

Rc Metal objects

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The metal objects from excavations in Sector NGS constitute a fairly small group of finds. The classification of this category of artefacts is based on the principle of their functions, which allows us to discern groups as well as different types and variants of objects (classification developed by V.V. Krapivina).¹¹⁵⁵ All the artefacts are divided according to their material: bronze, iron and lead. The bronze objects found in the area under consideration include the following groups of items: tools and household articles, toiletry items and personal ornaments, and weaponry. Iron is represented by tools and household furnishings; lead by household articles and ornaments.

Bronze tools and household implements include bodkins, pipes and rods for various purposes, knives, tweezers, a stylus, knives, a door hinge, a handle of a vessel and nails. The nails are subdivided into three types: type 1 has a long shaft, square in section, and a rounded head for carpentry; type 2 has a circular long shaft and a round head for joinery work; type 3 are small upholstery nails, usually with a square shaft and a round, flattened head.¹¹⁵⁶ Weapons are represented by bronze cast trilobate arrowheads with a protruding or hidden socket and a cross-section shaped as a three-pointed star or an equilateral triangle (types 4-7, 9, 10 according to A.I. Melyukova's classification).¹¹⁵⁷

Iron tools and domestic implements from Sector NGS comprise fragmentary sickles, knives with a "humped" back, rods, clamps and nails of two types: type 1 has a long shaft with a square section and a circular head; type 2 has a circular shaft and round head.¹¹⁵⁸

Domestic articles of lead include spindle whorls of various shapes, fishing-net weights and plates.

Ornaments made of precious metals are very rare in NGS, for example, a lunate silver adornment.

¹¹⁵⁵ Krapivina 1993, 129..

¹¹⁵⁶ Krapivina 1993, 131.

¹¹⁵⁷ Meljukova 1964, 28, fig. 1.

¹¹⁵⁸ Krapivina 1993, 134.

Catalogue

BRONZE OBJECTS

Tools and household implements

- Rc-1** 95-437, II-5 B 390/35. Pl. 362
Bronze bodkin, nearly rectangular in section. H 2.6; W shaft 0.15-0.2; W handle 0.5.
- Rc-2** 97-23, VI-3 B 489/292. Pl. 362
Bronze bodkin, rectangular in section, flattened at one end and slightly convex. H 3; W 0.1-0.3.
- Rc-3** 99-626, VI R 591/241. Pl. 362
Bronze bodkin, square in section, bent. H 3.9; W 0.2. Possibly the shaft of a nail of type 1 without a head.
- Rc-4** 94-222, II-5 B 390/29. Pl. 362
Bronze rod, circular in section, pointed at one end. H 14.6; Ø 0.2-0.5.
- Rc-5** 94-570, VI-2 R 410/250. Pl. 362
Bronze rod, square in section, pointed at one end. H 7.6; W 0.2-0.5.
- Rc-6** 95-172, VI-3 B 434/275. Pl. 362
Bronze rod, circular in section. H 5.2; Ø 0.3.
- Rc-7** 94-350, IV-2 B 302/182. Pl. 362
Fr. of bronze tweezers, rectangular in section. H 6; W 0.2-0.5; D 0.1. Finds of tweezers are rare in Olbia,¹¹⁵⁹ and they are altogether fairly uncommon throughout the northern Black Sea region.¹¹⁶⁰
- Rc-8** 94-393, IV-2 B 302/184. Pl. 362
Bronze pipe, flattened at one end. H 7.3; Ø 0.8; thickness of the pipe 0.1.
- Rc-9** 94-394, IV-2 B 302/184. Pl. 362
Fr. of a bronze pipe. H 5.7; Ø 0.7; thickness of the pipe 0.1.
- Rc-10** 94-430, VI-2 R 410/247. Pl. 362
Bronze stylus, circular in section. H 11; Ø 0.2-0.5; W flattened end 0.65.
- Rc-11** 94-351, IV-2 B 302/182. Pl. 362
Two frs. of bronze knife. H 11; L tang 2.9; W blade 0.8-1.2; W tang 0.4-0.8; thickness of the knife 0.15-0.2. No parallels known.
- Rc-12** 91-236. Pl. 362
Fr. of a handle of a bronze vessel(?). 3.2 x 1.4-1.7 x 0.65. No parallels known.

