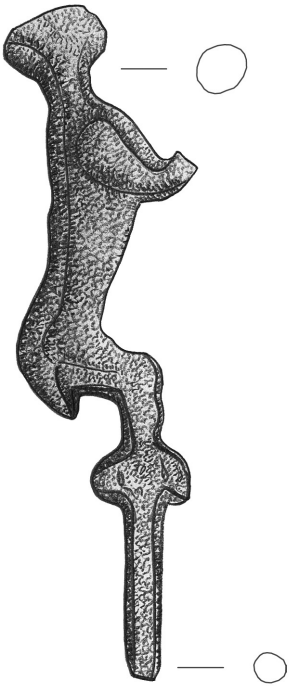
A 12



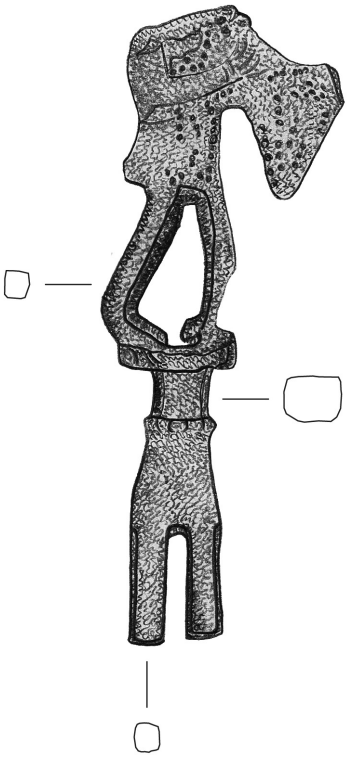
A 13



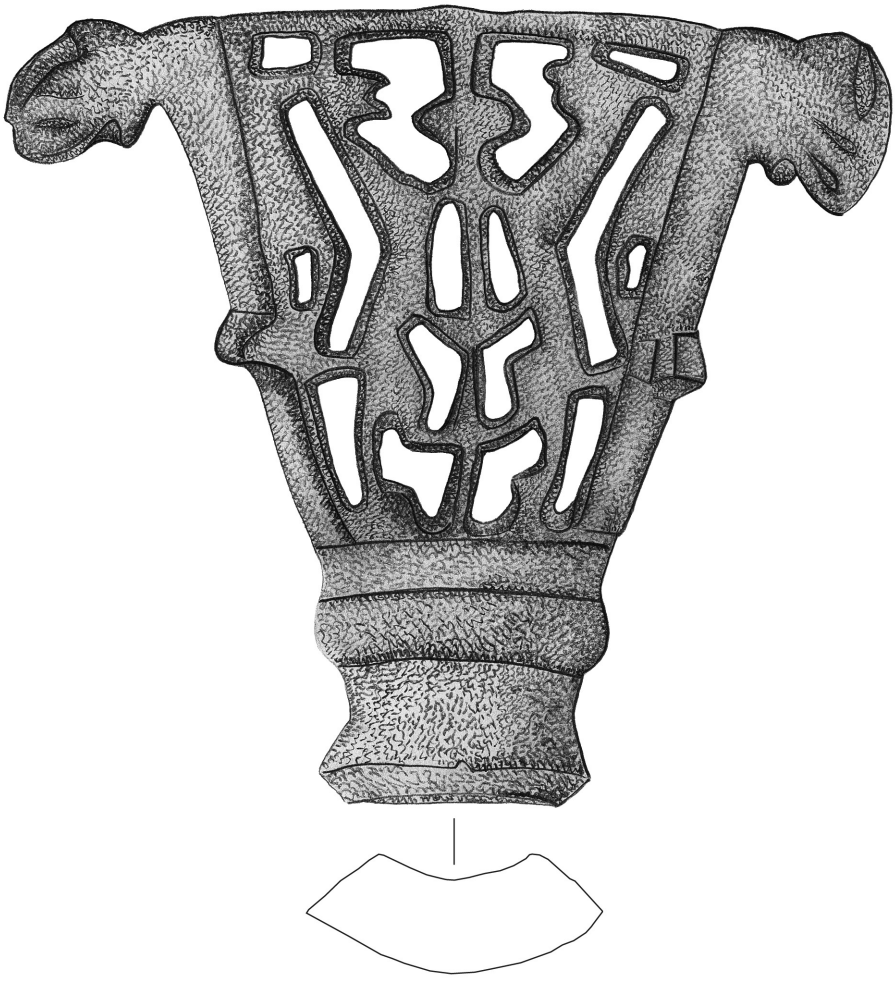
A 15



A 17

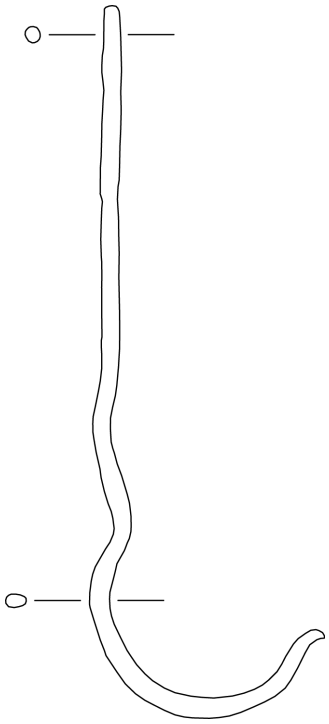


A 18

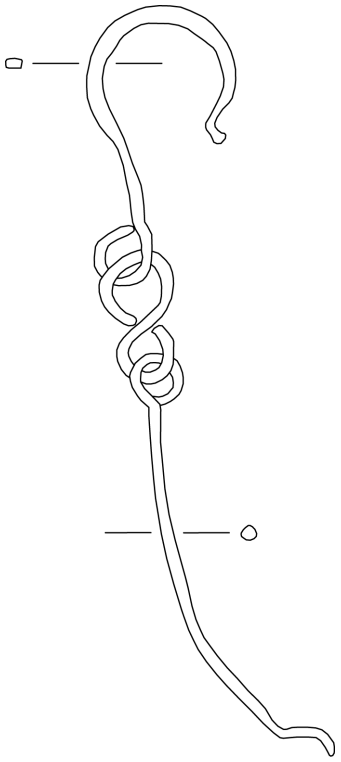


A 16

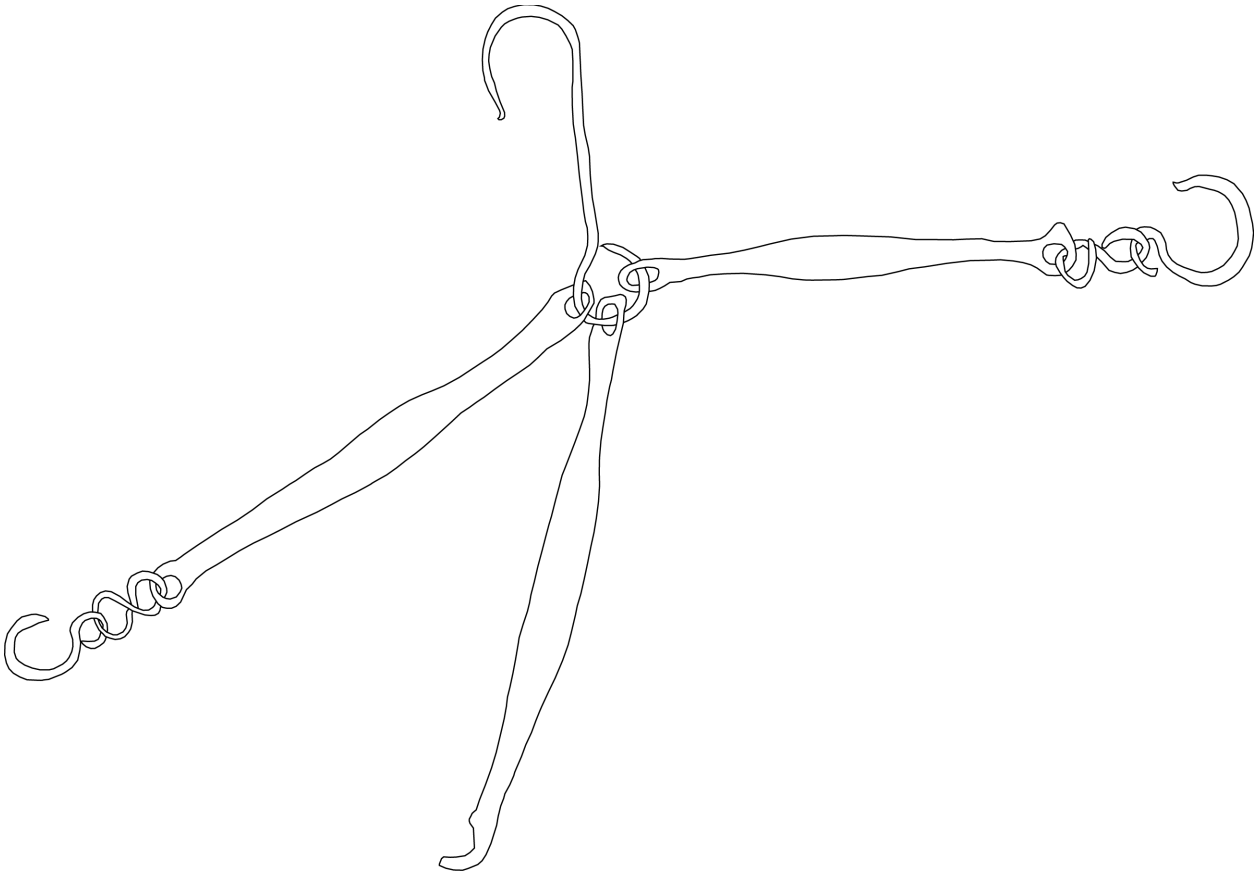
TAFEL 74



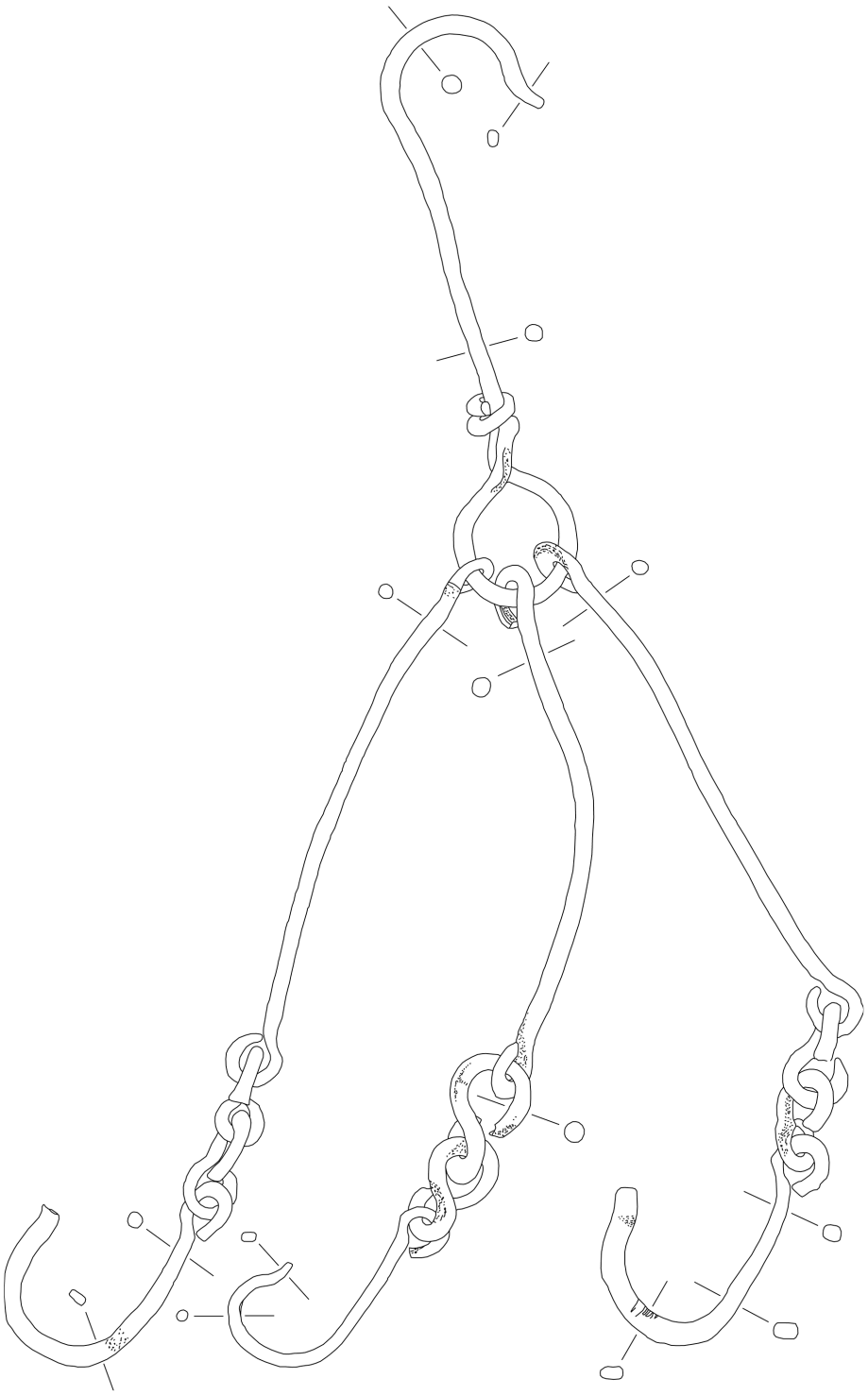
A 20



A 22

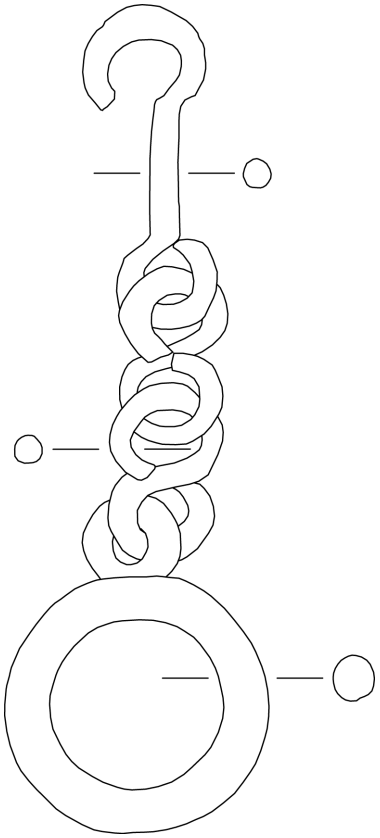


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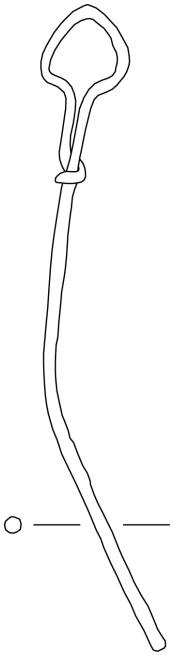


M. 1 : 1,5

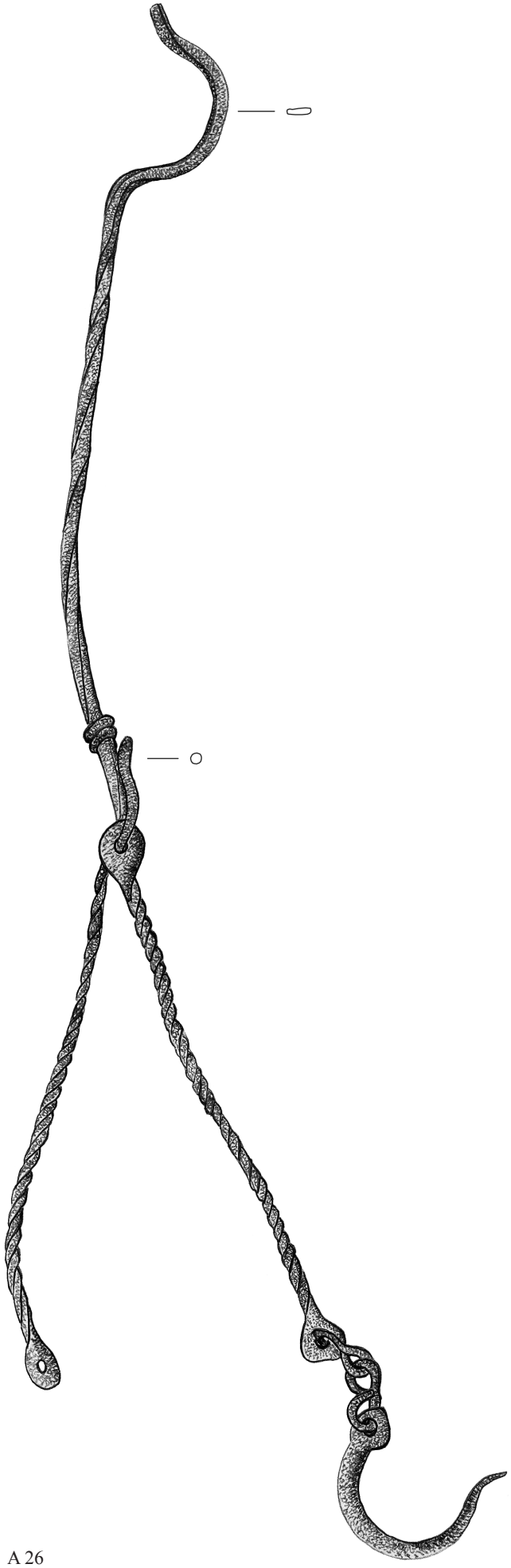
A 23



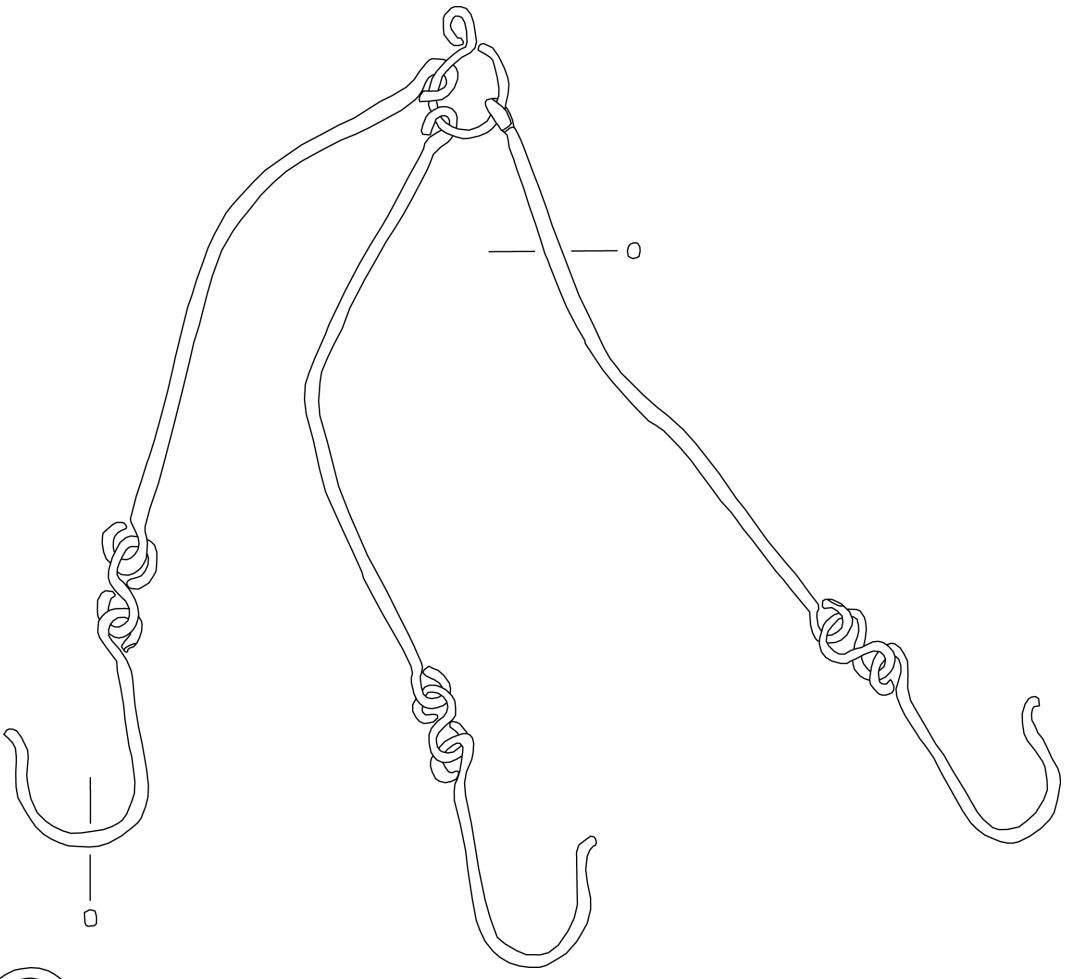
A 24



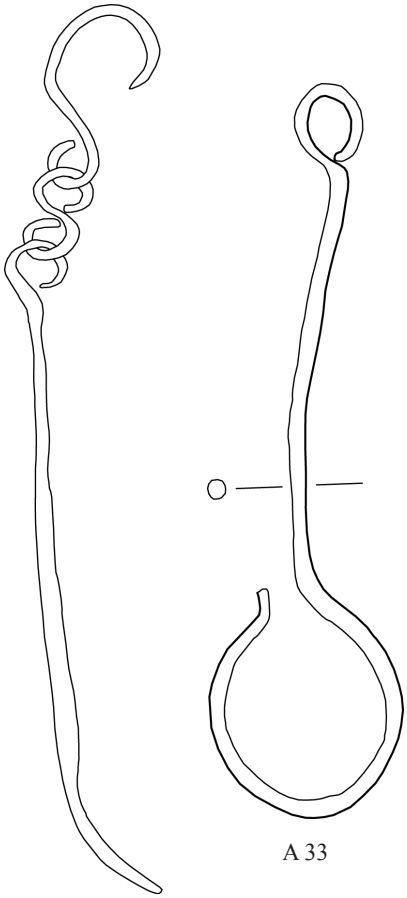
A 25



A 26

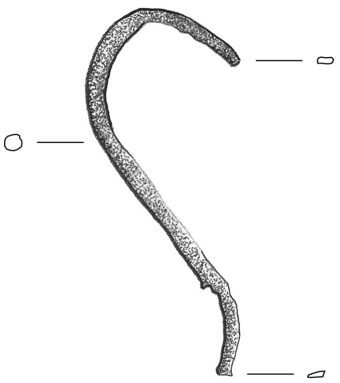


A 28



A 31

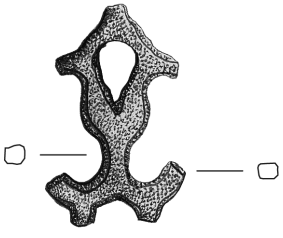
A 33



A 36



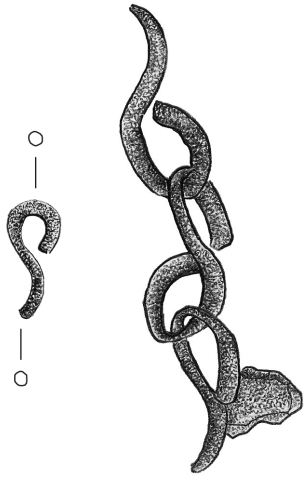
A 37



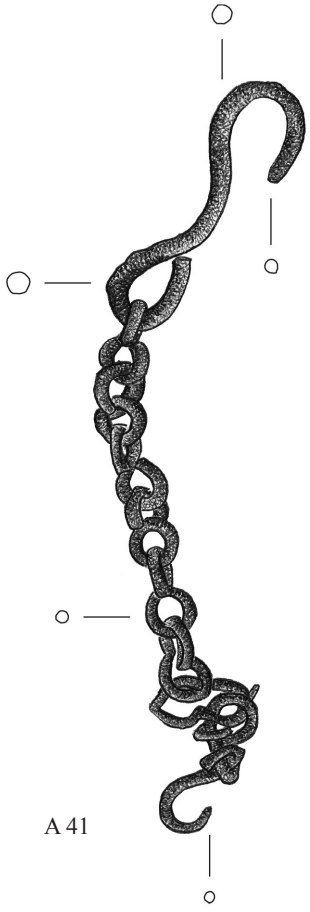
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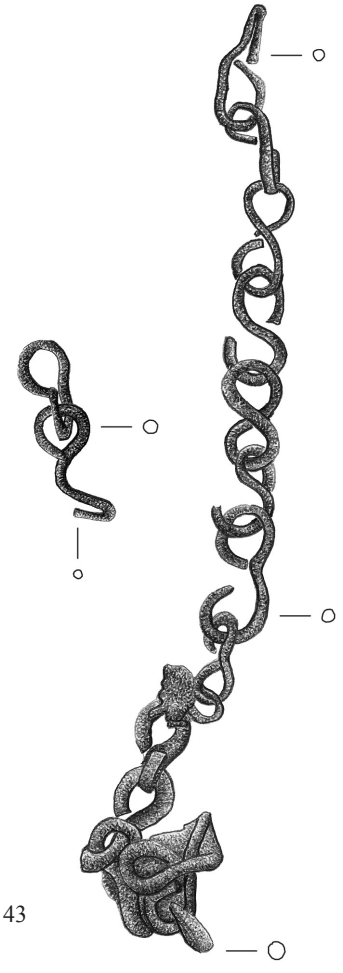
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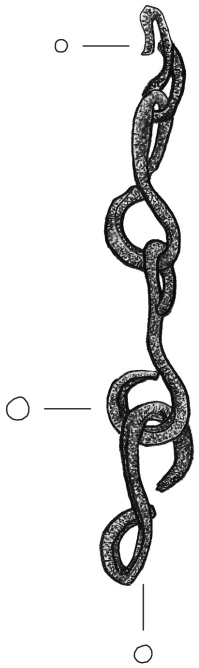
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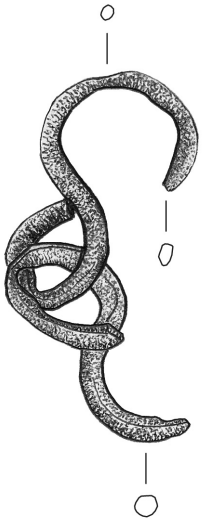
A 41



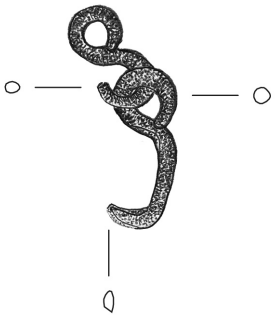
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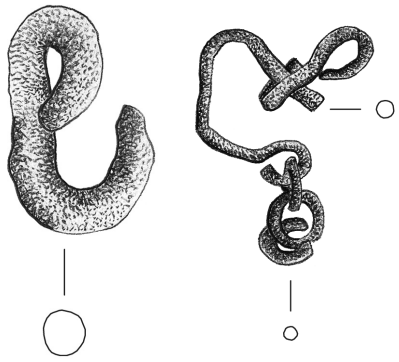
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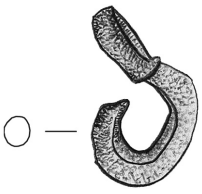
A 45



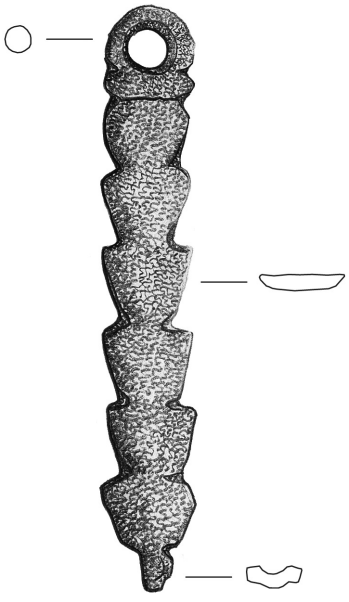
A 46



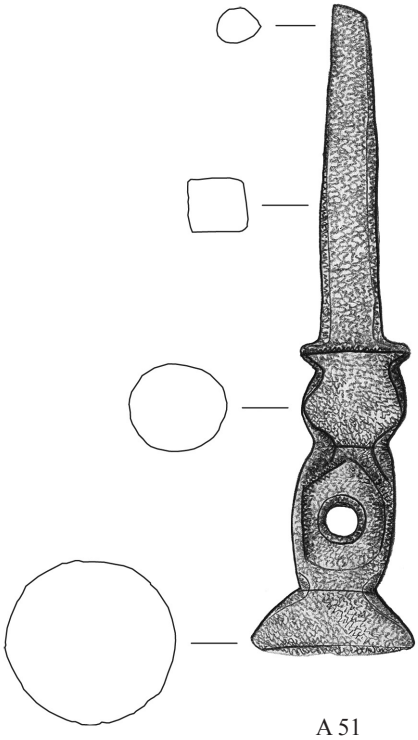
A 47



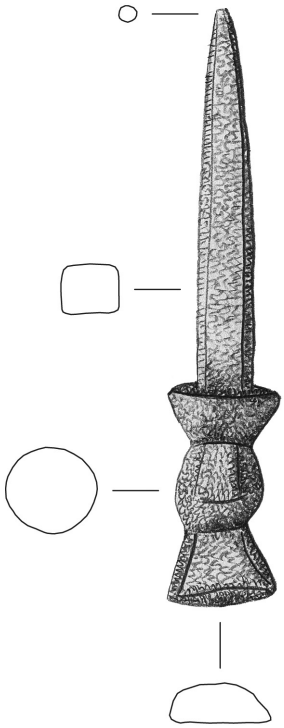
A 48



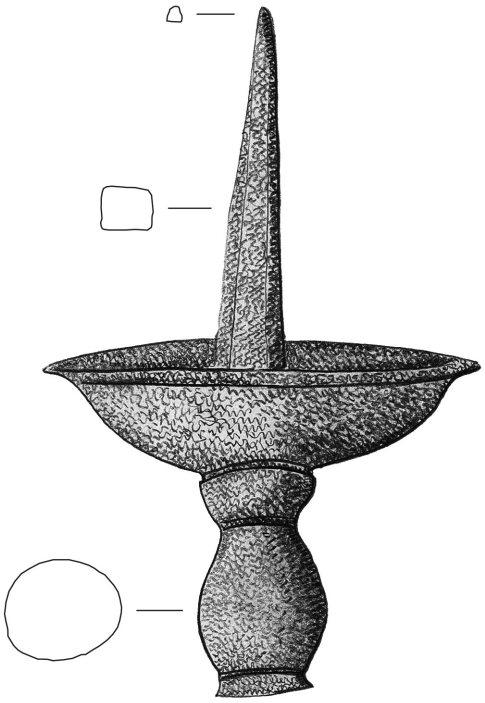
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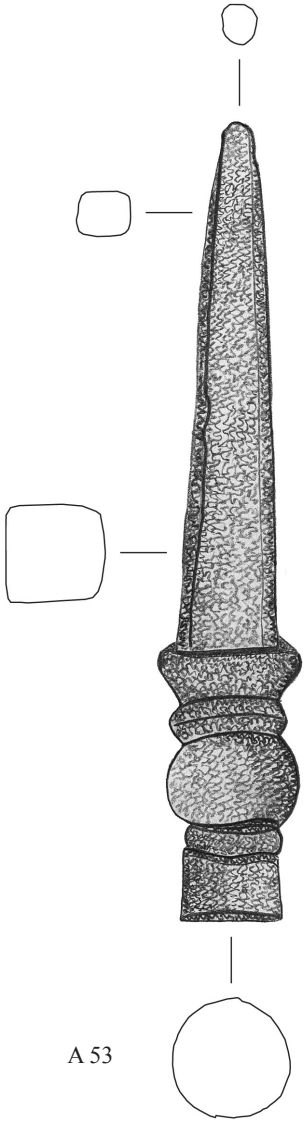
A 51



