EARLY IRON AGE POTTERS’ MARKS IN THE AEGEAN

(PLATES 108–120)

In memory of Koúλα (Evelyn Lord Smithson)

In 1952 Vincent Desborough drew attention to five Attic Protogeometric vases each bearing a painted cross.\(^1\) Of these, three were found at Athens, two in the Kerameikos, one in the Agora;\(^2\) the other two were found at Knossos.\(^3\) In his discussion of them Desborough wrote: “As a curiosity, the painted X on [Kerameikos] 1069 should be noted—the skyphos from the same tomb has the same mark beneath one of its handles,” and he made passing reference to a similar mark on a belly-handled amphora from the Athenian Agora.\(^4\) Concerning the two Attic skyphoi found at Knossos, he writes that these “have one peculiarity in common—a roughly painted cross beneath one of the handles; it is tempting to suppose that the potter who made them had perhaps marked them thus as for export, but apart from

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1 Desborough 1952, pp. 11, 83–84, 87.

This paper grew out of the study of the Early Iron Age cemetery at Torone, which was entrusted to my care in the mid 1980’s. Eight handmade vases (B4–B11 below) from the cemetery were incised with symbols that could be interpreted as potters’ marks. In scanning the bibliography it soon became evident that these marks were unique for the period; the literature indicated that potters’ marks were exceedingly rare, or nonexistent, in the Early Iron Age. Visits to Greek museums, however, altered this impression, for although not abundant, Early Iron Age potters’ marks were not quite so elusively phantom as scholars had thought. The normally inconspicuous positions of such marks on, below, or near a handle, or else on the underside of a pot, easily overlooked, has made it difficult to glean the symbols from published photographs of pottery. It cannot be stressed enough that the catalogue of marks presented here does not aim to be exhaustive and that the list as it stands is probably very far from complete. It had been my intention to illustrate each of the potters’ marks assembled here with a drawing or photograph, or both. This, however, has not proved possible.

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2 Kerameikos IV, inv. no. 1069, pl. 5, inv. no. 1072, pl. 22; Agora P 6693 (unpublished).

3 Knossos: Brock 1957, no. 58, p. 13, pl. 7; no. 187, p. 21, pl. 12.

4 Desborough 1952, p. 11 (A3 below).

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the unlikelihood of such a theory, a skyphos of Type IV, found in the Kerameikos, has the same distinguishing mark, and there is no reason to doubt that this vase was made locally.”⁵ Desborough noted a further example, a skyphos from Aigina, with a cross beneath one of its handles.⁶ Apart from these notes, nothing has since been written on Proto-geometric potters’ marks,⁷ despite growing interest in the pot marks of the Bronze Age,⁸ as well as later graffiti on Greek Geometric and early Archaic pottery.⁹

Scholarly neglect especially of the Proto-geometric potters’ marks is symptomatic of the very concept of a “Dark Age”, a convenient construction dividing Aegean prehistorian from classical archaeologist.¹⁰ Because this “Dark Age” does not readily belong, for reasons difficult to fathom, in the intellectual realm of the prehistorian nor is it firmly in that of the classical archaeologist, it floats rather uncomfortably in between. This is most recently reflected in Henry Immerwahr’s survey of Attic script, where he writes: “No extant inscriptions are earlier than the third quarter of the 8th century B.C.; nor am I aware of potters’ marks or other signs on Attic Proto-geometric or Early Geometric pottery, with the exception of an upright painted cross under one handle of a Proto-geometric amphora from the Athenian Agora [Agora P 6693; A3 below]. In view of the large quantity of Attic pottery from these periods, this fact supports the notion that Greece was illiterate in the first quarter of the first millennium B.C., especially since potters’ marks are frequent in the Mycenaean period and reappear after the middle of the 8th century.”¹¹

The purpose of this paper is to reexamine Desborough’s five pots and to assemble and discuss examples of Early Iron Age (Proto-geometric and Geometric) pottery inscribed with what may reasonably be classed as potters’ marks that have since come to light, to the knowledge of the author. It would appear that the common Bronze Age practice of marking a vase, whether by paint, incision, or stamping prior to firing, does not altogether cease with the demise of the Mycenaean way of life, nor does it reappear suddenly after a long, barren hiatus. The list that follows is probably far from complete; it is presented in order to draw attention, once more, to the existence of such marks and in the hope that further examples may be noted and published.

A useful definition of potters’ marks is provided by Aliki Halepa Bikaki, who writes: “We consider as potters’ marks . . . those made on the pot before firing, when the pot was still

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⁵ Desborough 1952, pp. 83–84.
⁶ Desborough 1952, p. 87.
⁷ See, for example, Desborough 1964; Desborough 1972; Snodgrass 1971.
⁸ For a bibliography of Bronze Age potters’ marks, see Keos IV, pp. xii–xiv; for inscribed stirrup jars, see, among others, Raison 1968; Sacconi 1974; Mylonas 1962; Chadwick 1963; Palmer 1971; Palmer 1972; Palmer 1973; Palmer 1978; Catling et al. 1980; Bennett 1986; for Linear B and after, see Bennett 1991. For further references, see note 126 below.
in the hands of the potter, and therefore added most probably by the potter himself (hence the term), whatever their meaning and function.” With the exception of the tentative Group E (see pp. 471–473, 490–491 below), the marks are usually simple and as a rule occur on inconspicuous parts of vases. The most common positions are on the handles or immediately below, on vessels of both open and closed forms, or else on the underside of a vase. Less inconspicuous are a group of isolated painted symbols, mostly crosses, found on one side of the neck of Protogeometric neck-handled amphorae or at the center of the neck on contemporary hydriae (A1, A7, A8, A12–A17, A19). This difference in position is noteworthy, but the marks are nevertheless classified as potters’ marks, provided they are isolated and not part of any clearly defined decorative scheme.

The marks presented here include ones that are painted, incised, impressed, or stamped before firing. Any signs painted or incised after firing are not included as potters’ marks. Similarly, other marks made during the process of forming a vase, such as mat impressions or slashes, gouges, or other impressions on or near handle and leg attachments (specifically for the purpose of attaching the handle or leg), are not included. As Halepa Bikaki further notes, whatever the meaning of a mark, it clearly has reference to the object on which it appears. Consequently, marks on other classes of objects, such as loomweights or spindlewhorls, are not included here, as they constitute a separate group.

**CATALOGUE OF EARLY IRON AGE POTTERS' MARKS**

The following list has been divided into five groups on the basis of the type of potter’s mark, labeled A–E. Group A is a list of simple painted symbols found on wheelmade painted pottery of Protogeometric, Sub-Protogeometric, or Geometric date. The majority are painted crosses (X or ⊕) found either beneath a handle of a vase, on its neck, or on the underside. A variety of incised symbols, including impressed dots, found on handmade burnished pottery of the period is listed under the heading of Group B, as are two examples of incised marks on wheelmade pottery. Many of the handmade pots derive from tombs and were mostly found in association with wheelmade painted pottery contemporary with that of Group A. Those from Corinth derive from a number of well deposits dating to various phases of the Geometric period. Group C lists stamped impressions which may

12 *Keos* IV, p. 2.
13 Compare Vitelli (1977, p. 19), who states: “We might consider . . . the free-floating, non-repetitive painted motif another version of the potter’s mark.” See also Donnan 1971, p. 464, where it is noted that potters’ marks incised on utility vessels of the Moche style of Peru (ca. A.D. 100–800) “are consistently located on the neck of the vessel . . . and are on one side only.”
14 Cf. *Keos* IV, p. 3.
15 Ibid.
16 Although far from common, such marks on terracotta implements do occasionally occur in Early Iron Age contexts. See, for example, Pfaff 1988, no. 118, p. 79, pl. 32 (pyramid loomweight with small stamp impression on its side); Brann 1960, MC 206, p. 406, fig. 2, pls. 89, 90 (spindlewhorl with small stamp impression). Both objects are dated to the earlier 8th century B.C. It is noteworthy that in the “sign system” of the Neolithic Vinča culture, symbols are numerous on figurines, spindlewhorls, and other objects, in addition to pottery; see Winn 1981, *passim*; Masson 1984.
be classified as potters' marks. Although stamping vessels with seals or other objects is not altogether uncommon,\textsuperscript{17} the practice appears to have been used mostly for decorative purposes.\textsuperscript{18} In a few rare cases, however, where only a single inconspicuous impression is found on a vase, a decorative intention seems unlikely;\textsuperscript{19} it is such marks that are presented below under Group C. It should be noted here that these are, on the whole, later than those of Groups A and B, dating mainly to the Late Geometric period or else to the Middle Geometric II period.\textsuperscript{20} I have also added, under the separate heading of Group D, a number of more simple finger or thumb impressions, invariably found at the base of a handle, on both wheelmade and handmade pottery. The few examples of these presented below range in date from latest Mycenaean or Submycenaean through the Late Geometric periods.

The symbols listed under the heading of Group E are presented in a spirit of inquiry. It is here suggested that some of the earliest figurative motifs on Athenian painted pottery of the Early Iron Age, namely Protogeometric horses and birds, are plausibly potters' marks. Such a conclusion derives from a comparison of the nature and placement of potters' marks such as plain crosses with the placement or positioning of the earliest Athenian horses and birds. The number of these is small indeed; they are more fully discussed under Group E.

Those pieces listed with a query (?) in the catalogue are dubious as potters' marks and are discussed more fully in the commentary.

\begin{center}
\textbf{GROUP A. PAINTED SYMBOLS ON WHEELMADE PAINTED POTTERY}
\end{center}

\textbf{ATHENS}

\textbf{A1.} Kerameikos Tomb 34, inv. no. 1069  
Painted X on neck on one side of vessel only.  
\textit{Kerameikos IV}, inv. no. 1069, pp. 7–8, 13, 37, pl. 5;  
Desborough 1952, pp. 11, 83–84, 87.  
Developed Protogeometric

\textbf{A2.} Kerameikos Tomb 34, inv. no. 1072  
Skyphos. Attic.  
Painted X beneath one of the handles.  
\textit{Kerameikos IV}, inv. no. 1072, pp. 8, 11, 37, pl. 22;  
Desborough 1952, pp. 11, 83–84, 87.  
Developed Protogeometric

\textbf{A3.} Agora Tomb XV, P 6693  
Belly-handled amphora. Attic.  
Painted + beneath one of the handles.

\textbf{Unpublished} (mentioned in Desborough 1952, p. 11).  
Late Protogeometric

\textbf{A4.} Agora Well L 11:1, Lot \(\Omega\Delta\) 145:44  
Base fragment, one-handled cup (rather than skyphos) with high conical foot. Attic.  
Painted X on underside.  
Unpublished.  
Early Protogeometric

\textbf{A5.} Agora Well L 11:1, Lot \(\Omega\Delta\) 145:26 \textit{bis}  
Base fragment, small open vessel with low ring foot. Attic.  
Painted mark (as shown) on underside.  
Unpublished.  
Early Protogeometric

\textbf{A6.} Agora Well J 14:2, P 23499  
Base fragment, small open vessel (skyphos or one-handled cup) with high conical foot. Attic.

\textsuperscript{17} Boardman 1972, p. 112.

\textsuperscript{18} This aspect is discussed more fully below, pp. 470–471, 483–484.

\textsuperscript{19} Pfaff 1988, p. 40.

\textsuperscript{20} \textit{Ibid.}, pp. 39–40.
Fig. 1. Athens, Kerameikos: **A1** (1:5) and **A2** (1:3)

Portions of five irregular strokes radiating from center of underside.
Unpublished.
Early Protogeometric

**A7.** Agora Well L 6:2, P 6423  
Fig. 3, Pl. 109: c–e  
Painted + on neck on one side of vessel only.

Unpublished; noted in C. W. Blegen 1952, p. 282;  
Agora VIII, p. 32, under no. 15.
Middle Geometric

**A8.** Agora Well L 18:2, P 12434  
Fig. 3, Pl. 110: a, b  
Fragmentary neck-handled amphora. Attic.
Painted cross (†) or other symbol on neck on one side of vessel.
Fig. 2. Athens, Agora: A3 (1:5) and A4–A6 (1:1)
**Agora VIII**, no. 15, p. 32, pl. 2; Brann 1961, p. 323, discussion under F 1.
Late Geometric (third quarter 8th century B.C.)
Cf. Agora Well M 13:1, P 27939
Two asterisks (eight-pointed stars), one at center on each side of vase.
Unpublished.
Middle Geometric II

**Aigina**

**A9.** Aigina Museum (no inv. no.) Pl. 110:c, d
Skyphos. From Aigina, exact provenance unknown. Probably Attic (see below).
Painted X below which is a small altarlike motif, partially overlapping the X, beneath one of the handles. Similar altarlike motif below the other handle (information from E. L. Smithson).

**Kraiker** 1951, no. 18, p. 24, pl. 1; Desborough 1952, pp. 86–87.
Late Protogeometric/Early Geometric

**Crete (Attic Imports)**

**A10.** Fortetsa Tomb VI [20] Pl. 110:e
Skyphos. Attic.
Painted X beneath one handle.
Brock 1957, no. 58, p. 13, pl. 7; Desborough 1952, pp. 83–84, pl. 33.
Developed Protogeometric

**A11.** Fortetsa Tomb XI [16a] Pl. 110:f
Skyphos. Attic.
Painted X beneath one handle.
Brock 1957, no. 187, p. 21, pl. 12; Desborough 1952, pp. 83–84, pl. 33.
Developed Protogeometric

**Fig. 3. Athens, Agora: A7 and A8 (1:5)**
EUBOIA

A12. Lefkandi, Toumba Building, no. 465
    Fragmentary neck and rim, neck-handled amphora. Euboian.

Painted + on center of neck (perhaps on both sides of the vase?).

_Lejkandi_ II, i, no. 465, p. 116, pls. 28, 64.
Middle Protogeometric

A13. Lefkandi, Toumba Building, Fig. 4, Pl. 111:e
    no. 466
    Fragmentary neck and rim, neck-handled amphora. Euboian.

Partially preserved, large painted X on neck, apparently only on one side of vase.