- Rc-13** 87-844, II-1 R 156/7. Pl. 362
Valve of a furniture door hinge, rectangular in shape with one hole. 2.3 x 1.7 x 0.2; Ø hole 0.2.
- Rc-14** 91-14, IV-2 B 280/165
Bronze nail (type 3). H 1.7; Ø shaft 0.2; Ø head 0.8.
- Rc-15** 91-108, IV-1 B 253. Pl. 362
Shaft of a bronze nail (type 2), bent. H 6.8; Ø 0.3-0.4.
- Rc-16** 91-173, IV-1 B 253/147. Pl. 362
Small bronze nail (type 3). H 1.8; Ø shaft 0.2-0.3; Ø head 0.7.
- Rc-17** 91-174, IV-1 B 253/147. Pl. 362
Small bronze nail (type 3). H 2.1; Ø shaft 0.2-0.3; Ø head 1.2.
- Rc-18** 91-232. Pl. 362
Small bronze nail (type 3). H 1.5; Ø shaft 0.3; Ø head 1.3.
- Rc-19** 91-277, II-5 B 311/23. Pl. 362
Small bronze nail (type 3). H 1.7; Ø shaft 0.1-0.3; Ø head 1.5.
- Rc-20** 91-278, II-5 B 311/23. Pl. 362
Small bronze nail (type 3). H 2; Ø shaft 0.1-0.3; Ø head 1.2.
- Rc-21** 91-673, III-3 C 331/128. Pl. 362
Small bronze nail (type 3). H 1.5; Ø shaft 0.1-0.2; Ø head 1.5.
- Rc-22** 94-392, IV-2 B 302/184. Pl. 362
Fr. of a bronze nail (type 2). H 1.5; Ø shaft 0.7; Ø head 1.9.
- Rc-23** 96-80, II-5 B 390/39. Pl. 362
Bronze nail (type 1). H 1.2; W shaft 0.3; Ø head 1.8.
- Rc-24** 96-297, VI-3 R 474/287. Pl. 362
Bronze nail (type 1). H 5.4; W shaft 0.4-0.5; Ø head 1.1.
- Rc-25** 96-391, VI-3 R 477/276. Pl. 362
Bronze nail (type 1). H 3; W shaft 0.5; Ø head 1.6.
- Rc-26** 96-427, V R 465/230. Pl. 363
Bronze nail (type 2). H 2.7; Ø shaft 0.3; Ø head 1.2.

Toiletry items and personal ornaments

- Rc-27** 87-786, II-7 R 116. Pl. 363
Fr. of an ear-ring made from bronze wire. 1.7 x 1.1-1.7 x 0.35-0.4.

¹¹⁵⁹ Krapivina 1993, 131, fig. 88.33.

¹¹⁶⁰ Korpusova 1983, 119.

Rc-28 93-934, III-3 B 368/106. Pl. 363

Two links of a chain made from a bronze wire. Ø rings 1.3-1.4; Ø wire 0.2-0.3.

Rc-29 94-691, IV-2 B 302/193. Pl. 363

Ring made from a bronze wire. Ø ring 2.1; Ø wire 0.15.

Weapons

All types based on the classification of A.I. Meljukova (1964).

Rc-30 91-249, IV-2 B 301/175. Pl. 363

Bronze trilobate arrowhead with a hidden socket (type 9, variant 6). H 3. Cf. Meljukova 1964, 28, fig. 1.

Rc-31 94-381, II-5 B 390/29. Pl. 363

Bronze trilobate arrowhead with a protruding socket (type 10, variant 11). H 2.4; Ø socket 0.6.