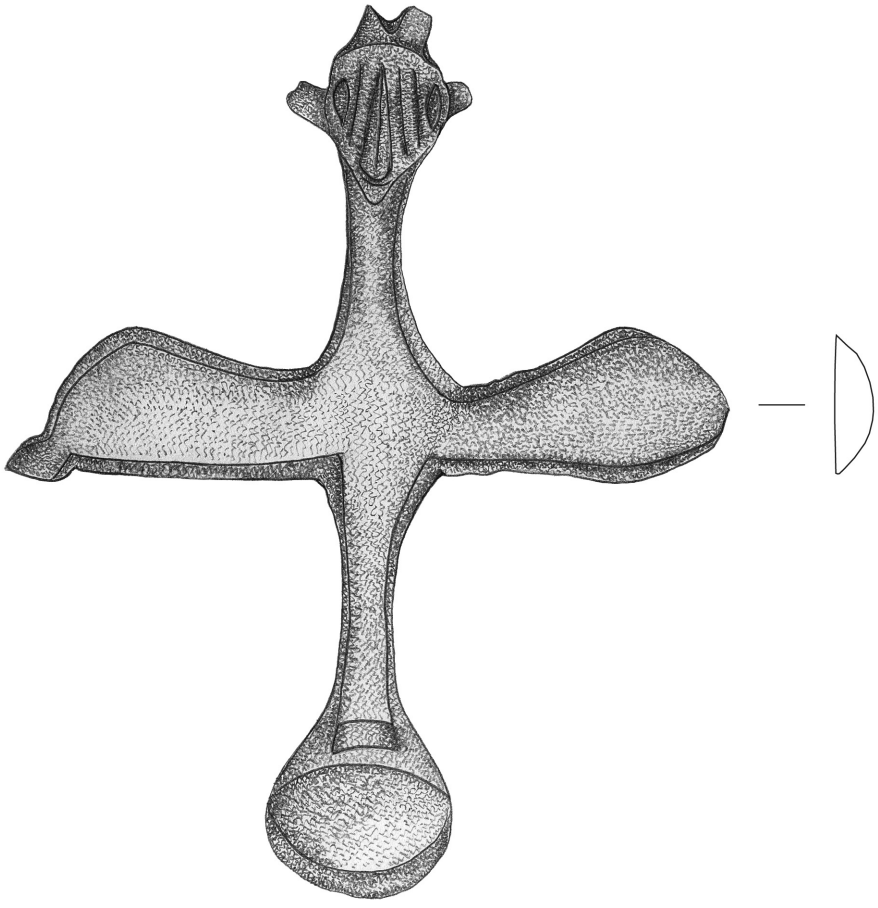
A 52



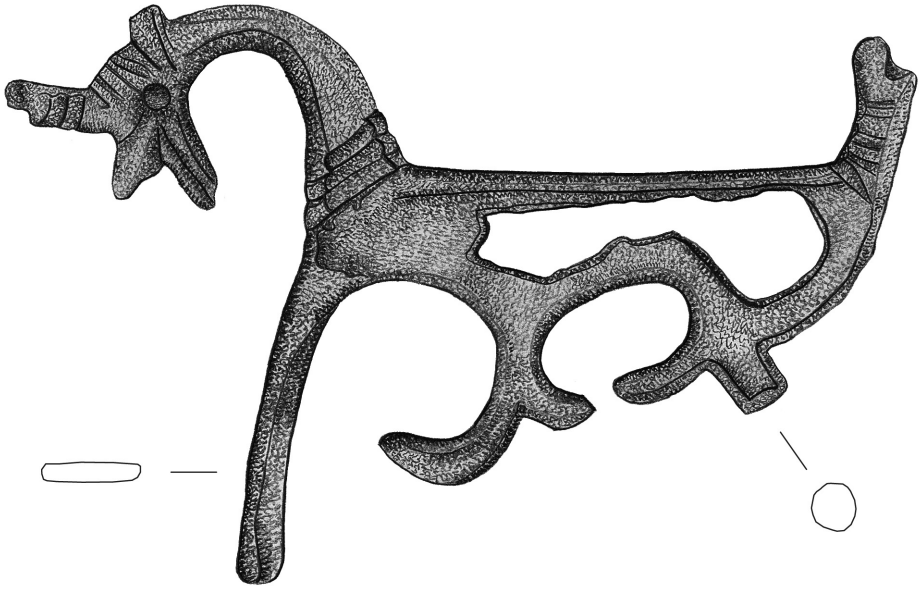
A 54



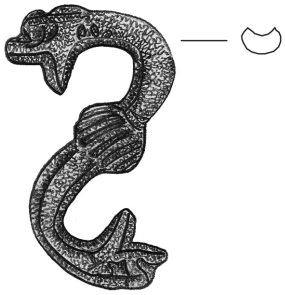
A 53



A 61



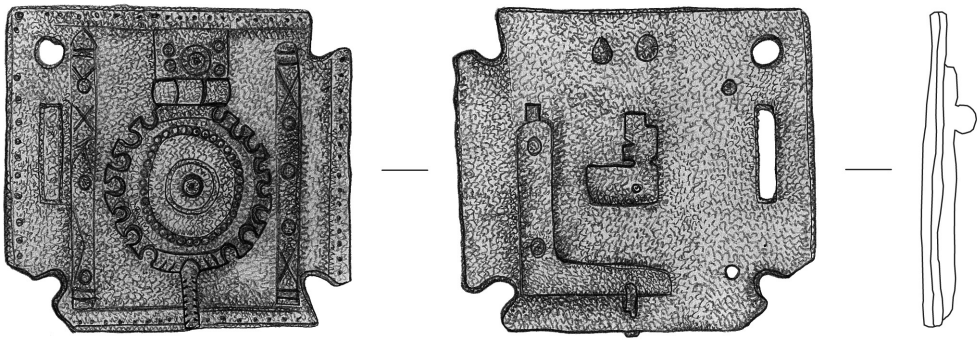
A 62



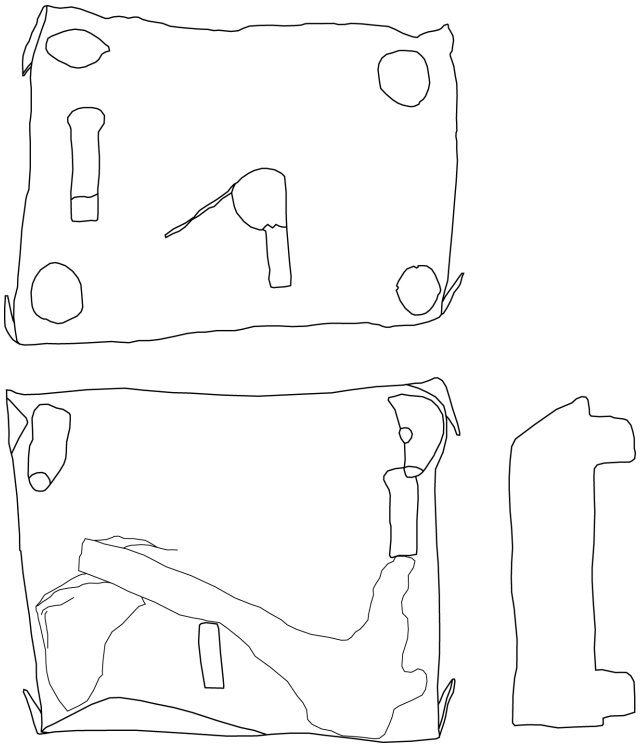
A 66



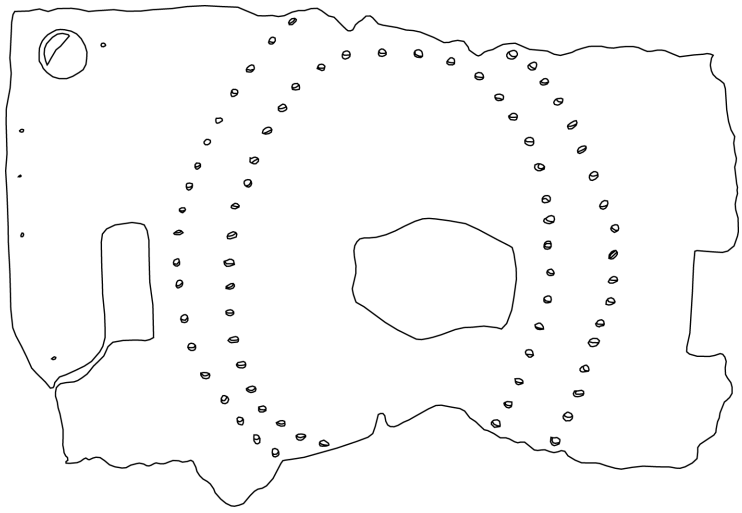
A 67



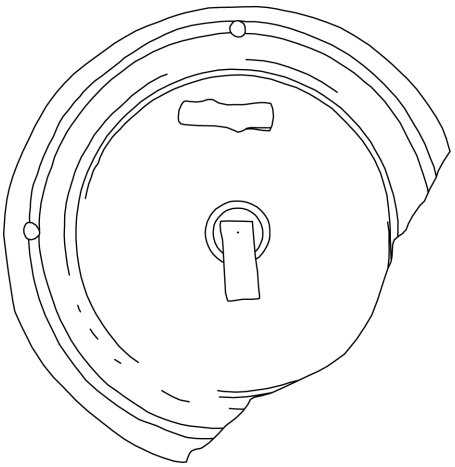
A 71



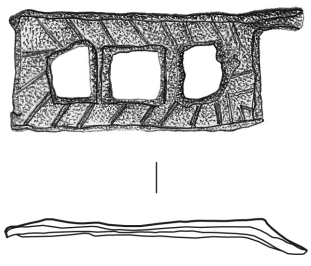
A 72



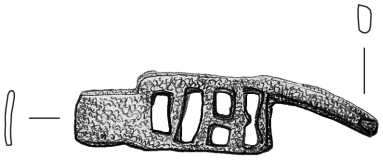
A 73



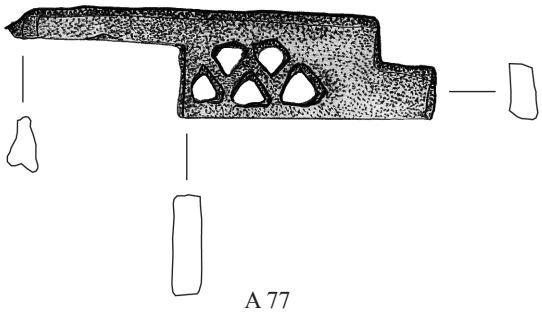
A 74



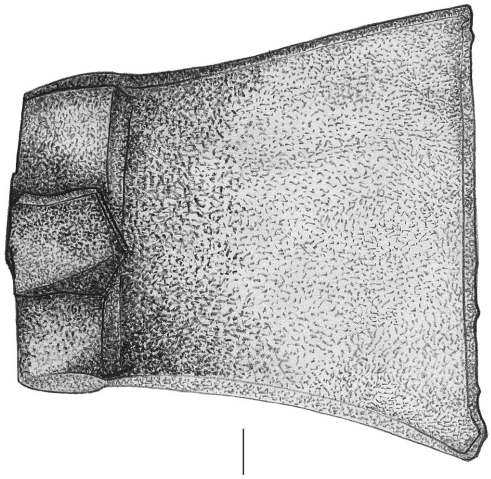
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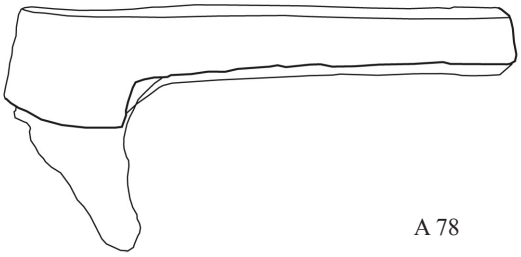


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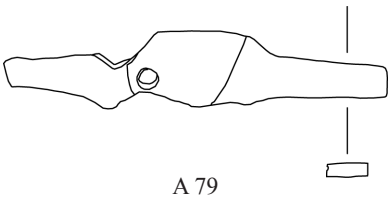


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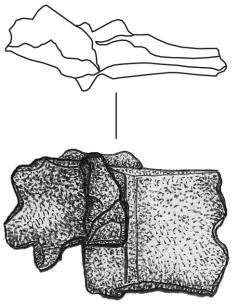




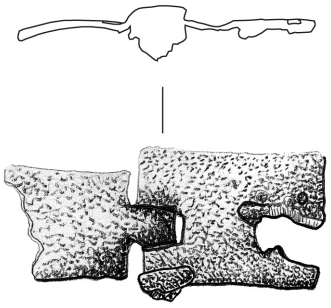
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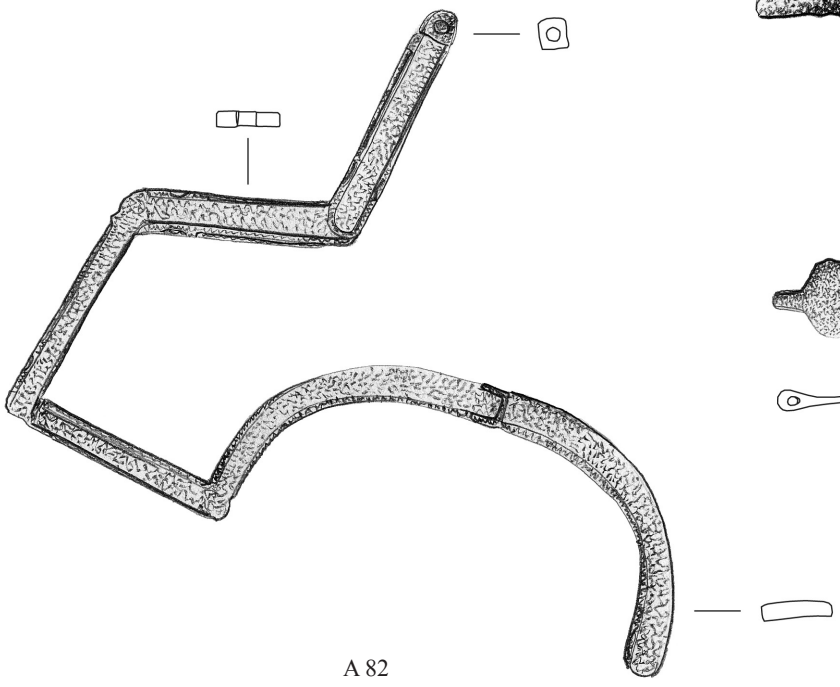
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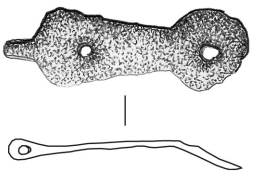
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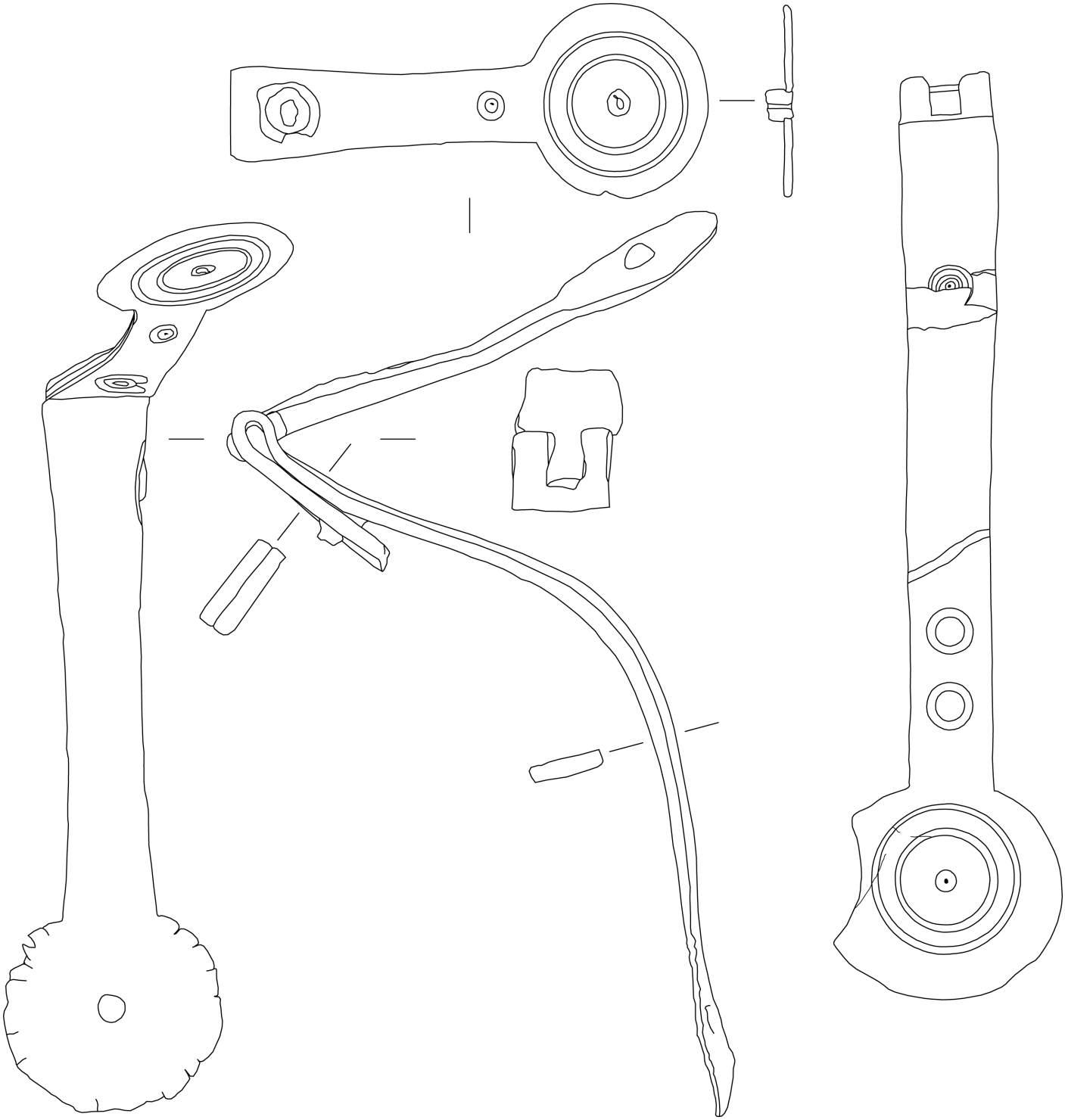
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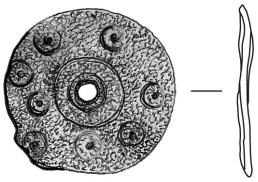


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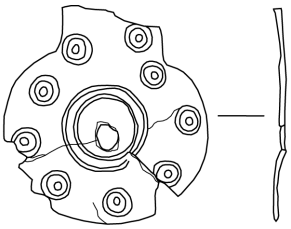


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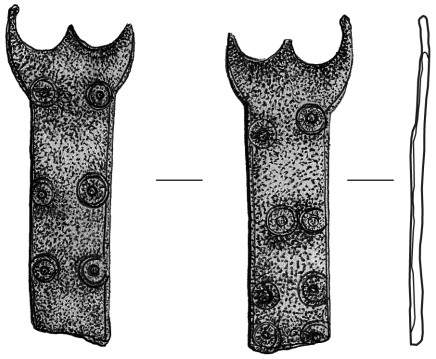




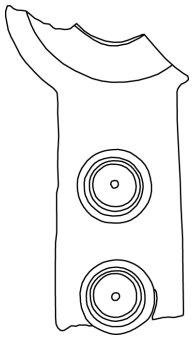
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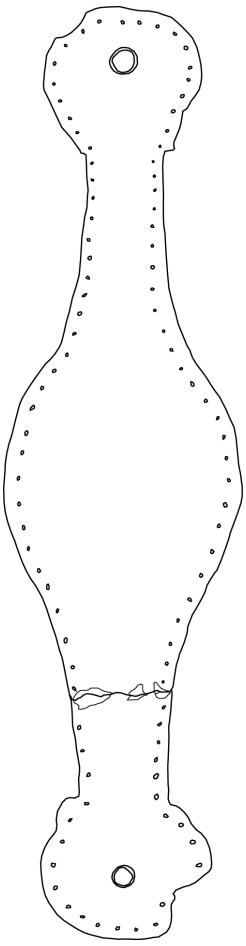
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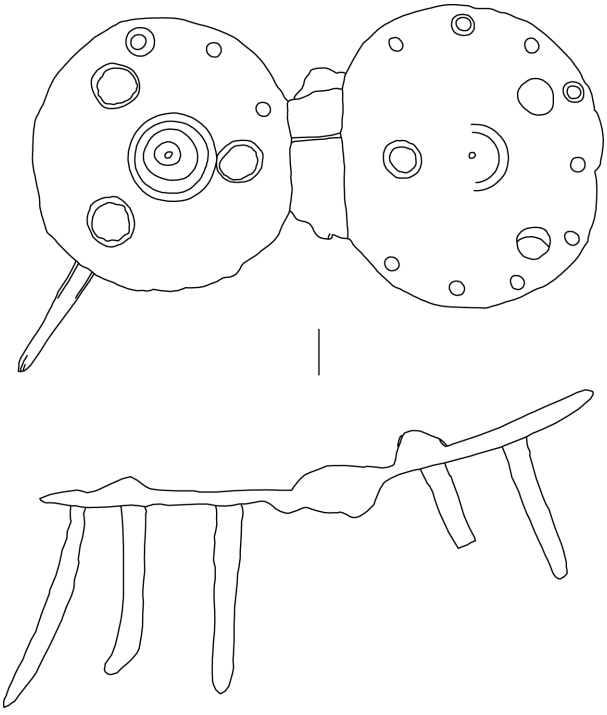
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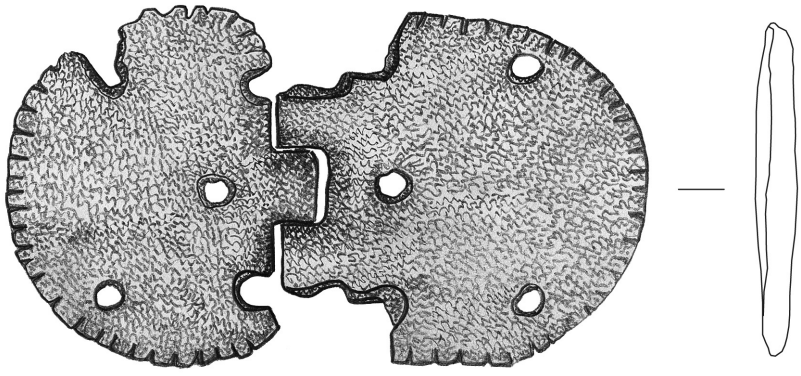
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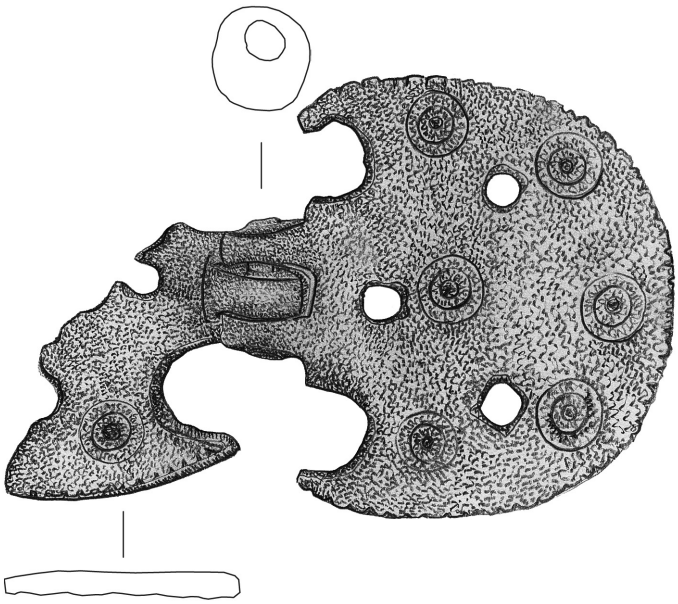
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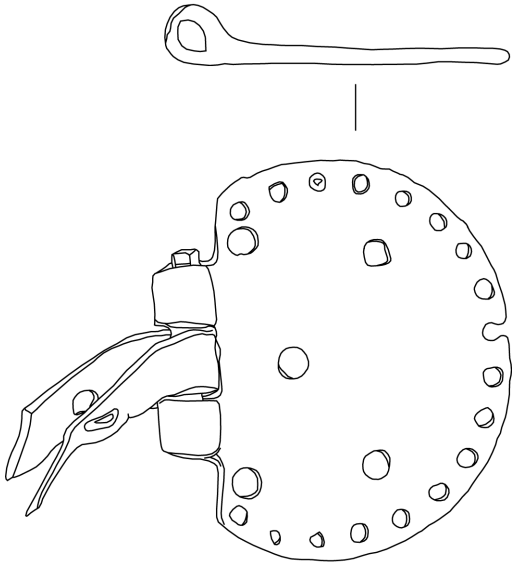
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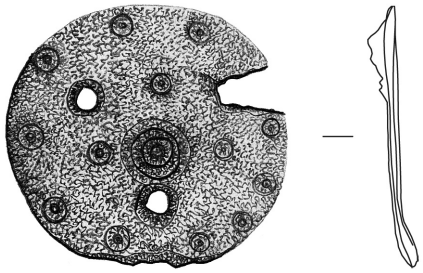
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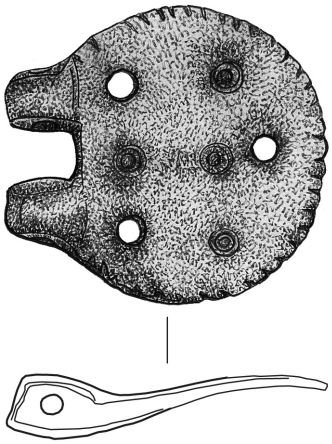
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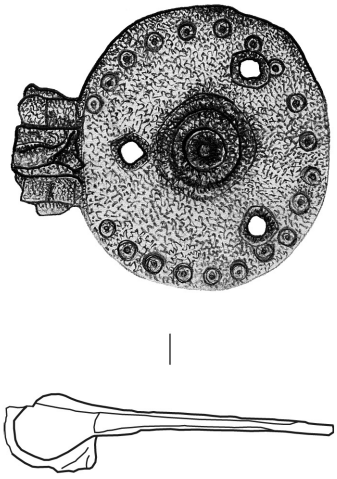
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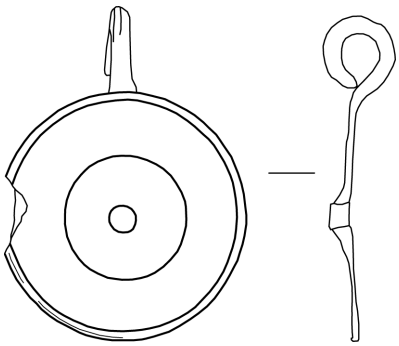
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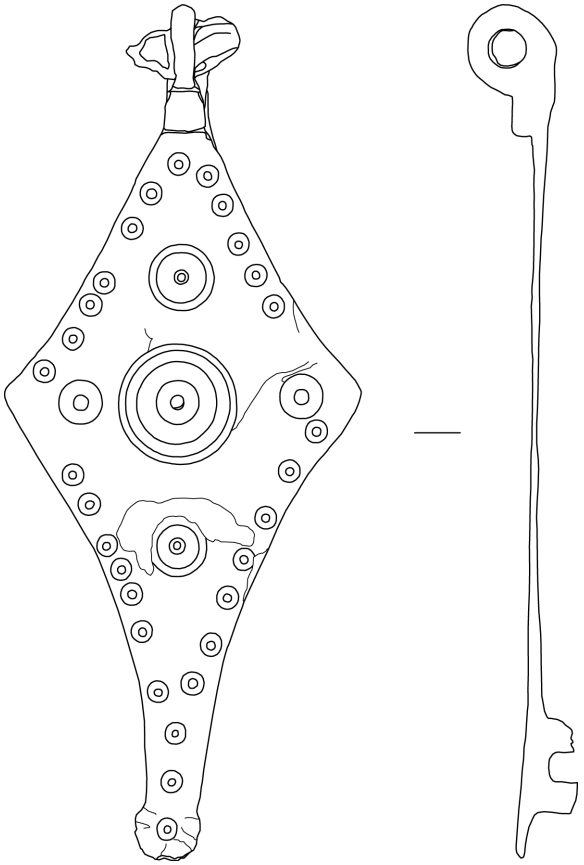
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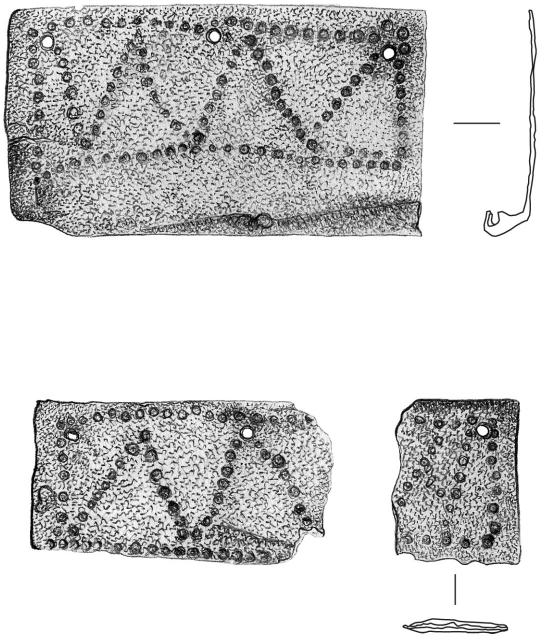
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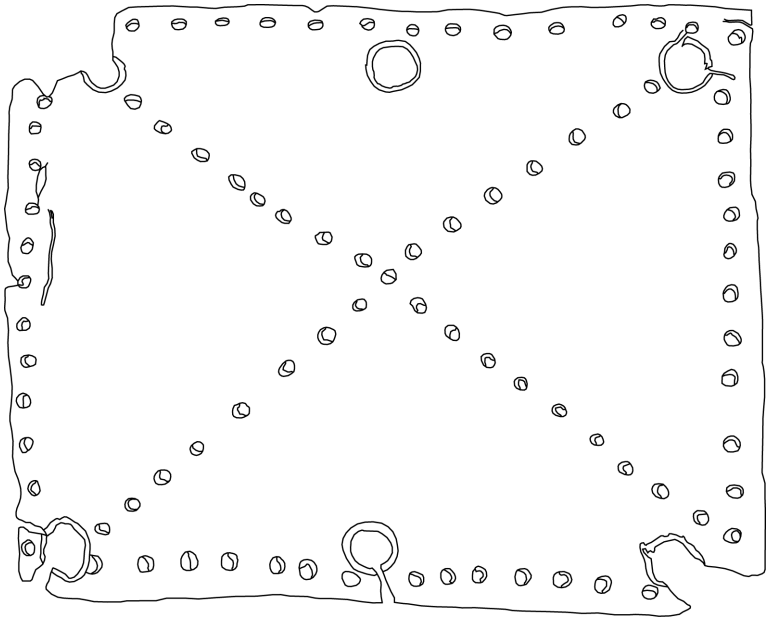
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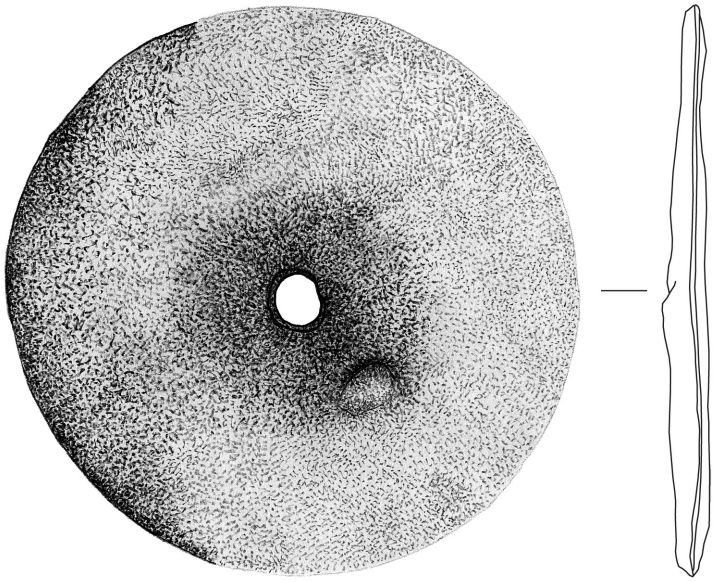
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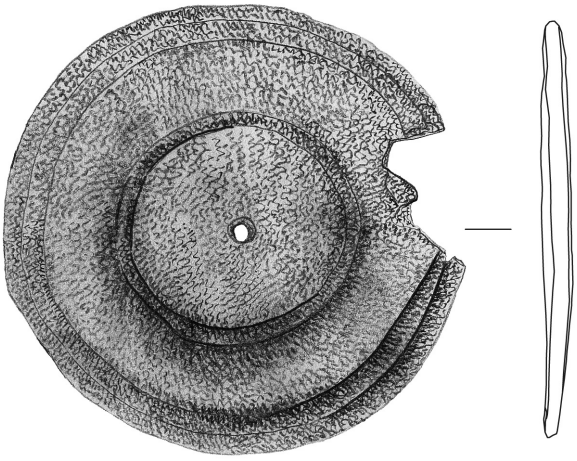
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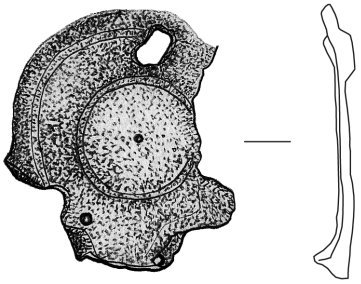
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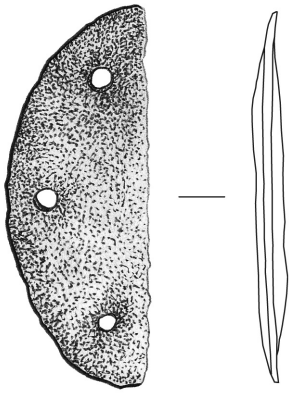
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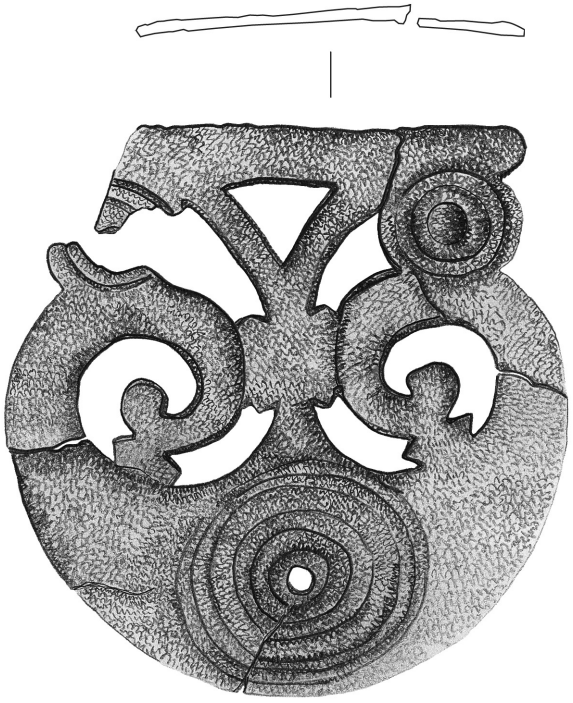
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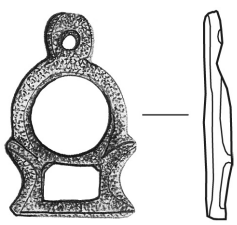
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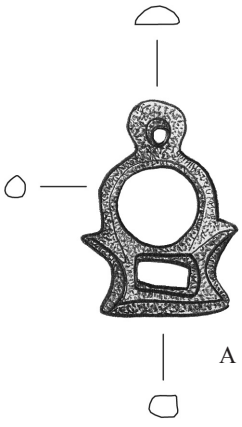
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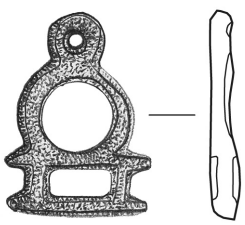
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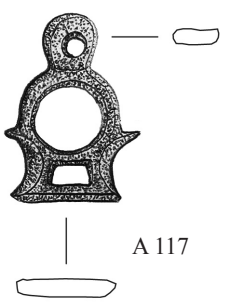
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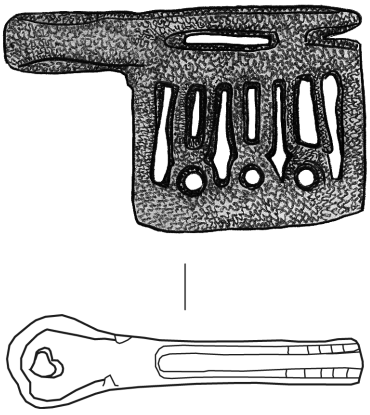
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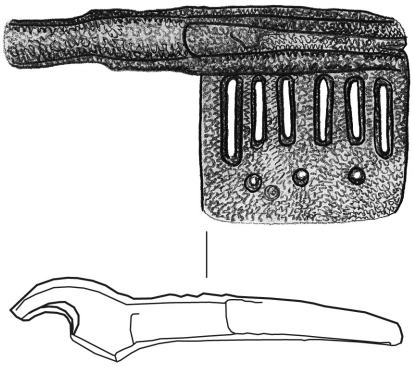
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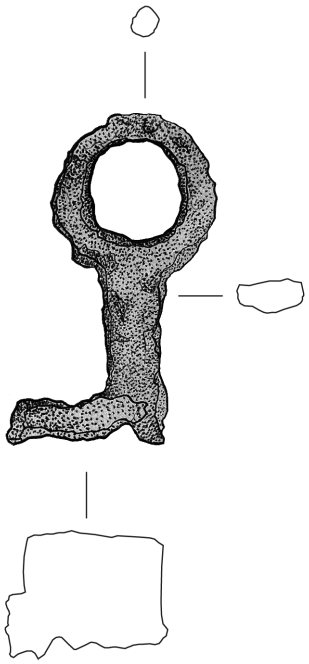
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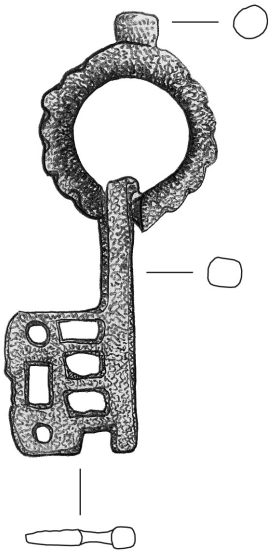
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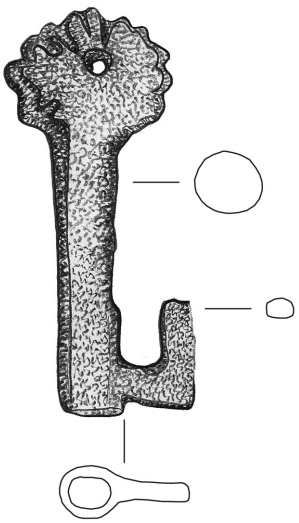
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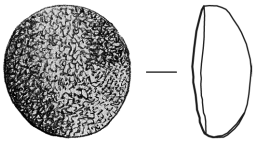
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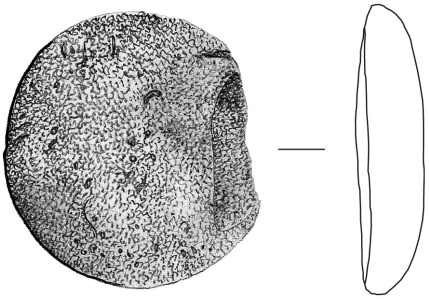
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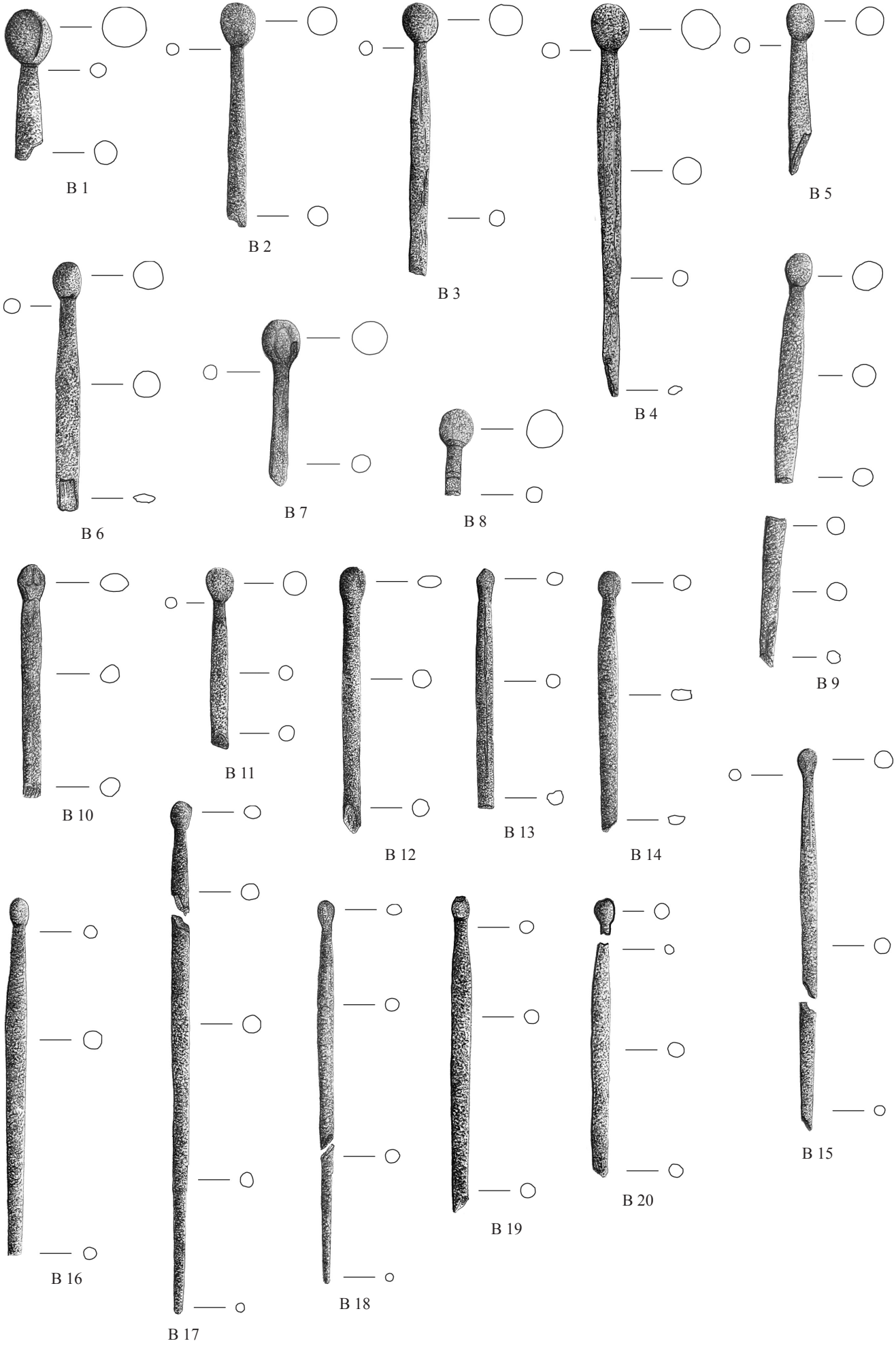