_Lejkandi_ II, i, no. 466, p. 116, pls. 28, 64.
Middle Protogeometric

A14. Lefkandi, Toumba Building, Fig. 4, Pl. 111:f
    no. 474
    Fragmentary hydria neck and rim. Euboian.

Small, partially preserved, painted + on center of neck.

_Lejkandi_ II, i, no. 474, p. 117, pls. 29, 67.
Middle Protogeometric

A15. Lefkandi, Toumba Building, Fig. 4, Pl. 111:b
    no. 492
    Neck and rim fragment, neck-handled amphora or hydria. Euboian.

Painted + on center of neck.

_Lejkandi_ II, i, no. 492, p. 118, pls. 30, 68.
Middle Protogeometric

A16. Lefkandi, Toumba Building, Pl. 111:c
    no. 508
    Neck fragment, neck-handled amphora or hydria. Euboian.

Partially preserved painted + on center(?) of neck.

_Lejkandi_ II, i, no. 508, p. 118, pl. 30.
Middle Protogeometric

Fig. 4. Lefkandi: A12–A15 (1:5) and A18 (1:3)
EARLY IRON AGE POTTERS’ MARKS IN THE AEGEAN

A17. Lefkandi, Toumba Building, Pl. 111:d no. 509 Neck fragment, neck-handled amphora or hydria. Euboian. Partially preserved painted + on center(?) of neck. Lefkandi II, i, no. 509, p. 118, pl. 30. Middle Protogeometric

A18. Lefkandi, Toumba Building, Fig. 4 no. 252 Lower body and foot fragment, small open vessel with high conical foot. Euboian. Partially preserved painted X on underside. Lefkandi II, i, no. 252, p. 107, pl. 51. Middle Protogeometric

A19. Lefkandi, “Xeropolis” settlement, no. 39 Fragmentary neck and rim, amphora. Euboian. Painted double axe on neck on preserved side of vase; to right, at break, graffito A (incised after firing?). Lefkandi I, no. 39, pp. 60, 71, 93, pl. 40. Late Geometric

CYCLADES


ARGOLID

Mycenae


A23. Mycenae Tomb G II (vases outside), inv. no. 53-325 One-handled cup. Argive. Painted asterisk on underside. Desborough 1954, no. 5, p. 261, pl. 44, no. 53-325; Coldstream 1968a, p. 120. Middle Geometric II

Argos


Painted mark at center of underside consisting of five parallel zigzags framed on all four sides by single zigzags.

*Corinthis* 1966, p. 311, note 2, pl. 85.

**Late Geometric**

Compare also the following pieces, which bear more complicated motifs on their undersides (probably decorative elements rather than potters' marks):


*Tiryns*

*A31?* Tiryns Grave 14[b]

Handmade kantharos. Argive.

Painted X in red on underside.


The vessel, though listed as Geometric, has a Middle Helladic look about it.

*A32.* Tiryns Cemetery (but not from tomb)

Fragmentary krater. Argive.

Painted X under preserved handle.


**Late Geometric**

*A33?* Tiryns, Nauplion Museum 3817,

Pyxis. Argive.

Painted X on underside.


Geometric

*A34?* Tiryns (unpublished)

Fragmentary plate. Argive.

Painted X on underside.


Geometric

**Corinthia**

*A35.* Klenia, CP-2217

Oinochoe. Corinthian.

Painted asterisk ("eight-pointed star") on underside.


Middle Geometric I


**Messenia**

*A36.* Nichoria, P815

Pl. 113:e

Fragmentary cup base. Local.

Thick, painted X surrounded by thin circular band on underside.

*Nichoria* III, P815, p. 219, pl. 3:71.

**Dark Age II Period (ca. 975–850 B.C.)**

Compare a likely painted X on the underside of a two-handled jar from the Geometric or Subgeometric levels overlying the Mycenaean palace at Ano Englianos, Pylos. The vase in question is perhaps that published in *Pylos* I, no. 617?, p. 185, pl. 347. The piece is discussed more fully below.

**Ithaka**

*A37.* Aitos, Lower Deposit

Kantharos. Local.

Underside described as "cross-hatched . . . perhaps a potter’s mark." *Robertson* 1948, no. 357, pp. 66–69, fig. 40, pl. 23; *Coldstream* 1968a, p. 224, note 3, p. 227.

**Late Geometric**

**Macedonia**

*A38.* Kastanas Toumba,

Fig. 5, Pl. 113:f

inv. no. 5048,

Fragmentary neck-handled amphora. Local (Central Macedonian).

Eighteen painted dots arranged in three vertical rows of six, to one side of and slightly above lower attachment of one of the handles.

*Hänsel* 1979, no. 3, p. 198, fig. 18 (mark not illustrated).

Sub-Protogeometric

**Rhodes**

*A39.* Exochi Tomb D, no. 8

Fig. 5

Oinochoe. Rhodian.

Sun pattern, consisting of eleven-pointed star emanating from central disk on underside.

*Friis Johansen* 1958, D 8, p. 37, fig. 69:a, b; *Coldstream* 1968a, p. 274.

**Late Geometric**

Compare the partially preserved painted "swastika" on the underside of the fragmentary oinochoe base from Exochi: *Friis Johansen* 1958, Z 7, pp. 70, 72, fig. 146.
GROUP B. INCISED SYMBOLS, INCLUDING IMPRESSED DOTS, ON WHEELMADE AND HANDMADE POTTERY

(i) Wheelmade, Painted Pottery

Athens

B1. Agora Tomb Q 8:5, Fig. 6, Pl. 114:a, b
P 23555,
Miniature high-footed cup. Attic.
Incised vertical stroke at base of handle.
Unpublished.
Earlier/Developed Protogeometric

Fig. 5. Kastanas: A38 (1:6, detail 1:1). Exochi: A39 (1:1)

Fig. 6. Athens, Agora: B1 (1:2)
EUBOIA

B2. Lefkandi, "Xeropolis" settlement, Pl. 114:c no. 171 (=111[m])
Body fragment from shoulder of large jug or amphora. Imported?
Mark partially preserved, consisting of at least three short vertical lines with horizontal line scored across them.
Lefkandi I, pp. 91, 93, no. 111(m), pl. 16, no. 171, pl. 69:m.
Sub-Protogeometric I–II (=Attic Early Geometric I–II)

(ii) Handmade Pottery

THESSALY

B3. Marmariani Tomb V, no. 6 Fig. 7
Handmade jug with cutaway neck. Thessalian or Macedonian.
Eight incised diagonal strokes on outer face of handle towards handle base.
Heurtley and Skeat 1930/1931, no. 6, pp. 13–14, fig. 4 (mark not illustrated).
Late Protogeometric

Fig. 7. Marmariani: B3 (1:1)

CHALKIDIKE

B4. Torone Tomb 10, no. 1 Figs. 8, 10, Pl. 114:d (inv. no. 84.22)
Fragmentary handmade kantharos. Local.
Incised motif on outer face of one handle towards handle base.

Unpublished.
Submycenaean/Early Protogeometric

B5. Torone Tomb 10, no. 3 Figs. 8, 10, Pl. 114:e (inv. no. 84.04)
Handmade kantharos. Local.
Three incised vertical strokes on outer face of handle at juncture with body.
Unpublished.
Submycenaean/Early Protogeometric

B6. Torone Tomb 38, no. 2 Figs. 8, 10, Pl. 114:f (inv. no. 81.08)
Handmade jug with cutaway neck, almost complete. Local.
Three incised strokes (two vertical, the other diagonal) on outer face of handle at juncture with body. Fourth stroke, incised after firing, located between central and right-hand strokes.
Unpublished.
Protogeometric

B7. Torone Tomb 66, no. 1 Figs. 8, 10, Pl. 115:a (inv. no. 81.832)
Fragmentary, handmade one-handed cup/kyathos. Local.
Fourteen preserved impressed dots on body immediately to left of lower handle attachment.
Unpublished.
Protogeometric

B8. Torone Tomb 75, no. 2 Figs. 9, 10, (inv. no. 82.716A) Pl. 115:b, d
Fragmentary, handmade jug with cutaway neck. Local.
Two impressed dots on body immediately below handle; also three incised motifs on body of vase, each directly above a mastos or lug handle.
Unpublished.
Late Protogeometric

B9. Torone Tomb 82, no. 3 Figs. 9, 10, Pl. 115:c (inv. no. 81.822)
Handmade jug with cutaway neck, almost complete. Local.
Incised arrow- or A-shaped motif on body immediately below handle.
Unpublished.
Late Protogeometric/Sub-Protogeometric
Fig. 8. Torone: B4–B7 (1:3)
Fig. 9. Torone: B8–B10 (1:3)

Fig. 10. Torone: details of B4–B10 (1:1)
**B10.** Torone Tomb 41, no. 3  Figs. 9, 10, Pl. 115:e (inv. no. 81.07)  
Handmade jug with cutaway neck, almost complete. Local.  
Incised motif with impressed dots, as shown, on body immediately below handle. Horizontal line incised after firing traverses central part of mark.  
Unpublished.  
Late Protogeometric

**B11.** Torone Tomb 18, no. 1  Fig. 11, Pl. 115:f (inv. no. 82.70)  
Handmade two-handled jar (amphora). Local.  
Five incised short strokes set vertically in line on upper shoulder on one side of vessel.  
Unpublished.  
Protogeometric

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**B12.** Corinth, Well 1981-6, C-1982-168  
Neck and rim fragment, hydria. Corinthian.  
Three incised horizontal strokes at top of handle near upper attachment.  
Pfaff 1988, no. 74, p. 66, fig. 23.  
Middle Geometric II

**B13.** Corinth, Well 1963-7  
Fig. 12, Pl. 116:a, b at Anaploga, C-63-650  
Amphora. Corinthian.  
Three incised vertical strokes on neck on one side of vessel.  
Pfaff 1988, p. 66, note 188, p. 63, fig. 22.  
Early Geometric or Middle Geometric I

**B14.** Corinth, Well 1940-5, C-40-370  
Amphora. Corinthian.  
Three incised vertical strokes at top of one handle.  
Weinberg 1948, C16, p. 212, pl. 76; Pfaff 1988, p. 166, note 189.  
Late Geometric or Early Protocorinthian

Compare another Corinthian amphora (P 6434 [D3]), imported to Athens and found in the fill of a Middle Geometric well in the Athenian Agora (Well L 6:2). The vessel (Agora VIII, no. 242, p. 59, pl. 13), dated to the first half of the 8th century B.C., has a straight line of eleven impressed dots down one handle; on the other, a total of fifteen impressed dots. There is a finger or thumb impression at the base of each handle. This amphora is considered by Brann (Agora VIII, p. 59) to be the earliest Corinthian import in the post-Mycenaean pottery groups from the area of the later Athenian Agora. She notes a similar imported amphora at Phaleron, dated to the early 7th century B.C.; Young 1942, p. 29, fig. 7.

Compare a miniature handmade jug, Corinth CP-1907 (Corinth VII, i, no. 18, p. 7, pl. 2), said to have two horizontal incised lines below the handle and near the bottom; it is not clear whether these lines represent incised decoration on the body, nor is it stated whether they were incised before or after firing.

Compare the recently published incised marks on the locally produced pottery from the Protohistoric settlement on the Cittadella at Morgantina in central Sicily: Morgantina IV, p. 60. The marks are all incised and are found either under one of the handles of three pithoi (Morgantina IV, no. 95, p. 171, pls. 32 and 76; no. 552, p. 209, pls. 52 and 141; no. 6, pp. 214–215, pls. 55 and 151) or else on the underside of a variety of pots, including plumed vessels and carinated cups (Morgantina IV, nos. 61, 116, 171, 174, 184, 187, 292, 380, 438, 588, p. 60).
Fig. 12. Corinth: B12–B14 (1:5)
GROUP C. STAMPED IMPRESSIONS ON COARSE-WARE VESSELS

CORINTH

C1. Corinth, Well 1981-6, C-1982-132
Shoulder and neck fragment, probably hydria(?). Corinthian.
Square stamp impression on upper part of handle showing framed human figure in relief.
Pfaff 1988, no. 73, pp. 65–66, figs. 23, 24, pl. 31.
Middle Geometric(?)

C2. Corinth, Well 1981-6, C-1982-131
Handle fragment, probably from pitcher(?). Corinthian.
Ovoid stamp impression at base of handle showing crude, eight-pointed star formed by four intersecting lines in relief.
Middle Geometric?

Pfaff 1988, no. 73, pp. 65–66, figs. 23, 24, pl. 31.
Middle Geometric

C3. Corinth, Well 1975-3, C-75-207
Amphora handle fragment. Corinthian.
Fig. 13. Corinth: C1 (1:5)
Oval stamp impression at base of handle consisting of X with V's filling quadrants.
Middle Geometric II

C4. Corinth, C-1983-55
Handle fragment, probably from pitcher. Corinthian.
Rectangular stamp impression showing standing human figure.
Late Geometric

Pithekoussai

C5. Pithekoussai
Fragmentary neck, closed vessel.
Rectangular (almost square) stamp impression at center of neck on one side of vessel showing scene interpreted as Ajax carrying corpse of Achilles.
Boardman 1972, pp. 112–113, 133, fig. 166; Buchner 1966, p. 11; Boardman 1968, p. 8.
Ca. 700 B.C.

GROUP D. FINGER OR THUMB IMPRESSIONS AT BASE OF HANDLE

(i) WHEELMADE, PAINTED POTTERY

ATHENS

D1. Athens Agora, Well U 26:4, P 17324
Shoulder and handle fragment, neck-handled amphora. Attic.
Finger impression at base of preserved handle.
Unpublished.
Latest Mycenaean/Submycenaean
Compare also, from the same deposit, a vertical handle from a large closed vessel with finger or thumb impression at the base of the shaft (P 30384, unpublished).