Rc-32 94-628, IV-2 B 302/188. Pl. 363

Bronze trilobate arrowhead with a hidden socket (type 4, variant 1). H 2.3.

Rc-33 94-712, VI-2 B 395a/265. Pl. 363

Bronze trilobate arrowhead with a protruding socket (type 10, variants 11-12). H 2.6; Ø socket 0.6.

Rc-34 94-796. Pl. 363

Bronze trilobate arrowhead with a hidden socket (type 7, variant 7). H 2.1; Ø socket 0.3.

Rc-35 01-1103, VI-3 B 661/302. Pl. 363

Bronze trilobate arrowhead with a protruding socket (type 4, variant 7). H 3 (the point broken off); Ø socket 0.5.

Rc-36 02-123, VI-3 B 641/299. Pl. 363

Bronze trilobate arrowhead with a hidden socket (type 6, variant 8). H 1.7.

Rc-37 02-288, VI-3 B 661/305. Pl. 363

Bronze trilobate arrowhead with a hidden socket (type 6, variant 8). H 2.2; Ø socket 0.7.

Bronze arrowheads similar to these are common finds both from the town and necropolis of Olbia and in the Olbian chora in Archaic, Classical and Hellenistic layers.¹¹⁶¹

IRON OBJECTS

Tools and household implements

Rc-38 94-62, IV-2 B 302/180. Pl. 363

Fr. of an iron sickle, triangular in section. 5.2 x 1.2-2.1 x 0.2-0.5. Similar sickles are widely known in the northern Black Sea area, particularly in Olbia.

Cf. Krapivina 1993, 81, fig. 84.

Rc-39 86-272, II-3 R 58. Pl. 363

Blade of an iron knife of type 1 (according to V.V. Krapivina) with a straight cutting edge and a curved back. 9.6 x 1.5-2.3 x 0.2-0.7.

Cf. Krapivina 1993, 81, fig. 84; Nazarov 2006, 211, fig. 221.6.

Rc-40 87-269, II-3 B 89. Pl. 363

Fr. of the blade of an iron knife with curved cutting edge and back; triangular in section. 6.3 x 1.4-2.2 x 0.3-0.8.

Rc-41 91-280, II-5 B 311/23. Pl. 363

Fr. of the blade of an iron knife of type 1 (according to V.V. Krapivina), triangular in section. 5 x 0.4-1.4 x 0.4-0.5.

Rc-42 01-1102, VI-3 B 661/302. Pl. 363

Fr. of the hilt of an iron knife of trapezoid shape with traces of a wooden grip. 7.2 x 1.5-2.5 x 0.3-1.

Rc-43 91-64, IV-2 B 307/167. Pl. 363

An iron object with rectangular section with traces of a wooden grip (chisel?). H 6.8; L working tip 4.8 (the point probably broken off); thickness 0.8-1.2; L grip 2; thickness 0.8.

Rc-44 91-426, IV-1 B 315/137. Pl. 363

Iron clamp. 9.5 x 1.8-2.8 x 0.4-1.3 Clamps of this kind were used in construction for fastening wooden elements.

Cf. Krapivina 1993, 84, fig. 87.

Rc-45 91-62, IV-2 B 307/167. Pl. 363

Shaft of an iron nail (bent) (type 2). H 4.9; Ø 0.5-1.

Rc-46 91-63, IV-2 B 307/167. Pl. 363

Iron nail (type 2). H 4.8; Ø shaft 0.9-1.2; Ø head 2.3.

Rc-47 91-177, IV-1 B 253/147. Pl. 364

Iron nail (type 2). H 5.5; Ø shaft 1.7; Ø head 2.7.

Rc-48 91-178, IV-1 B 253/147. Pl. 364

Iron nail (type 2). H 6.3; Ø shaft 1.2; Ø head 2.5.

Rc-49 91-179, IV-1 B 253/147. Pl. 364

Iron nail (type 1). H 9.3; W shaft 1; Ø head 2.4.