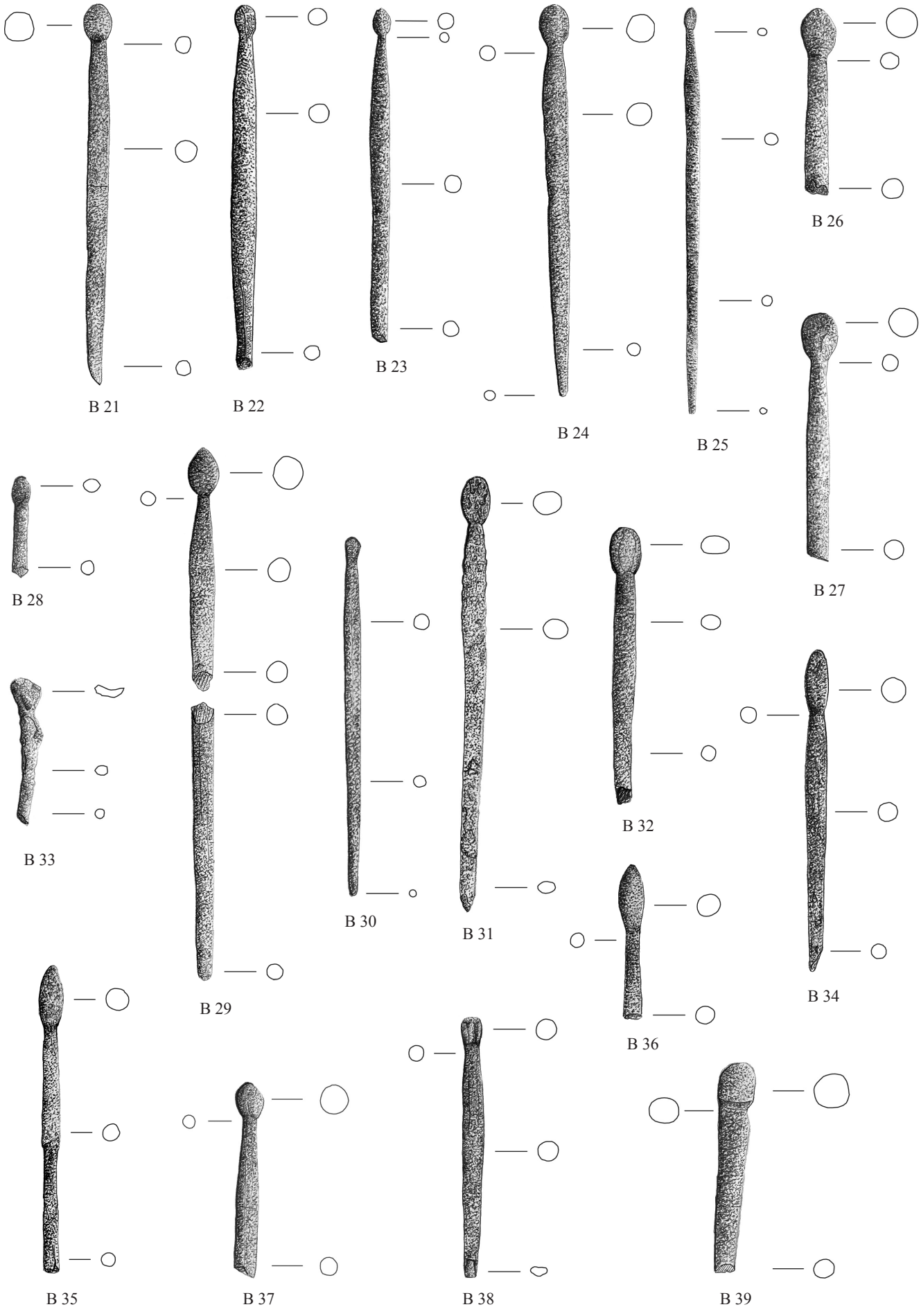
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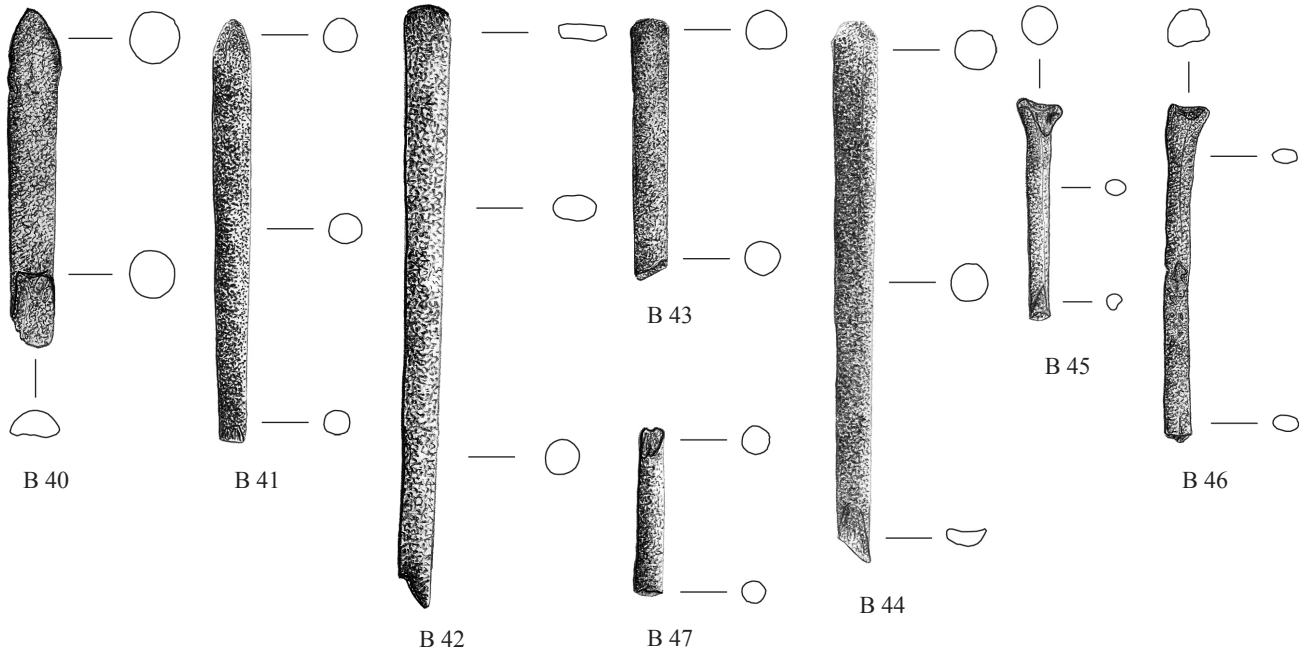


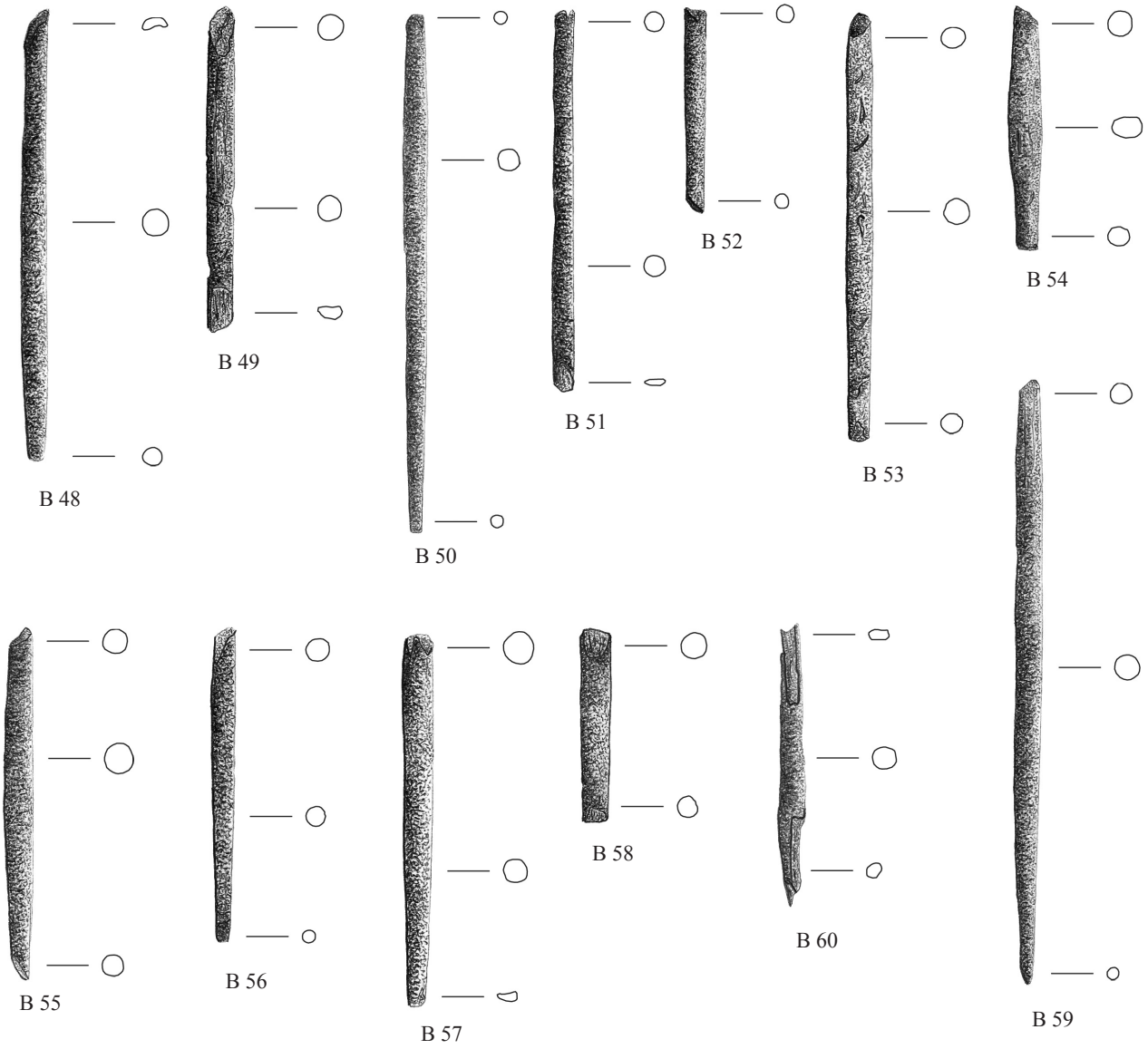
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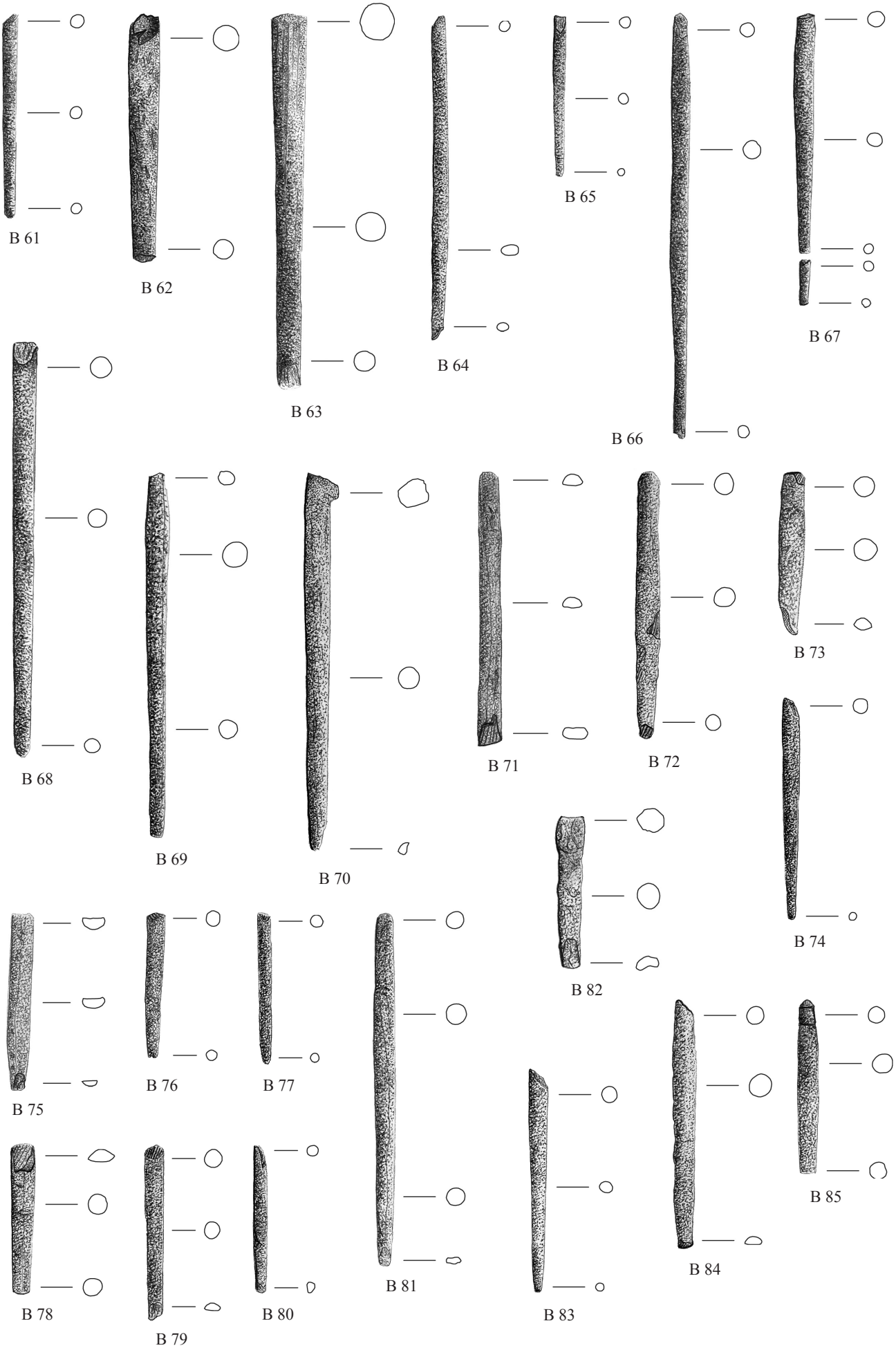
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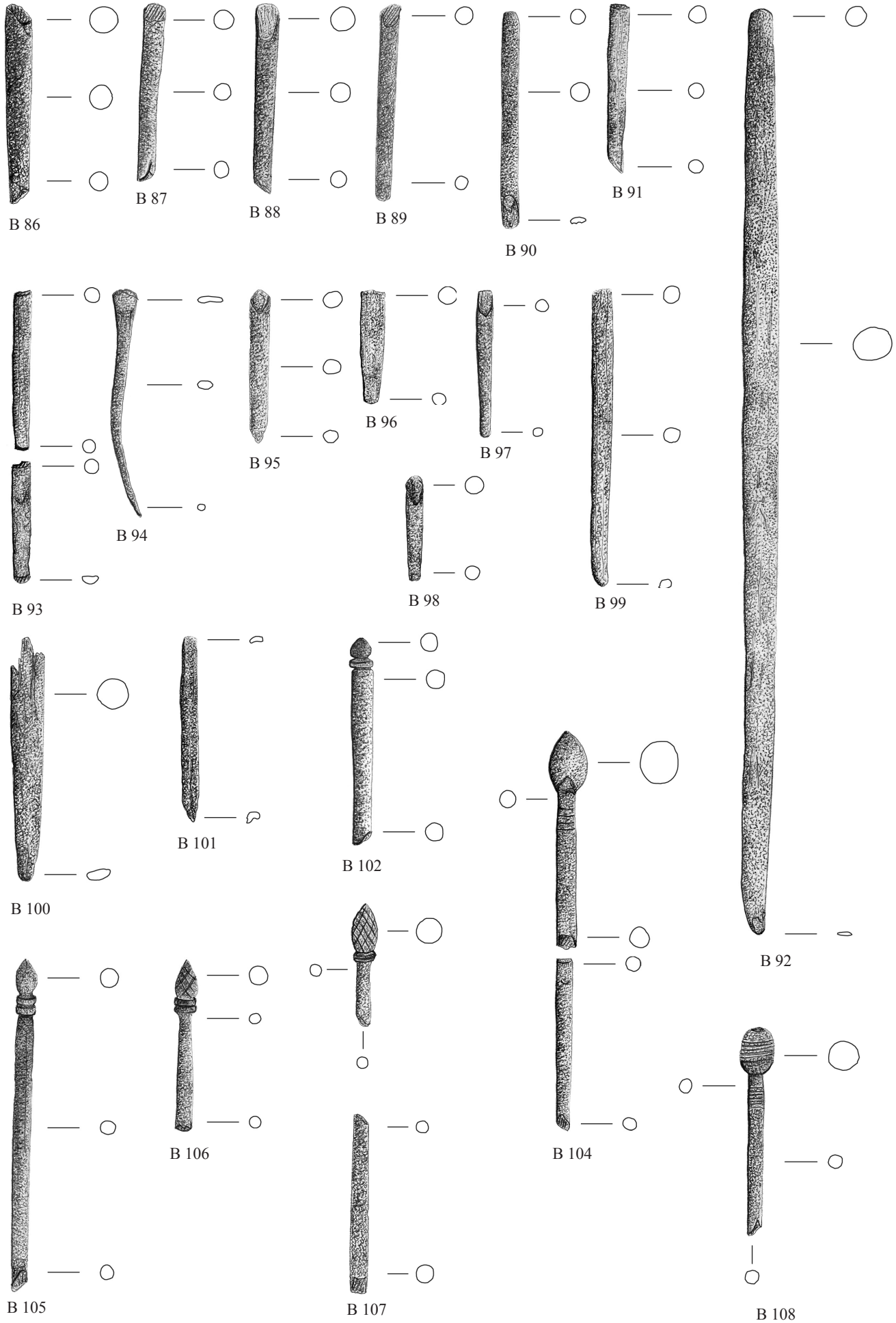

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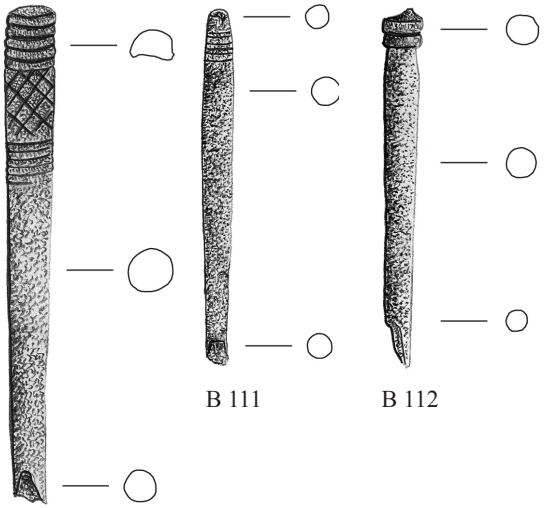

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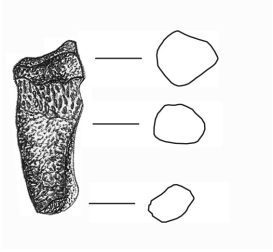
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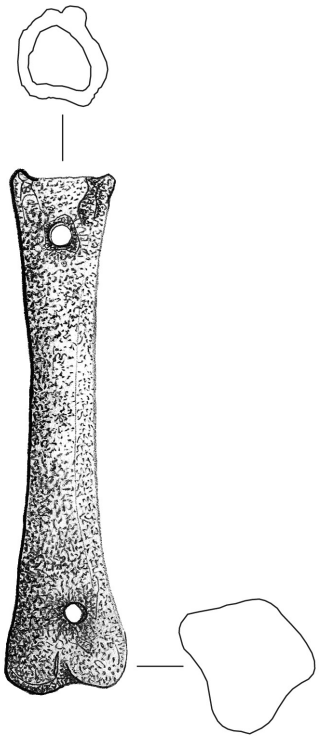
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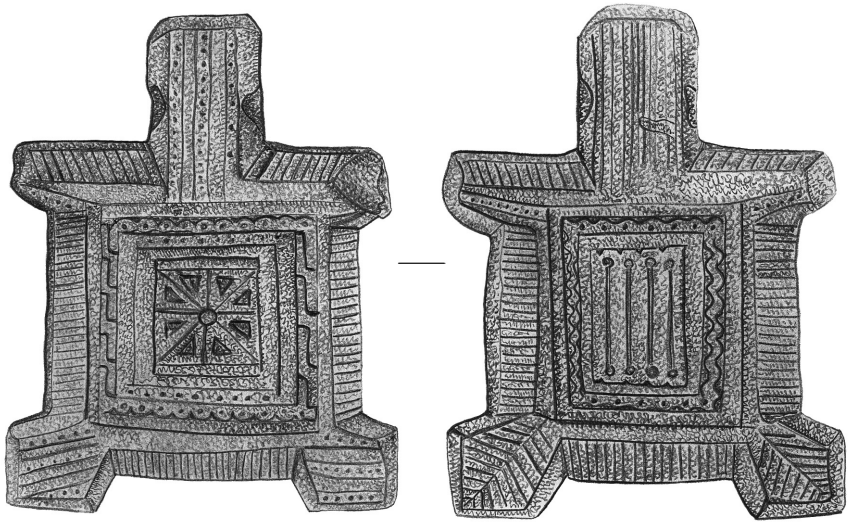
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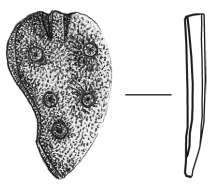
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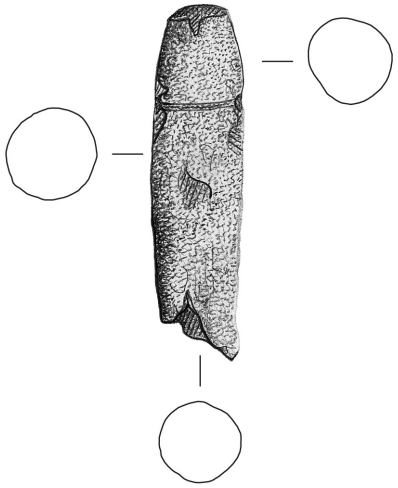
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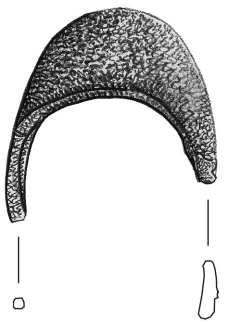
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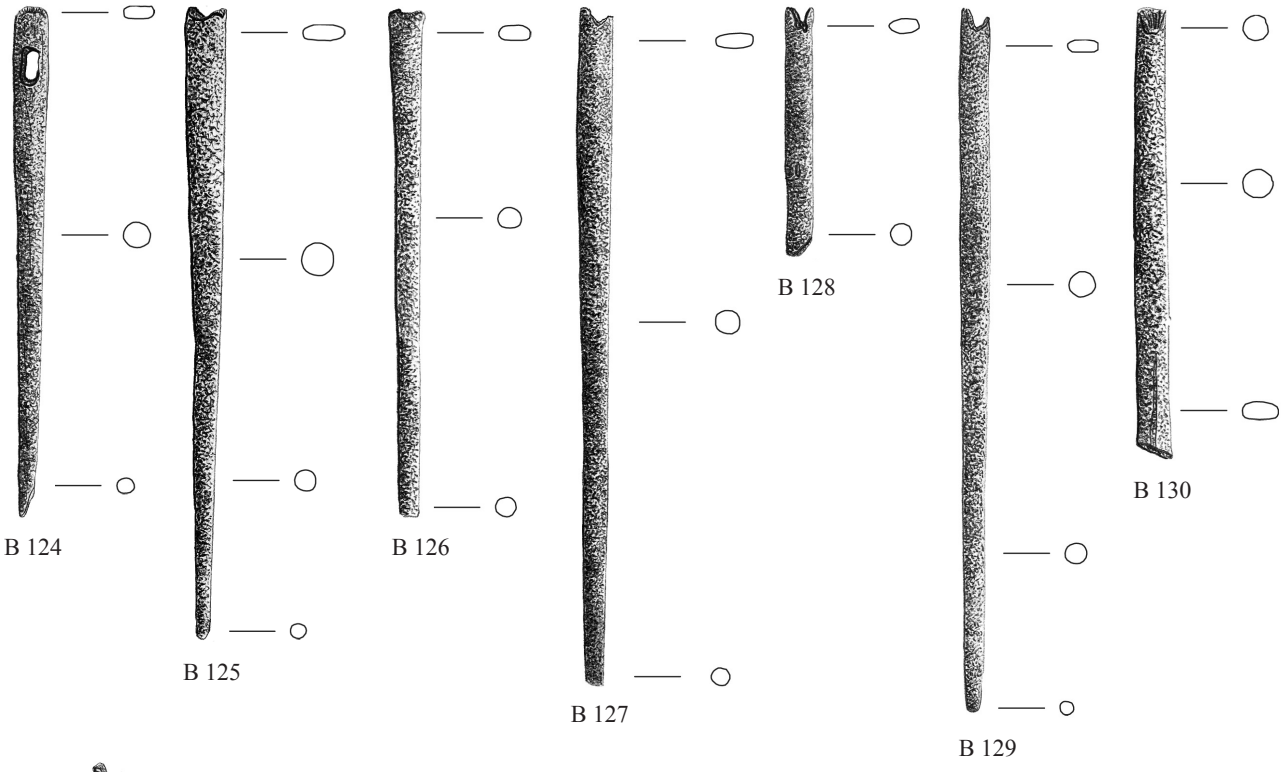
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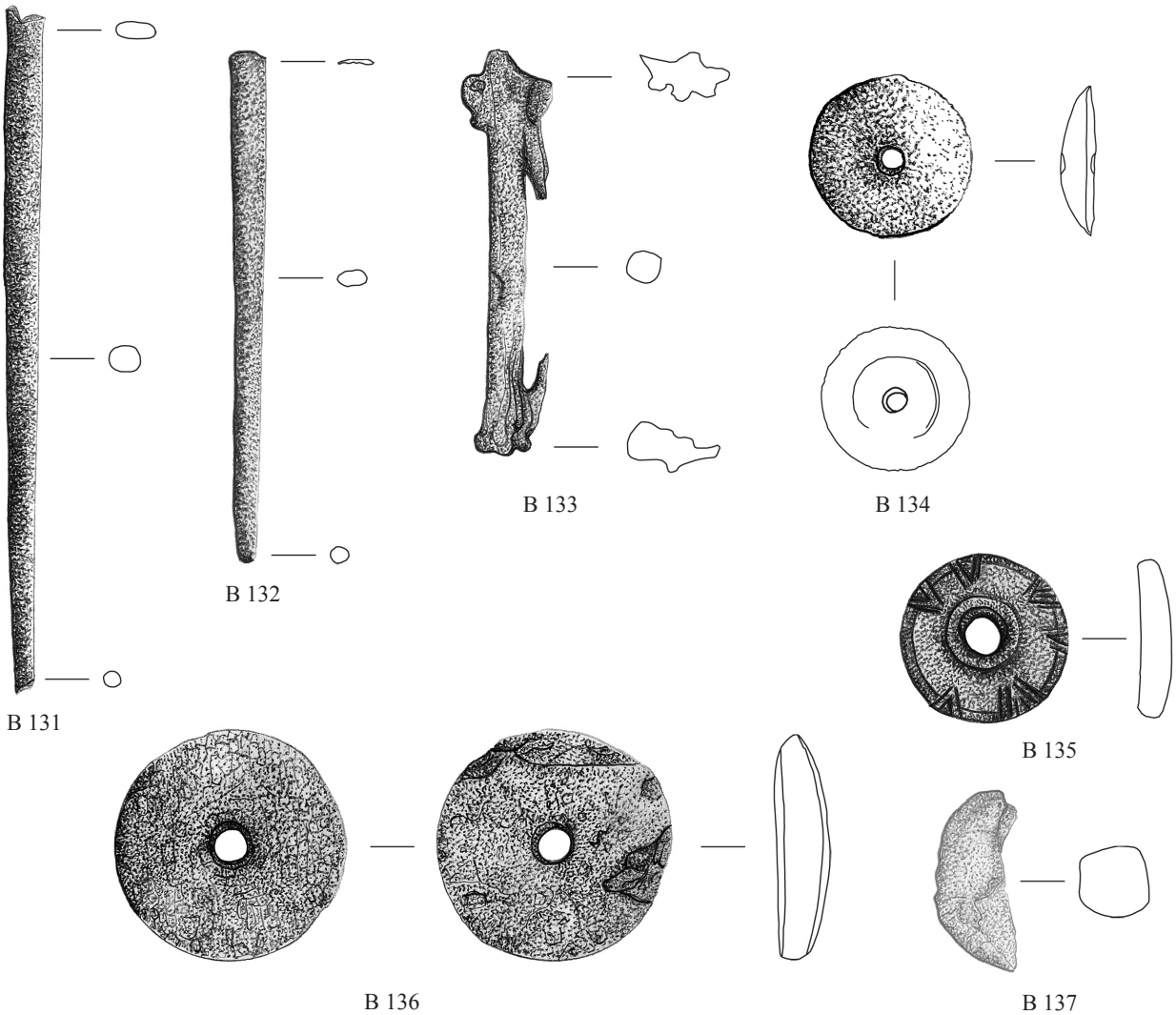
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B 128

B 129

B 130


B 131

B 132

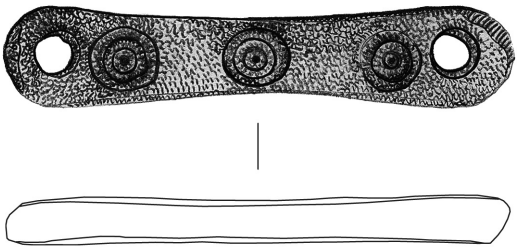
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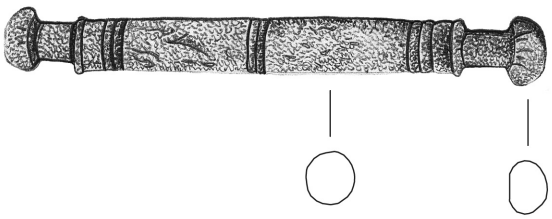
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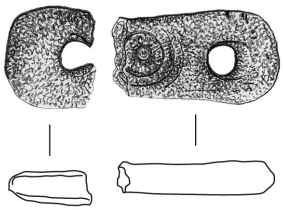
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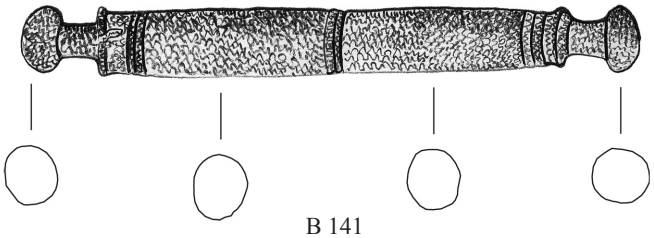
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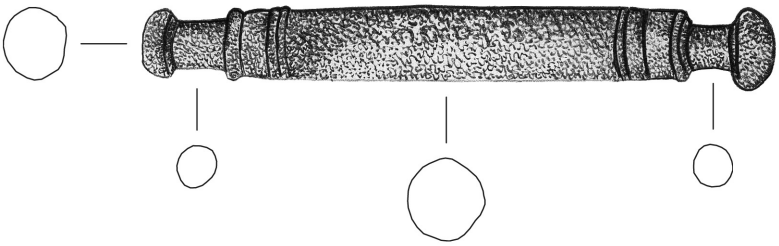
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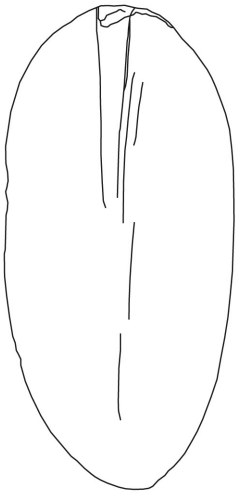
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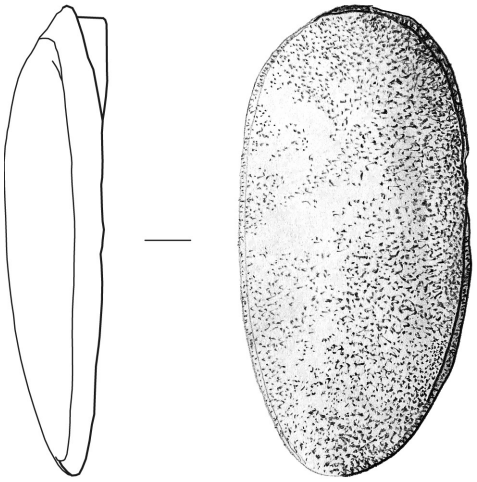


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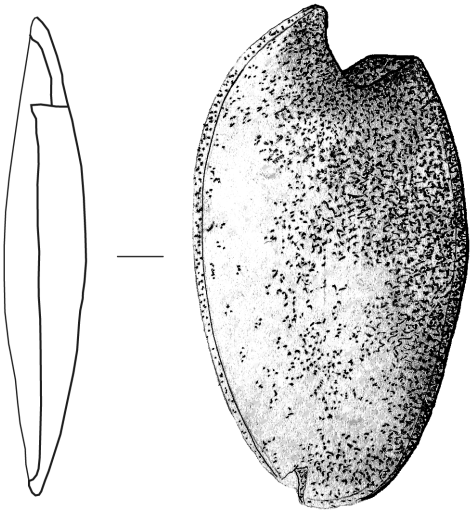


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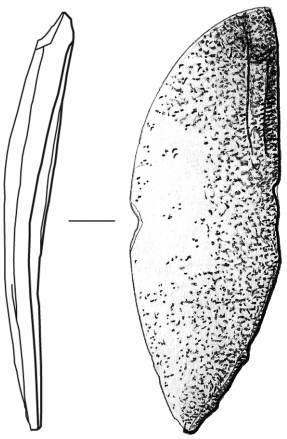




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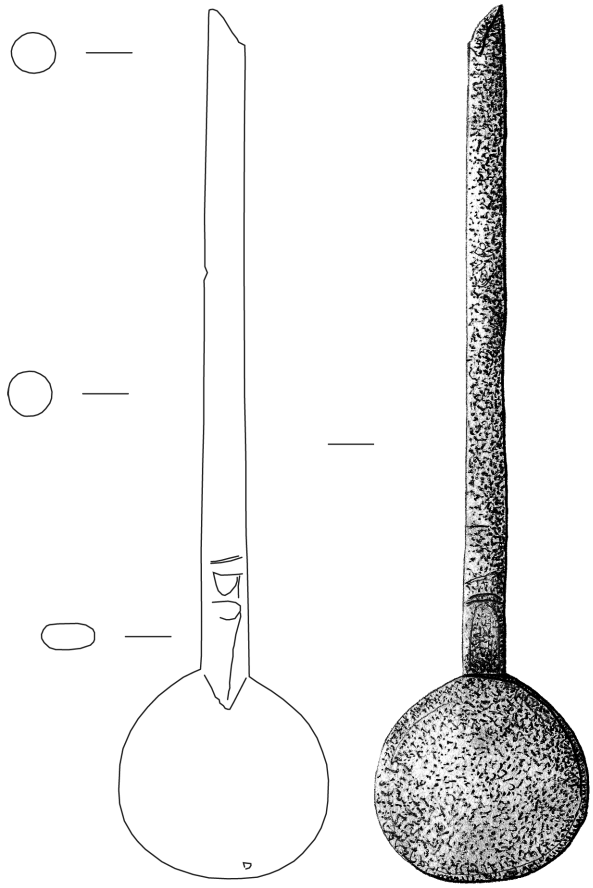