(ii) HANDMADE POTTERY

D2. Athens Agora, Well B 18:9, P 19040
Fragmentary chytra (restored). Attic.
Finger or thumb impression at base of handle.
Unpublished.
Middle Geometric II

D3. Athens Agora, Well L 6:2, P 6434
Fragmentary amphora (restored). Corinthian.
Fig. 14. Athens, Agora: D1 (1:5), D2 and D3 (1:4)
Finger or thumb impression at base of both handles; impressed dots on both handles (see above under B14).
*Agora* VIII, no. 242, p. 59, pl. 13.
**Middle Geometric II**

**CORINTH**

**D4.** Corinth, tomb below stoa in Forum, C-36-826 Oinochoe. Corinthian.
Finger or thumb impression at base of handle. *Corinth* VII, i, no. 88, p. 30, pl. 14; cf. E. P. Blegen 1937, p. 137, fig. 1.
**Late Geometric**

**D5.** Corinth, Well 1981-6, C-1982-133 Amphora. Corinthian.
Finger or thumb impression at base of both handles. Pfaff 1988, no. 68, p. 65.
**Middle Geometric**

**D6.** Corinth, Well 1981-6, C-1982-134 Amphora. Corinthian.
Finger or thumb impression at base of one handle, two at base of the other.
Pfaff 1988, no. 69, p. 65.
**Middle Geometric**

Finger or thumb impression at base of handle. Pfaff 1988, no. 87, p. 71.
**Middle Geometric**

**D8.** Corinth, Well 1981-6, C-1982-139 Chytra. Corinthian.
Finger or thumb impression at base of handle. Pfaff 1988, no. 115, p. 78.
**Middle Geometric**

Finger or thumb impression at base of handle. Pfaff 1988, no. 116, pp. 78–79.
**Middle Geometric**

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**GROUP E. PAINTED FIGURES (ATTIC PROTOGEOMETRIC HORSES AND BIRDS)**

**ATHENS**

**E1.** Kerameikos, inv. no. 1260 Fig. 15, Pl. 119:a, b Fragment of body of belly-handled amphora. Attic.
Painted horse in reserved field immediately below handle.
*Kerameikos* IV, pl. 27.
**Protogeometric**

**E2.** Kerameikos Tomb 18, Fig. 15, Pl. 119:c, d inv. no. 560 Belly-handled amphora. Attic.
Painted horse standing on horizontal band on body (below wavy lines), beside one of the horizontal handles.
*Kerameikos* I, pl. 56; *Kerameikos* IV, pl. 27.
**Developed Protogeometric**

**EUBOIA (ATTIC IMPORT) **

**E3.** Lefkandi, Toumba Tomb T39-19 Pl. 120:a, b Skyphos. Attic.
Painted bird in reserved area beneath each handle.

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**Popham, Pope, and Raison 1982b, p. 218, pl. 29:a–c. Late Protogeometric**

Compare the painted “centaur”? holding a palm-branch or tree under one of the handles of the Submycenaean/Early Protogeometric pyxis, *Kerameikos* XIII, pp. 13–15, fig. 3, p. 78, pl. 1:1, Beil. 1 (inv. no. 3030) from Grave N 120; Kourou 1989, p. 111, fig. 1. There are remains of a painted motif (described as “spiralartiges Motiv”) under the other handle, mostly not preserved. A palm branch or tree, along with other motifs, appears on the main body of the vessel in such a way as to suggest that the area under the handles forms only one element in a larger figured composition, as is the case in some Mycenaean pictorial vases (see note 122 below).

Compare the partially preserved painted horse under the handle of the fragmentary Middle Geometric I krater, *Kerameikos* V, i, inv. no. 1254, Grab 43, pl. 22; Benson 1970, pl. XXXII:4; Hurwit 1985, p. 64, figs. 29, 30. A human mourner is painted on the same vessel immediately to the left of the handle and slightly above it; compare the partially
Fig. 15. Athens, Kerameikos: E1 (1:2) and E2 (1:5)
preserved painted mourners under each handle of the fragmentary Middle Geometric II/Late Geometric I amphora, *Kerameikos* V, i, inv. no. 1214, pl. 49. Compare the partially preserved painted bird under the handle of the fragmentary Middle Geometric II krater from the Athenian Agora, P 6422 (Well L 6:2): Marwitz 1959, p. 106 (under heading IIa); Davison 1961, fig. 145; Coldstream 1968a, pp. 26–27. The area under the corresponding handle on the other side of the vase is not preserved. Compare Corinth C-1978-333, listed above under A35.

**COMMENTARY**

**Group A**

The Athenian potters’ marks first noted by Desborough though not actually labeled as such by him, including the two from Knossos, form a neatly defined and homogenous group of symbols. All are painted crosses normally found beneath the handle, except for the X on amphora A1, which is located on the neck on one side of the vase. The shapes represented include three skyphoi (A2, A10, A11) and two amphoras (A1, neck-handled; A3, belly-handled). All five vases were deposited in tombs either as ash urns or as *keratismata. A1* and A2 were both found in Tomb 34 of the so-called Precinct XX Cemetery south of the Eridanos in the area of the Athenian Kerameikos;21 A3 was found in Tomb XV in the area of the later Athenian Agora;22 and A10 and A11 derive, respectively, from Tombs VI and XI of the Fortetsa Cemetery near Knossos.23 All five vases may be assigned to the Protogeometric period, A1 and A2 being the earliest,24 A3 the latest of the five.25 Closely connected to this group is the skyphos from Aigina published by Kraiker (A9), which may well be of Athenian manufacture.26 Desborough considered the vase to be related

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21 For a plan of the Precinct XX Cemetery (primarily cremation tombs), see *Kerameikos* IV, Beil. 1; for the “Pompeion Cemetery” north of the Eridanos (primarily inhumation tombs), see *Kerameikos* I, Beil. 1. For the location of the two burial grounds in relation to each other, see Kübler 1942, p. 48, fig. 4; Müller-Karpe 1962, fig. 34. For a plan of the graves excavated in 1964 and 1965, see Schlörb-Vierneisel 1966, pl. 3. See further Styrenius 1967; Krause 1975; I. Morris 1987; Mountjoy (with Hankey) 1988; Whitley 1991; Papadopoulos 1993.
22 This grave will be published more fully in the forthcoming volume by E. L. Smithson and J. K. Papadopoulos on the Submycenaean through Middle Geometric pottery from the Athenian Agora.
23 See note 3 above.
25 Desborough, though not specifically citing Agora P 6693, considered the scheme of paint over the lower part of the body of a belly-handled amphora coupled with the covering of the shoulder and neck with paint, thus leaving the belly zone clear of any decoration (as is the case of P 6693), as “indications of extreme lateness in the series”; see Desborough 1952, p. 30.
26 I have not seen the vase, nor do I know its current whereabouts (presumably Aigina, though it is not currently on display). Both Kraiker and Desborough refer to the X under one handle: Kraiker 1951, no. 18, p. 24; Desborough 1952, pp. 86–87. The vase was studied by Professor Evelyn L. Smithson, to whom I am grateful for providing me with her notes on it; concerning provenance she states that the “clay looks Attic” (see Pl. 110:d).
to his Type IVa skyphos;\textsuperscript{27} it is best accommodated in the Late Protogeometric or Early Geometric I period.\textsuperscript{28} Unfortunately, there are no details on its context.\textsuperscript{29}

The isolated cross on A1 finds parallels on two later pieces from the Athenian Agora. The first of these, A7, has a painted cross on one side of the neck of this previously unpublished amphora, found in the fill of a Middle Geometric well. A partially preserved cross or other symbol is also on one side of the fragmentary amphora A8, which was found in the fill of a Late Geometric well. These pieces differ from A1 only in that the crosses are upright and that both derive from nonfunerary contexts. On yet another unpublished amphora from the Athenian Agora (P 27939), there is an isolated asterisk (eight-pointed star) on both sides of the vessel (cf. asterisks on A23, A29, A35). I have listed this piece above only for comparison, since the fact that the motif appears on both sides of the vase may indicate a decorative function.

The other three previously unpublished fragments from the Agora (A4–A6) differ from the remainder of the Athenian examples in that the marks appear on the undersides of open vessels. As was the case with A7 and A8, A4–A6 derive from nonfunerary contexts. All three may be dated to the early stages of Protogeometric: A6 comes from the fill of Well J 14:2, the so-called Heliaia well, which is assigned to the “earliest Protogeometric phase (PG I).”\textsuperscript{30} The total yield of the well was some 1,000 pieces, from which this is the only conceivable potter’s mark. The mark itself is unique and was described by Evelyn Smithson as perhaps “brush wipings”.\textsuperscript{31} Such an interpretation is possible, particularly in view of the quantity of potters’ refuse deposited in wells, but the location of the irregular strokes on the underside, similar to other marks discussed below, and the absence of similar “wipings” on other pots may suggest that it was painted intentionally; it is listed here as a query. A4 and A5 both derive from Well L 11:1, which has been assigned to “Early Protogeometric (PG II)”, that is, both pieces are considered to be slightly later than A6. This well yielded almost 2,000 pieces, including clear evidence of potters’ refuse.\textsuperscript{32} The painted cross on the underside of the tall conical foot of a one-handled cup (A4) is similar to many marks found on the undersides of open vessels throughout the Aegean. Its closest parallel, in terms of both the mark and the shape of the vessel on which it appears, is A18 from Lefkandi, which is of near-contemporary date. Both A4 and A6 are open vessels with tall conical feet. The mark on the underside of A5, which can only be described as an irregular stroke, appears on a small open vessel with a ring foot.

Another well-defined group of painted crosses (X and +) is that which appears on a number of recently published fragments from Lefkandi (A12–A18). The seven Protogeometric examples presented here derive from the fill associated with the large building near

\textsuperscript{27} Desborough 1952, p. 86. A2 is an earlier example of the same type. It should be noted that one handle is missing on A9, as is the foot-plate.

\textsuperscript{28} E. L. Smithson, personal communication.

\textsuperscript{29} Kraiker (1951, p. 24) describes it as a Streufund. The condition of the vase may suggest that it was deposited in a tomb; cf. Desborough 1952, p. 86.

\textsuperscript{30} E. L. Smithson, unpublished draft MS of the catalogue of the Early Iron Age pottery from the Athenian Agora.

\textsuperscript{31} *Ibid.*

\textsuperscript{32} Thompson 1950, p. 37, pl. 16; cf. Thompson 1947, p. 202; *Agora* XIV, p. 186.
the site of the Toumba cemetery, often referred to as the "Heroön". This fill, which yielded a large quantity of fragmentary pottery, contained material largely dating to the Middle Protogeometric period, although smaller quantities of earlier residual pottery were recorded. With the exception of A18, the X's were all painted on the necks of large closed vessels, either neck-handled amphoras or hydriai; a cross is also found on the underside of A18. All seven vases are assumed to be of local manufacture. In terms of shape and the position of the marks on the vase, the Euboian examples A12–A17 are closely related to A1 from the Kerameikos and are probably of contemporary, or near-contemporary, date (cf. A7 and A8; also the position of the three strokes on B13, which is later). With the exception of A13, the Lefkandi crosses are upright. Unlike their contemporary Athenian counterpart (A1), however, the Lefkandi pieces were not deposited in tombs but derive from a context considered by the excavators as nonfunerary, albeit one closely related to a well-known cemetery. The argument that this building may be seen as some sort of Grabbau is worthy of further consideration.

The crosses on the necks of A1, A7, A8, and A12–A17 differ in style and conception from those in the same position on a number of neck-handled amphoras of Protogeometric date, particularly those of Thessaly. The latter, especially the amphoras from Marmariani, are distinguished by the fact that the X's are larger, appear on both sides of the vase, and clearly constitute part of the decorative scheme of the vessel inasmuch as the X's represent the continuation, onto the neck, of the painted decoration of the handles. It is also common to find on these vases the painted decoration of the handle extending well below it, onto the body of the vase. It is worth adding that the Thessalian amphoras (Late Protogeometric) are later than A1 and A12–A17 (Early–Middle Protogeometric).

Another possible potter's mark from Lefkandi is found on the fragmentary neck of an amphora from the Xeropolis settlement (A19), dated to the Late Geometric period. The mark is unique in that it shows a double axe and, as such, is perhaps better accommodated in

33 See, for example, Popham, Pope, and Raison 1982a, pp. 169–174. See also Calligas 1988. See now Lefkandi II, ii.
34 Lefkandi II, i, passim, especially pp. 86, 91–94.
35 See note 33 above.
36 Such an argument seems, on the basis of current consensus, unlikely, although the fact that the "Hero", or "Heroine", of Lefkandi and his or her probable or apparent consort were buried under the floor of the building (or the building was erected on top of them) is an aspect deserving further discussion. The evidence from the building is now fully discussed in Lefkandi II, ii. For a study of Grabbauten in the Greek world, including some buildings which are clearly not, see Themelis 1976.
37 Heurtley and Skeat 1930/1931, nos. 78, 79, pl. VI, cf. also no. 77, with horizontal bands on the neck; Desborough 1952, nos. 77–79, pl. 22. The exception to this may be A13, which is reconstructed with a large X: Lefkandi II, i, no. 466, pl. 64.
38 See Heurtley and Skeat 1930/1931 and Desborough 1952 in note 37 above (loc. cit.); see further Verdelis 1958, pp. 91–93.
39 This is clearly seen also on a Thessalian Late Protogeometric neck-handled amphora found at Knossos: Coldstream 1991, p. 292, fig. 6.
40 See, for example, Verdelis 1958, pl. 1; for the recently published Thessalian Protogeometric pottery from Iolkos, see Sipsie-Eschbach 1991.
41 Lefkandi I, no. 39, pp. 60, 71, 93, pl. 40. For isolated double axes in Argive Geometric, see Coldstream 1968a, p. 123.
Group E. The piece is of further interest since to the right of the painted axe, at the break, is an alphabetic graffito, alpha, evidently incised after firing. The fragmentary state of the vase is such as to make it impossible to determine whether the axe was part of the decorative scheme or indeed a potter's mark. Its apparently isolated position on the neck of an amphora is close to the crosses on A1, A7, A8, and A12–A17.