Rc-50 91-601, IV-1 B 315/140. Pl. 364

Fr. of an iron nail (type 2). H 3.5; Ø shaft 1.2; Ø head 2.8.

Rc-51 91-679, III-3 C 331/128. Pl. 364

Fr. of an iron nail (type 2). H 5.3; Ø shaft 0.9; Ø head 2.2.

Rc-52 94-28, II-5 B 390/28. Pl. 364

Iron nail (type 1). H 7.6; W shaft 1.1; Ø head 2.3.

Rc-53 94-49, IV-2 B 302/180. Pl. 364

Fr. of the bent shaft of an iron nail (type 1). H 4.5; W 0.8.

Rc-54 94-124, IV-2 B 302/182. Pl. 364

Iron nail (type 1). H 6; W shaft 0.9-1.1; Ø head 2.3.

Rc-55 94-125, IV-2 B 302/182. Pl. 364

Iron nail (type 1). H 5.1; W shaft 0.9-1.1; Ø head 1.8.

¹¹⁶¹ Nazarov 1988, 179-183; Nazarov 2006, 208-209.

- Rc-56** 94-169, IV-2 B 302/182. Pl. 364
Fr. of the shaft of a bent iron nail (type 1). H 4.5; W 0.7.
- Rc-57** 94-183, IV-2 B 302/182. Pl. 364
Iron nail (type 1). H 6.9; Ø head 2.6.
- Rc-58** 94-184, IV-2 B 302/182. Pl. 364
Iron nail (type 1). H 6.2; Ø head 1.5.
- Rc-59** 94-185, IV-2 B 302/182. Pl. 364
Iron nail (bent) (type 1). H 6.9; Ø head 1.5.
- Rc-60** 94-363, IV-2 B 302/182. Pl. 364
Fr. of an iron nail (type 2). H 4.2; Ø shaft 0.9; Ø head 2.
- Rc-61** 94-627, IV-2 B 302/188. Pl. 364
Fr. of an iron nail (type 2). H 3.3; Ø shaft 1.3; Ø head 3.5; thickness of the head 0.8.

LEAD OBJECTS

Household articles

- Rc-62** 91-102. Pl. 364
Hemispheric spindle whorl. H 1.3; Ø 2.3; Ø hole 0.5.
- Rc-63** 96-509. Pl. 364
Hemispheric spindle whorl. H 1; Ø 2; Ø hole 0.4.

- Rc-64** 96-510. Pl. 364
Spindle whorl shaped like a truncated cone. H 0.8; Ø 2.7; Ø hole 0.5.

- Rc-65** 96-511. Pl. 364
Conical spindle whorl. H 1.7; Ø 2.3; Ø hole 0.3.

Spindle whorls are very common finds throughout the entire northern Black Sea littoral. In Olbia, they occur in all layers of the settlement and in the necropolis. Moulds for casting lead spindle whorls are also frequently found.¹¹⁶²

- Rc-66** 88-491, II-6 B 195/52. Pl. 364
Fishing-net weight. 9.7 x 1.6 x 0.3.

- Rc-67** 96-478, VI-3 B 474/290. Pl. 364
Plaque of nearly triangular shape with two holes. 8.2 x 5.5 x 0.15. Possibly the blank for a lead letter.

SILVER OBJECTS

Jewellery

- Rc-68** 91-416, IV-1 B 315/137. Pl. 364
Pendant of lunate shape. 4 x 3.8 x 0.25-0.4; Ø suspension ring 0.7. The horns of the crescent are shaped as flattened globules, Ø 0.35-0.4. Manufactured using the mould-casting technique. Lunate ornaments and moulds for their casting are rather rarely found during excavations in Olbia and its rural territory.¹¹⁶³ Pendants of this type were usually made from cheaper metals such as lead or bronze. In our case we are dealing with a silver specimen probably intended for the wealthy.

¹¹⁶² Furmans'ka 1958, figs. 1, 2, 3, pl. II.3.

¹¹⁶³ Furmans'ka 1958, pl. III.3, VI.4.