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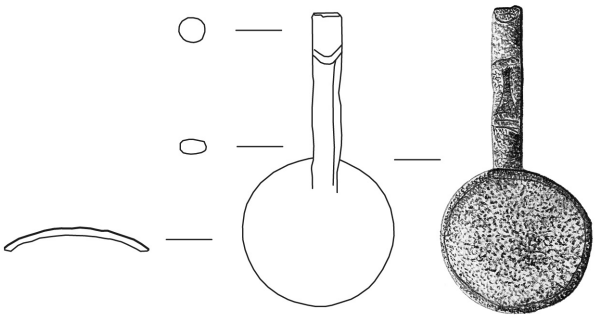


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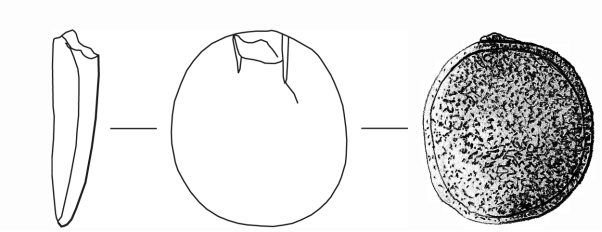
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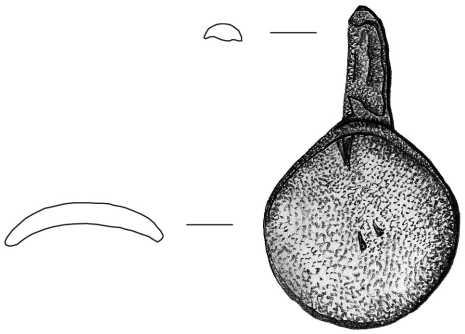
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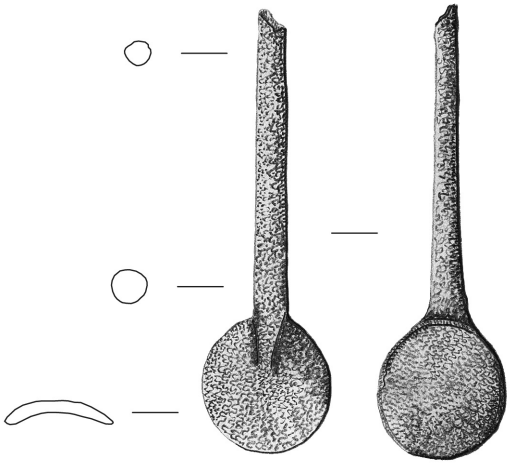
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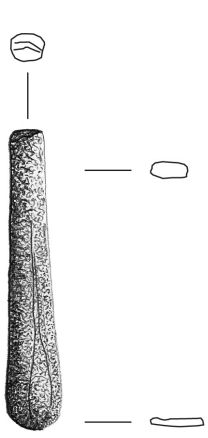
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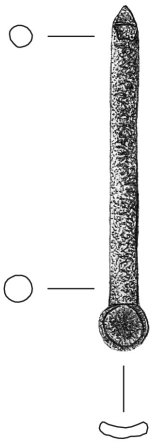
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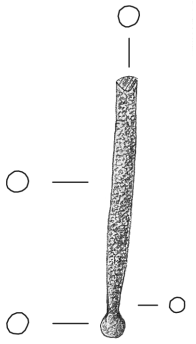
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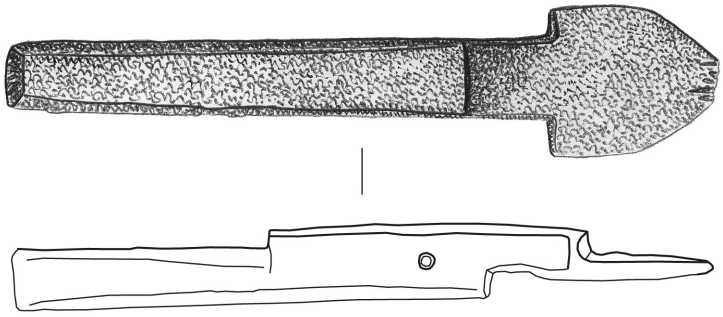
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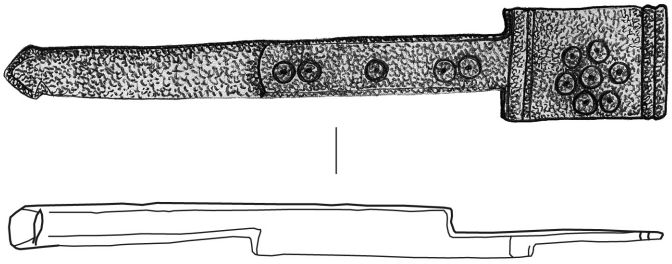
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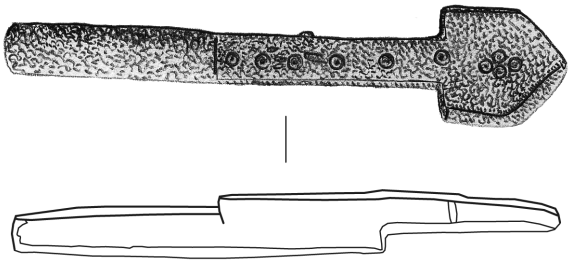
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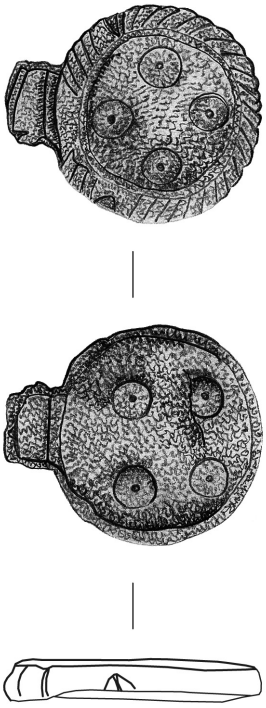
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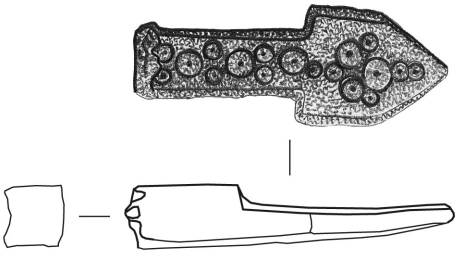
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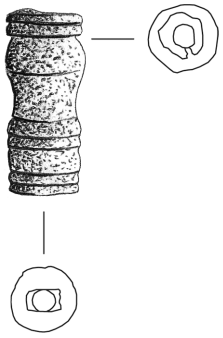
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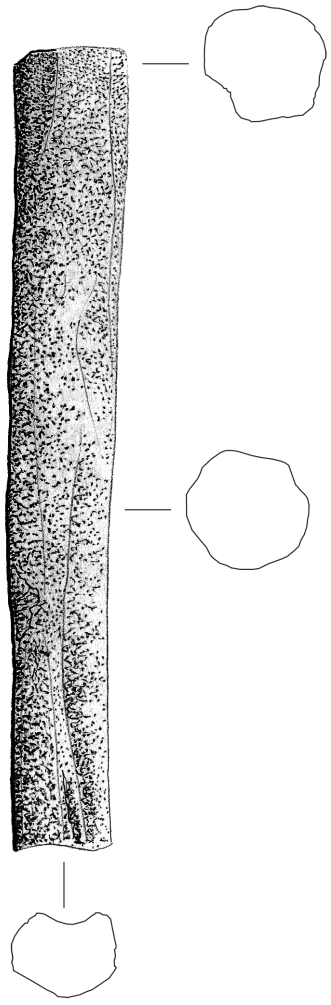
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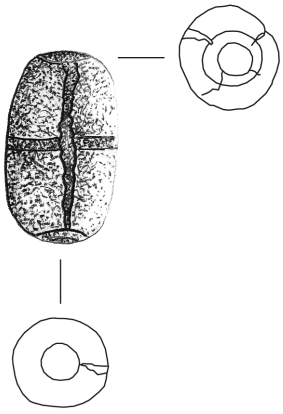
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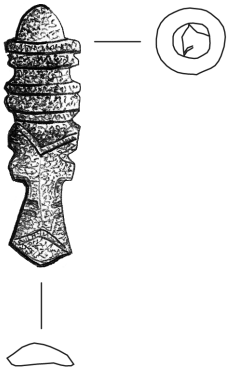
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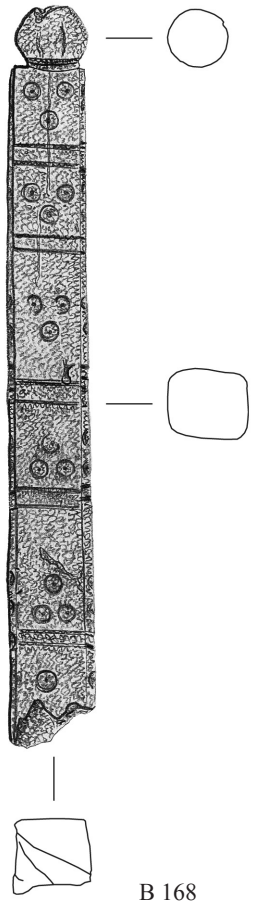
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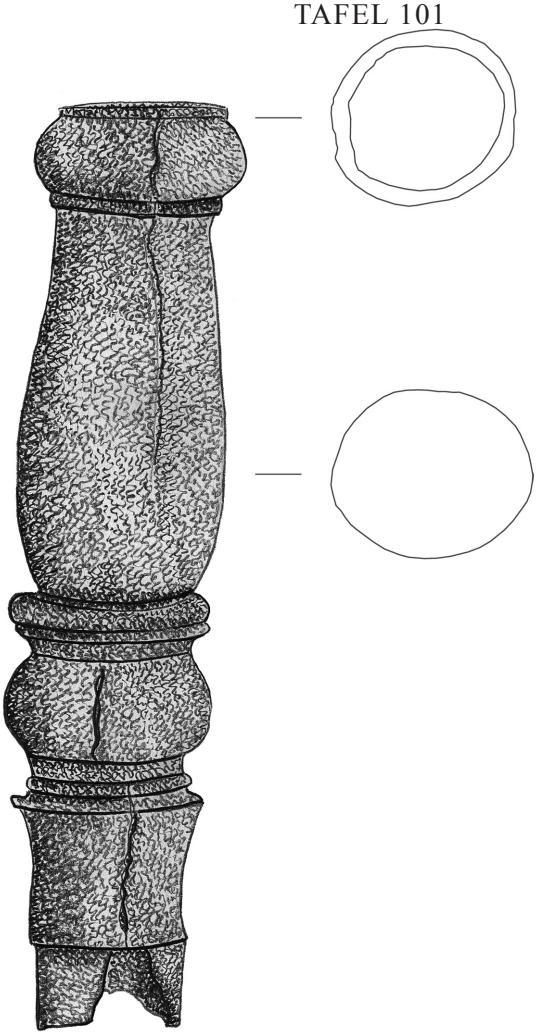
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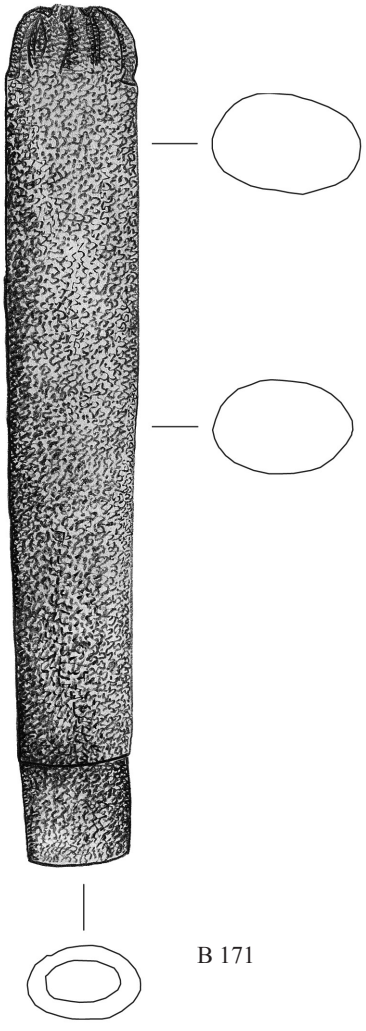
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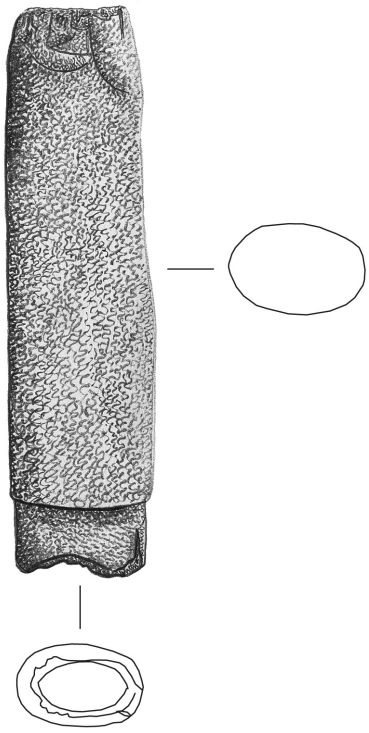
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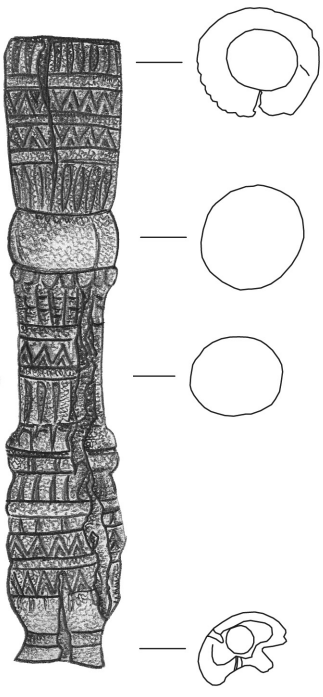
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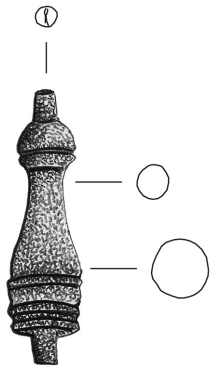


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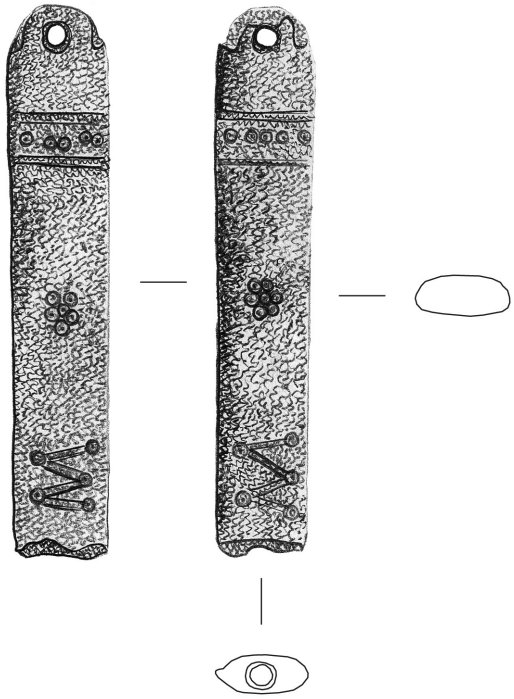


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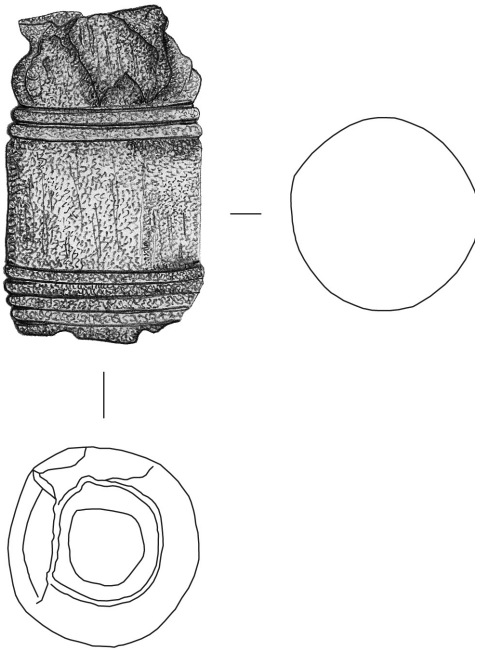
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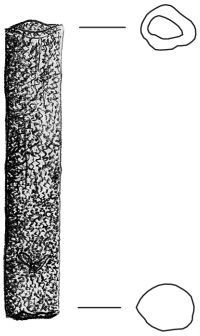
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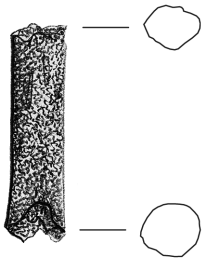
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B 176



B 180

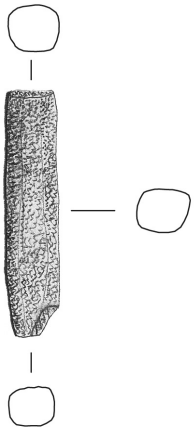




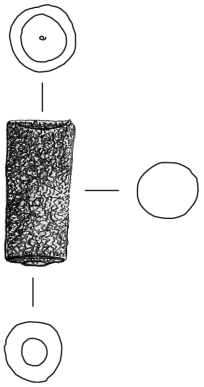
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B 182



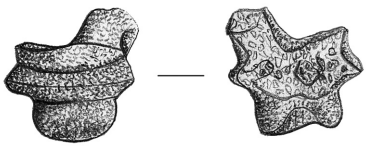
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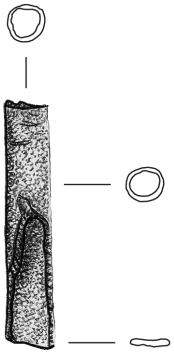
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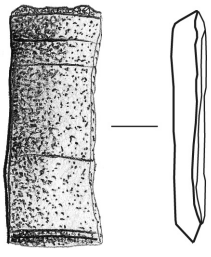
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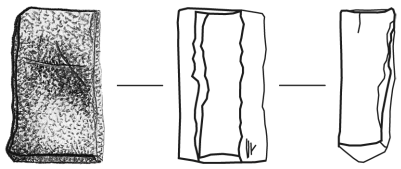
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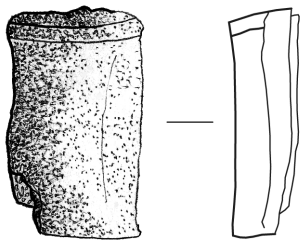
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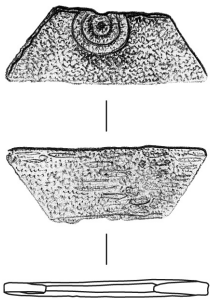
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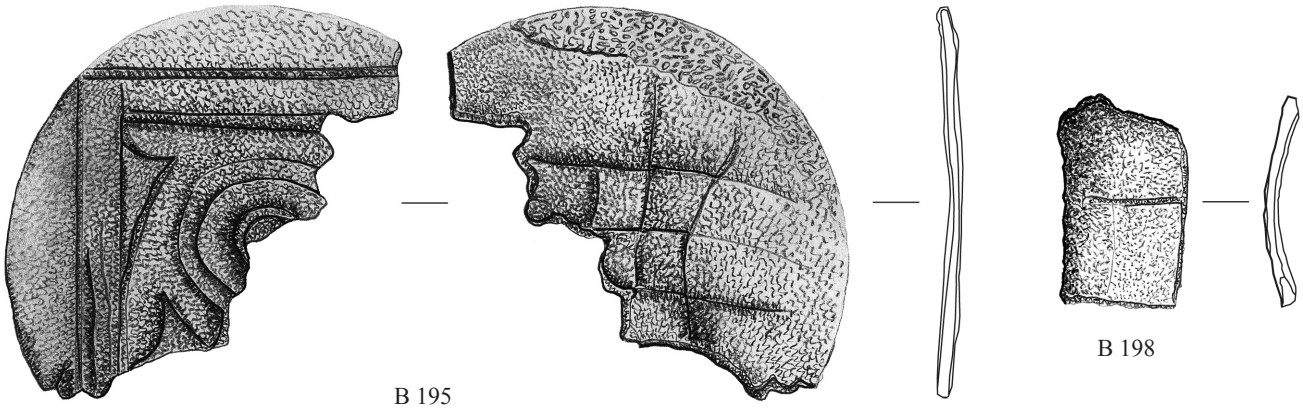
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B 193

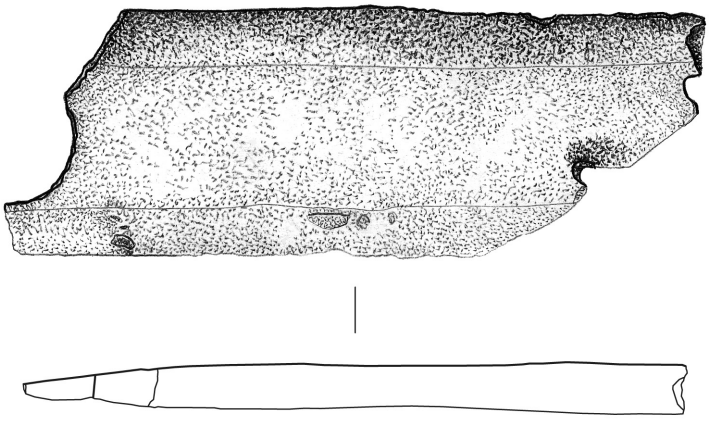


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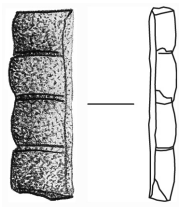


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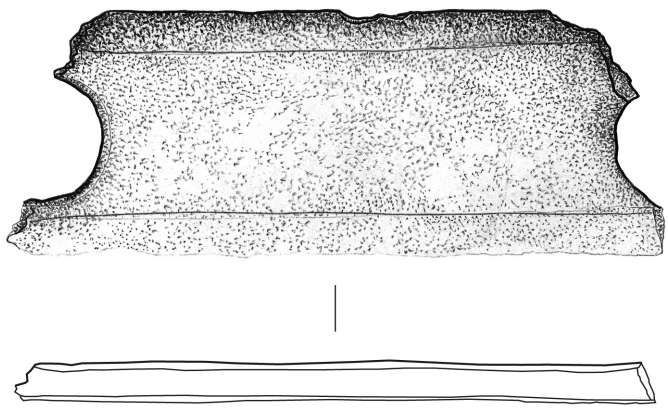
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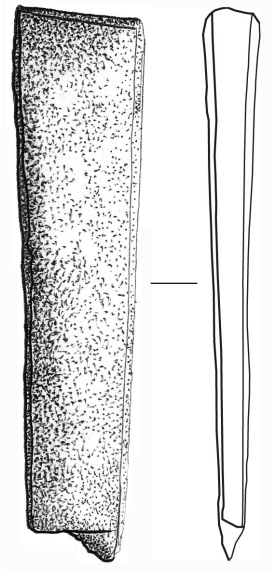
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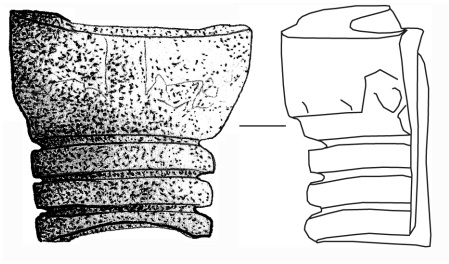


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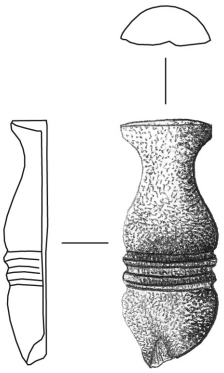


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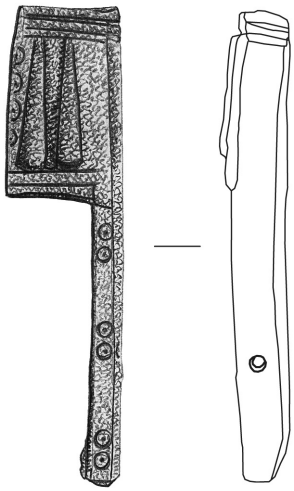
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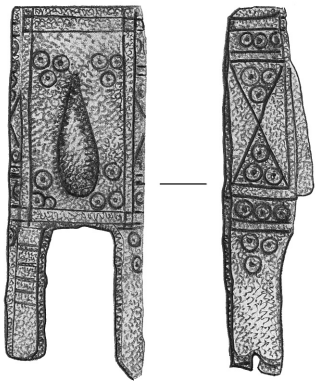
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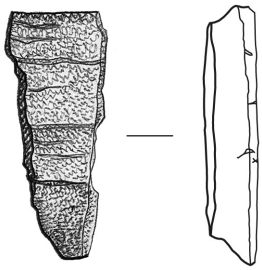
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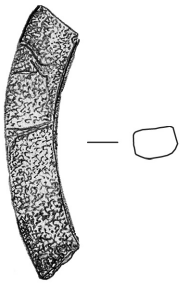
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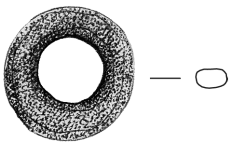
B 204



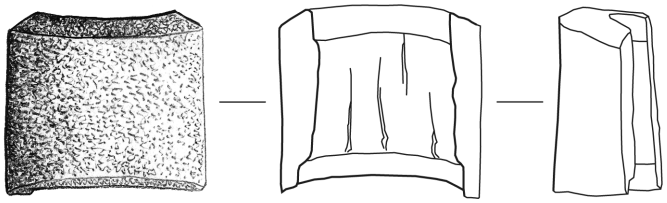
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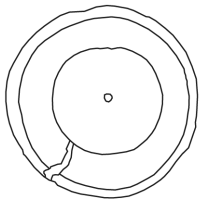


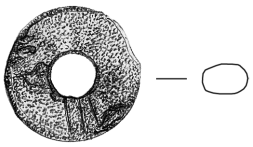
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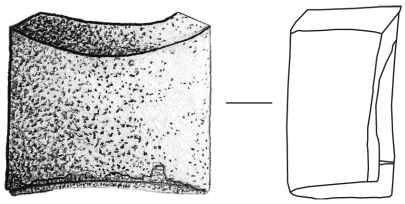
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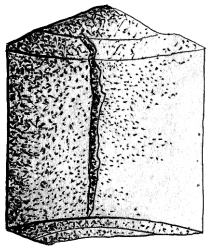


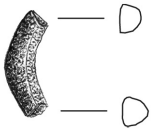


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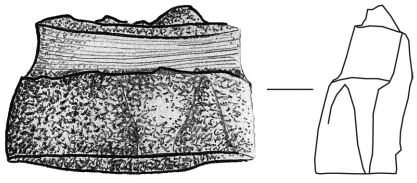


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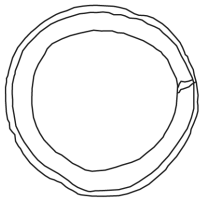