A third group of potters' marks, primarily painted crosses, is found on the undersides of a number of predominantly open vessels of the Geometric period. Their positions on vases, easily overlooked, may suggest that the occurrence of such marks is more common than is indicated here. The earliest of these, A4–A6 from Athens and A18 from Lefkandi, have already been noted. The largest number of such marks is found in the Argolid at Mycenae, Tiryns, and Argos;42 there is a Cycladic example from Rheneia (A20)43 and a fragmentary one from Nichoria in Messenia (A36). In writing about the latter, William Coulson notes that no parallels for the painted X on the underside, which he refers to as decoration, are to be found in Messenia or in west Greece or Lakonia.44 The Nichoria cup is assigned to the so-called Dark Age II period, which is dated to ca. 975–850 B.C.45 Somewhat later is a two-handled vase from Pylos cryptically listed above under Messenia but not catalogued, which has a possible painted X on its underside.46 It appears to have been found in a Late Geometric or Subgeometric deposit, thought to be associated with an olive press, overlying the ruins of the Mycenaean palace at Ano Englianos. Carl Blegen continually refers to a “black oily matter”, particularly in the area of Room 40, Court 42, and the Northeast Gateway 41, which caused some damage, presumably because of its acidic content, to some of the Mycenaean blocks in the underlying levels.47 A reference in the final publication to an olive press dates it to about 600 B.C.48 Blegen assigned the pottery recovered from this deposit to a “late Geometric phase”, dating it perhaps to the turn from the 7th to the 6th century,49 Nicholas Coldstream refers to the same material as Late Geometric or perhaps Subgeometric.50

Of similar date to the Nichoria cup are the cup from Rheneia (A20) and two from Mycenae (A21, A22), all three found in tombs, which are very similar to one another in

42 There do not appear to be any potters' marks among the Protogeometric finds from Asine, for which see Asine II, iv.
43 In publishing the cup, Desborough (1952, p. 157) made no reference to the painted X on its underside. I am grateful to Dr. Wolfgang Mayr for bringing this vase to my attention and for providing photographs of it.
44 Nichoria III, pp. 80–81.
45 Ibid.
46 In going through the late Evelyn Smithson’s notes, I came across a reference to a painted cross on the underside of a two-handled vessel from the “Olive Press Area” at Pylos. Smithson included the piece under the numbers M147, M150, M182, none of which seems to match up with any of the publication numbers in Pylos I or III, both of which include “Geometric” material found in levels postdating the Mycenaean Palace. Smithson jotted a cursory description of the vase and included a rough sketch of both the vase and the mark in question. On the basis of these notes, the most likely candidate is Pylos I, no. 617, p. 185, pl. 347, although the published description of the vase makes no reference to any painted mark on the underside. As I am uncertain about virtually all aspects of this vase, I thought it best to list but not to catalogue it.
48 Ibid., p. 177.
49 Ibid., p. 184.
50 Coldstream 1977, p. 162.
details of shape and decoration. The bodies of the two cups from Mycenae are solidly painted, and their handles are barred; the cup from Rheneia is of nearly identical shape and decoration, although it has a small reserved band around the short, almost straight lip and a smaller reserved band at the base. The cross on the underside of A21 is somewhat thinner than that on A22 (the latter also has a painted band around the edge of the underside), while some of the terminals of the X on A20 extend onto the thin reserved band at the juncture of base and body. Closely related to these cups are two from Argos (A24, A25); similar painted crosses are also found on the undersides of three fragmentary skyphoi or kantharoi from Argos, mostly of the Late Geometric period (A26–A28). Another one-handled cup from Mycenae (A23), assigned by Coldstream to the Middle Geometric II period,51 has a painted asterisk on its underside; a similar asterisk is found on the base fragment of the small open vessel A29 from Argos, assigned by Courbin to his géométrique ancien (Early Geometric) period,52 and on the underside of a Middle Geometric I oinochoe from Klenia near Corinth (A35).53 A related painted symbol is also found on the underside of a Rhodian oinochoe from Exochi (A39); it differs from the other asterisks in that it consists of eleven rays emanating from a central painted dot or disk and is therefore best described as a “sun pattern”.54 Asterisks and concentric circles, as well as more complex designs, are also commonly found on the undersides of Proto-geometric and Geometric kalathoi (terracotta “baskets”).55 These have not been included here, since the inspiration for such designs, on a shape as specific as the kalathos, is surely basketry.56 The influence of basketry on Early Iron Age pottery has been discussed by a number of scholars.57 It seems unlikely, however, that such an influence served as the inspiration for the asterisks on A23, A29, and A35 (cf. A39) or the painted crosses on the undersides of A4, A18, A20–A22, A24–A28, and A36, since these occur on drinking vessels (skyphoi, cups, and kantharoi) or oinochoai, which are not normally associated with plektonic weaving. Moreover, whereas asterisks and the like are usual for kalathoi, they are not standard for Early Iron Age drinking or pouring vessels.

The mark on the fragmentary oinochoe base from Argos (A30) is unique; it consists of five parallel zigzags framed on all four sides by single zigzags. The only other oinochoai listed here with marks on their undersides, A35 and A39, have already been mentioned. In the context of Argive Late Geometric, John Boardman has argued that the multiple zigzag may, in certain cases, represent water.58 It is therefore tempting to assume that the design on

51 Coldstream 1968a, p. 120.
52 Courbin 1966, no. C.4666, p. 311, note 2, pl. 76.
54 Friis Johansen 1958, D 8, p. 37, fig. 69:a, b. This motif does not appear in the list of Geometric motifs assembled by Coldstream (1968a, pp. 395–397); the various types of “stars” and the distinctive “sunburst” discussed by him are different from the symbol on A39.
55 Desborough 1952, pp. 113–117; cf. Smithson 1968, pp. 98–103, pl. 34, esp. nos. 28, 29; Lefkandi I, no. 492, pl. 22; Pfaff 1988, p. 56, note 157; PM II, i, pp. 134–135; Coldstream 1992, no. GH 8, pl. 58, no. 8, pl. 68.
58 Boardman 1983, esp. p. 19, with fig. 2.4:a, b (= Courbin 1966, pl. 40). Courbin (1966, p. 475) sees the multiple wavy lines as the offspring of the old multiple-brush pattern. To this, Boardman (1983, p. 19) adds that
the underside of A30 may denote "water" or "liquid". In discussing the Argive material, Paul Courbin comments on the treatment of undersides: "Dans l'immense majorité des cas il est d'ailleurs réservé; cependant, il existe quelques exemples où il est orné d'un motif, le plus souvent une simple croix, parfois d'autres motifs." Similarly, Christopher Pfaff remarks: "Decoration occurs on the undersides of a variety of Middle Geometric and Late Geometric vessels at Corinth, but the practice was never widely adopted."

The four pieces from Tiryns are problematic. Painted crosses are said to be found on the undersides of the pyxis A33 and the plate A34, but I have not had occasion to see these vases. The X on A34 is probably decorative, since the undersides of Geometric plates and dishes are normally decorated with a variety of designs. I have included it here in order to draw attention to the occurrence of crosses on plates, but I have otherwise not catalogued plates. Similarly, the undersides of pyxides of the Geometric period are usually decorated. Though listed as Geometric, the handmade kantharos A31 from Tiryns Grave 14 has a Middle Helladic look about it and may be earlier. The painted X under the preserved handle of the large but fragmentary Late Geometric krater A32 is listed here with a query: painted decoration under the handles of large Late Geometric kraters is very common, and it is not clear whether this X is a potter's mark or decorative.

Similarly problematic is the kantharos from Aitos (A37); in describing the vase, Martin Robertson states that "the foot is cross-hatched underneath, perhaps a potter's mark," but he provides no illustration of the mark. Coldstream has assigned the vessel to Ithakan Late Geometric I.

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not all such designs are made by the multiple brush and states that "even if this were their origin it would not deny them the possibility of serving a more realistic purpose too."

59 Courbin 1966, p. 311.
60 Pfaff 1988, p. 56. Pfaff goes on to list all inventoried vases of the Geometric period at Corinth which have "decorated" undersides. Of the thirteen pieces listed (including Pfaff 1988, no. 47, p. 56), seven are kalathoi with either concentric circles (three examples), asterisks or eight-pointed stars (two), a plain cross (one), or a triple banded cross on their undersides. The remainder include A35 and the piece cited above in the catalogue for comparison, in addition to two protokotylai, a globular aryballos, and a plate, each with painted concentric circles on their undersides. See also Corinth VII, i, no. 46, p. 14, pl. 8. For painted spirals and related designs on the underside of Rhodian Archaic pottery, see Vroulia (Rhodes), pp. 162–194.
61 For decoration on the undersides of Geometric plates, see, for example, Coldstream 1968a, passim; Cambitoglou et al. 1981, pp. 56–58; Délou XV, no. 4, pls. XXXIII, LI; Kerameikos V, i, pls. 101–104; Heurtey and Skeat 1930/1931, pl. VIII; Charitonides 1955; Friis Johansen 1958, p. 58, figs. 119, 120, p. 68, fig. 137; Mylonas 1975, III, no. 35, pl. 195, no. 53, pl. 200, pls. 395, 434:3.
62 Coldstream 1968a, passim, esp. pl. 9:f–n; Kerameikos V, i, pls. 61–65; Kerameikos XIII, no. 11, pl. 11, pls. 15–17, 19, 23, 25, 27–36, 42–44.
63 Again, I have not had occasion to study the vase firsthand, and it is difficult to ascertain details from the published photograph in Tiryns I, ii, pl. XV:11. For Middle Helladic vases found in Geometric tombs at Tiryns, see, for example, Verdelis 1963, esp. Beil. 21, no. 2. Cf. the painted and incised X's on the undersides of a late Middle Helladic kantharos from Tsoungiza (Rutter 1990, no. 19, p. 432, fig. 11) and a Late Helladic I Aiginetan krater from Lerna (Zerner 1988, no. 23, fig. 8); cf. further Zerner 1990, pp. 23–34.
64 Coldstream 1968a, passim.
65 Robertson 1948, no. 357, pp. 66–69, fig. 40, pl. 23. I have not seen the vase.
The only other painted potter's mark known to me, excepting the figured ones discussed below (Group E), comes as something of a curiosity inasmuch as it finds no parallel in terms of either the painted symbol or its positioning on the vase. It is found on the shoulder, to one side of and slightly above one of the handles of a neck-handled amphora from Kastanas Tumb (A38). The mark consists of eighteen painted dots arranged in three vertical rows of six. The fragmentary amphora on which it appears was found in the later levels of the site (Schichten 1–5) and is perhaps best classified as Sub-Protogeometric. Noteworthy is the fact that the vase has no funerary associations whatsoever. The closest parallels for this mark are the impressed dots discussed below (B7, B8, B10).

Such, then, are the painted potters' marks of Early Iron Age date of Group A. With the exception of A5, A6, A19, A23, A29, A30, A35, A37, A38, and A39, the marks are all crosses, set either vertically (†) or diagonally (X). They can be found either below the handle (or handles) of skyphoi (A2, A9–A11) or, less commonly, below the handle of a belly-handled amphora (A3), or else on the neck of neck-handled amphoras and hydriai (A1, A7, A8, A12–A17). They can also be found on the undersides of small open vessels such as one-handed cups, skyphoi, and kantharoi (A4, A18, A20–A22, A24–A28, A31, and A36) and perhaps also on the undersides of pyxides (A33) and plates (A34). Compared to the crosses, other painted symbols are rare: a painted asterisk is found on the underside of the one-handed cup A23, on the small open vessel A29, and on the undersides of the oinochoai A35 and A39, the latter best described as a “sun pattern”. The marks on A5, A6, A19, A30, A37, and A38 are unique.

A number of other painted designs or motifs, not listed here, are conceivably potters' marks. Notable among these is the vertical arrow, a particularly favored motif on the necks of Argive Middle Geometric II neck-handled amphoriskoi. I have not included these because such arrows normally occur on both sides of the vase and are usually found within a clearly rendered window, panel, or metope, which forms part of the structured syntax of geometric ornament.

Group B

This group comprises a number of symbols incised or impressed (but not stamped) on vases prior to firing. The group as a whole may be further subdivided into those marks incised on wheelmade painted pottery and those on handmade vessels. Of the symbols found on wheelmade pottery I have listed only two examples (B1, B2). There are surely more, but in scanning the available material there are problems in determining from published descriptions and illustrations whether the marks were incised before or after firing (see

67 Hänsel 1979, no. 3, p. 198, fig. 18. The amphora itself is illustrated but not the potter's mark.
68 Hänsel 1979, p. 197.
69 Cf. Coldstream 1968a, p. 121, pl. 24:h; Courbin 1966, C.2443, pl. 13; Tiryns I, ii, nos. 2, 3, 9, pl. 17; Verdelis 1963, Beil. 12, no. 7 (Gr. XVI:2), Beil. 23, no. 4 (Gr. III:4), and cf. no. 5.
70 The position of such arrows is often similar to that of linear or figured ornament on the necks of Geometric closed vessels; cf., for instance, Coldstream 1968a, pls. 7:b, c, 8:c, d, 16:6, e, 7:a, e, 18:b, 23:a, b, 24:c, d, f, 28:b, 33:a, b, 34:j, 41:c, 42:f, 43:a, 53:h; Keraeikos V, i, inv. no. 291, pl. 32 (compare the asterisk in a metope on the shoulder of the oinochoe, inv. no. 298, pl. 75); Mylonas 1975, III, no. 867, pl. 397. Compare also the asterisks on the amphora Athens, Agora P 27939, listed above under A8.
below and p. 467 below). By far the greatest number of symbols occurring on wheelmade painted pottery are graffiti incised after firing. In this respect the numerous inscriptions on sherds from Mount Hymettos, dating mostly to the 7th century B.C. or very late 8th, are illuminating. Of the 171 fragments catalogued by Merle Langdon, which add considerably to the earlier publications of Carl Blegen and Rodney Young and to which may be added another 380 uninventoryed sherds, there is no certain example of an inscription incised before firing.71 Langdon cautions, however, that the surface of a sherd was sometimes too worn to determine with certainty whether the inscription was incised before or after firing.72 Of the two incised marks on wheelmade pottery catalogued here, the earliest is B1. It consists of a short incised vertical stroke located at the base of the handle on a miniature high-footed cup from an unpublished tomb in the Athenian Agora. The position of the mark is identical to the more numerous marks on handmade pottery discussed below, particularly those from Torone. The tomb may be assigned to the early or developed stages of Protogeometric. The other example listed here is fittingly described by Lilian Jeffery as “heavily ploughed in the clay before firing.”73 In discussing the piece, Jeffery lists it among the nonalphabetic signs from Lefkandi, noting that it is probably not a xi but that “perhaps some kind of tally was intended or a merchant’s mark.”74 This was one of some thirteen published examples of graffiti on fragments of pottery and tiles from the Xeropolis settlement at Lefkandi. The others appear to be incised after firing, although one or two are dubious.75 It should be noted that of the thirteen fragments from the site, B2 is the earliest, assigned to Sub-Protogeometric I–II.76 Of particular interest is the fact that the fragment is from a vessel that was probably imported to Lefkandi.77