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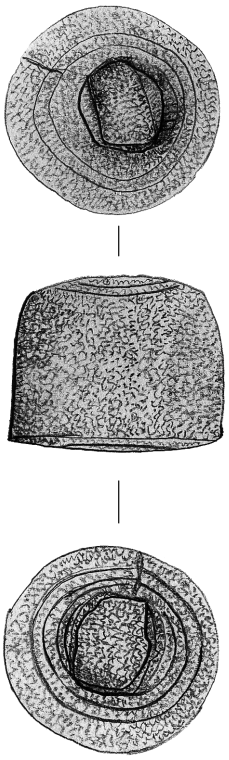
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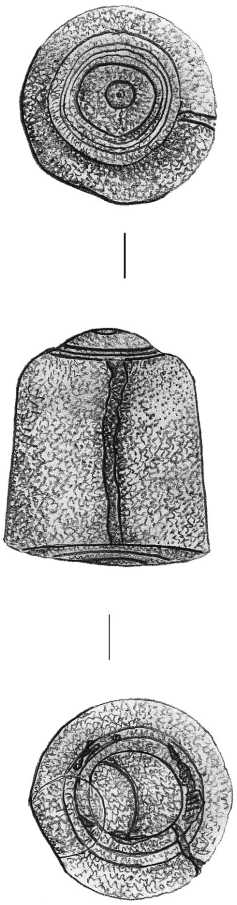
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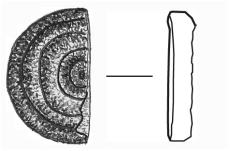
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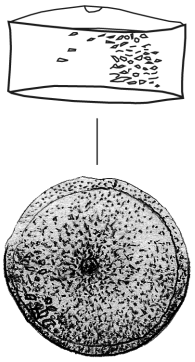
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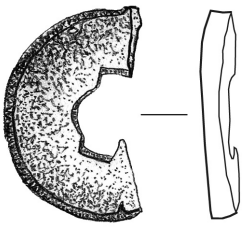
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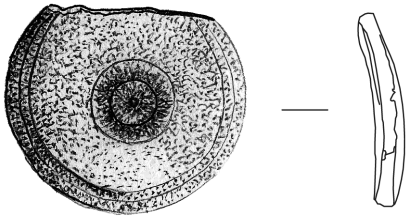
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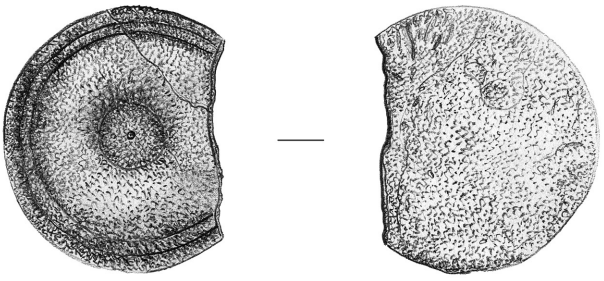
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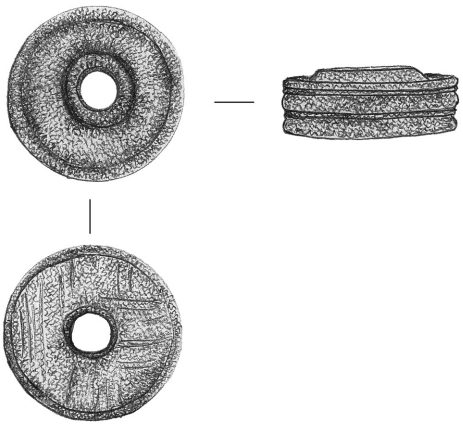
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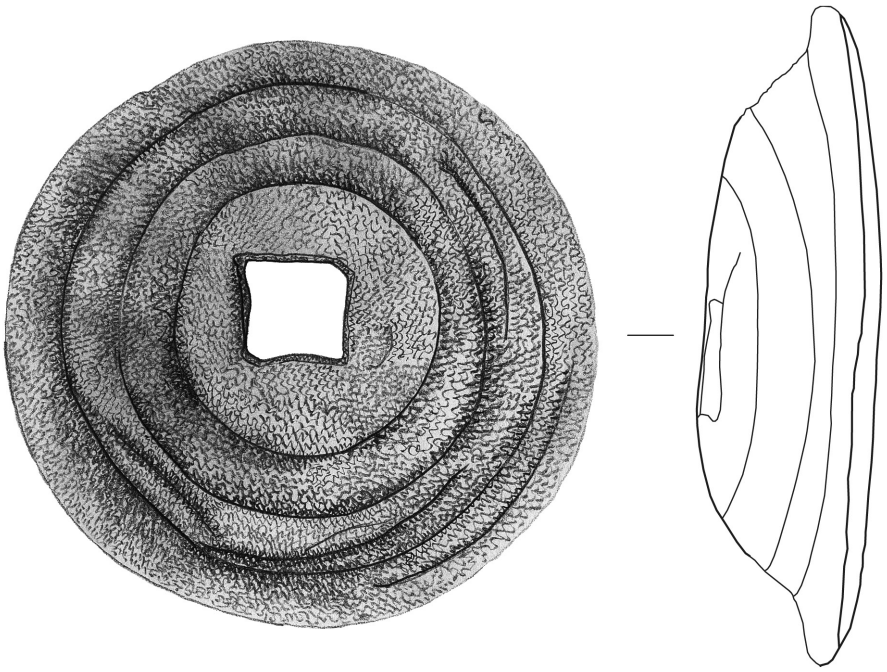
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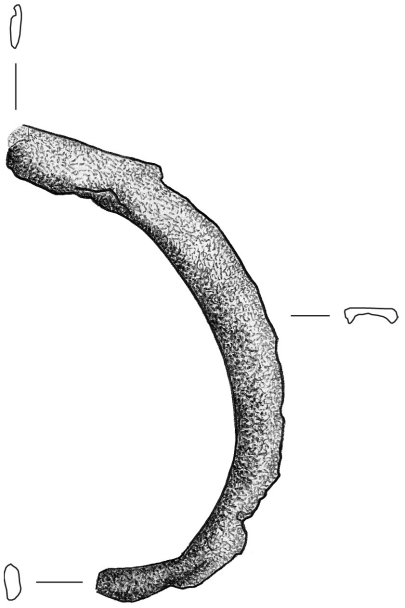
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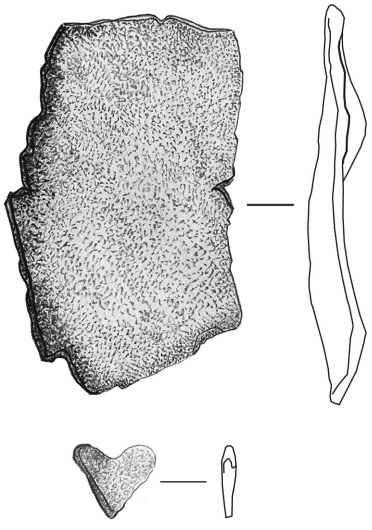
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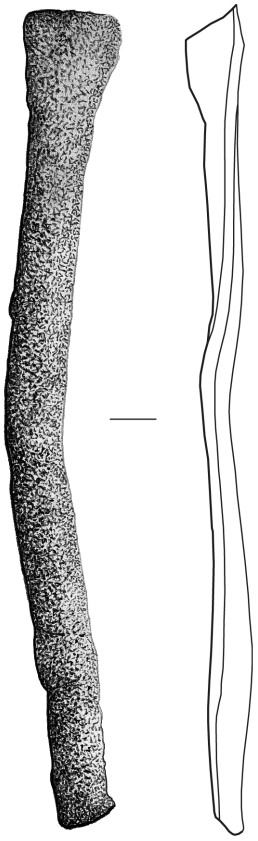
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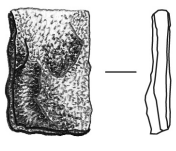
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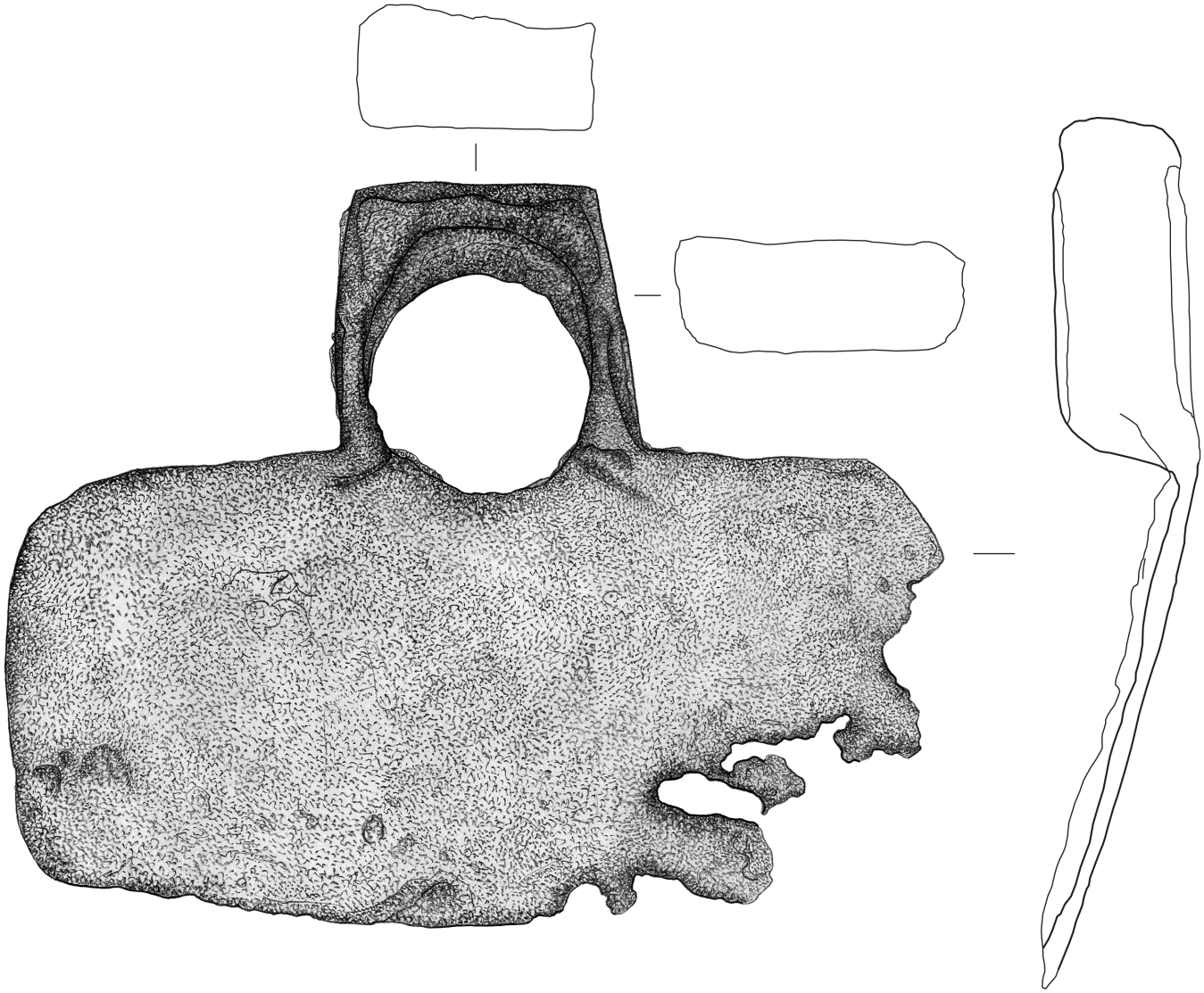
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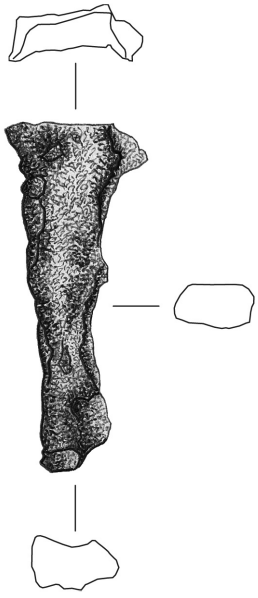
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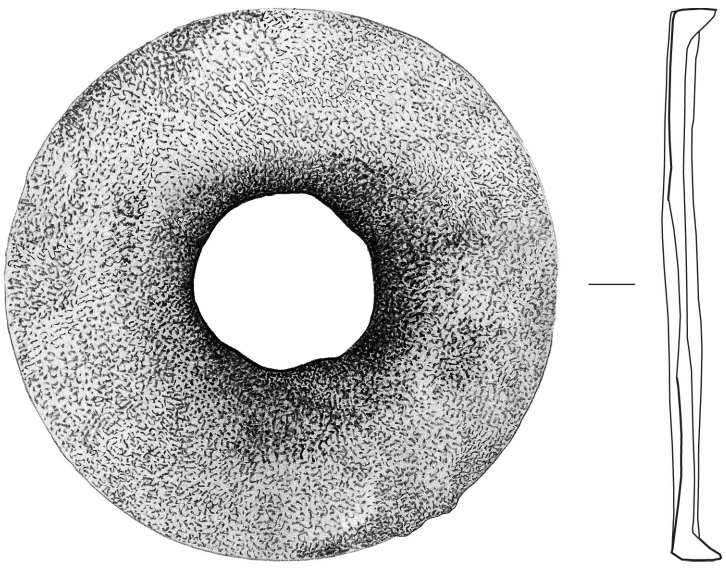
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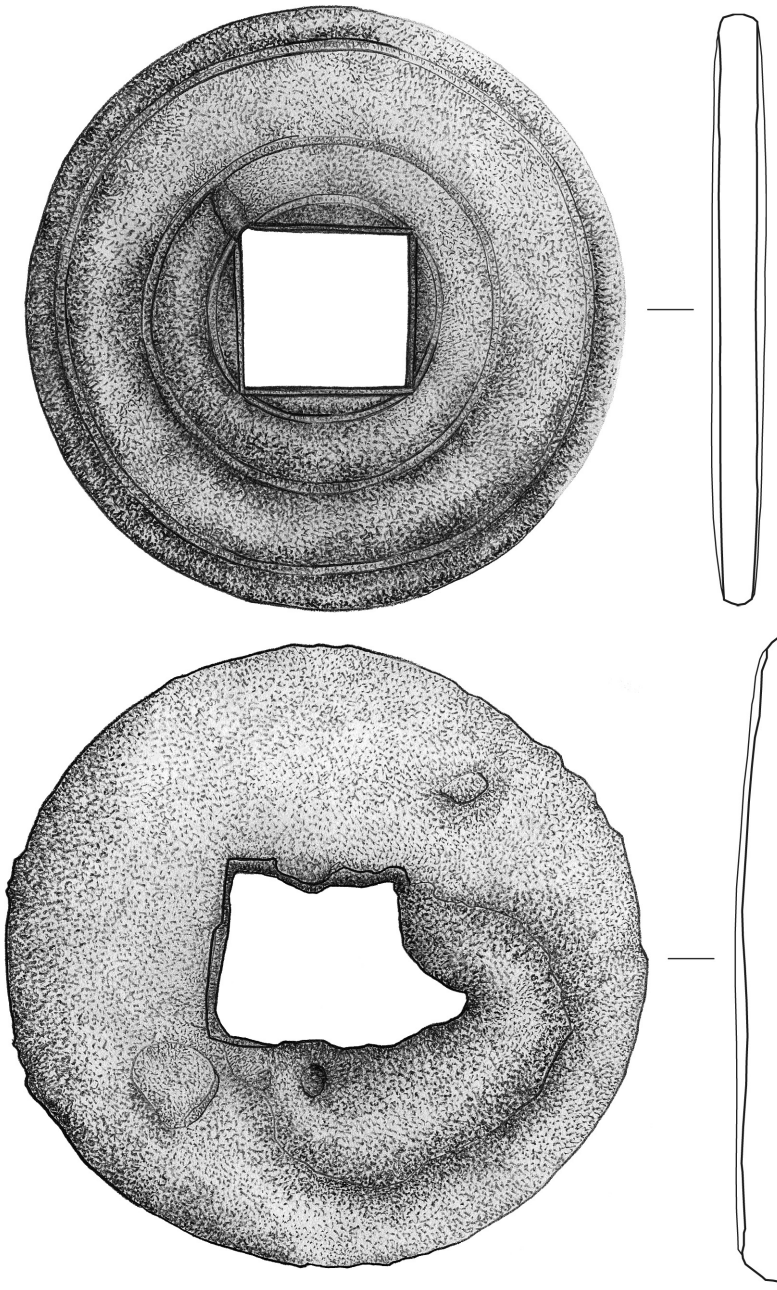
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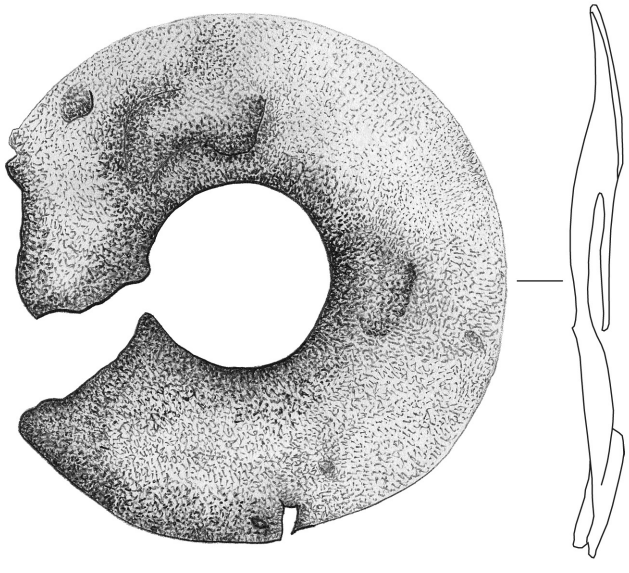
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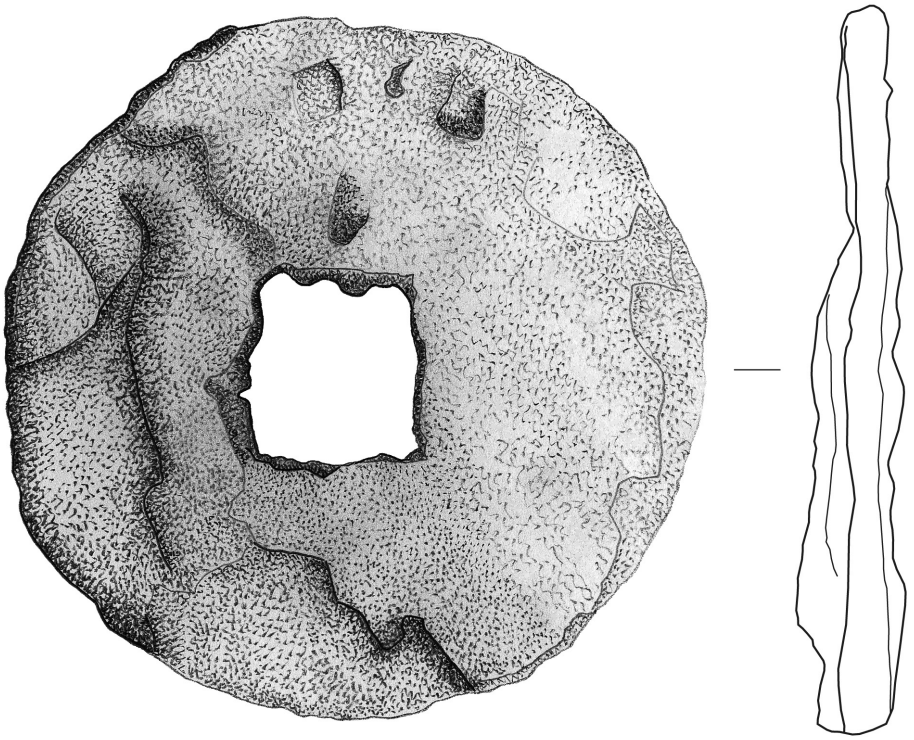
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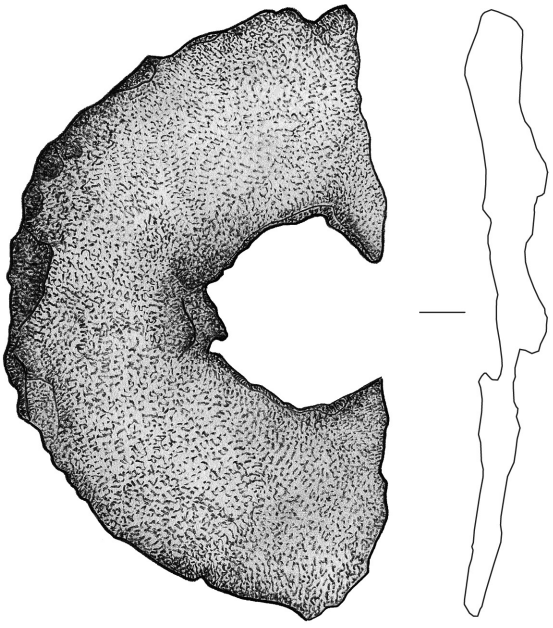
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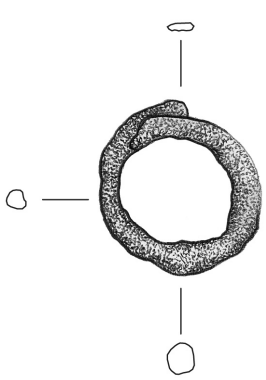
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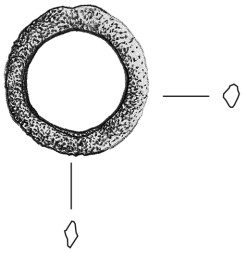
V 37



V 38



V 39



V 40



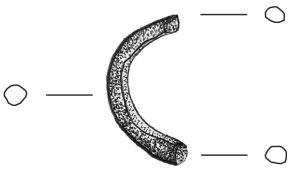
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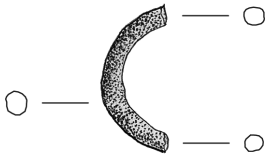
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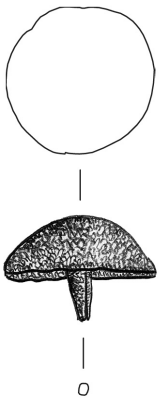
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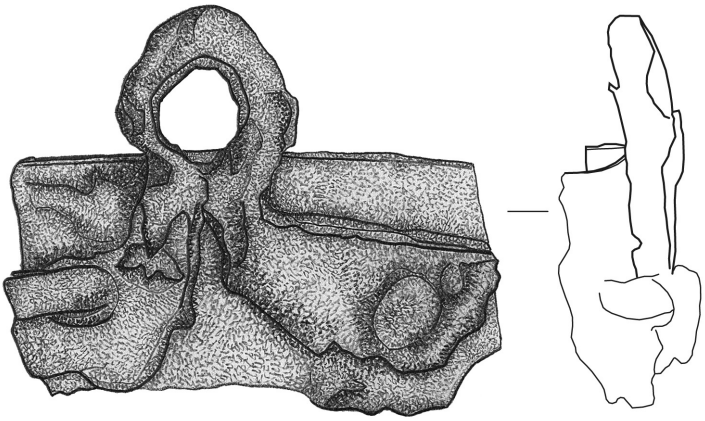
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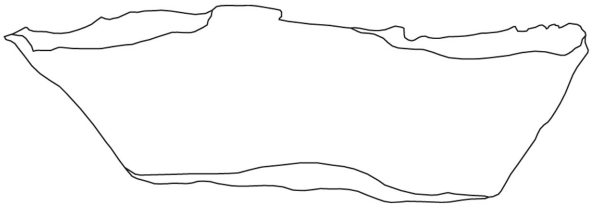
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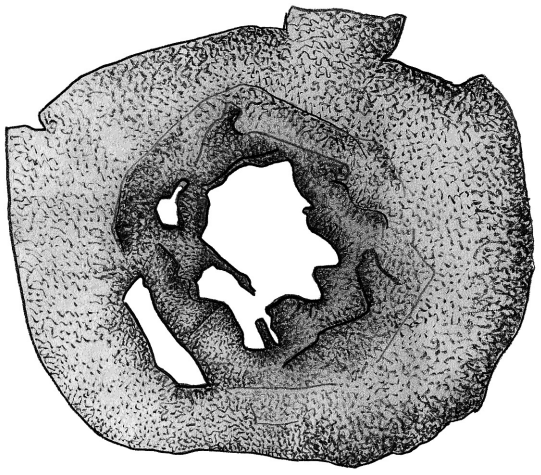


V 46

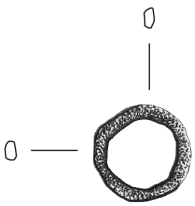


V 47

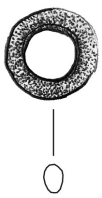




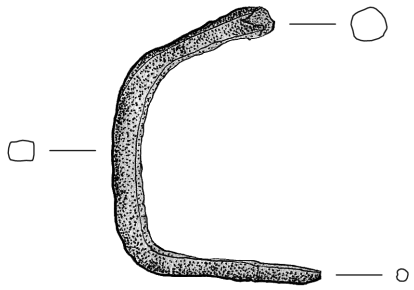
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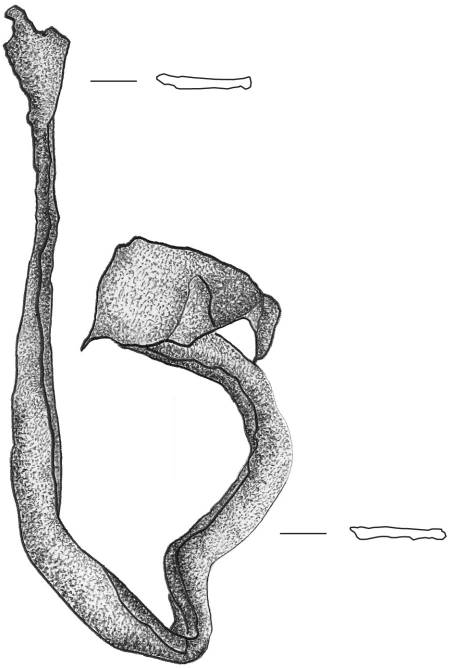
V 49



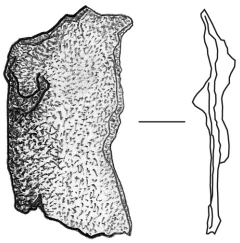
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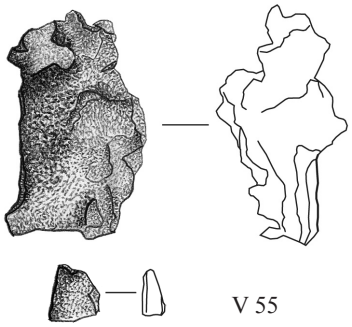
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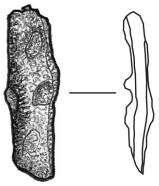
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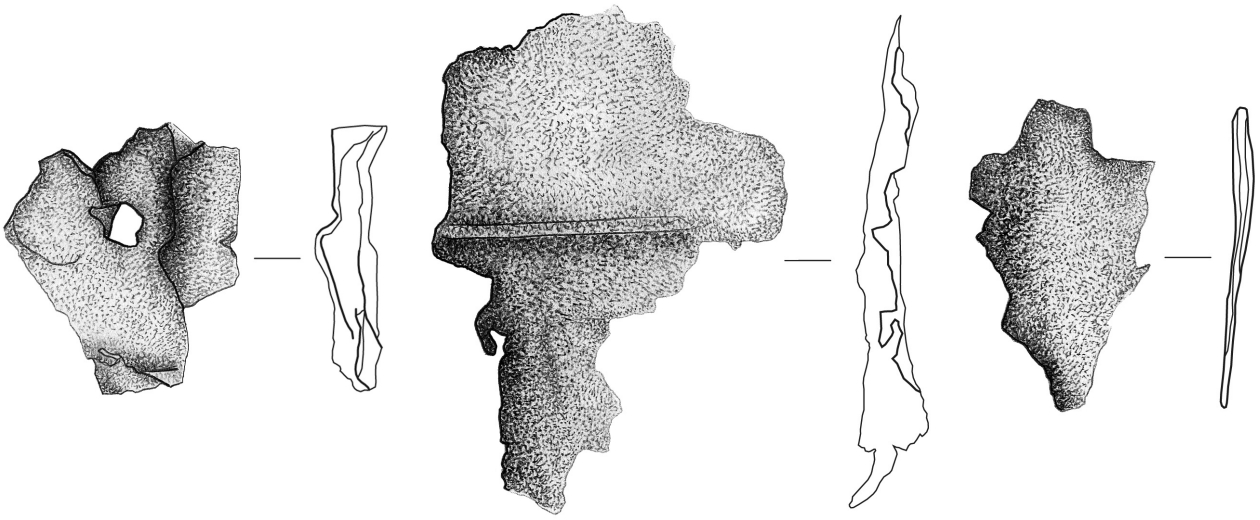
V 56



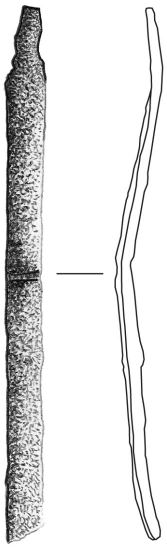
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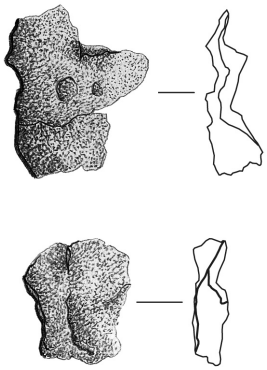
V 57



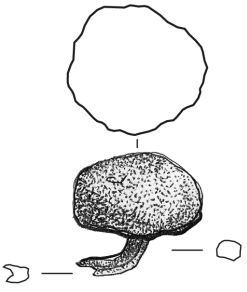
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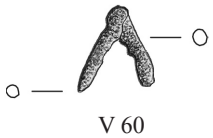
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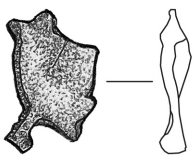
V 59



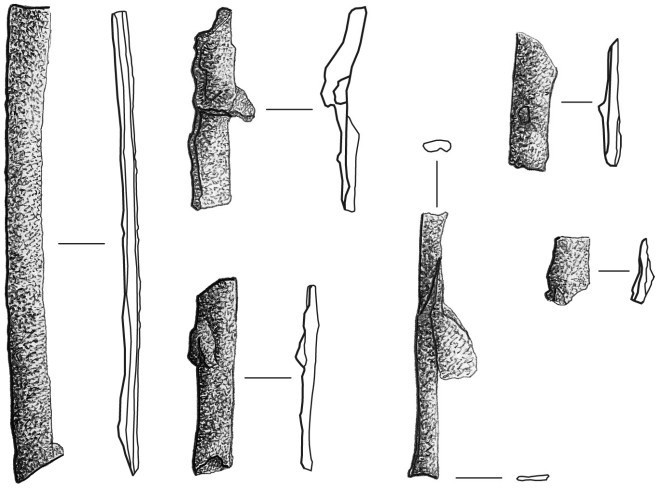
V 61



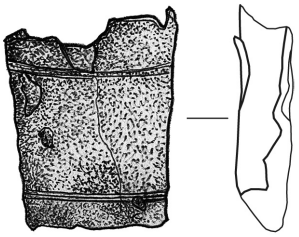
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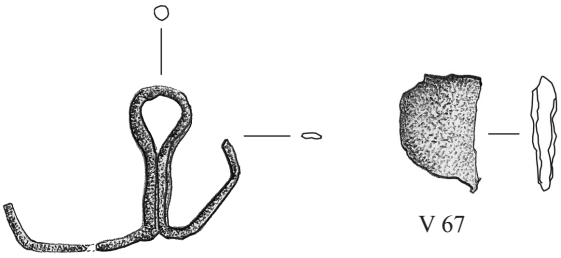
V 62



V 63

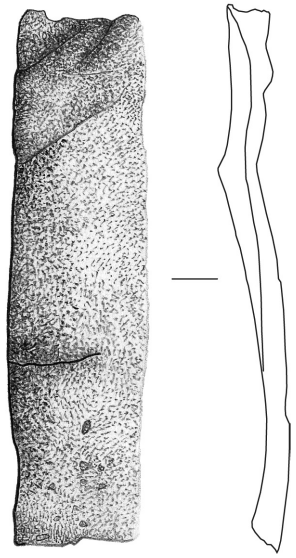


V 64

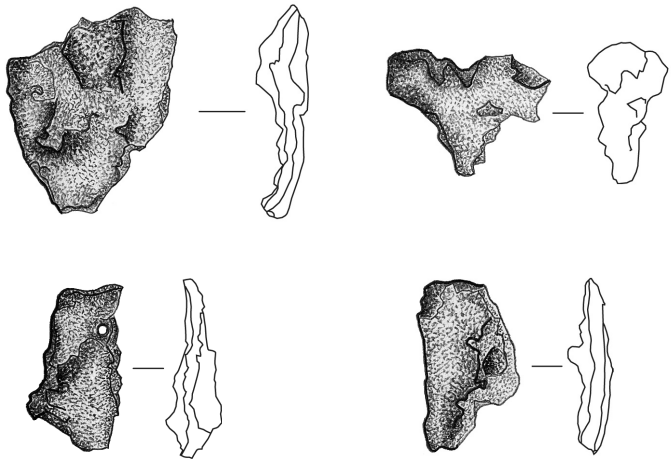


V 65

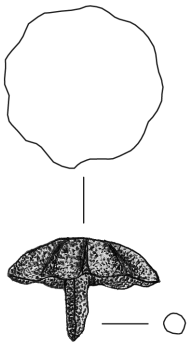
V 67



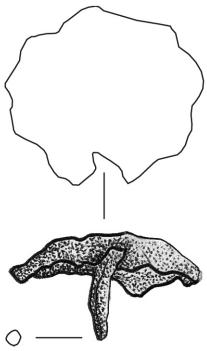
V 66



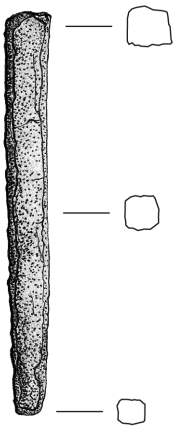
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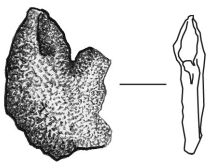
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V 71



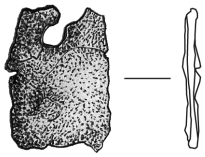
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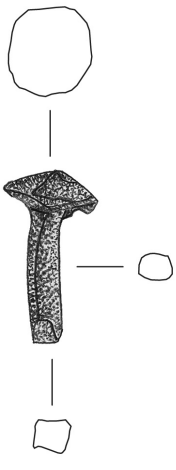
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V 75



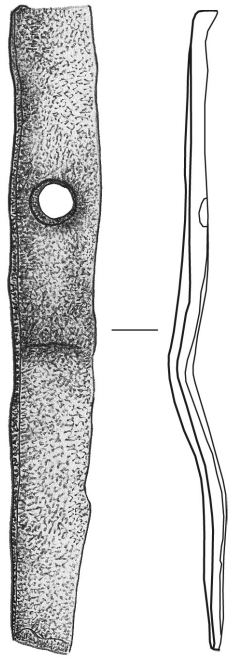
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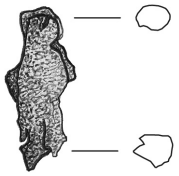
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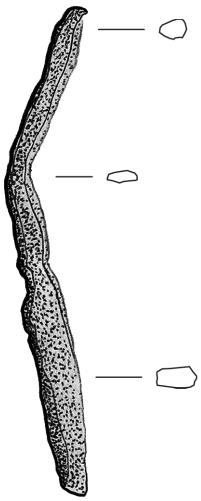
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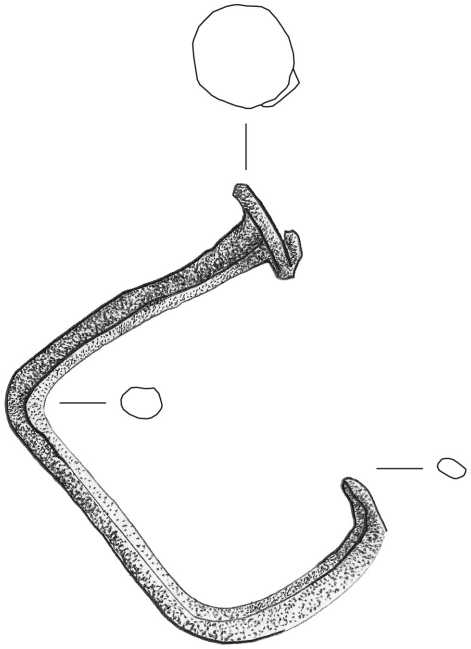
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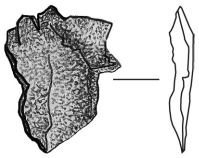
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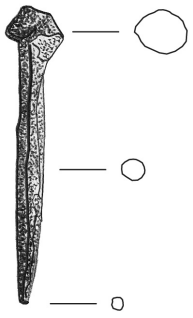
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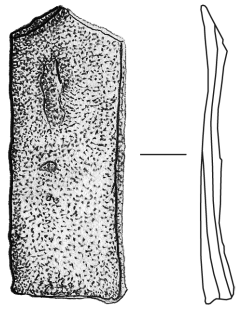
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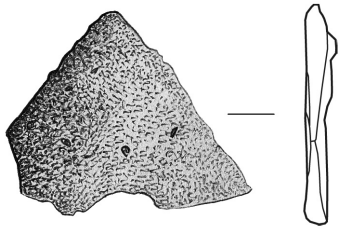
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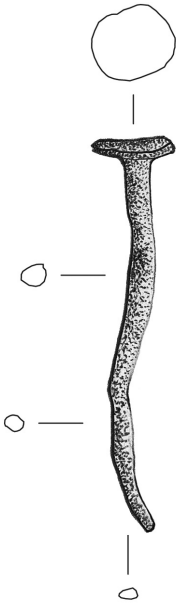
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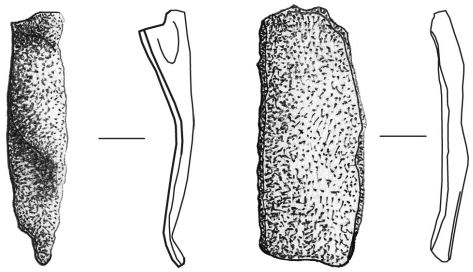
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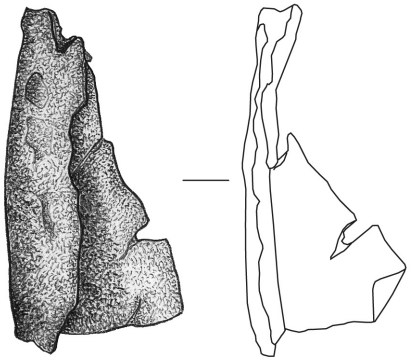
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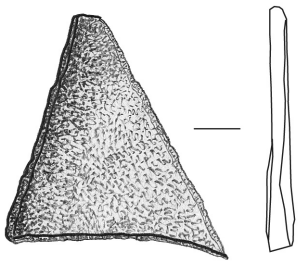
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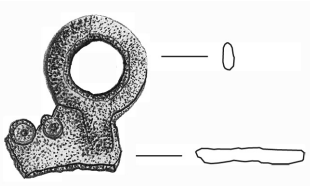
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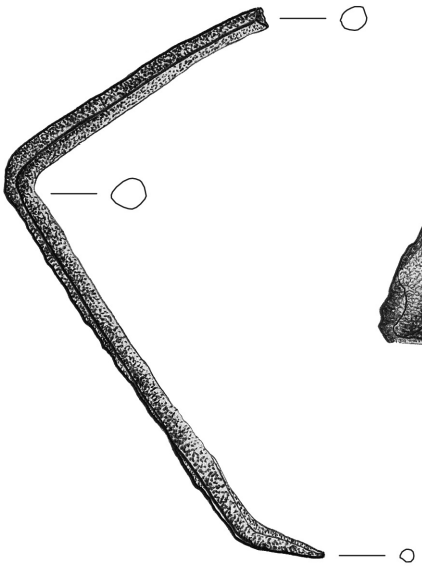
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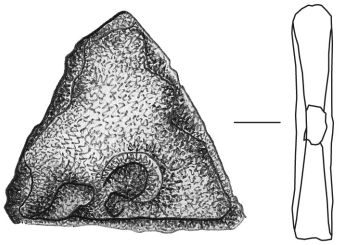
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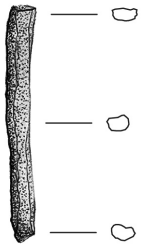
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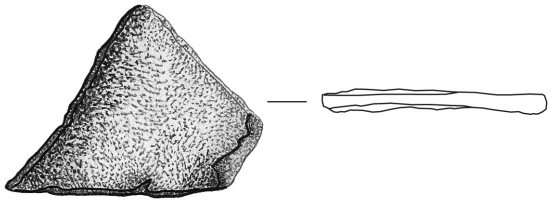
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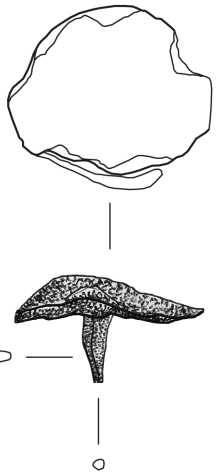
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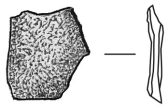
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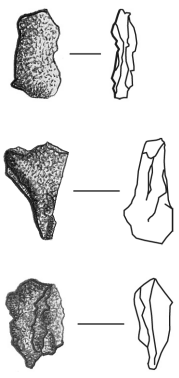
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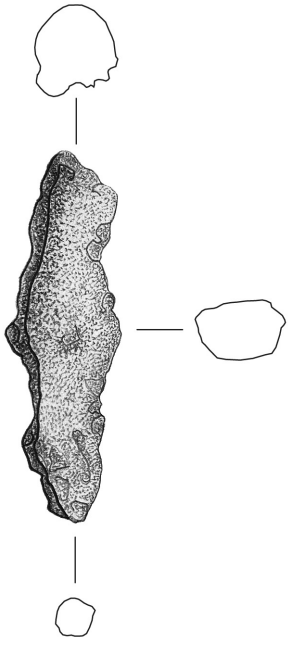
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V 97



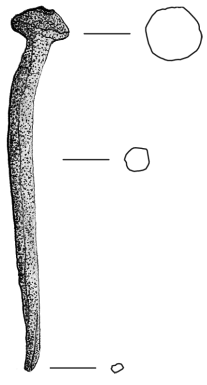
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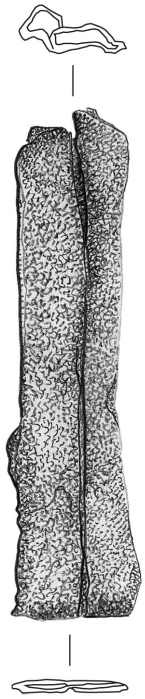
V 104



V 105



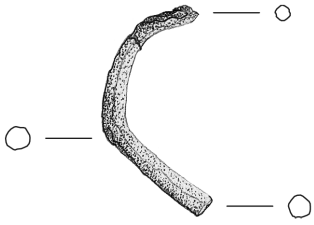
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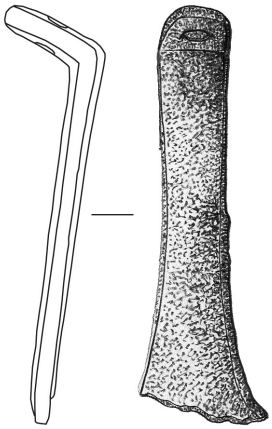
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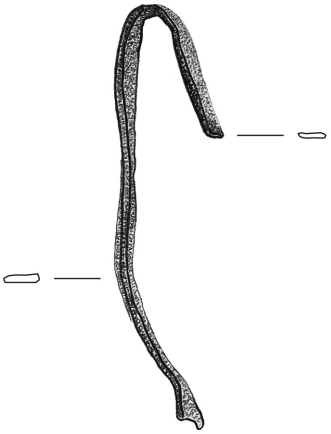
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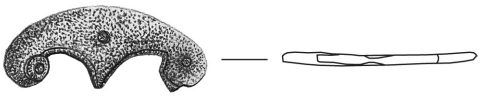
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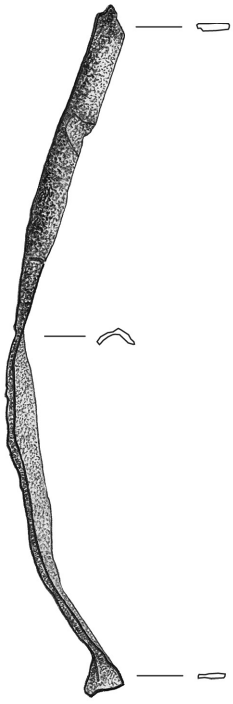
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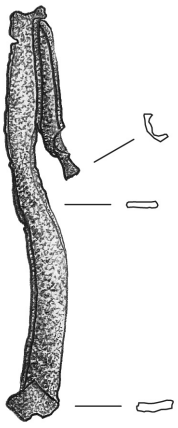
V 112



V 111



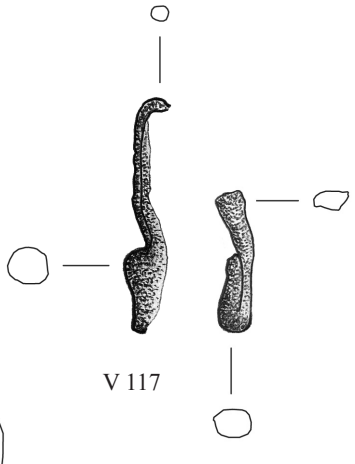
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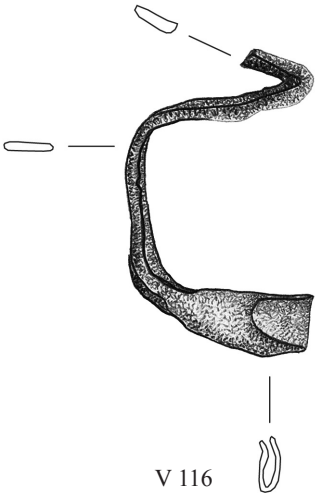
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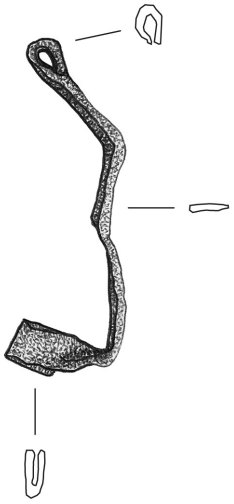
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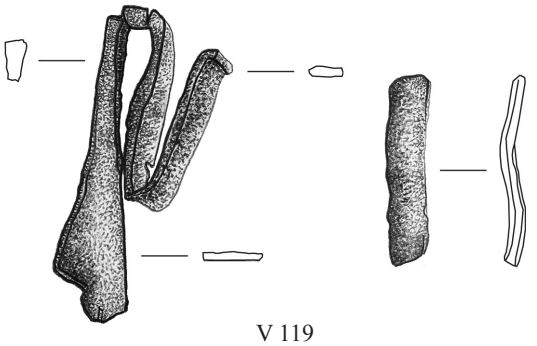
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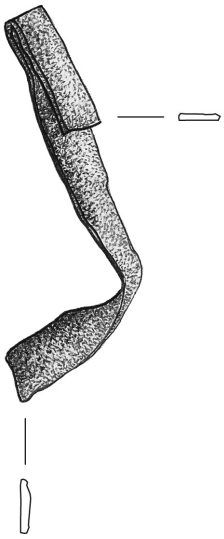
V 116



V 118



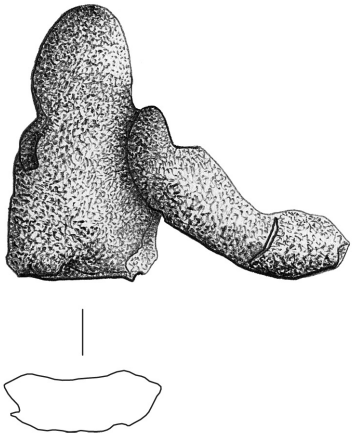
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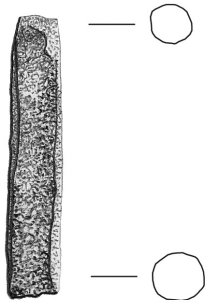
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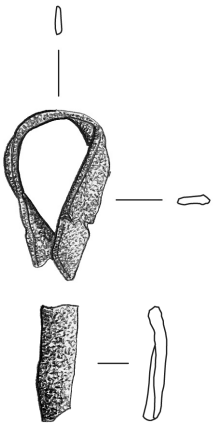
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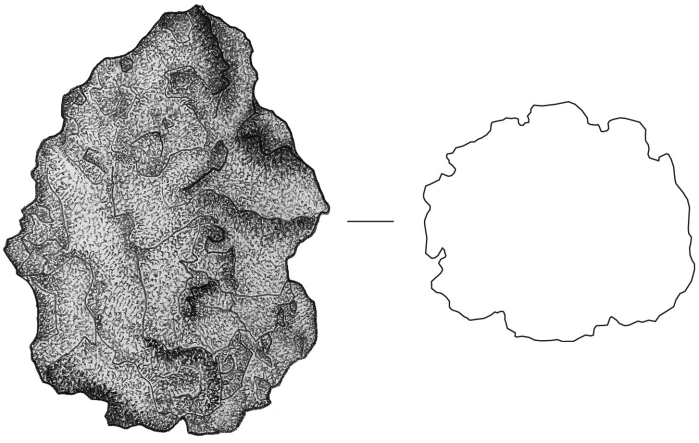
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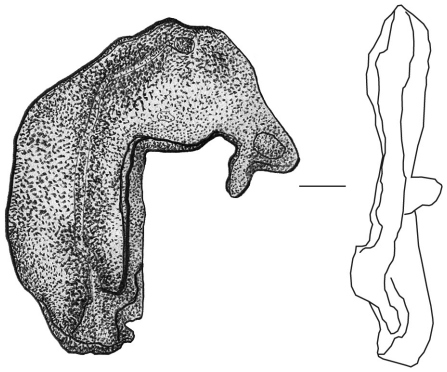
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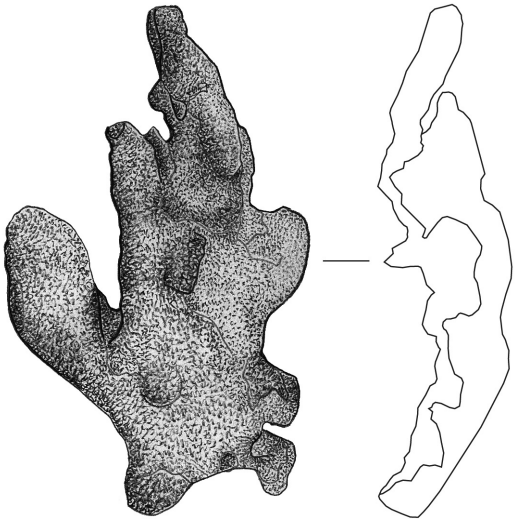
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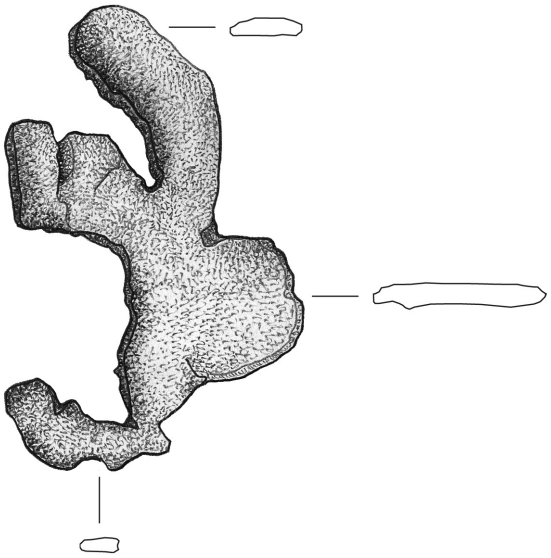
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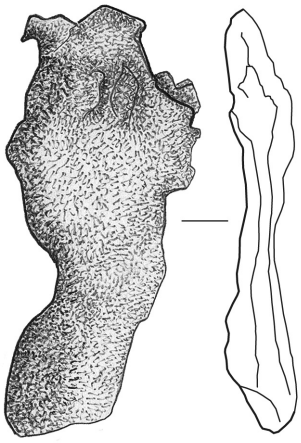
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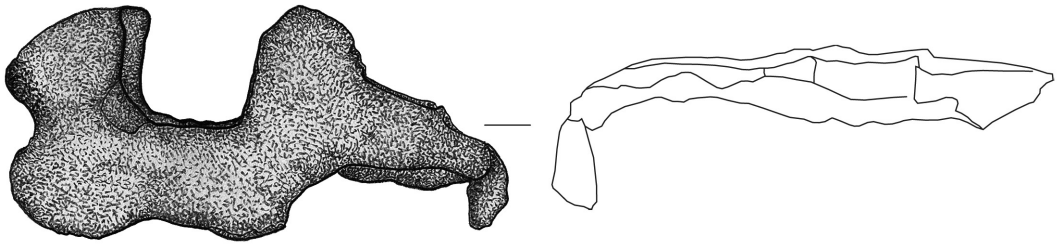
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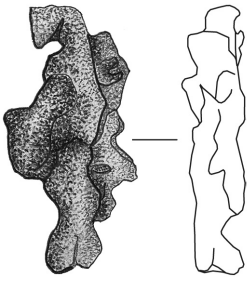
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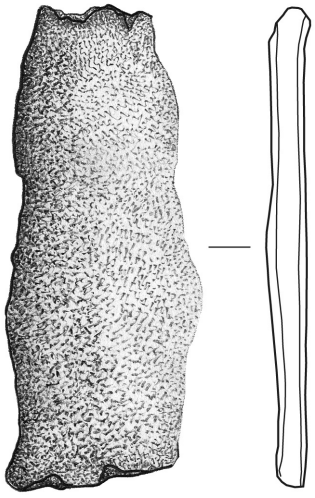
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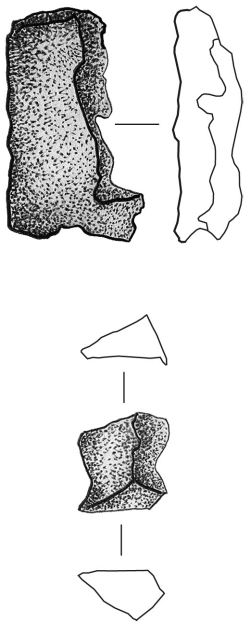
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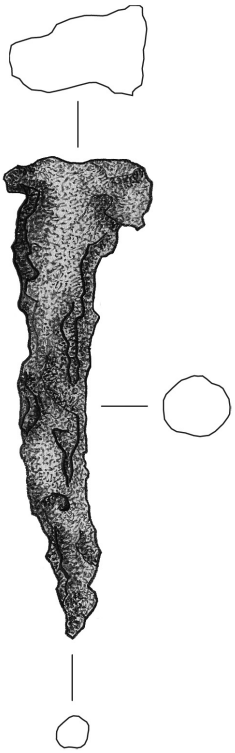
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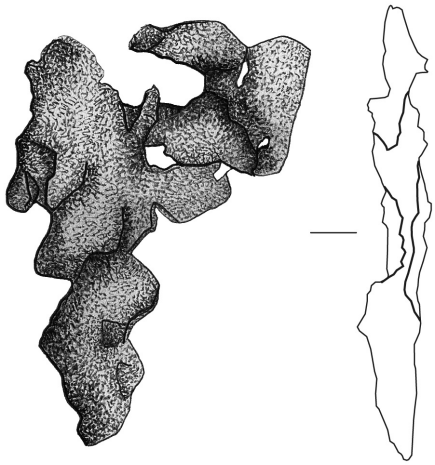
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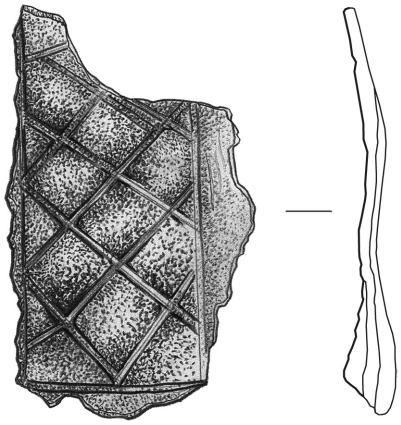
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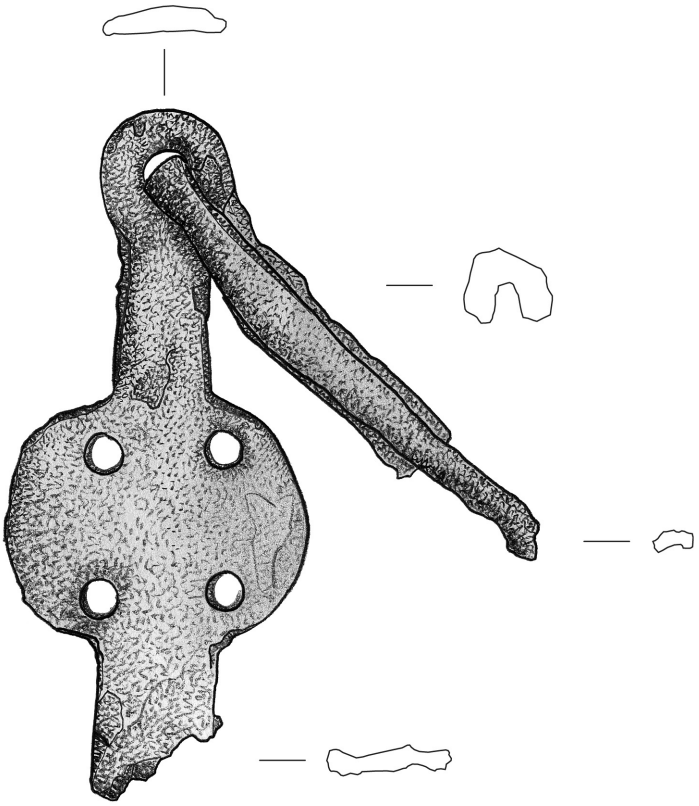
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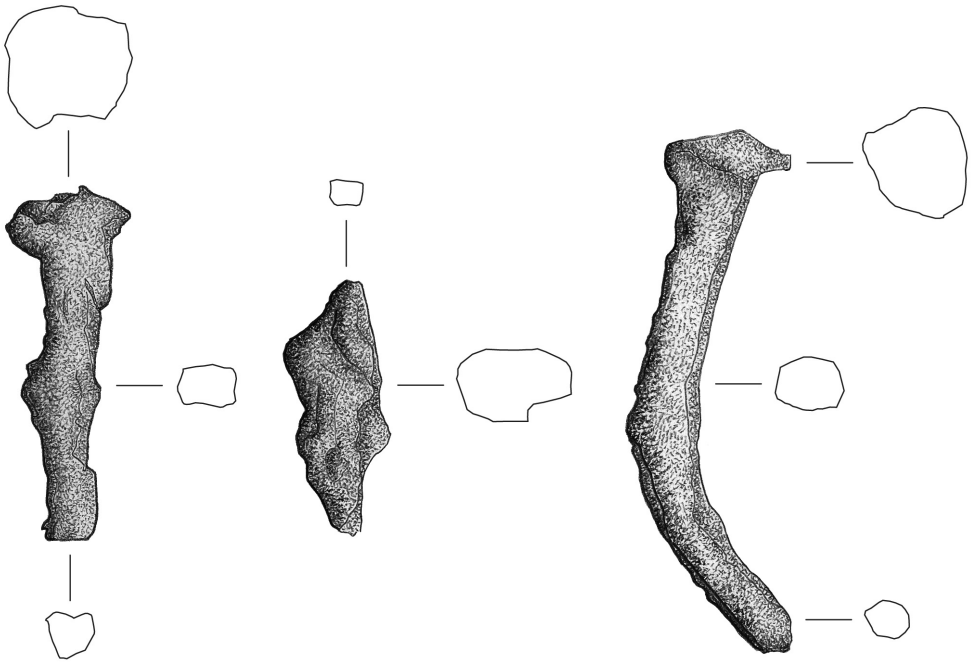
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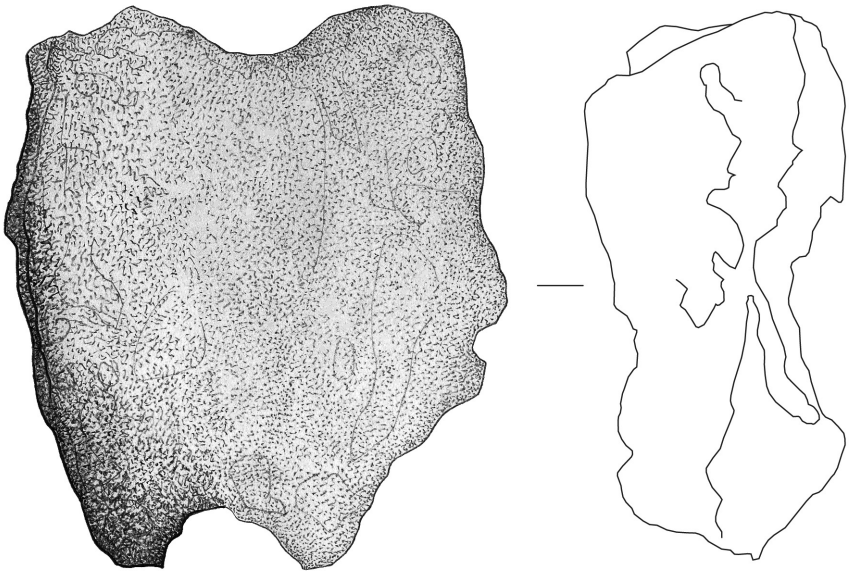


V 136

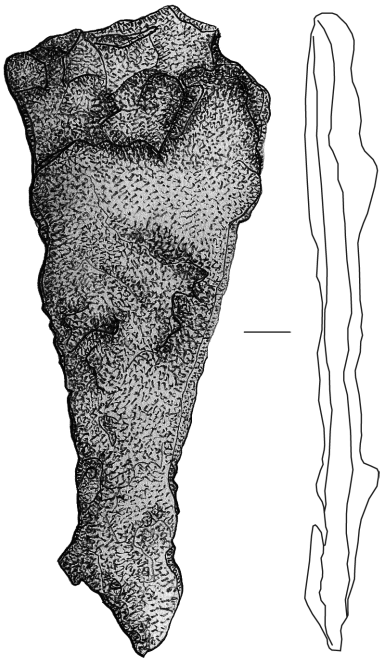


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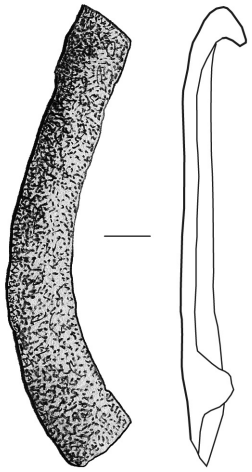




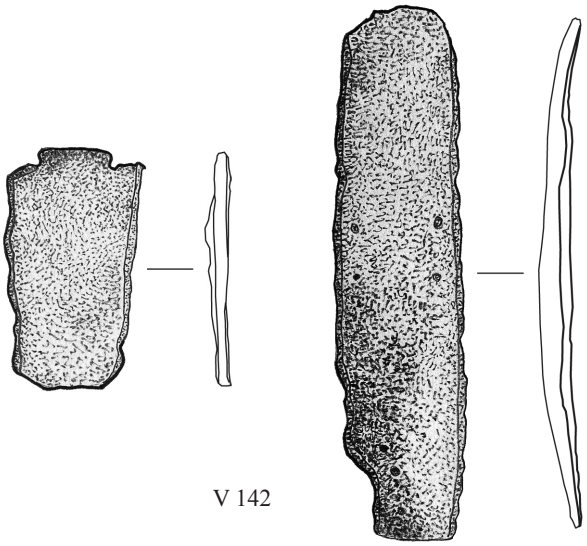
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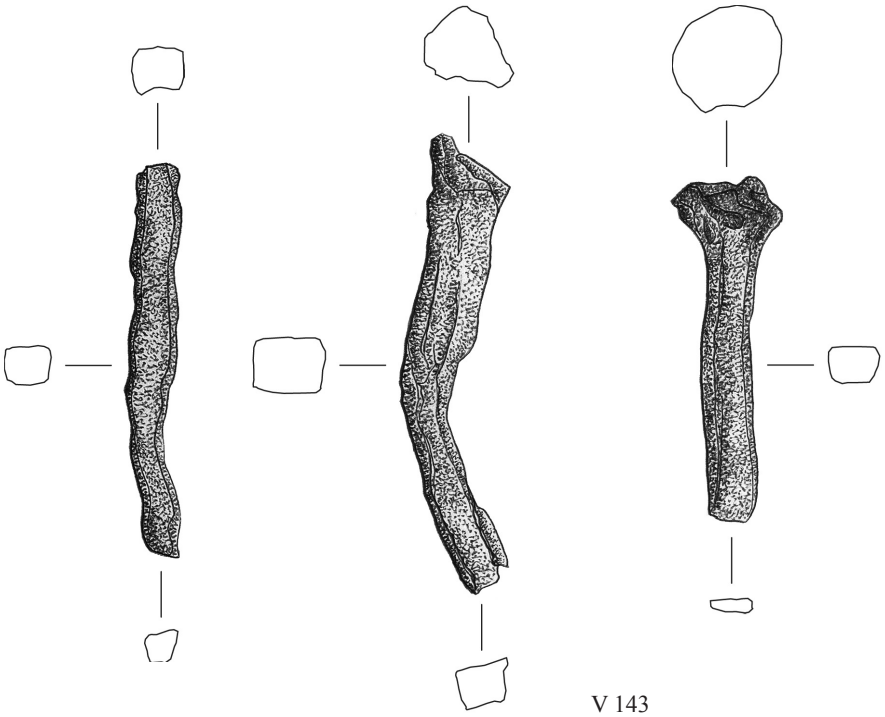
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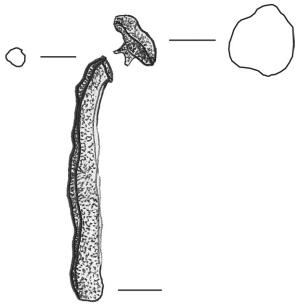
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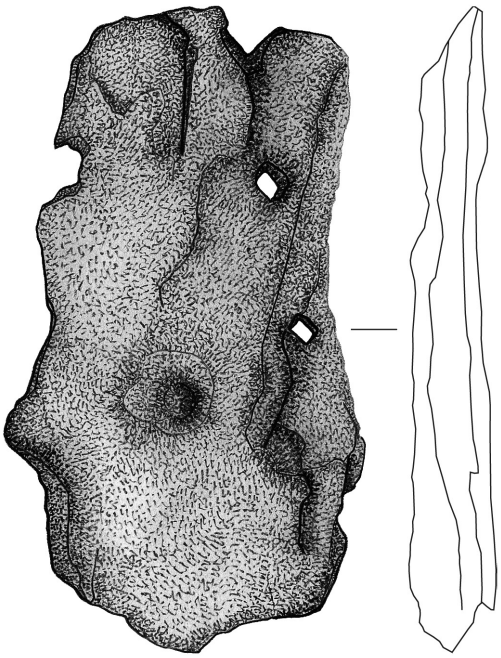
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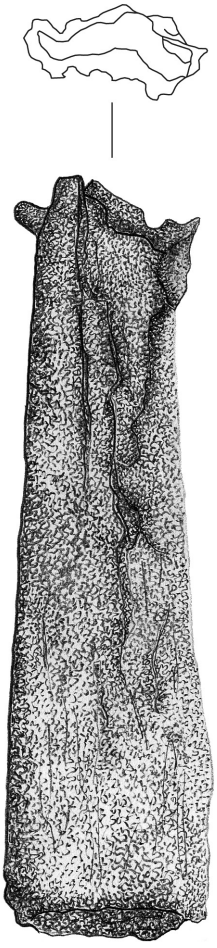
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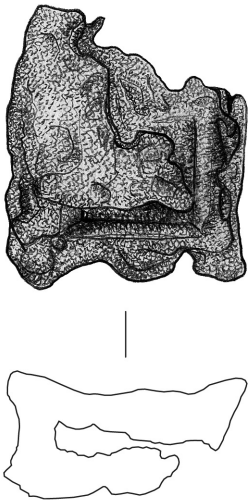


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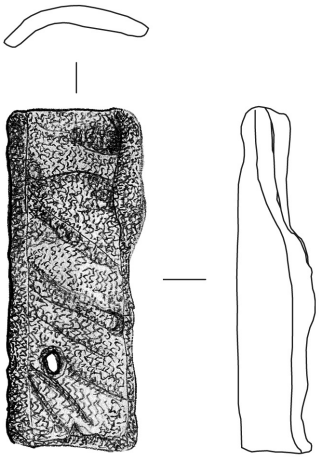


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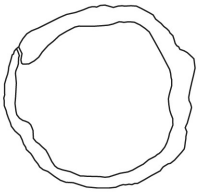
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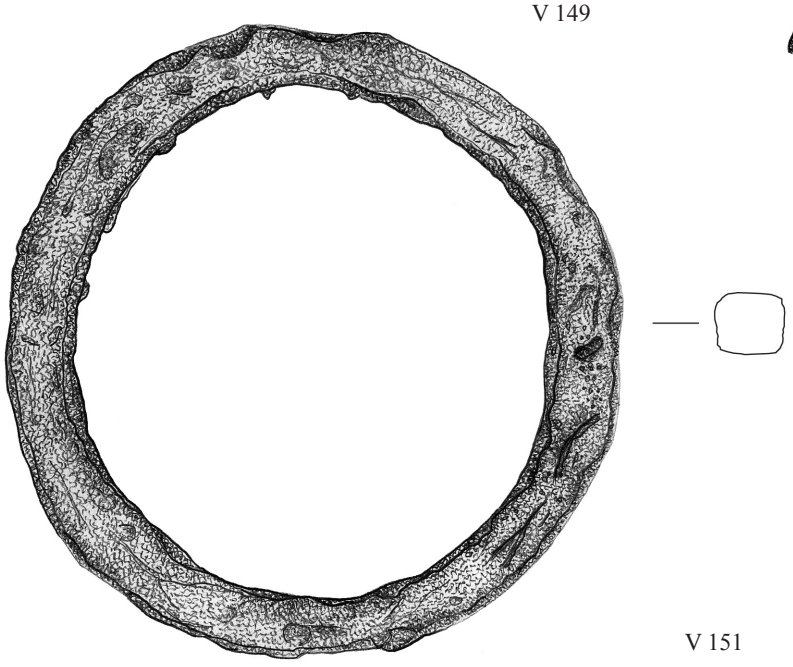
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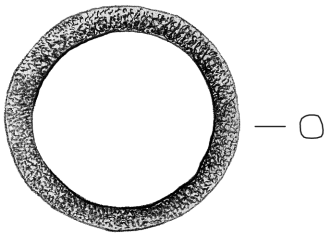
V 150



V 145

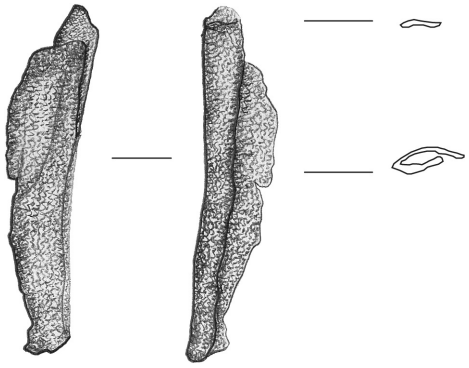


V 151

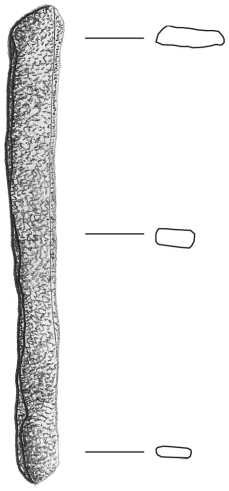


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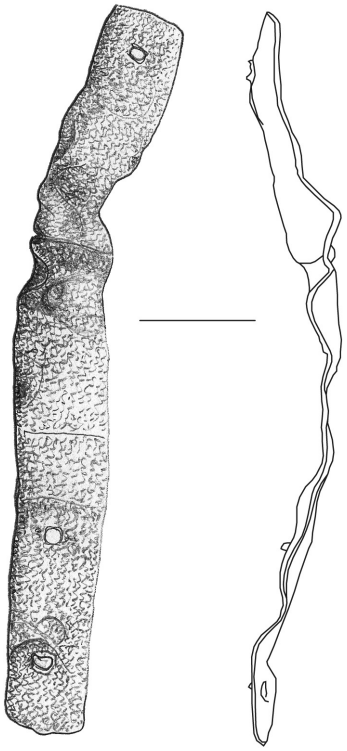
TAFEL 122



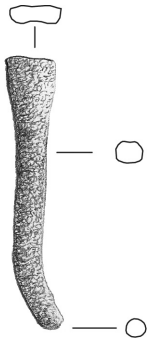
V 158



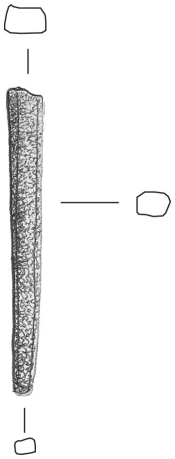
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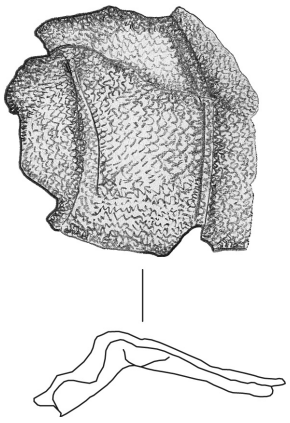
V 159



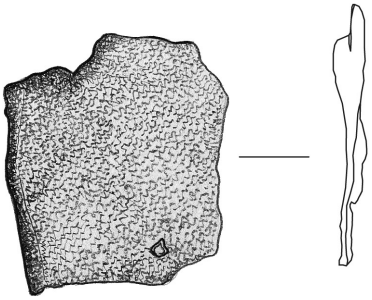
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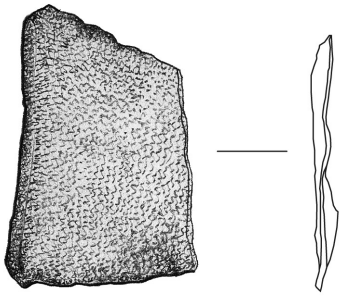


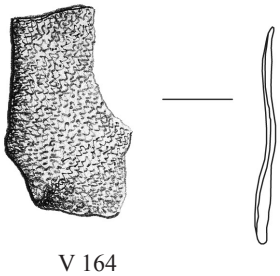
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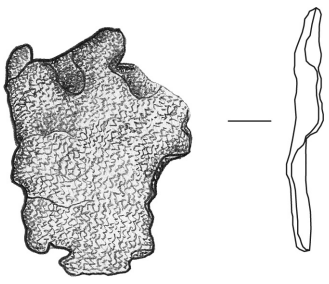
V 163



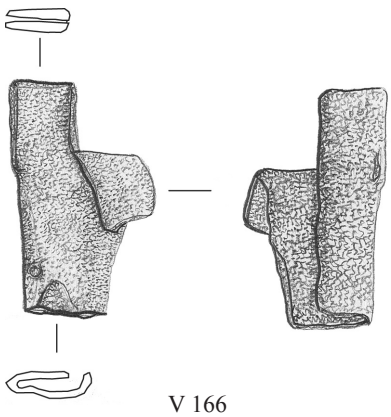




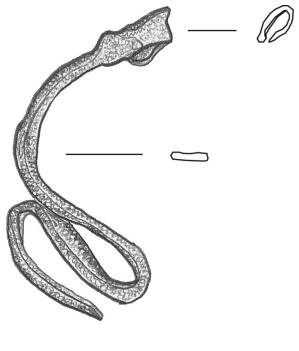
V 164



V 165



V 166



V 167

FARBTAFELN



T 1



T 2



T 3



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T 8



T 9



T 10



T 11



T 12



T 13

FARBTAFEL 2



T 14



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FARBTAFEL 4



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T 68



T 68A



T 66



T 69



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T 72



T 73

FARBTAFEL 6



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T 78



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T 83



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T 93



T 94



T 95



T 96



T 97



T 98



T 99

FARBTAFEL 8



T 100



T 101



T 102



T 103



T 104



T 105



T 107



T 106



T 108



T 109



T 110



T 111



T 113



T 118

FARBTAFEL 10



T 119



T 120



T 121



T 122



T 123



T 124



T 125



T 126



T 127



T 128



T 129



T 130



T 137



S 1



S 2



S 3



S 4



S 5



S 6



S 7



S 8



S 9



S 10



S 11



S 12



S 13



S 14



S 15



S 16



S 17



S 18



S 19



S 20



S 21



S 22



S 23



S 24



S 25



S 26



S 27



S 28



S 29



S 30



S 31



S 32



S 33



S 34



S 35



S 36



S 37



S 38

FARBTAFEL 14



S 39



S 40



S 41



S 42



S 43



S 44



S 45



S 46



S 47



S 48



S 49



S 50



S 51



S 52



S 53



S 54



S 55



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S 57



S 58



S 59



S 60



S 61



S 62



S 63

FARBTAFEL 18



S 64



S 65



S 66



S 67



S 68



S 69



S 70



S 71



S 72



S 73



S 74 S 75 S 76 S 77 S 78



S 79 S 80 S 81 S 82 S 83



S 84 S 85 S 86 S 87 S 88

FARBTAFEL 20



S 89 S 90 S 91 S 92



S 93 S 94 S 95 S 96 S 97



S 98 S 99 S 100 S 101 S 102




S 103




S 104




S 105




S 106




S 107




S 108




S 109




S 110




S 111




S 112




S 113




S 114




S 115




S 116




S 117

FARBTAFEL 22



S 118 S 119 S 120 S 121 S 122



S 123 S 124 S 125 S 126 S 127



S 128 S 129 S 130 S 131 S 132



S 133 S 134 S 136 S 137 S 138



S 139 S 140 S 141 S 142 S 143



S 144 S 145 S 146 S 147 S 148

FARBTAFEL 24



S 149



S 150



S 151



S 152



S 153





S 154





S 155





S 156





S 157





S 158





S 159



o. M.

S 160





S 161





S 162





S 163



S 164 S 165 S 166 S 167 S 168



S 169 S 170 S 171 S 172 S 173



S 174 S 175 S 176 S 177 S 178

FARBTAFEL 26



S 179



S 180



S 181



S 182





S 183













S 184



S 185



S 186



S 187



S 188



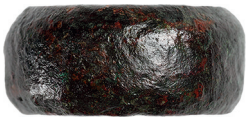
S 189



S 190



S 191





S 192



S 194



S 195



S 196



S 197



S 198



S 199



S 200



S 201



S 202



S 203



S 204



S 205



S 206



S 207



S 208



S 209



S 210



S 211



S 212



S 213



S 215



S 216



S 217



S 218



S 219



S 220



K 1



K 2



K 3



K 4



K 5



K 6



K 7



K 8



K 9



K 10

FARBTAFEL 30



K 11



K 12



K 13



K 14



K 15



K 16



K 17



K 18



K 19



K 20





K 21



K 22



K 23



K 24



K 25



K 26



K 27



K 28



K 29



K 30





K 31



K 32



K 33



K 34



K 35



K 36



K 37



K 38



K 39



K 40



K 41





K 42



K 43



K 44



K 45



K 46



K 47

FARBTAFEL 38



K 48



K 49



K 50



K 51



K 52



K 53





K 54



K 55



K 56

FARBTAFEL 40



K 57



K 58



K 59



K 60





K 62





K 61

K 63



K 64



K 65



K 66



K 67



K 68



K 69



K 70



K 71



K 72



K 73



K 74



M. 75%

K 75



M. 75%

K 75



K 76



K 77



K 78



K 79



K 80



K 81



K 82



K 83



K 84



K 85



K 85



K 86



K 87

FARBTAFEL 52



K 88



K 91



K 92



K 93



K 94



K 89



K 95



K 90



K 96



M. 25%

G 1



o. M.



G 2



G 4



M. 50%

G 3



G 5



G 6



G 7



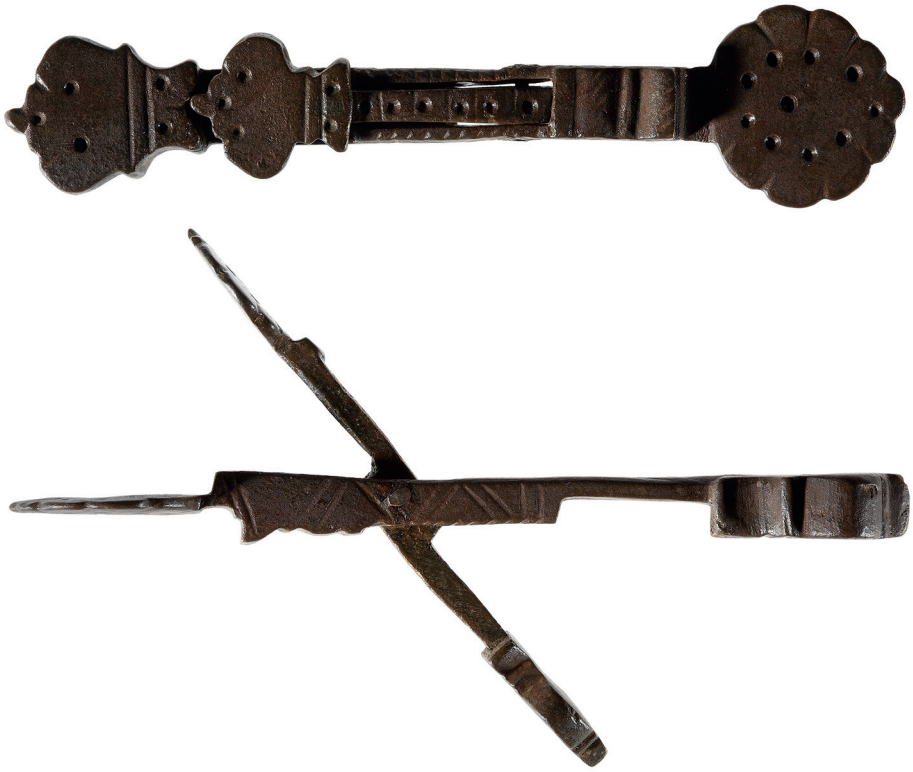
G 8



G 9



G 10



G 11



o. M.

G 12



o. M.



o. M.