Potters’ marks incised before firing are relatively common on handmade pottery. The group as a whole includes those marks found on handmade burnished pottery which may reasonably be dated to the Protogeometric period or soon after (B3–B11) and those marks found on handmade coarse ware or domestic pottery of the Geometric period (B12–B14). For the former I have listed nine examples (there are probably more): eight from the Early Iron Age cemetery at Torone (B4–B11) and a ninth from Marmariani (B3). The nine marks are found on the lower handle or at the base of a handle, except for B11, where the mark

71 Langdon 1976, pp. 10–11, with note 11; the additional 380 pieces, each preserving only traces of inscribed strokes, are noted on p. 10, note 5. For the earlier publications, see C. W. Blegen 1934; Young 1940. Compare the Old Smyrna inscriptions on pottery: Jeffery 1964.
72 Langdon 1976, p. 11, note 11.
73 Lefkandi I, p. 91.
74 Ibid.
75 All but two of the sherds from Lefkandi are from plain or solid painted vases. The inscriptions on the latter are clearly incised after firing. The most dubious is no. 106(g) (Lefkandi I, pl. 69:g), described as “heavily incised”. I have not had occasion to inspect these pieces firsthand, and it is difficult to determine conclusively from the published photograph whether incision preceded or followed firing. The mark is not unlike the arrow- or lambda-shaped marks from Torone (see p. 468 below).
76 Lefkandi I, p. 89, where 111(m) is assigned to Sub-Protogeometric I–II, which is contemporary with Attic Early Geometric. 103(c) and perhaps 102(d) are Sub-Protogeometric III, as late as Middle Geometric II in the Attic sequence. The remainder are thought to be Late Geometric.
77 In Lefkandi I, p. 93, the clay of 111(m) is described as micaceous, and it is concluded that the piece was probably not local.
was incised on the shoulder on one side of the vase. Of the latter subgroup I know of three examples (again, there are probably more), all from Corinth. The largest number of this category as a whole, those from Torone (previously unpublished), may be dealt with first.

Excavations on Terrace V, on the lower north slopes of the Archaic and Classical city of Torone, uncovered an Early Iron Age cemetery yielding a total of 134 tombs, of which 118 were cremations. The remains of a Late Geometric potter’s kiln were also excavated, some 2.50 m. from the present-day terrace edge and about 1.25 m. northeast of the nearest tomb. The date of the kiln is assigned to the second half of the 8th century B.C.80 The tombs, on the other hand, range in date from “Submycenaean” to a time roughly contemporary with the end of Attic Early Geometric, if not slightly later, corresponding to Lefkandian Sub-Protogeometric.82 A total of over 500 pots and other small finds were recovered from the cemetery, while more recently, excavations on Promontory 1 (the Lekythos) at Torone have uncovered evidence of a settlement of contemporary date.83 The combined evidence of the cemetery, the kiln, and the more fragmentary material from Promontory 1 has established the existence of a local ceramic tradition with the production of both wheelmade painted and handmade burnished pottery. Of these two types of wares, the local wheelmade owes its inspiration to contemporary pottery from central and southern Greece, especially to the influence of Attic Early Protogeometric. The local handmade ware, on the other hand, is steeped in a Macedonian Bronze Age tradition. A similar situation is also seen at Vergina,84 Assiros Toumba,85 and Kastanas Toumba,86 although it should be stressed that the proportion of handmade pottery to wheelmade is considerably greater at those sites than at Torone, where the wheelmade far outnumber the handmade.87 Of the 544 vases


79 Papadopoulos 1989a.

80 Ibid., pp. 23–26.

81 That is, if “Submycenaean” is to be considered a distinct chronological entity. This is discussed at some length by, among others, Jeremy Rutter (1978, pp. 58–65); cf. Smithson 1982, p. 141, note 5; Mountjoy 1986, p. 194; Mountjoy 1988. See also ASINE II, iii, esp. pp. 85–86; Jacob-Felsch 1987; Jacob-Felsch 1988.

82 The chronology of the cemetery is more fully discussed in my forthcoming volume in the Torone series. It should be stressed that the latest tombs of the cemetery (ca. 850 B.C.) and the kiln (ca. 750–700 B.C.) are separated in time by about a century. As such, the pots produced in the Terrace V kiln were not specifically made for use in the cemetery. For the location of kilns on or near the site of an earlier cemetery, see Papadopoulos 1992, p. 220.

83 See references to Cambitoglou and Papadopoulos in note 78 above. The promontory is referred to as the Lekythos in Thucydides 4.113.

84 ΕΡΥΘΡΑ I; Petras 1963; Radt 1974.


86 Hänsel 1979 and especially Kastanas (a).

87 The figure at Torone is 139 handmade pots and 204 wheelmade (i.e., 40.5 percent of the pottery is handmade); this number is based on a straight count of all pottery deposited in tombs. A count of all the
recovered from tombs at Vergina excavated by Andronikos only 58 were wheelmade (i.e., 89.3 percent of the pottery is handmade),\(^\text{88}\) while at Kastanas Toumba handmade wares accounted for between 64 and 88 percent of the total pottery, the highest figure being typical of Level 7 (= K Period VII, 900–700 B.C.).\(^\text{89}\) The high proportion of wheelmade pottery at Torone not only provides an important body of new Macedonian material with clear central and southern Greek connections during the Early Iron Age but also suggests the mechanics by which southern Greek styles of pottery penetrated the inland regions of Macedonia through intermediary coastal sites like Torone.\(^\text{90}\) The various proportions of wheelmade to handmade pottery are important to note, since at Torone potters’ marks occur only on handmade vessels, whereas at Kastanas the solitary potter’s mark is on a wheelmade amphora.

There are eight incised symbols which may be classed as potters’ marks at Torone (\(\text{B4–B11}\)). As noted above, seven of the marks are found at the base of the lower handle attachment, or nearby, and only on handmade burnished vessels. The eighth is found isolated on the shoulder. The marks occur on four shapes, as follows:

- **Jugs with cutaway necks:** 4 examples (\(\text{B6, B8–B10}\))
- **Kantharoi:** 2 examples (\(\text{B4, B5}\))
- **Cup/kyathos:** 1 example (\(\text{B7}\))
- **Two-handled jar (amphora):** 1 example (\(\text{B11}\))

Chronologically, the eight marks do not appear to form a consistent group within the period of the use of the cemetery. The latest is \(\text{B9}\), which was found in the same tomb as one of the only two pendent-semicircle skyphoi from the burial ground.\(^\text{91}\) \(\text{B10}\) is earlier, probably Late Protogeometric to judge by the wheelmade painted pottery found in the same tomb, while \(\text{B8}\) is of similar, if not slightly earlier, date. The kantharoi \(\text{B4 and B5}\), recovered from one and the same tomb, belong to the earlier stages of the period of the use of the cemetery (Submycenaean or Early Protogeometric), and \(\text{B11}\) is best assigned to developed Early Iron Age pottery from Terrace V (including that from the kiln) gives a figure of 171 handmade as opposed to 269 wheelmade vases (i.e., 38.9 percent of the pottery is handmade). For Early Iron Age handmade wares elsewhere in Greece, see Reber 1991.

\(^\text{88}\) Cf. Desborough 1972, pp. 86, 216–220.
\(^\text{89}\) Kastanas (a), p. 12, fig. 1.
\(^\text{90}\) Some evidence supporting the important role played by coastal sites in Macedonia, particularly those of Chalkidike, comes from Assiros Toumba, where the results of clay analysis of a sample of Late Bronze Age sherds have indicated that the samples classed as “Provincial Mycenaean” (that is, implying a source in Macedonia other than Assiros) may well have been produced at a coastal site in Chalkidike; see Jones 1986, p. 494; Wardle 1980, p. 252. Jan Bouzek (1986), however, prefers to see such a production center near the Axios estuary. A comparable role played by coastal sites in Chalkidike may also be observed earlier, during the Middle Bronze Age and Early Mycenaean periods; see Cambitoglou and Papadopoulos 1993.

\(^\text{91}\) The pendent-semicircle skyphos found in the tomb (T82-2) was the only such skyphos in local fabric from the cemetery; the other, T77-3, is an import, perhaps Euboio-Thessalian rather than Cycladic. The pendent-semicircle skyphos is a hallmark of the regional \(\text{koine}\) comprising Euboia, Thessaly, the northern Cyclades, and Skyros during the later stages of the Late Protogeometric period and in the course of the Sub-Protogeometric; see Lemkundi I, pp. 291–292, 297–302; Desborough 1972, pp. 185–220; Desborough 1952, pp. 127–179; Desceoudres and Kearsley 1983, esp. pp. 41–52; Coldstream 1968a, pp. 148–157. The most recent study of the shape is that of Rosalinde Kearsley (1990). According to her typology, Torone T82-2 is best accommodated within the framework of Type 3, which she dates to the 9th century B.C. (contemporary with Attic Early Geometric–Middle Geometric I).
Protogeometric. The contexts of the remainder were less informative as to date; B6 was found with another handmade vessel, a pitharion, not precisely dated, and B7 served as the cinerary urn and was the only pot in the tomb.

The marks themselves were incised prior to firing and, in most cases, at a time when the fabric of the vase was quite dry, leather-to-bone hard rather than moist-to-leather hard. The difficulty of determining whether such marks were made before or after firing is fully discussed by Thomas Palaima et alia with reference to potters’ marks of the Bronze Age.92 It is therefore possible to establish, on the basis of the physical characteristics of the marks, whether they were made before or after firing.93 The very thin, cleanly incised lines of the marks on B4–B6, B9, and B10 contrast to the few instances of incised decoration on local handmade vessels, where the incisions, executed while the clay was less dry, are characterized by lines and strokes that are deeper and broader.94 The mark on the shoulder of B11 is the most deeply incised of the group (cf. B3). The Torone marks further contrast to incisions that are executed on the surface of the pot after firing, which normally have many tiny successive strokes of the cutting implement within the incision itself.95 The latter are generally less clean, on account of the resistance offered to the cutting implement by the hardened surface of the fired pot.96 It is worth noting that in the mark on B6, the third vertical stroke from the left is a scratch made after firing; it contrasts to the three strokes incised prior to firing (compare a similar scratch on B10; see p. 468 below). The dots on B7, B8, and B10 are fine and very shallow and were also impressed when the fabric was quite dry.

The eight Toronean potters’ marks comprise symbols which, descriptively, may be divided into four broad groups:

(a) Three vertical strokes: B5 and B6. Three neat, vertical strokes are found on one side of the vessel only, at the base of the lower handle attachment on the kantharos B5. Three similarly executed and located strokes are found on the jug B6, but here the stroke on the right is slightly more diagonal.

(b) Five vertical strokes in line: B11. Five comparatively deep strokes arranged in a vertical line were incised on the shoulder on one side of the two-handed jar or amphora, B11. Both the mark and its position are unique among the handmade wares included here. The only other catalogued mark that occurs on the shoulder of a pot is B2.

(y) Dots only: B7 and B8. A group of fourteen preserved dots, closely clustered together, are found on the body at the point of maximum diameter, immediately below and very slightly to the left of the lower handle attachment on the cup/kyathos B7. As the vessel is chipped at this point, there may well have been a few more dots originally. Two similarly

92 Palaima, Betancourt, and Meyer 1984, pp. 70–71.
93 Ibid. See further Daniel 1941, pp. 273–275; Stubbings 1951, p. 45; Edgar in Atkinson et al. 1904, p. 177.
94 Such incised decoration on handmade vases is rare at Torone; cf., for example, Torone T109-5.
95 Daniel 1941, p. 273, note 56; compare the many later graffiti in Agora XXI, passim.
96 Compare and contrast the well-known early Greek alphabetic inscriptions incised after firing, such as: Coldstream 1977, pp. 295–302; Snodgrass 1971, p. 351, fig. 111; Jeffery 1989, pls. 1, 9:18, 22:1, 47:1 and 3, 57:43b, 68:32a, 69:43 and 44. Also the graffiti from Xeropolis: Lefkandi I, pp. 89–93, pl. 69:a–l (incised after firing), m (= B2, incised prior to firing). Compare further the graffito at the base of the handle on the cup in the Mitsotakis Collection: Tsipoupolou 1984, II, p. 166, fig. 11, pl. 44; also that immediately below the handle on a Geometric cup from the Eleusis cemetery: Skias 1898, p. 58, fig. 4; compare also p. 85, fig. 18 (which is earlier), with a potter’s mark associated with a mastos, not unlike those on B8 below.
impressed dots are found on the jug B8 directly below the mastos at the base of the handle. B8 is of further interest since incision is found on the body of the vase, in the form of three motifs (not unlike the potter’s mark on B4) which are grouped above mastoi arranged symmetrically around the body of the vase (Fig. 9). Given the position of these motifs directly above mastoi, which, in effect, are lug or atrophied handles, and given the rarity of incised decoration on Toronean handmade pottery, it is possible that these motifs are also potters’ marks rather than decoration, although such repetition is unusual. Dots are also found on the more complex composite mark on B10.

(8) Arrow- or lambda-shaped marks: B4, B9, and B10. On B9 two diagonal lines cross over at the top to define a simple arrow- or lambda-shaped symbol. A similar mark is also found below one handle on the kantharos B4, but in this case the space defined by the two converging diagonals is filled with short, slightly hooked strokes. Somewhat more complex is the mark on the jug B10; two diagonal lines converge and are bisected by a vertical line that extends beyond their apex. Arranged in two parallel horizontal rows of three, two dots to the left of the vertical line and four to the right, are six impressed dots similar to those on B7 and B8 (cf. Fig. 10). A further horizontal line, clearly incised after firing, traverses the two diagonal lines and the vertical line at approximately their midpoints.