G 13

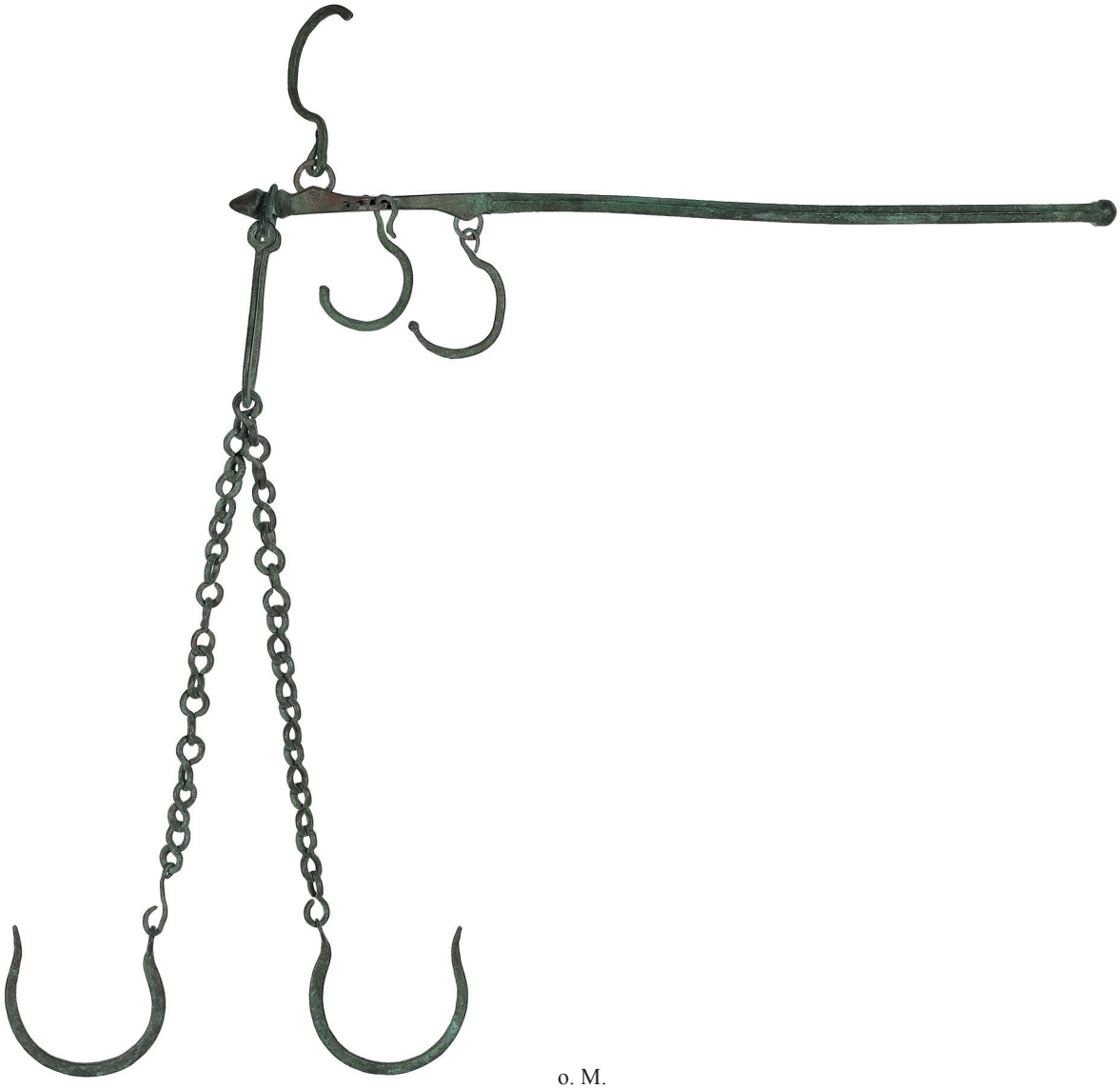






o. M.

G 13



o. M.

G 14



o. M.

G 15



50%
G 16



G 17



G 18



G 19



G 20



G 21



G 22



G 23



G 26



G 29



G 30



G 31



G 32



G 33



G 34



G 35



G 36





G 37



G 38



G 40



G 41



G 42



G 43



G 44



G 45



G 46

FARBTAFEL 64



G 47



G 48



G 49



G 50



G 51





G 53*





G 53**



G 54





G 55



G 56



G 57



G 58



G 59



G 60



o. M.
G 61



G 64



G 63



G 65



G 66



G 67





o. M.

G 68



G 71



G 72



G 76



G 79



G 80



G 81



G 82



G 83



G 84



G 87



G 91

G 88

G 89

G 90



G 93



G 92



G 96

G 97



G 99



G 98



G 100



G 101



G 102



G 103





o. M.



M. 25%

G 104

FARBTAFEL 72



G 105



G 106



G 107



G 108



G 109



G 122



G 115



G 116



G 119



G 120



G 121



G 125



G 126



G 130



G 131



G 134



G 135



G 140



G 141



G 142



G 143



G 136



G 147





G 148



G 150



G 149





G 151



A 1



A 2



A 3



A 4



A 5



A 6



A 7



A 8



A 9



A 10



A 11



A 12



A 13



A 14
M. 50 %



A 16



A 15



A 17



A 18





A 19



A 24



A 25

A 26

A 23
M. 80 %



A 27
o. M.



A 28



A 29
o. M.



A 30
o. M.



A 32



A 33



A 34
M. 90%

A 35



A 38



A 43



A 39
M. 50%



A 48



A 49



A 50
o. M.



A 51



A 52



A 53



A 54



A 55

o. M.



A 57



A 56



A 59
M. 75%



A 58
M. 75%

FARBTAFEL 90



A 61



A 61



A 60



A 62



A 63



A 66



A 67



A 68



A 69



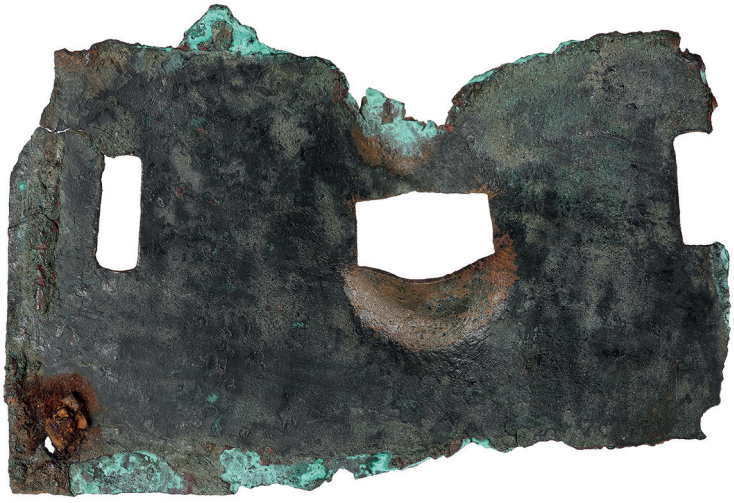
A 70



A 71



A 72



A 73



A 74



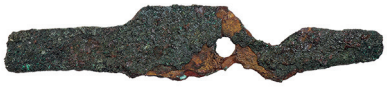
A 75



A 76



A 77



A 79



A 80



A 81



A 78



A 84



A 82



A 83





A 86



A 86
o. M.



A 87



A 89

A 88

o. M.



A 91



A 90



A 92



A 94







A 95



A 96



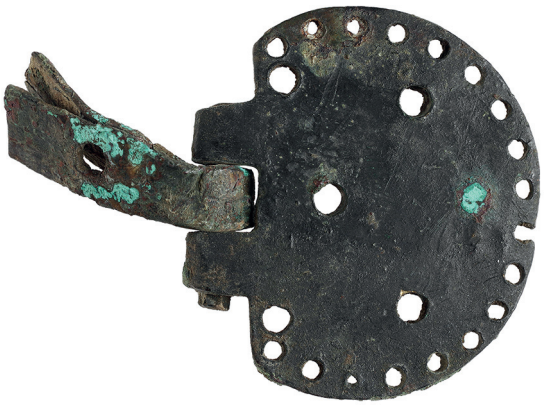
A 97



A 98



A 99



A 100



A 101



A 102



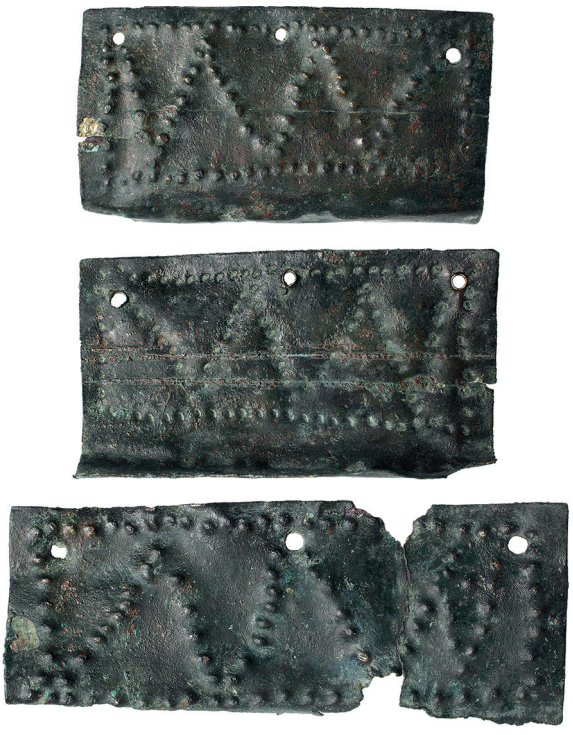
A 103



A 106



A 107



A 108



A 109



A 111



A 113



A 114



A 118



A 119

FARBTAFEL 102



A 121



A 122



A 123



A 124

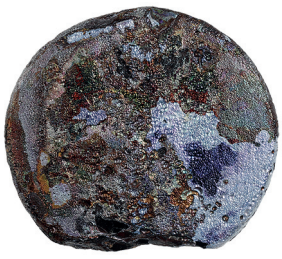


A 125

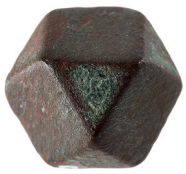


A 126





A 127



A 128



A 129


B 4
B 14
B 16
B 25
B 32
B 34
B 37
B 38
B 41
B 42
B 45
B 83
B 92
B 102
B 103
B 104
B 106
B 107
B 108
B 109
B 110
B 113
B 114
o. M.
B 115
B 117

FARBTAFEL 104



B 118



B 119



B 120



B 123



B 124

B 127



B 133



B 134



B 135



B 136



B 138



B 139



B 140



B 141



B 142



B 143



B 150



B 146



B 151



B 153



B 154



B 155



B 156



B 157



B 158



B 159



B 160



B 161



B 162

o. M.

FARBTAFEL 108



B 163



B 165



B 168



B 170



B 173



B 174



B 178
o. M.



B 175



B 177
o. M.



B 179
o. M.



B 188



B 188
o. M.

FARBTAFEL 110



B 189
o. M.



B 195



B 190
o. M.



B 196



B 194



B 202



B 197



B 203



B 204



B 206
o. M.



B 208



B 211



B 212



B 215



B 216



B 217
o. M.



B 218



B 219
o. M.



B 220



B 221



B 222



B 223



B 224



B 225
o. M.



B 226
o. M.



B 227



V 1



V 2



V 29



V 28



V 33



V 51



V 136



Abb. 1: S 24

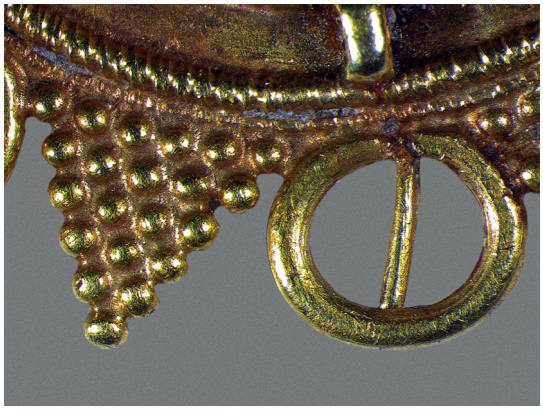


Abb. 2: S 24

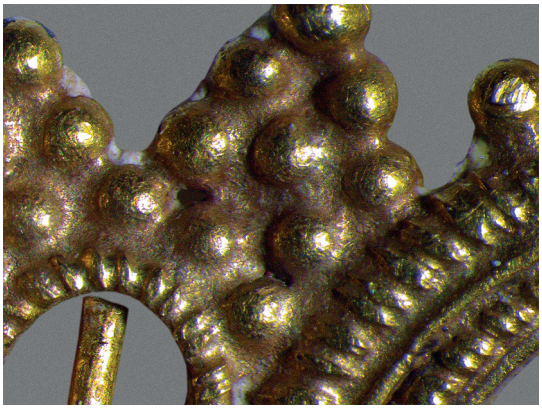


Abb. 3: S 24



Abb. 4: S 23

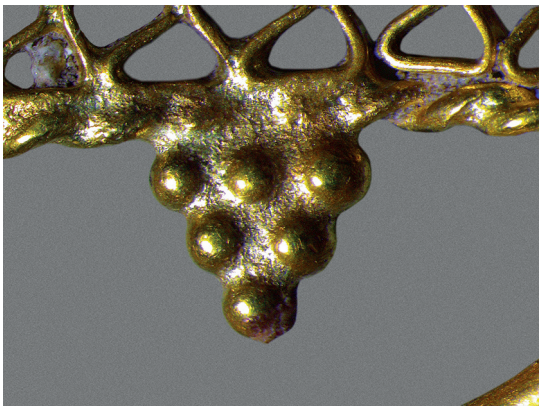


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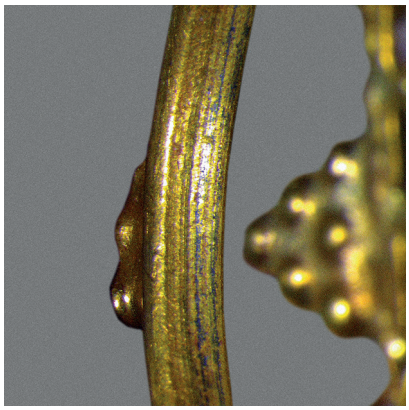


Abb. 6: S 23

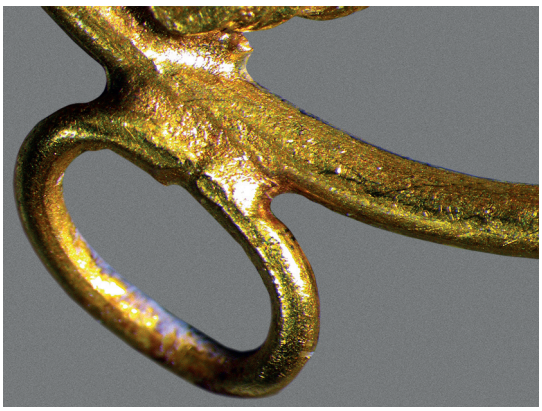


Abb. 7: S 23



Abb. 8: S 23

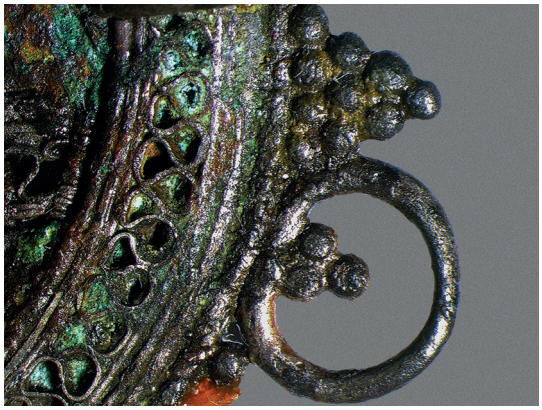


Abb. 9: S 25

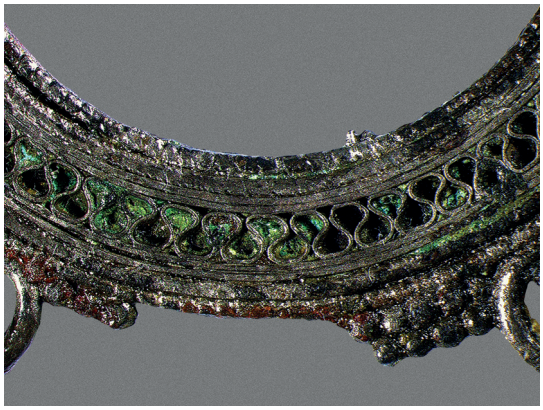


Abb. 10: S 25

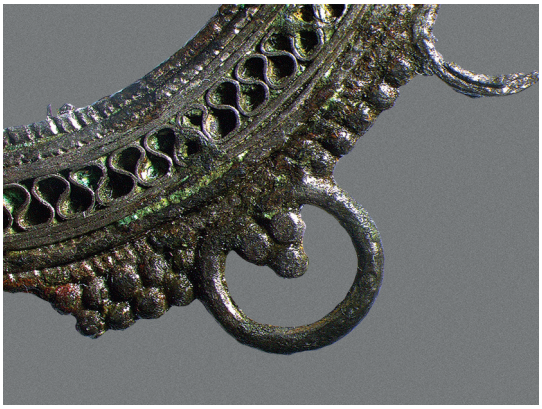


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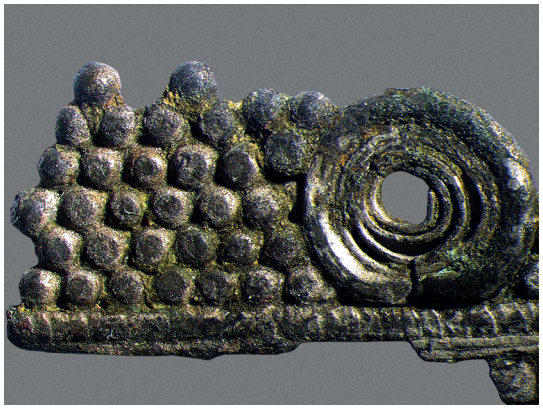


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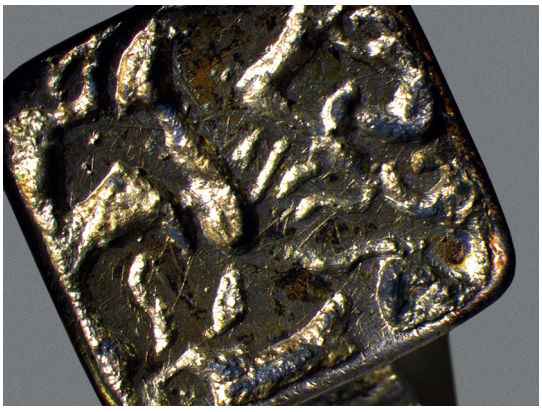


Abb. 13: S 95

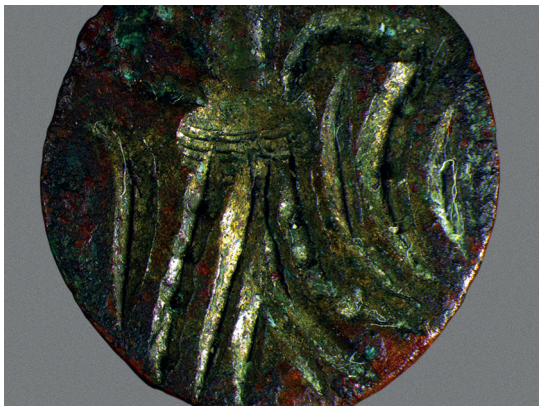


Abb. 14: S 96



Abb. 15: S 75



Abb. 16: S 85



Abb. 17: S 85



Abb. 19: S 113

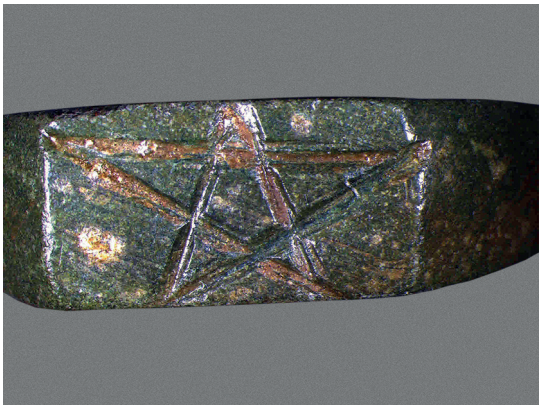


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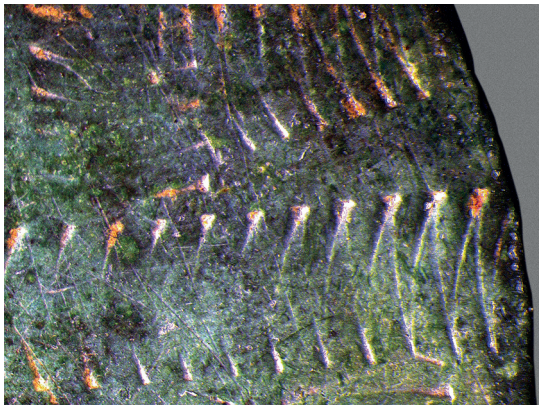


Abb. 20: ID 847



Abb. 21: ID 614

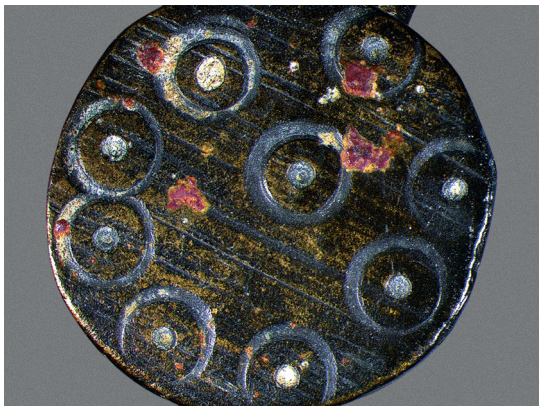


Abb. 21: ID 614

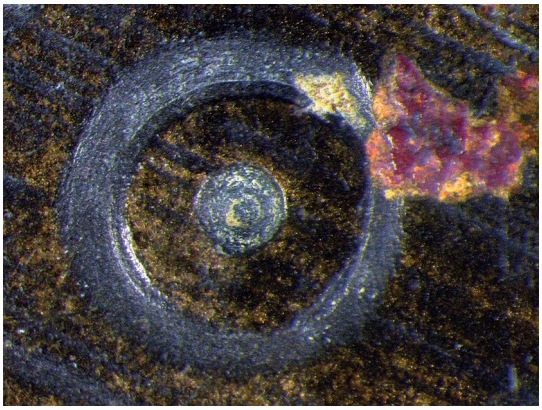


Abb. 23: S 103



Abb. 24: S 100

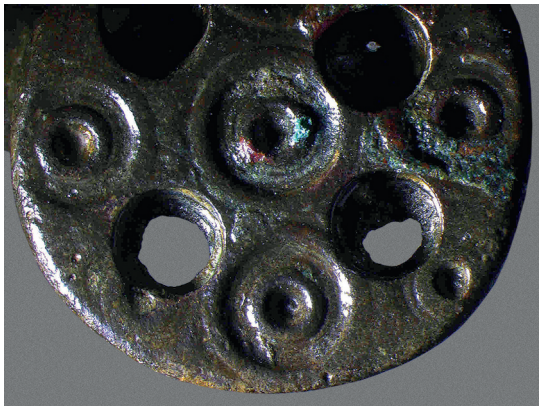


Abb. 25: S 102



Abb. 26: K 31



Abb. 27: K 31



Abb. 28: K 31



Abb. 29: K 31



Abb. 30: K 31



Abb. 31: K 34



Abb. 32: K 34



Abb. 33: K 34



Abb. 34: K 48



Abb. 35: K 48



Abb. 36: K 48



Abb. 37: K 48



Abb. 38: T 65



Abb. 39: T 66



Abb. 40: T 66



Abb. 41: T 66



Abb. 42: T 66



Abb. 43: T 66



Abb. 44: T 60



Abb. 45: T 60



Abb. 46: T 63

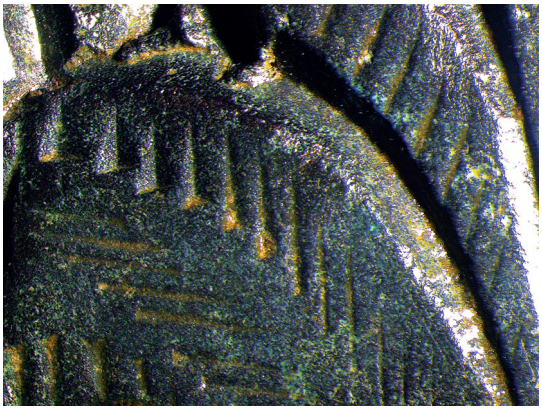


Abb. 47: T 63

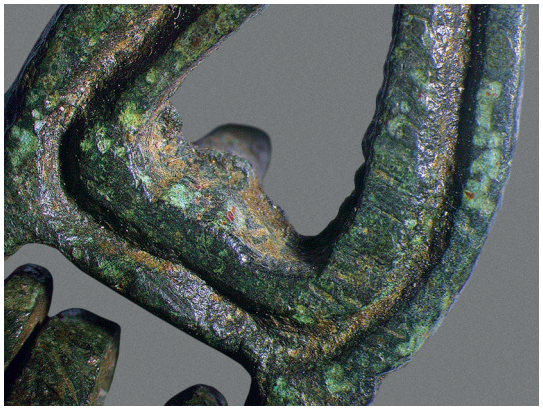


Abb. 48: T 41

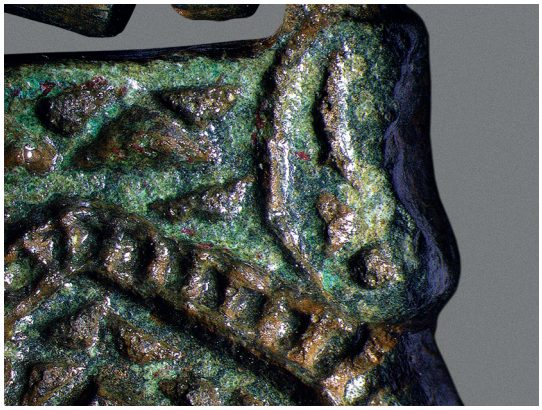


Abb. 49: T 46

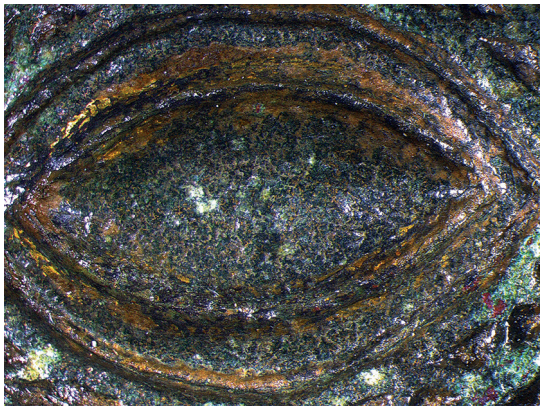


Abb. 50: T 46



Abb. 51: A 1



Abb. 52: A 1



Abb. 53: A 1



Abb. 54: A 1

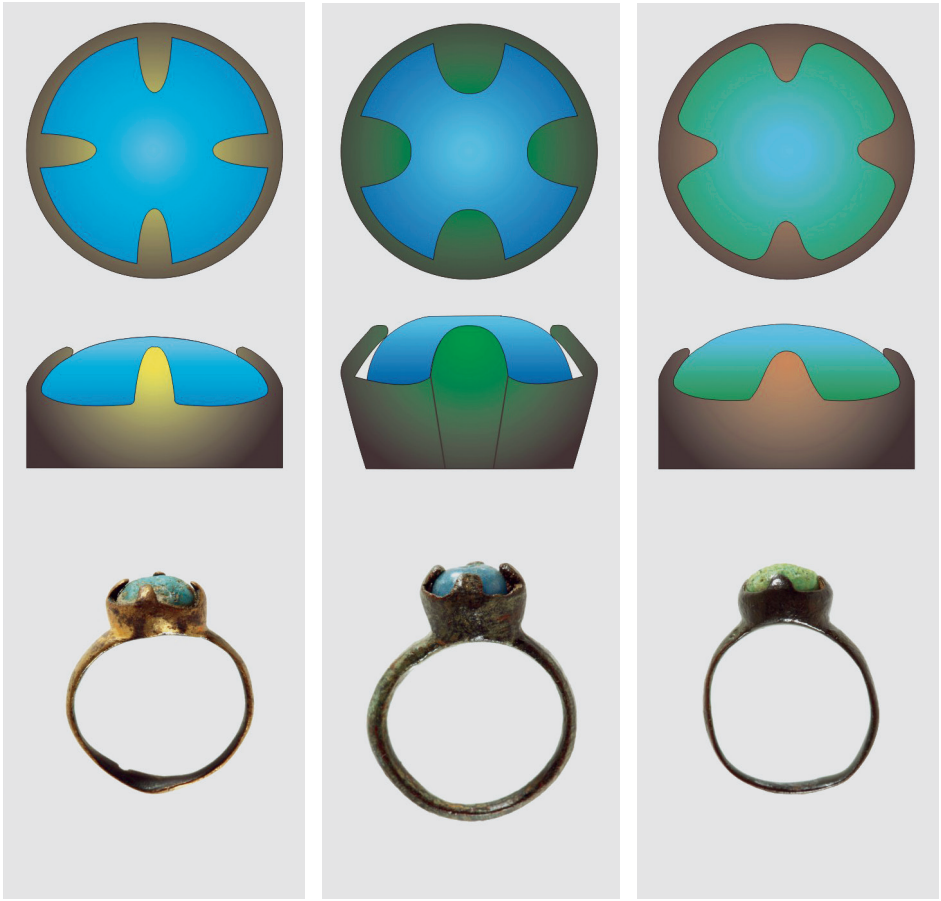


Abb. 1 Schematische Darstellung der Fassungen verschiedener ›Varianten‹ der Fingerringe **S 171, S 173** und **S 175** mit Ringkopf (TG9), die bestimmte herstellungstechnologische/stilistische Merkmale aufweisen

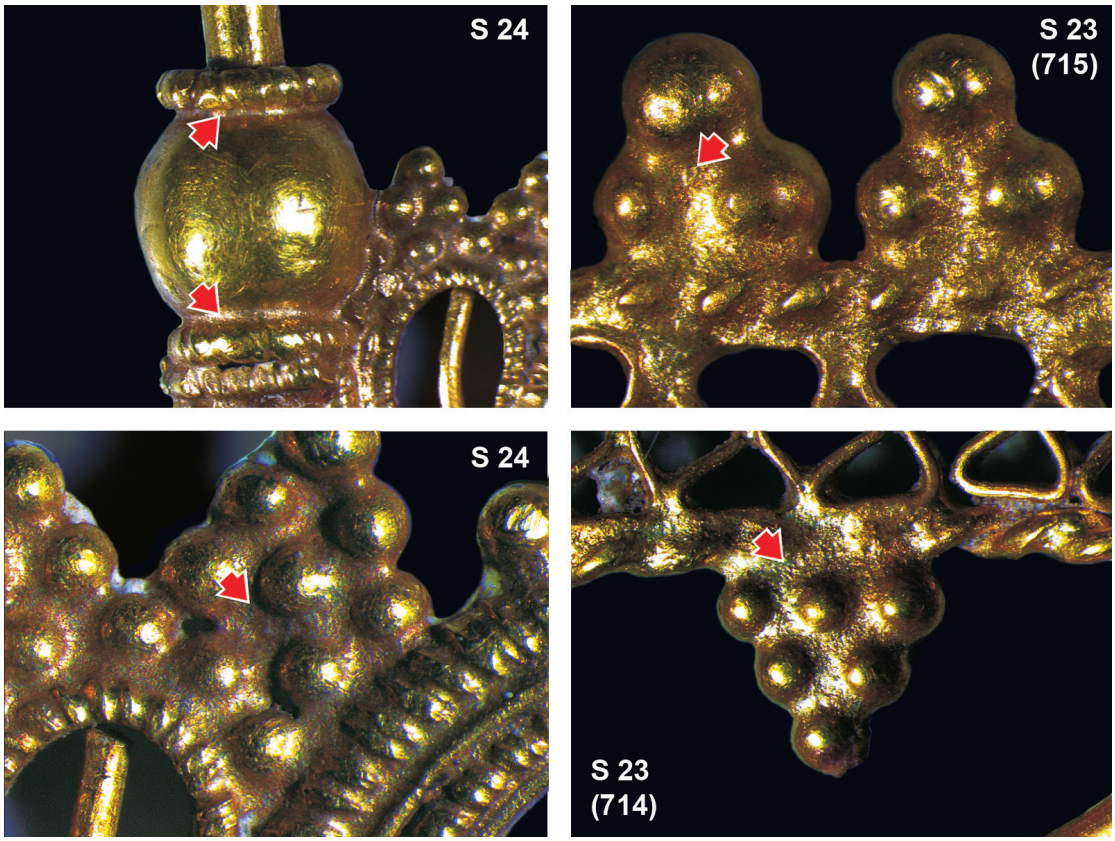


Abb. 1 Durch Lichtmikroskopie identifizierte Lötstellen an Objekten aus Goldlegierungen

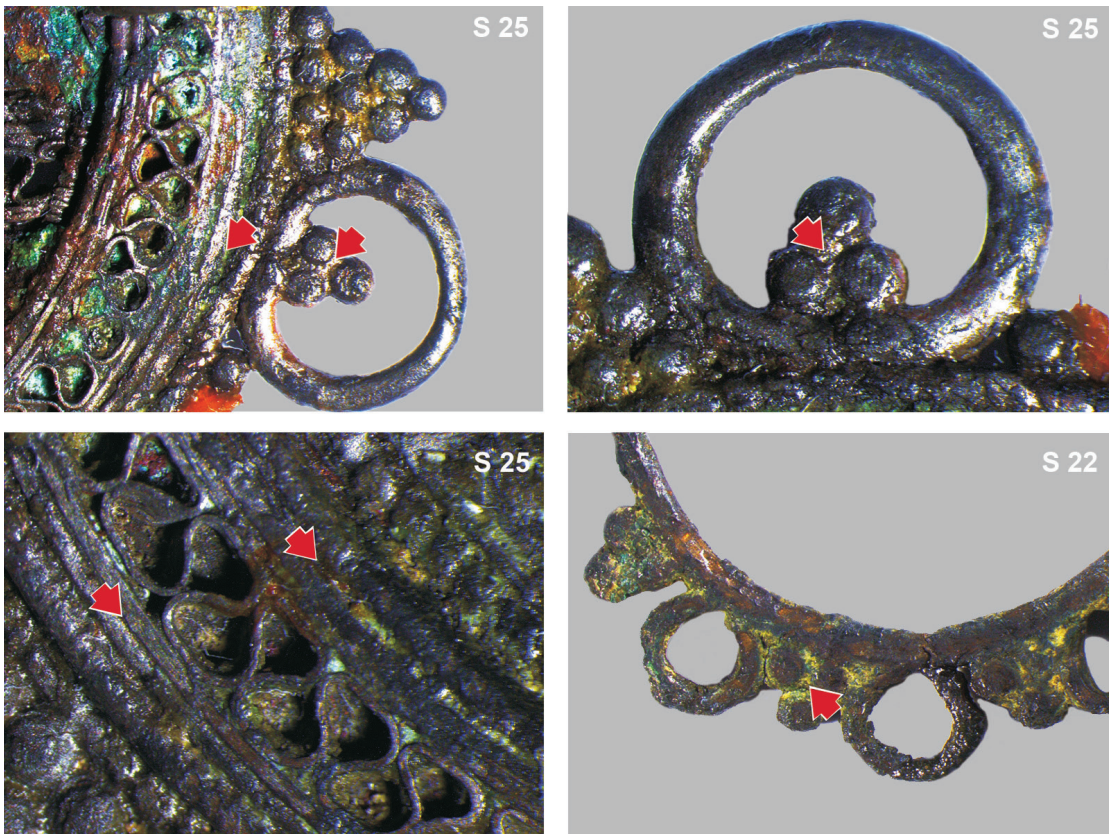


Abb. 2 Durch Lichtmikroskopie identifizierte Lötstellen an Objekten aus Silberlegierungen