As far as I am aware, the only comparable potter’s mark in the Greek world, incised on a handmade pot prior to firing and contemporary with the Torone marks, is found on the lower exterior face of the handle of a jug with cutaway neck from Marmariani. Elsewhere in the Aegean similar marks may well exist, but it is often difficult to establish, particularly from fragmentary assemblages of coarse-ware pottery, whether the incised symbols are potters’ marks or decoration. The Marmariani mark consists of eight comparatively deep, diagonal strokes. Like the Toronean vases, the Marmariani jug was found in a tomb, in this case a large tholos tomb. The vase itself may represent an import from Macedonia or at least displays strong Macedonian influences. Although diagonally grooved, twisted, or fluted handles are a feature of North Aegean handmade wares of the Late Bronze and

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97 Compare the incised “decoration” or marks on the body of the jug B8 (Fig. 9).
98 This horizontal line is rather problematic. It is, most probably, a later scratch such as that already noted on B6, but its fortuitous position over the central part of the inscription seems particularly well defined, as is the case with the one on B6. This raises the possibility that both “scratches” may have been consciously incised sometime after the vases were fired.
99 Heurtley and Skeat 1930/1931, no. 6, p. 13; the vase itself is illustrated and a brief description of the mark given, but it is not illustrated. I am grateful to Dr. Eo Zervoudake and Dr. N. Protopiou for allowing me access to the Protogeometric pottery from Marmariani excavated by Heurtley and Skeat, now in the National Archaeological Museum in Athens.
100 See, for example, the fragmentary coarse pottery from Karphi: Seiradaki 1960, pl. 12:b.
101 The handmade jug with cutaway neck is one of the characteristic hallmarks of Late Bronze and Early Iron Age Macedonia, and its ancestry may be traced back to the Early and Middle Bronze Age periods in Macedonia. Typologies of the shape have been presented from settlement material at Kastanas; see Kastanas (a), pp. 48–58; from cemetery material at Vergina, see Bépylyv I, pp. 194–201; more recently, from the cemeteries at Vitsa Zagoriou in Epiros, see Vokotopoulou 1986, pp. 236–241, fig. 9, plans 15–31; and from the “Protohistoric” cemeteries associated with the settlement at Kastri on Thasos, see Koukouli-Chrysanthake 1992, pp. 397–399, fig. 85, shape VII A–E.
Early Iron Ages, I doubt whether the incised strokes on B3 are decorative, since they differ from normal grooving or ridging found on handles.

Slightly later than the marks from Torone and Marmariani are those incised on pots prior to firing on a series of handmade coarse-ware vessels of the Geometric period from Corinth (B12–B14). The marks are found on two shapes: amphorae and hydriai. The most recent study of these is by Christopher Pfaff, on whose notes on the subject I rely for information. According to Pfaff, this type of amphora has a long history at Corinth, beginning perhaps as early as the Early Geometric period and continuing in the specialized form of the Corinthian Type A and A’ transport amphoras dating from the 7th through the 2nd centuries B.C. As for the hydriai, they too appear to be as early as the amphorae, although knowledge of their development is still rather incomplete. The earliest of the three presented here (B13) is dated to the Early Geometric or Middle Geometric I period; B12 is dated to Middle Geometric II, and the latest, B14, is said to be Late Geometric or Early Protocorinthian. There are three incised vertical strokes on top of one of the handles on the amphora B14; three similar strokes are found on the vertical handle of the hydria B12, but in this case the strokes are horizontal. Three incised vertical strokes are also found on the neck on one side of the amphora B13, in a position similar to the painted crosses on A1, A7, A8, and A12–A17. Although handmade vessels such as these could be deposited in tombs at Corinth, the three examples presented here derive from fill dumped in wells. The placement of the marks on the handles of B12 and B14 is not unlike that on the vessels from Torone and Marmariani already noted, although they are placed on top of the handle arch, not on the handle base; the exception is B13, where the mark is found on the neck.

In his discussion of the coarse-ware hydriai from the North Cemetery at Corinth, Rodney Young notes that “the building of coarse pots by hand may well have been a craft handed down through the centuries in particular groups or families, a craft much more conservative than that of the potter who threw his vessels on the wheel and decorated them afterward.” This conservatism in the handmade pottery tradition is an important aspect, and it may well be that the practice of marking such vases represents an Early Iron Age survival of a much more common Bronze Age custom.

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102 Heurley 1939, pp. 98–99, 104, 216, fig. 87:a–f, h (Late Bronze Age Vardaróphtsa [Axiochori], referred to as “fluted” or “grooved”), p. 233, fig. 106 (Early Iron Age Vardaróphtsa, referred to as “twisted”); Wardle 1980, no. 44, p. 256, fig. 16, nos. 51–53, p. 260, fig. 19. At Kastanas jugs with such handles include Hochstetter’s types 1a–d: Kastanas (a), p. 53, fig. 12, p. 57, fig. 13. See also Wardle’s comments in Popham, Pope, and Raison 1982b, p. 235.

103 Pfaff 1988, esp. pp. 29–33.

104 Ibid., p. 29.

105 Ibid., pp. 32–33; cf. Corinth XIII, p. 41.

106 For bibliography, see the catalogue entries for B12–B14.

107 Corinth XIII, pp. 41, 43.

108 Ibid., p. 41. The extreme conservatism of potters and their reluctance to innovate is stressed by George Foster (1965) in his study of peasant pottery manufacture.

109 For the marking of the handle bases on Bronze Age transport and cooking vessels, especially the handles of medium-coarse Minoanizing Lustrous-Decorated ware and less often on Aiginetan cooking pots, which are
Group C

This is a small group of five stamps found in inconspicuous or isolated positions on larger closed vases. The four examples from Corinth (C1–C4) are closely related to B12–B14 inasmuch as the stamps are found on the handle, or at the base of the handle, of Corinthian handmade coarse-ware vessels. All four vases are fragmentary: C3 is an amphora, C1 probably a hydria, and C2 and C4 are thought to be pitchers; they are fully discussed by Pfaff. In addition to these four vessels, contemporary stamped impressions are found at Corinth on a lid and a pyramidal loomweight. The former bears on its upper surface several large oval stamp impressions with a crosshatched pattern; such repetition would imply that the purpose of stamping was decorative, and on that basis, the piece has not been classified here. The loomweight has also not been classified for the reasons given above. Pfaff has argued that the design on C2 was perhaps stamped with a clay die, whereas the remainder were produced using stone, metal, wood, or bone dies; in the case of the stamps on C1, C3, and C4, he compares the similarity of the pattern to that on Geometric sealstones and a bronze weight. C1 and C4 are figured designs, C2 and C3 nonfigured.

The stamp on C5 is found near the center of the fragmentary neck of a closed vessel from Ischia; its position on the vase is similar to that of the painted crosses on A1, A7, A8, A12–A17, and the three incised strokes on B13. The design shows a Geometric warrior carrying the body of a fallen comrade, a scene interpreted as Ajax carrying the corpse of Achilles. The same stamp was evidently used to decorate a clay plaque found at

executed in much the same way as the handmade Early Iron Age vessels listed here, see Nordquist 1987, p. 63; Zerner 1986; cf. Asine I, no. 3, p. 230, fig. 168 (Early Helladic), pp. 283–284, fig. 195 (Middle Helladic II); Asine II, ii, no. 63, p. 67, fig. 79, p. 137, fig. 131; Hägg and Hägg 1978, p. 31, fig. 18. For the marking of vases, including handle bases, before and after firing in the Late Bronze Age, see note 126 below. For similarly marked Etruscan coarse-ware amphorae of the Archaic period, see especially Albo Livadie 1978, p. 88, fig. 6; p. 84, fig. 2; p. 85, fig. 4; pp. 90–91, figs. 8, 9; pp. 93–94, figs. 11, 12; p. 97, fig. 14; pp. 103–104, figs. 18, 19; p. 113, fig. 25.

110 Pfaff 1988, pp. 39–40. One reviewer of this article has noted that C3 may be Early Helladic in date. The design bears a general similarity to Early Helladic clay sealings, for which see, for example, Heath 1958; also some Minoan Prepalatial seals such as CMS II, i, no. 96, p. 110; cf. no. 302, p. 349, no. 435, p. 516; CMS IV, no. 106, p. 121 (Middle Minoan I); cf., among others, Warren 1970. It is certainly possible that the fragmentary amphora handle on which the impression appears represents residual material encountered in later fill, although the general context is Geometric.

111 Pfaff 1988, no. 112, pl. 31.

112 Pfaff 1988, no. 118, pl. 32.

113 Pfaff 1988, p. 40. Other cases of decorative stamping are listed by Pfaff (pp. 39–40) and include a Protogeometric–Early Geometric pithos lid from Knossos and a Geometric pithos (?) from Phaistos.

114 Compare the stamped spindlewhorl, bead, or button from the Athenian Agora dated to the first half of the 8th century B.C.: Brann 1960, p. 406, fig. 2.


116 Buchner 1966, p. 11; Boardman 1968, p. 8; Boardman 1972, pp. 112–113, 133, fig. 166.

117 Boardman 1972, pp. 112–113, 133. This is thought to be the earliest example of the scene in Greek art, followed by a similar representation on an ivory seal from Perachora: Boardman 1963, p. 147, fig. 16 (= Ahlberg-Cornell 1992, p. 288. fig. 46:b).
the Heraion on Samos. The vessel on which the impression is found appears to be a coarse-ware amphora or hydria, although details of shape and fabric are not given in the publication; the vase is dated shortly before or after 700 B.C. and is therefore slightly later than C1–C4.

All five stamped examples derive from settlement contexts, although the exact findspot of C5 is not noted. The general similarity, particularly in terms of position, of these marks to the well-known stamped amphora handles of later periods is discussed more fully below (pp. 482–483).

**Group D**

This group has been distinguished from the impressed dots of Group B and the stamp impressions of Group C by virtue of the fact that the impressions are made by the finger or thumb of the potter, not with an implement. In the case of three of the four examples listed here that I have personally inspected, fingerprints are clearly visible within the finger impression on D1, and traces of fingerprints may also be observed on D3. There are no clear fingerprints on D2, although these were probably made by the potter’s finger or thumb. I have not had occasion to inspect D4–D9.

The nine examples listed here probably represent only a small fraction of such marks in the Early Iron Age. Eight of the nine were found in the fill of a number of wells in the area of the later Athenian Agora and Corinth; only one (D4) was found in a tomb. Two are Attic (D1, D2), the remainder are of Corinthian manufacture. Such marks occur on both wheelmade and handmade pots that derive from both funerary and nonfunerary contexts. The impressions are invariably found at the base of the handle or handles on a variety of shapes: D1 is a fragmentary, wheelmade, neck-handled amphora; D2, D8, and D9 are chytra; D3, D5, and D6 are handmade amphorae; and D4 and D7 are pitchers or oinochoai. On D3, D5, and D6 there are finger impressions at the base of both handles, while in the case of D1 only one of the two handles of the vase is preserved; D2, D4, D7, and D8 are one-handled shapes. Of the nine examples presented here, D3 is of special interest since both handles of the vase bear a series of impressed dots that may be potter’s marks and also because the vessel represents a Corinthian import to Athens (see discussion above under B14, p. 451; cf. D3, pp. 453, 455). On one side of the vase the final impressed dot is situated within the finger impression.

Although only a small number of such marks is presented here, it is noteworthy that they cover the entire chronological span of the period from latest Mycenaean or Submycenaean through Late Geometric.

**Group E**

The three pieces listed under this heading should, strictly speaking, be listed under Group A. Though figured, the placement of the symbols on E1–E3 is identical to some of

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118 Boardman 1968, p. 8. The stamp is repeated on the plaque at least eight times, and there are two pierced holes at the top for suspension. The plaque is illustrated in Hampe 1936, pl. 34; Ohly 1941, no. 416, pl. 11. Both the Pithekoussai stamp and that on the Samos relief (Samos Museum T 416) are conveniently illustrated together in Ahlberg-Cornell 1992, nos. 10, 11, pp. 35–38, p. 287, figs. 44, 45; see also pp. 288–291, figs. 46–52, and pp. 321–322, figs. 107–109 for later representations of the theme.
the more humble X's of Group A, and it is therefore suggested here that some of the earliest Athenian horses and birds served a similar function, as potters' marks. The painted horse under the handle of the belly-handled amphora E1 has the identical position of the upright cross on the belly-handled amphora A3. The solitary horse standing on the belly-handled amphora E2 is similar, but the animal has been placed on the body of the vase, next to the handle. The style of the horses on E1 and E2 is so similar that it is conceivable that the two vases were made by the one potter who used this distinctive design as his mark.119

The two birds, one under each handle, on the Attic Protogeometric skyphos found in Tomb 39 of the Toumba cemetery at Lefkandi120 have the identical position of the X's on the contemporary Attic skyphoi A2, A9–A11. Prior to the discovery of this vase, the earliest bird on Attic Iron Age pottery dated from the Middle Geometric period.121

The horses and birds on E1–E3 are the earliest figures in Attic Iron Age vase painting. They are invariably placed below or near a handle.122 It is only during the closing stages of Protogeometric and during the Early Geometric period that this scheme is done away with and figures are given more prominence by being placed on the necks of closed vessels or else in a metope on an open vase.124 These later figures, rather than being casually tucked away in inconspicuous positions, are ostentatiously displayed and carefully incorporated within the highly structured syntax of the geometric ornament. In this way, they anticipate figural developments of the later Middle and Late Geometric periods.125 The placement of the earlier figures on E1–E3, however, stands in total contrast to that of the later examples. A few pieces stand in between and are more difficult to evaluate. The most notable of these are the pyxis and the fragmentary krater from the Kerameikos listed for comparison in the catalogue above under Group E. A three-legged figure, normally referred to as a centaur, holding a tree or palm branch, occupies the area under one handle of the pyxis; a spirallike motif, mostly not preserved, is found under the other handle. Both motifs may be linked with

119 Almost identical are the six horses on the neck (three on either side) of the small shoulder-to-lip-handled amphora, Kerameikos IV, inv. no. 911, pl. 8. I believe the latter was made by the same potter who made D1 and D2. In the conventional chronological scheme, D2 would normally be assigned to developed Protogeometric; D1 is difficult to date precisely on account of its fragmentary state, whereas Kerameikos IV, inv. no. 911, pl. 8 should be Late Protogeometric. If I am correct in assuming that the horses on these three vessels were painted by the same potter, then much of the Protogeometric period could be condensed into the active lifetime of one craftsman.