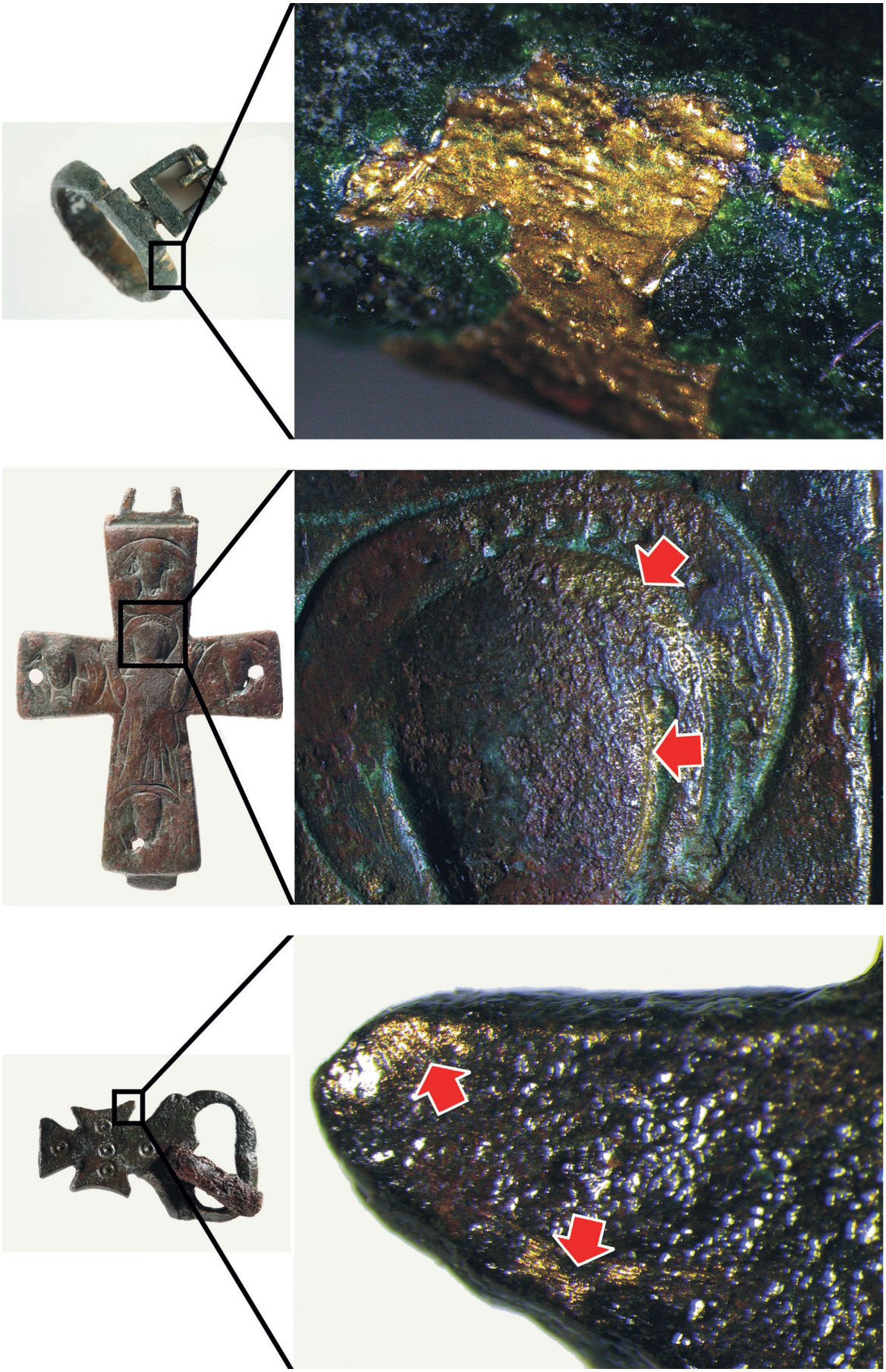
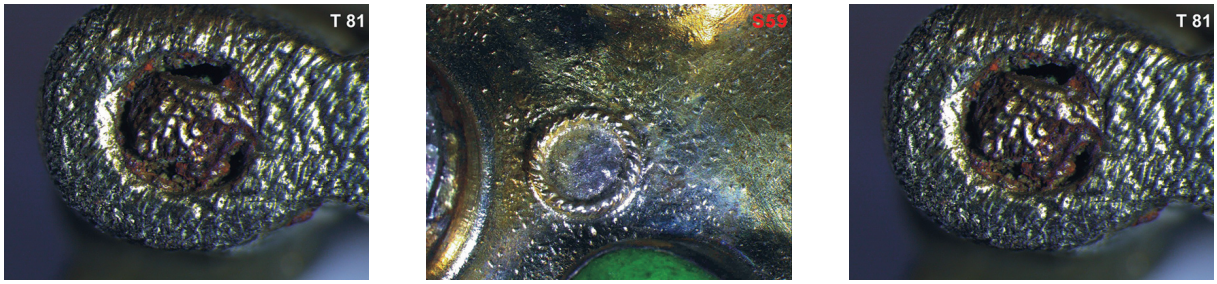
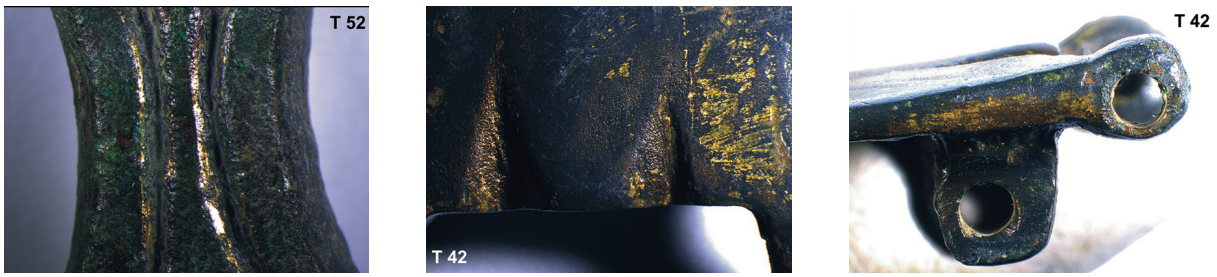


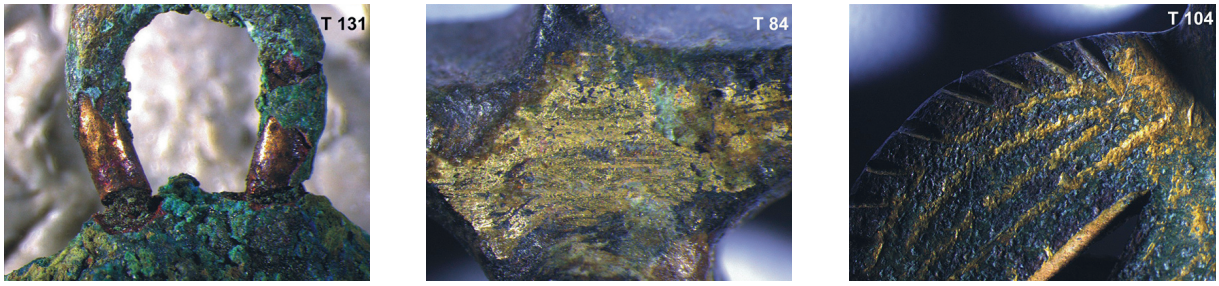
Abb. 1 Verschiedene Objekte aus Messing, deren Oberfläche an bestimmten Stellen goldfarbig erscheint



Gruppe 1: Vergoldung der Objekte aus Silberlegierungen



Gruppe 2: Vergoldung der Objekte aus Messing



Gruppe 3: Vergoldung der Objekte aus Kupfer

Abb. 1 a–c Durch Lichtmikroskopie identifizierte Vergoldungsspuren nach Legierungstyp des Objekts geordnet



Abb. 2 Lichtmikroskopische Aufnahme der Oberfläche der Gussform **K 96**, auf der die erhaltenen Metallreste deutlich sichtbar sind

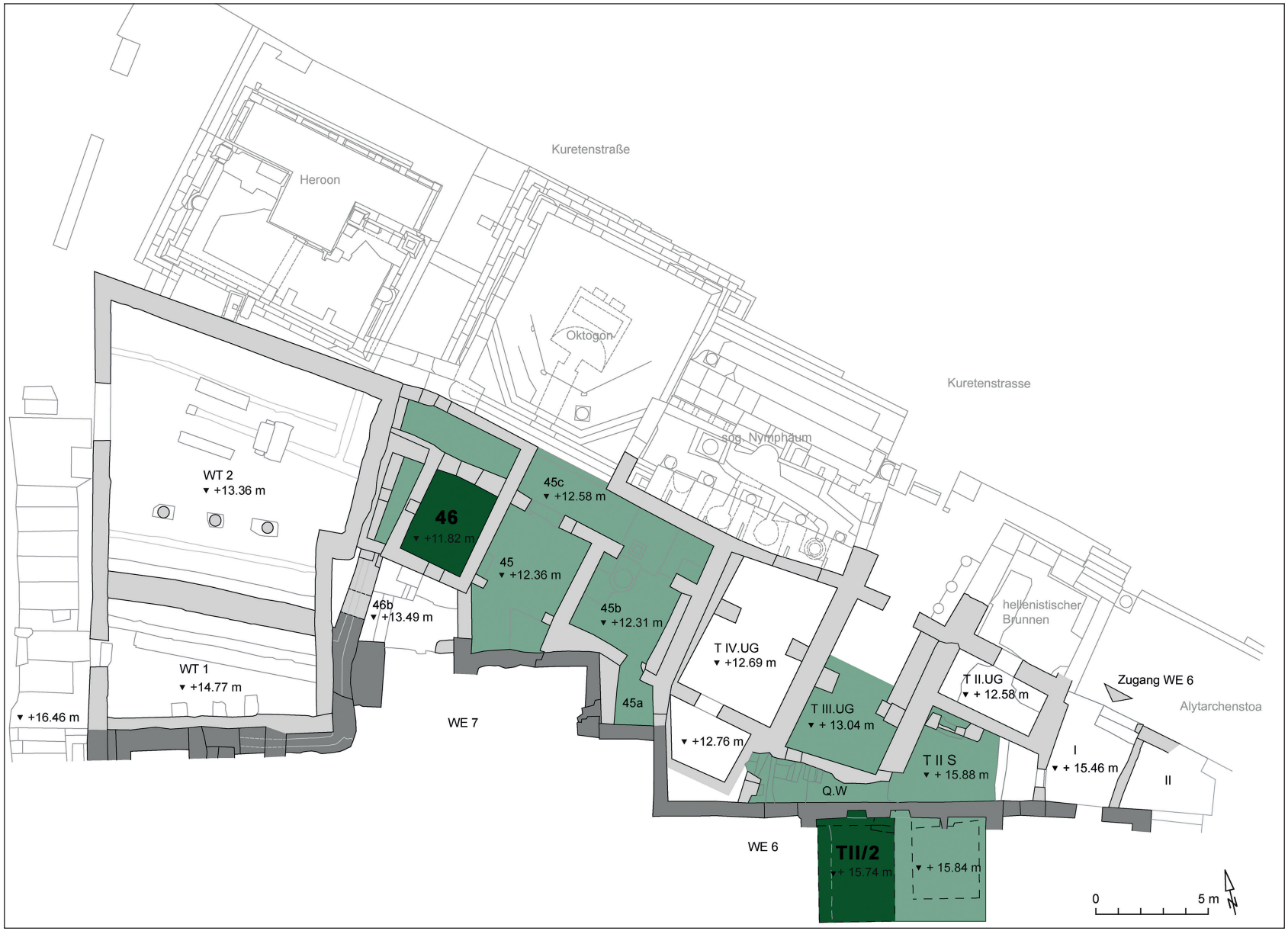


Abb. 1 Plan der metallverarbeitenden Werkstätten im nördlichen Bereich des Hanghauses 2

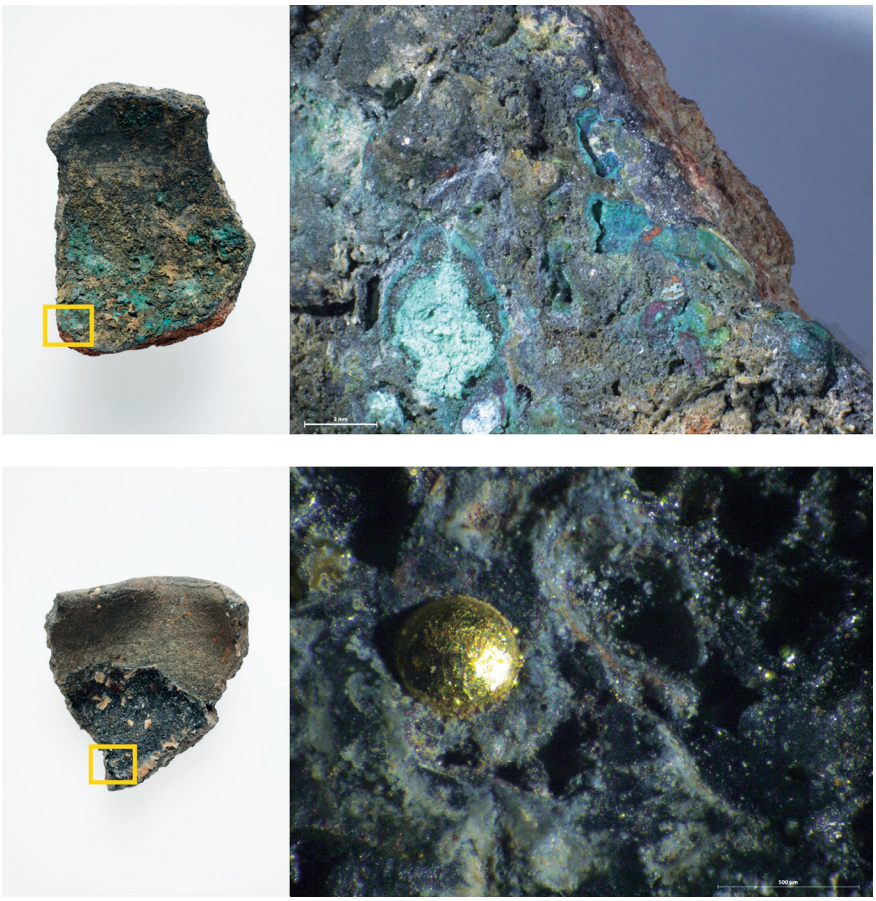


Abb. 1 Zwei Gusstiegelfragmente aus R 46 des Hanghauses 2 mit den erhaltenen verschmolzenen Metallresten
oben: Kupferlegierung (?)
unten: Gold auf der Oberfläche

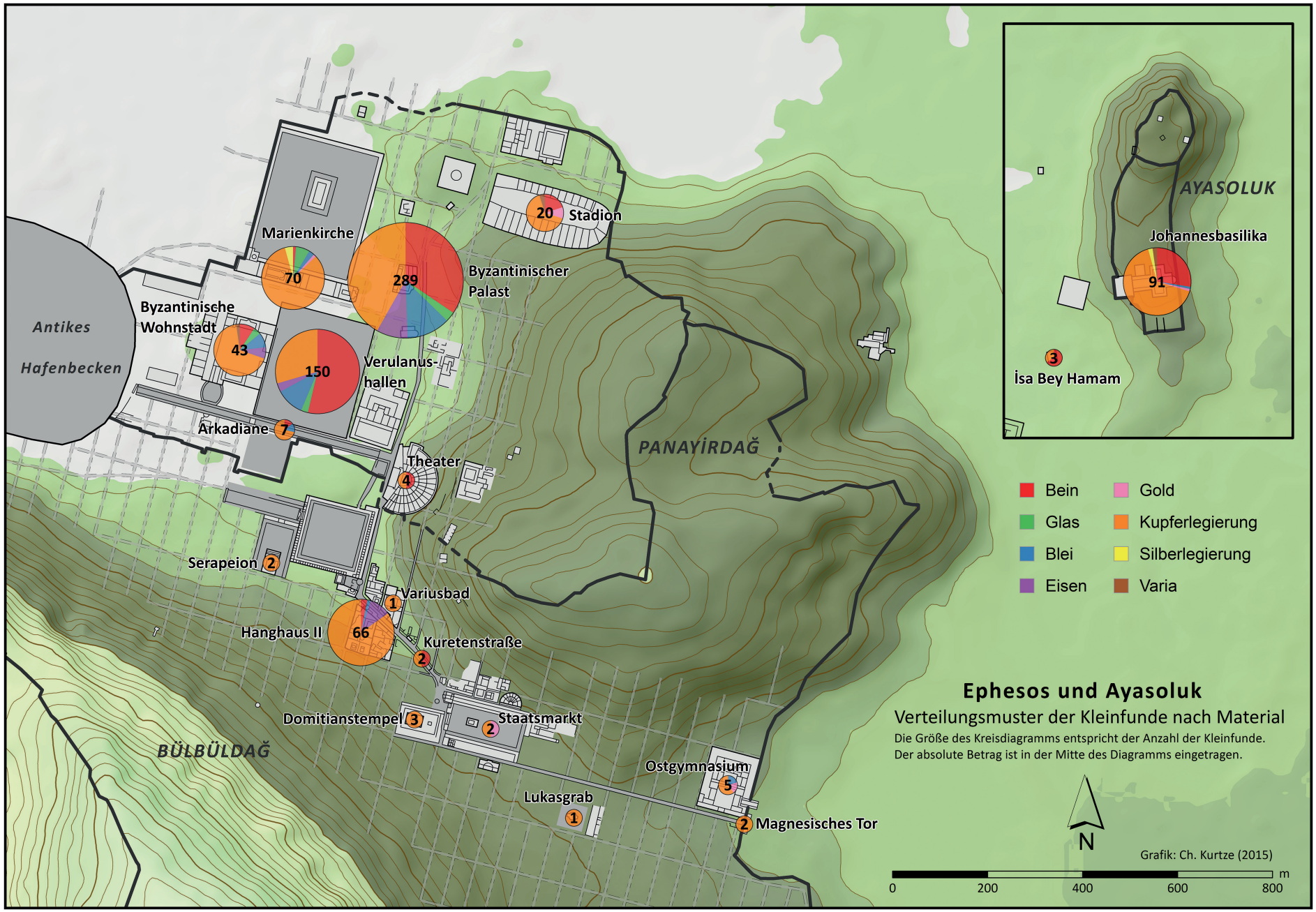


Abb. 1 oben: Zwei Gussformen zur Herstellung fast identischer nierenförmiger Schnallenbügel aus den Werkstattbereichen R 46 und TIII/2
Mitte: Geschlossene Gussform aus R 46, die zum (gleichzeitigen) Guss von vier Ringen verwendet wurde
unten: Computertomografische Aufnahmen obiger Gussform (Seiten- und Draufsicht)

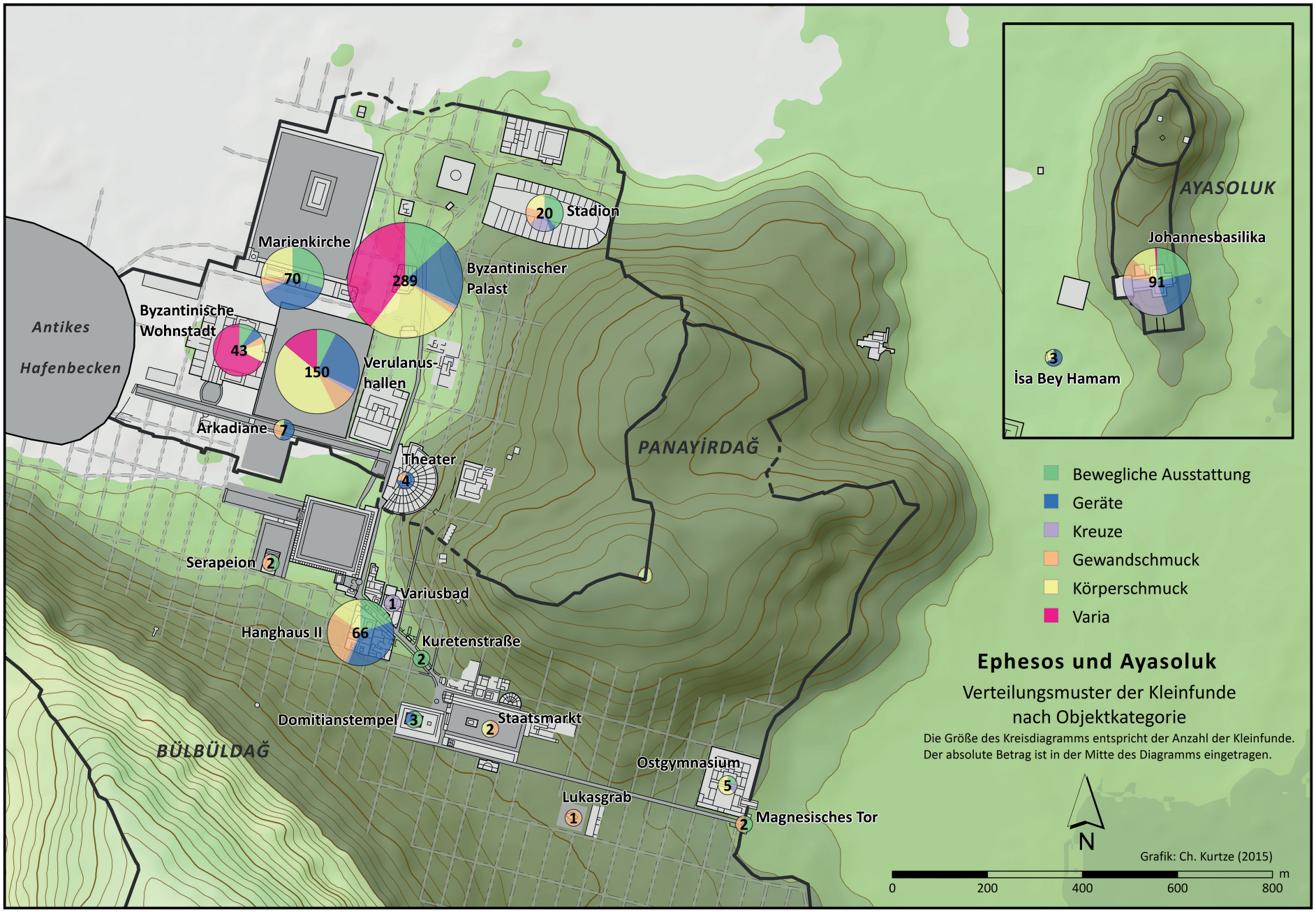


Abb. 2 Fingerring aus R 46, der vermutlich als Halbfertigprodukt zu interpretieren ist. Auf dem Mikrofoto sind die vielen Werkzeugspuren auf dem inneren Boden der Fassung deutlich sichtbar, die entweder während des Herstellungsprozesses oder eventuell während der Entfernung der Einlage für sekundäre Verwendung entstanden sind

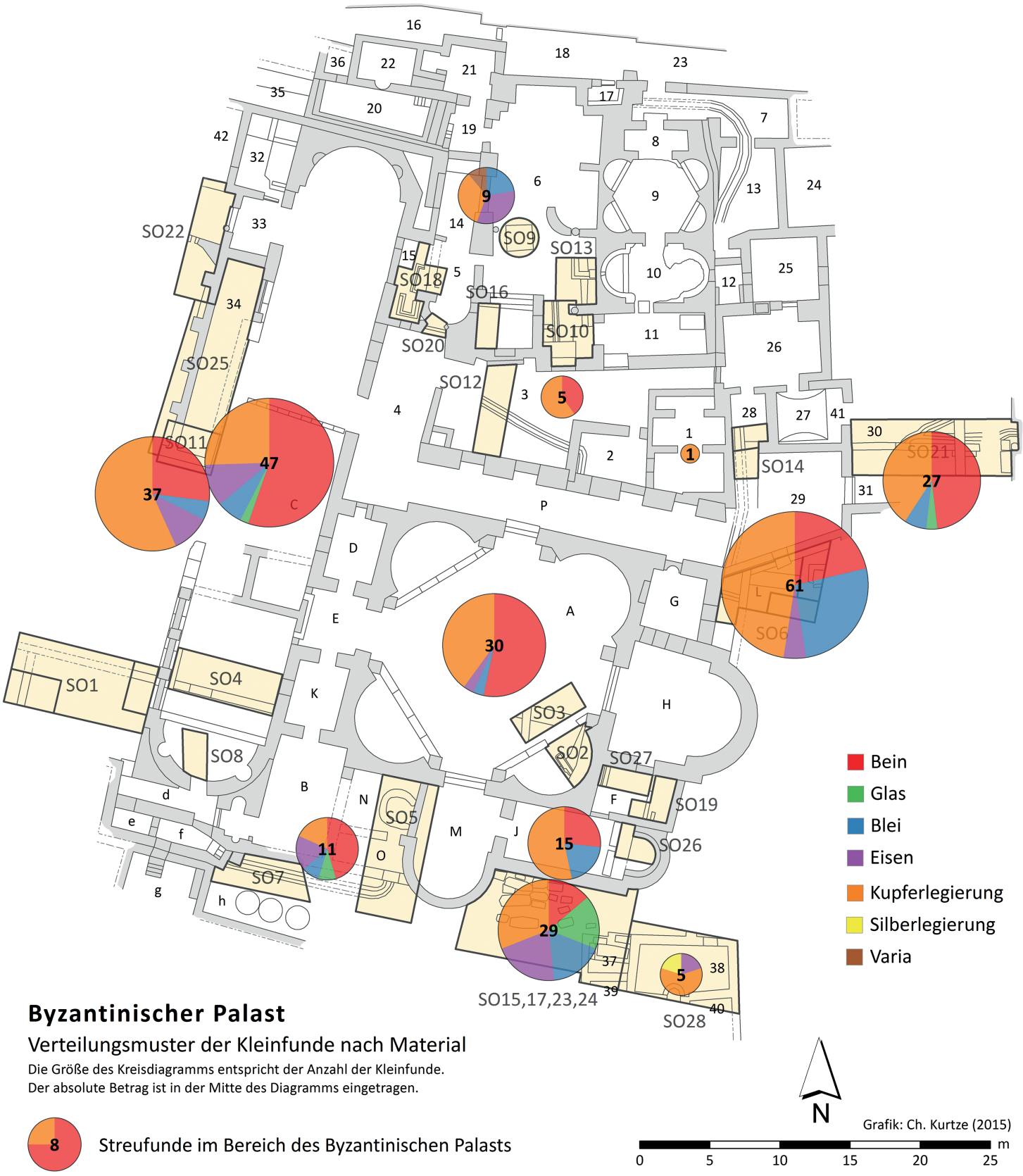
PLÄNE



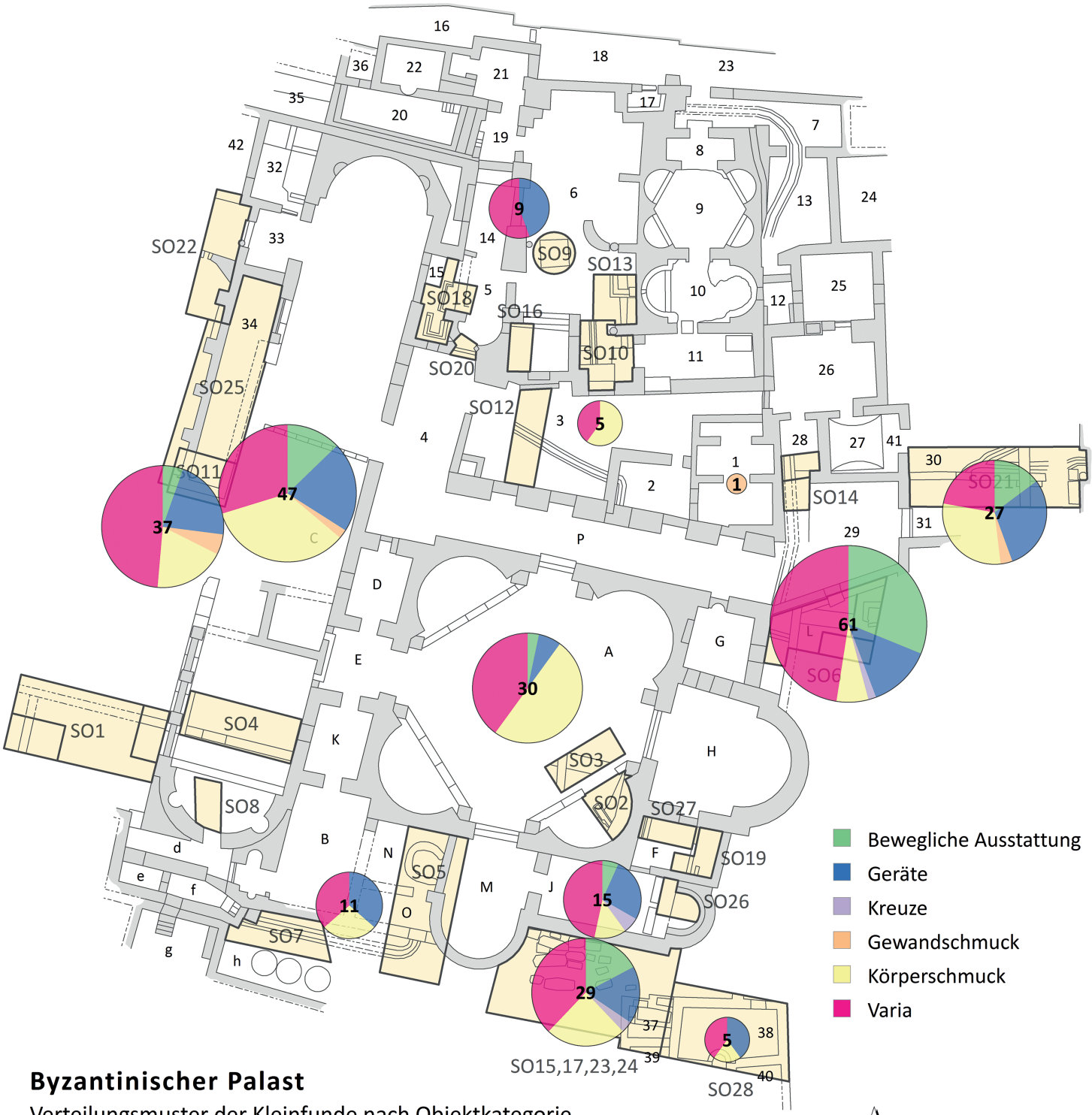
Plan 1 Ephesos Gesamtplan. Verteilung der Kleinfunde nach Material



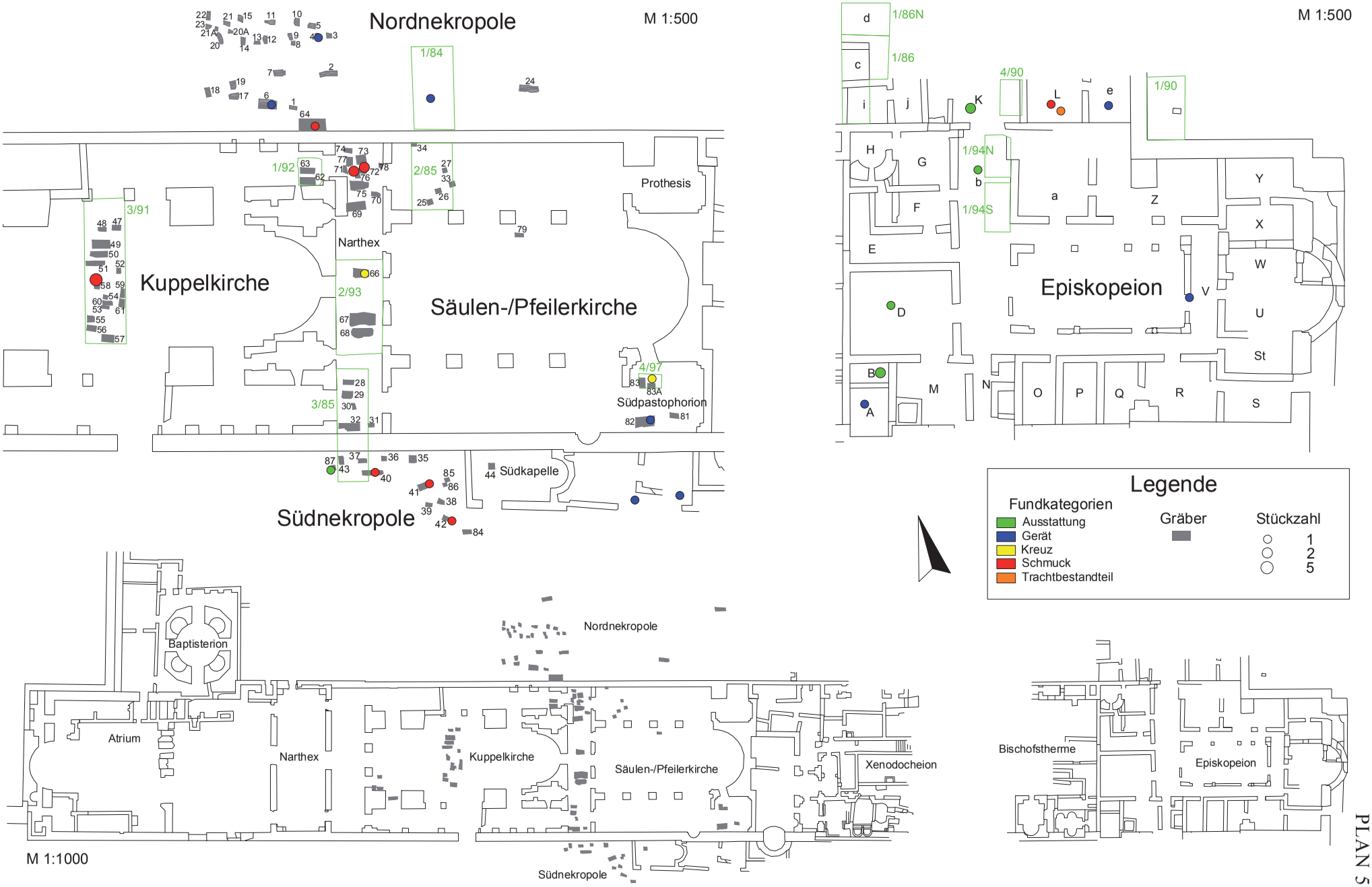
Plan 2 Ephesos Gesamtplan. Verteilung der Kleinfunde nach Objektkategorien



Plan 3 Ephesos, sog. Byzantinischer Palast. Verteilung der Kleinfunde nach Material

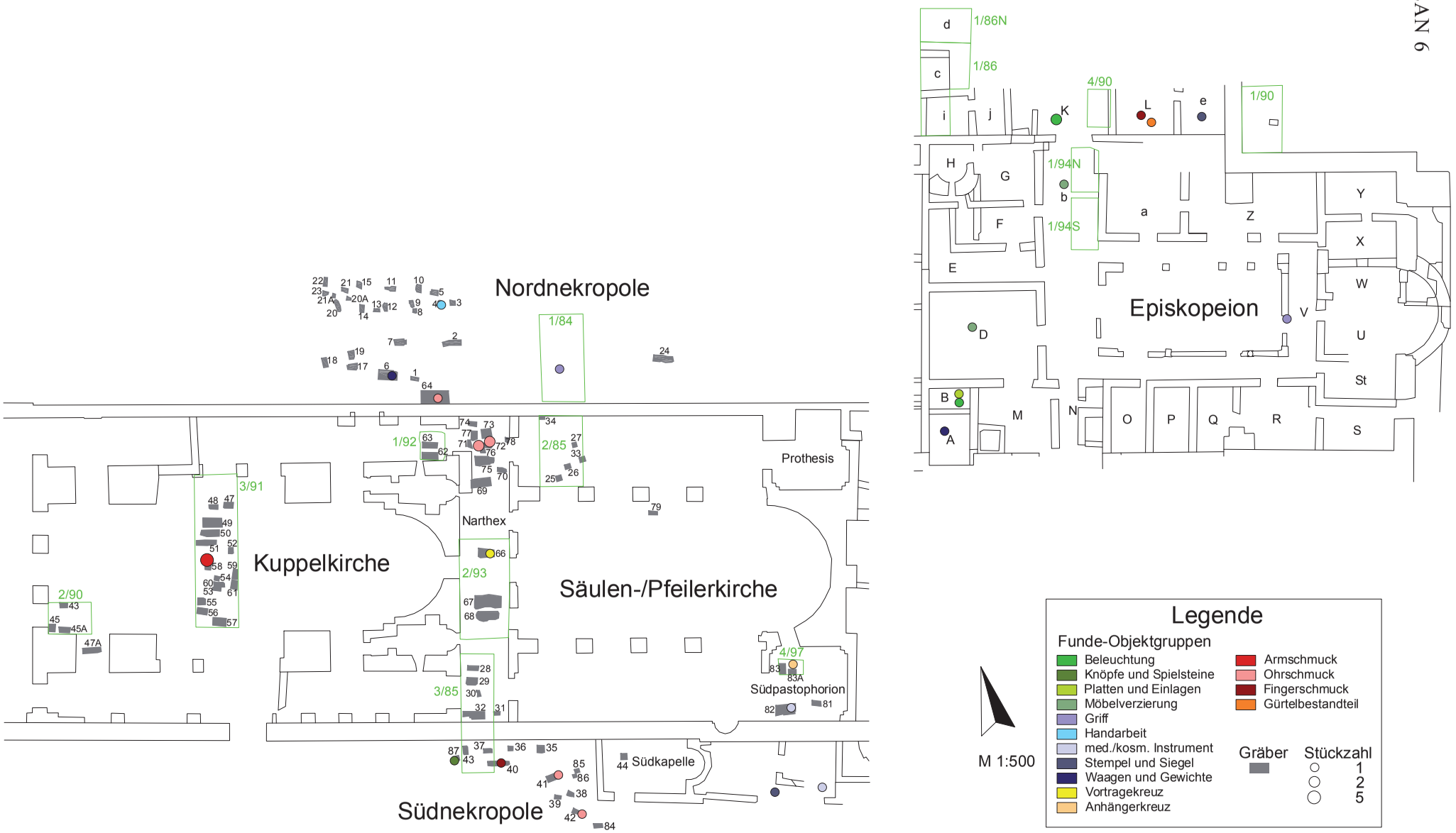


Plan 4 Ephesos, sog. Byzantinischer Palast. Verteilung der Kleinfunde nach Objektkategorien



PLAN 5

Plan 5 Ephesos, Marienkirche. Verteilung der Kleinfunde nach Objektkategorien



Plan 6 Ephesos, Marienkirche. Verteilung der Kleinfunde nach Objektgruppen