121 Benson 1970, p. 28.

122 In Mycenaean pictorial vase painting, it is not uncommon to find figures tucked away in some comparable position, like the birds under the handles of the Warrior Vase from Mycenae: Vermeule and Karageorghis 1982, pp. 130–132, pl. XI:42. In most such cases, however, they are only one element in a much larger figured composition.

123 Such as the horses on the small amphora Kerameikos IV, inv. no. 911, pl. 8 and the horses framing the swastika in a panel on the neck on either side of the neck-handled amphora in the Chatziorgyris Collection, Athens, N.M. 18045; Benson 1970, pls. IV:1, V:1, 2.

124 Such as the kantharos fragment, Athens, Agora P 1654; Burr 1933, no. 62, p. 560, fig. 19; Coldstream 1968a, p. 13; Benson 1970, no. 2, pl. IX.

125 For figures in Attic Protogeometric pottery and in contemporary pottery styles elsewhere in the Greek world, see Kopcke 1977, pp. 32–50; Benson 1970, passim; Snodgrass 1971, p. 401; Papadopoulos 1990.
the decoration on the main body of the vessel. In the case of the krater, a partially preserved horse appears under the handle of the vase and a human mourner stands nearby, just to the left and slightly above the same handle. The funerary symbolism of the mourner in this case can hardly be doubted, but he is subordinate to the linear ornament, and the close proximity of man and horse may suggest that the two are symbolically related.

DISCUSSION

The majority of the Early Iron Age potters’ marks assembled above, particularly those of Groups A and B, find nearly identical parallels among the corpora of incised, impressed, and painted marks employed on vessels of the Aegean and Cypriot Bronze Ages, as well as among similarly executed marks on Hellenic vases. It should be stressed, however, that any similarities between the Early Iron Age potters’ marks on the one hand and the earlier and later marks on the other is probably coincidental, and such ubiquitous signs as crosses, vertical strokes, and dots belong, as Alan Johnston puts it, to the very basic repertoire of decorative ornament, although, as he further notes, “in certain aspects of material culture an unbroken, if tenuous tradition survived.”

Concerning the purpose that such marks served, a number of interpretations of the Bronze Age material have been suggested. In the majority of cases the signs are interpreted as having served a function in the production or distribution, or both, of the pots on which they appear. Suggested functions include maker’s mark or mark of ownership, capacity,

126 The bibliography on Greek Bronze Age potters’ marks is becoming substantial; for full references to the literature up to the early 1980’s, see Keos IV, especially pp. xii–xiv; cf. Caskey 1970. For the Early Bronze Age, see especially Zygouries, p. 107, fig. 92; Tzavella-Evjen 1980; MacGillivray 1981; Pullen 1985, which includes the most up-to-date discussion of Early Helladic potters’ marks. See also Branigan 1969. For the implications of these marks for Early Helladic trade and economy and their role in the development of linear writing, see Renfrew 1972, pp. 411–414. For the Middle Bronze Age, see especially Crouwel 1973; Nordquist 1987, p. 63 (with references); Zerner 1988; Coleman 1986, no. A 17, p. 12, pl. 19:a; Overbeck 1989, pp. 32–33. For the Late Bronze Age, especially useful are Raison 1968 and Sacconi 1974; Dohl 1978; Dohl 1979; Olivier 1988; Kober 1948; Tsipopoulou 1990 (mostly, but not exclusively, Late Minoan I). Hirschfeld 1990 is useful for postfiring marks added to Late Helladic and Minoan vases found on Cyprus. For Aigina (Middle and Late Helladic), see Alt-Ägina III, i, pls. 124, 125; Bernabò-Brea 1952. The table of potters’ marks compiled by Edgar in Atkinson et al. 1904 (p. 178) is still useful and offers many close parallels, particularly for the marks of Group B. See also Kontoleon 1965; Webster 1966; Åkerström 1974; Popham, Pope, and Raison 1976.


129 Ibid.

130 These are treated by a number of scholars, with useful overviews by Aliki Halepa Bikaki and Paul Åström: Keos IV, pp. 42–43; Åström 1966, pp. 189–192.
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<td>Corinth</td>
<td>Well deposit</td>
<td>Corinthian</td>
<td>HM Chytra</td>
<td>Handle base</td>
<td>MG</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Athens, Kerameikos</td>
<td>Cemetery area</td>
<td>Attic</td>
<td>WM B-H Amphora</td>
<td>Under handle</td>
<td>PG</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Athens, Kerameikos</td>
<td>Tomb</td>
<td>Attic</td>
<td>WM B-H Amphora</td>
<td>On body, near handle</td>
<td>DPG</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lefkandi</td>
<td>Tomb</td>
<td>Attic</td>
<td>WM Skyphos</td>
<td>Under handle both sides</td>
<td>LPG</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Key**

- **B-H**: Belly-Handled
- **D**: Developed
- **E**: Early
- **HM**: Hand-Made
- **L**: Late
- **M**: Middle
- **N-H**: Neck-Handled
- **PC**: Protocorinthian
- **PG**: Protogeometric
- **SM**: Submycenaean
- **SubPG**: Sub-Protogeometric
- **WM**: Wheel-Made
Table 2. Shapes of Vases with Potters’ Marks and Their Positions

**Wheelmade and Painted Pottery**

(i) Amphoras, neck-handled  
- Neck: A1, A7, A8(?) A12, A13 (cross); A19 (axe)  
- Beside handle: A38 (dots)  
- Handle base: D1 (finger impression)  
Amphoras, belly-handled  
- Under handle: E3 (cross); E1 (horse)  
- Near handle: E2 (horse)

(ii) Hydriai  
- Neck: A14 (cross)  
- Amphoras/hydriai/large closed vessels  
  - Neck: A15, A16, A17 (cross)  
  - Shoulder: B2

(iii) Oinochoai  
- Underside: A30 (zigzags); A35 (asterisk); A39 (sun pattern)

(iv) Pyxides  
- Underside: A33? (cross)

(v) Kraters  
- Under handle: A32 (cross)

(vi) Skyphoi  
- Under handle: A2, A9, A10, A11 (cross); E3 (birds, one under each handle)

(vii) One-handed cups  
- Underside: A4, A20, A21, A22, A24, A25, A36 (cross); A23 (asterisk)  
- Handle base: B1 (stroke)

(viii) Kantharoi  
- Underside: A37 (crosshatching)

(ix) Plate  
- Underside: A34? (cross)

**Handmade Pottery**

(x) Amphoras/two-handled jars  
- Neck: B13 (3 strokes); C5 (stamp)  
- Shoulder: B11 (5 strokes)  
- Handle: B14 (3 strokes)  
- Handle base: C3 (stamp); D3, D5, D6 (finger impressions)

(xi) Hydriai  
- Handle: B12 (3 strokes); C1 (stamp)

(xii) Pitchers, oinochoai, and jugs with cutaway neck  
- Handle base: B3 (8 strokes); B6 (3 strokes); B8 (2 dots); B9 (arrow-shaped mark); B10 (composite mark: dots and arrow-shaped mark); C2, C4 (stamp); D4, D7 (finger impression)  
- Body (above mastoi?): B8 (arrow-shaped marks)

(xiii) Kantharoi  
- Handle base: B4 (arrow-shaped mark); B5 (3 strokes)  
- Underside: A31 (cross [Middle Helladic?])

(xiv) Cup/kyathoi  
- Body, near handle base: B7 (14 dots)

(xv) Chytrai  
- Handle bases: D2, D8, D9 (finger impression)
Table 3. Types of Marks

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>Sun pattern</td>
<td>A39</td>
</tr>
<tr>
<td>Cross with V’s filling the quadrants</td>
<td>C3</td>
</tr>
</tbody>
</table>
| Stroke(s), variously arranged | (1 stroke): A5, B1  
(3 strokes): B5, B6, B12, B13, B14  
(5 strokes): A6, B11  
(8 strokes): B3                                                                                                                                 |
| Arrow-shaped marks and variations | B4, B8, B9, B10                                                                                                                                                                           |
| Crosshatching            | A37, cf. B2                                                                                                                                                                              |
| Zigzags                  | A30                                                                                                                                                                                                 |
| Dots                     | A38, B7, B8, B10                                                                                                                                                                         |
| Composite marks (arrow-shaped and dots) | B10, cf. B8                                                                                                                                                                           |
| Axe                      | A19                                                                                                                                                                                                 |
| Horses                   | E1, E2                                                                                                                                                                                                 |
| Birds                    | E3                                                                                                                                                                                                 |
| Humans                   | C1, C4, C5                                                                                                                                                                              |
| Finger Impressions       | D1, D2, D3, D4, D5, D6, D7, D8, D9                                                                                                                                                           |

commodity, provenance (workshop or production center), or destination.\footnote{Ibid.} Moreover, it is clear, particularly from marks found on the pottery from a specific site, that there is more than one category of mark and that they served a variety of purposes. For example, Bikaki has argued that the composite signs on the Middle Bronze Age (Period IV) pottery from Kea may indicate capacity, whereas the Linear A signs, which emerged during the later stages of the Middle Bronze Age (Period V), may have functioned as labels, possibly relating to the commodity contained in the vessel.\footnote{Ibid.} In dealing with the distinctive Middle Helladic gold-mica wares considered to be of Aiginetan origin and found in quantity in the Argolid, Gullóg Nordquist points to the occurrence of potters’ marks on the undersides or handles of the imported vessels and suggests that the marks may indicate a production aimed at

\footnote{Ibid.} Other suggested functions that have been aired may be more summarily treated. For example, Vitelli (1977, p. 26) noted, but quickly dismissed, the possibility that pots were marked to avoid spreading contamination from diseased owners. Another possibility suggested for the more tactile marks of the Neolithic period is that they were designed as aids for blind users of the vessels. Although discussing blindness at some length, Vitelli (1977, p. 23) notes that the question of what kind of aid the marked vessels provided would still remain. In his study of the markings on early prehistoric artifacts, Alexander Marschack suggested that they served a time-factoring purpose, specifically for keeping track of time in order to anticipate seasonal changes: Marschack 1972, p. 27; cf. Vitelli 1977, p. 28. In discussing this suggestion, Vitelli states: “The potting process itself is time-factoried, probably seasonal and cyclical, but how the ... marks on pots might be related to that cycle escapes me.”\footnote{Kéos IV, p. 42.}
export. She goes on to state that the potters’ marks on both the imported Aiginetan and Lustrous Decorated pots more likely served the function of marking a producer, rather than destination, because the marks on such vessels appear to be the same at most sites where they are found. Similarly multifunctional are the trade marks on Greek vases of the Archaic and Classical periods, as well as the contemporary graffiti and dipinti incised or painted after firing. In an important article on Neolithic potters’ marks, and in the context of the distribution of marked pots, K. D. Vitelli notes that the use of potters’ marks suggests not the trade of objects or even verbal information but the regular relocation of potters within different settlements. She visualizes a model in which the distribution of potters’ marks might indicate marriage patterns and kinship ties within Neolithic communities.

As for the Early Iron Age marks presented here, their isolated or else inconspicuous placement on a vase, whether on, below, or near a handle, on the neck, on the underside, or, more rarely, on the shoulder, contrasts to the positioning of painted or incised ornament and evinces a significance beyond that of decoration. In any interpretation of the marks, it is important to bear in mind the multifunctional aspects of the Bronze Age and later Greek marks. Of significance is not only the nature of the mark itself but also the shape, decoration, and function of the vessel on which it appears, as well as its context. Although the quantity of potters’ marks assembled here is small and the corpus probably far from complete, what is immediately remarkable is the wide distribution of such symbols throughout the Greek world in the Early Iron Age. Details of provenance and context are summarized and presented in Table 1 (pp. 474–476 above). Early Iron Age potters’ marks are common in Athens, Corinth, the Argolid, and elsewhere in the Peloponnese; in the north they are found in Thessaly, central Macedonia, and Chalkidike. They are common in Euboia, and there is at least one example from the Cyclades, another from Rhodes, while in the west there is a solitary mark from Ithaka and one from Pithekoussai. What is also remarkable about the marks is the range of shapes, both wheelmade and painted and handmade vessels, on which they occur (Table 2, p. 477 above). Potters’ marks of the period are found on perhaps as many as fifteen individual shapes, which serve a wide variety of functions.

In the majority of cases, the interpretation of the Early Iron Age marks as indicators of capacity seems unlikely because similar marks, such as the painted crosses, appear on vases not only of different shapes and sizes but also of different function (drinking cups and amphorae, for example). Similarly, a numerical value for such common marks as dots (A38, B7, B8, B10) or simple strokes (A5, A6, B1, B3, B5, B6, B11–B14) is usually, though not always, negated in the modern literature, as such marks are again found on vessels of different shapes and sizes. This in itself, however, presupposes an understanding of the numerical system employed at the time and a knowledge of its application in specific

133 Nordquist 1987, p. 63; for Aiginetan as the production center of the Middle Helladic gold-mica wares, see Zerner 1978, p. 57.
134 Nordquist 1987, p. 63.
135 Johnston 1979; Agora XXI.
137 Ibid.
instances. It is worth remembering that the interpretation of numerical values of marks of the Classical and Roman periods often involves a good deal of controversy and doubt and that Bronze Age or later Greek methods of numerical notation should not be assumed for the Early Iron Age. The most likely candidates for numerical notations are the strokes and dots (Table 3, p. 478 above), but in both cases definitive analysis is hampered by the quantitative meagerness of the sample. Little can be deduced from the complex mark on A38, comprising eighteen painted dots arranged in three vertical rows of six, as it is unique and comes from a site that has yielded, so far as I know, no other certain potters’ marks. The dots on B7, B8, and B10, though all from Torone, do not manifest any apparent pattern. The fourteen preserved dots on B7 were impressed near the handle base of a cup/kyathos, whereas only two dots were impressed at the base of the handle on the jug B8. The composite mark on B10 is different again, combining six dots with an arrow-shaped symbol, although it is found on a shape and in a position similar to the mark on B8. In a similar vein, the majority of marks comprising strokes reveal no clear pattern. Of these, A5, A6, B1, B3, and B11 are unique and occur on vessels of different shape; any number of interpretations might be suggested but few conclusively established statistically. The marks comprising three strokes on B5 and B6, both from Torone, are similar, but once more they are found on vessels of totally different shape, which would seem to argue against any intentional notation system based on capacity or commodity. More interesting are the marks from Corinth (B12–B14), since in this case something of a pattern might appear to emerge. Each mark comprises three strokes; on the hydria B12 the strokes are set horizontally on the handle, whereas on the amphoras B13 and B14 they are set vertically. The mark on B13 appears on the neck, that on B14 on the handle. It may be tempting to suppose a consistent numerical notation to do with capacity in the case of B13 and B14, especially since these amphoras are considered the progenitors of the later Corinthian Type A and A’ transport amphoras. It should be stressed, however, that B13 is considerably larger than B14 and also much earlier. The variance in size of the two amphoras would seem to argue against an interpretation as capacity indicators in this specific instance, although it is possible that some other numerical meaning was intended.

Establishing commodity is fraught with the same difficulties as establishing capacity, since similar marks are found on vessels of different shapes, sizes, and functions. The one

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139 For an outline of the system of weight widely used in the Aegean during the Middle and Late Bronze Age, and for Minoan and Cycladic metrology, see Petruso 1978; Petruso 1979; Bennett 1950; Was 1971a; Was 1971b; Was 1972; Was 1973a; Was 1973b; Was 1974; Lang 1936/1937; Was 1978. See further Duhoux 1974; Boskamp 1982; De Fidio 1983.


141 For Greek systems of numerical notation, see Tod 1911/1912; Tod 1926/1927; Tod 1936/1937; Tod 1950; see further Lang 1955; Lang 1956; and generally MSR 1864–1866.

142 Although the Early Bronze Age as well as the Late Bronze and Early Iron Age handmade pottery from Kastanas has been published, the wheelmade painted pottery awaits definitive publication in Kastanas (c). For the handmade wares, see Kastanas (a); for the Early Bronze Age, see Kastanas (b). For the Late Helladic painted pottery from the site, see Podzuweit 1979. For a published selection of Early Iron Age painted pottery, see Hänzel 1979, various examples on p. 190, fig. 15; pp. 193–194, figs. 16, 17; p. 198, fig. 18.

143 Pfaff 1988, p. 29.
noted exception may be A30, where, in the context of Argive Late Geometric, the complex zigzag design may denote “water” or “liquid”, a symbol not inappropriately painted on the underside of a pouring vessel.144

That the marks are an indication of ownership also seems unlikely since the vast majority of later Greek owners’ marks are normally, though not exclusively, incised on a vase after it was fired.145 An alternative suggestion, which does not appear to have been seriously considered, especially with regard to the Bronze Age potters’ marks, is that certain symbols may have denoted specially commissioned, preordered, prepaid, or reserved pots or sets of pots. In this respect, the amphora A1 and skyphos A2, each with a painted cross and both deposited in Tomb 34 in the Precinct XX cemetery in the Kerameikos, may well have formed part of a coordinated set of pots either purchased, preordered, or specially commissioned. The two one-handled cups from Mycenae deposited in the same tomb (A21, A22), each with a cross on the underside and surely products of one workshop if not one potter, could be interpreted in the same light; so too the kantharoi B4 and B5, found in the same tomb at Torone, although in this case the marks are different from one another. Such an interpretation could apply to other Early Iron Age potters’ marks, particularly since many derive from the same context and could therefore have been originally part of a specially ordered batch of pots or kiln load.146 A similar interpretation may equally apply in the case of some of the Bronze Age potters’ marks already noted. Here the whole question of pottery production, market demand, and the seasonality of certain potters’ activities, such as firing, is important.147 Most ethnographic studies of traditional modern potters of the Mediterranean have shown, first of all, that many elements of pottery production are seasonally defined, with the result that purchasable pots are not available all year round; secondly, that potters, especially those highly skilled, find it difficult to keep up with market demand.148 Assuming that seasonality of potters’ activity and healthy market demand are plausible for Early Iron Age pottery production, then the possibility of a potter specially marking a vase as part of a batch, whether for a local client or for export, need not be surprising. In such a situation, the mark itself would not necessarily denote specific maker or owner or specific destination. In the context of workshop production, a mark, whether incised or painted, may have served as a reminder to the maker, for whatever purpose.

Much of the literature on Bronze Age and later Greek potters’ marks has focused on vases specifically marked for export, with the symbol signifying either provenance or destination. Such a commercial possibility for the Early Iron Age was raised by Desborough in the case of

144 See note 58 above.

145 Agora XXI, pp. 23–51, especially p. 29. Note also the alphabetic inscriptions on the later terracotta molds from Corinth, of which Agnes Stillwell (Corinth XV, i, p. 84) writes: “The inscriptions perhaps designated the owner or, more likely, the workman who made the mould.” For illustrations of the inscribed molds, see Corinth XV, i, pl. 28.

146 Compare the marks on a number of pots from the Toumba building at Lefkandi (A12–A18); also A4 and A5, dumped into the same well in the area of the later Athenian Agora.

147 Seasonality of potters’ activities is a point stressed by, among others, Vitelli (1977, p. 28).

the two Attic Protogeometric skyphoi with painted crosses found in tombs at Knossos.\textsuperscript{149} He considered such a possibility unlikely, however, largely because a similar mark was found on another Attic skyphos (A2) deposited in a tomb in Athens. Apart from A10 and A11, the only vases of the period with potters’ marks representing imports to the site where they were found are D3, E3, and probably B2. The first two are a Corinthian handmade amphora found at Athens and an Attic skyphos found at Lefkandi; the last, also found at Lefkandi, is of undetermined fabric (Table 1, p. 475 above). Another possibility is the Attic(?) skyphos found on nearby Aigina (A9) and perhaps also C5, although details of provenance and context of both vases are uncertain.\textsuperscript{150} In some of these cases, the possibility of a mark relating to provenance or destination cannot be dismissed, but the marks can equally refer to commissions or orders, as noted above, and need not specifically mark provenance or destination.

In any discussion of the commercial complexities of the Early Iron Age potters’ marks, the apparent, if not striking, similarity of the stamped marks on C1–C5 and later Greek stamped amphora handles, especially in terms of their positions, deserves special mention. Four of the five impressions are found either on the handle or at the handle base of an amphora (C3), a hydria (C1), and two possible pitchers (C2, C4) of Corinthian manufacture. The exception is a stamp isolated on the neck of an amphora(?) from Pithekoussai (C5).\textsuperscript{151} As already noted, the handle fragment C3 is from a type of amphora that continues in the specialized form of the Corinthian Type A and A’ transport amphoras of the 7th through 2nd centuries B.C.\textsuperscript{152} In her seminal paper on the stamped amphora handles found in the Athenian Agora, Virginia Grace enumerated the forms of the stamps and their suggested purposes.\textsuperscript{153} It is unlikely, however, that the highly specialized forms of these stamps are found before the Classical period. Grace states that the most likely function of the later stamps was to date the stamp itself, or rather its die, which was then a license, valid for a limited period, permitting a manufacturer to sell goods in return for payment to the government; the extra cost he then collected by raising the price of the commodity to cover the amount.\textsuperscript{154} The existence of such revenue marks in the Early Iron Age is most unlikely, if for no other reason than the paucity of such stamped impressions and the lack of sufficient detail in the design of the die. It is equally unlikely that the stamps on C1–C5 explicitly or implicitly signify where they were made, nor is it likely that they denote specific capacity, commodity, or destination, as all five are of different form, are found on vessels of different shapes, and four of them were made and produced at the one site. Furthermore, it is not clear whether the die belonged to

\begin{itemize}
\item \textsuperscript{149} Desborough 1952, pp. 83–84 (A10 and A11).
\item \textsuperscript{150} I have not included the Corinthian oinochoe found at Klenia (A35), since Corinth and Klenia are located very close to one another.
\item \textsuperscript{151} Such a position is common for stamped impressions on many Roman amphoras; see, for example, Callender 1965; Beltrán Lloris 1970; Peacock and Williams 1986; Papadopoulos 1989b. As for C5, I wonder if the vessel itself is not of Corinthian manufacture (cf. D3).
\item \textsuperscript{152} Pfaff 1988, p. 29; for the history of this type of amphora, see Koehler 1979.
\item \textsuperscript{153} Grace 1934, pp. 197–199.
\item \textsuperscript{154} Ibid., p. 199. The other, previously suggested functions were that the stamps date the wine or date the pot and thus serve to measure its proper drying period. Alternatively, amphora stamps might be seen as simply an inheritance of brick stamps or as good advertising for the jar manufacturer.
\end{itemize}
the potter who made the vase or to someone else. In this respect, the *officinators' names found on later Rhodian stamped amphora handles are worth bearing in mind.\textsuperscript{155}

It is generally accepted that a seal, whether by gift or otherwise, may be delegated to a steward, messenger, or subordinate officer and that it may also be used on behalf of a state to certify a document or guarantee official standards.\textsuperscript{156} Once more, the data set of such stamps for the Early Iron Age is so small that a more thorough analysis is impeded, and it is unfortunate that there are so few examples like C5, since the same die was used to stamp a terracotta plaque found at Samos.\textsuperscript{157} The most basic purpose of sealing is to secure and identify property.\textsuperscript{158} The practice of stamping vases and other objects with gems or dies is well attested in the Greek Bronze Age,\textsuperscript{159} and stamped pot handles of the Bronze and Early Iron Ages are found in Palestine.\textsuperscript{160} It is therefore possible that the stamps on C1–C5 are makers' marks; this would assume that each individual die belonged to a different potter. In the case of such an interpretation, however, it seems odd that more vessels, or fragments of vessels, have not been found with similar stamps. As Pfaff notes, the vast majority of the coarse-ware vessels at Corinth and elsewhere are not stamped, and he concludes that the function of stamps was by no means essential.\textsuperscript{161} It may be that the stamps served to mark a pot, or batch of pots, for a particular client or purpose. It is also possible that the vessels were stamped using the seal of the intended owner or buyer, for whatever purpose. If the evidence of the later Greek stamped amphora handles is any indication for use in the Early Iron Age, a point that can certainly be contested, then it is also possible that the sealing of the vases, in order to secure or identify property, need not refer to the vase itself but rather to its contents. In such an interpretation, the mark would not necessarily refer to a *specific* commodity but rather indicate that that commodity was the property or product of the owner of the seal. The fact that similar dies were used to stamp other objects, however, such asloomweights, spindlewhorls, and votive plaques, would tend to argue that the purpose of stamping was to indicate the maker or owner of the object bearing the stamp.\textsuperscript{162}

Two further aspects of the sealings on C1–C5 are important to note. The first is the material from which the die was made. If Pfaff's observations on the stamp impressions on

\textsuperscript{155} Grace 1934, esp. pp. 214–220.

\textsuperscript{156} Boardman 1972, p. 13. For the function of seals in the Aegean Bronze Age, see, most recently, the various papers in Palaima 1990.

\textsuperscript{157} See note 118 above.

\textsuperscript{158} Boardman 1972, p. 13.


\textsuperscript{160} Grace 1934, p. 199, note 4.

\textsuperscript{161} Pfaff 1988, p. 40.

\textsuperscript{162} See notes 16, 113, 114 above.
Corinthian coarse-ware vases and implements are correct, then the dies used were probably made of various materials.\(^{163}\) Pfaff convincingly argues that the die used repeatedly to stamp a locally made lid at Corinth, the intention of which is surely decorative, was made of clay.\(^{164}\) He also notes that the crudeness of the pattern on \(\text{C2}\) might indicate, though less certainly, that it too was stamped with a clay die. For the remainder, he suggests that the crispness of the design would indicate the use of stone, metal, wood, or bone dies.\(^{165}\) It is perhaps no coincidence that the one verified example of decorative stamping at Corinth was with a die made of material readily at hand in a potter's workshop. That is to say, the die was probably made for the specific purpose of decorating the vase. If such a pattern could be demonstrated or established on a firmer statistical base, then perhaps more could be said about the function of these sealings in the Early Iron Age.

The second aspect to consider is the quantity of Aegean Early Iron Age seals. The earliest post-Mycenaean seals found in a datable context on the Greek mainland, and likely to be local products, are the ivory pyramidal seal stamps deposited in the mid-9th-century grave on the north slopes of the Areopagos known as the "Tomb of a Rich Athenian Lady."\(^{166}\) In his discussion of these seals, Boardman first notes the early date of ivory working, believing that ivory was a new material for the Greeks of the Iron Age, reintroduced, as was the art of seal engraving, from the East.\(^{167}\) He goes on to state: "Since seal use was already current in about 850 B.C. we should probably assume the existence of seals in other materials which have not survived, such as wood, because there is no other physical evidence for seals until the stone series beginning nearly a century later."\(^{168}\) In discussing Bronze Age seals found in 8th- and 7th-century tombs or votive deposits, Boardman states that "the gems were handled and worn as amulets by folk to whom the near-realistic arts of the Bronze Age were as strange as the use of the seals themselves."\(^{169}\) He compares this situation with Greek Bronze Age seals worn by peasants in the last century in Crete, the γαλακτόπετρες bought by visitors and collectors like Sir Arthur Evans.\(^{170}\) Although their number is small, it is nevertheless significant that three of the five impressions presented here (\(\text{C1–C3}\)) can be assigned to the earlier 8th century and, as such, are welcome additions to the corpus for this period. More significantly, the fact that all five are stamped on vases suggests a specialized function with full intent, not previously noted for this period, and further indicates that the use of seals was by no means a strange phenomenon, at least for certain members of the population. The existence of these Early Iron Age stamp impressions brings us a little closer, but does not totally bridge the chronological gap, to similar stamp impressions on vases of the Bronze

\(^{163}\) Pfaff 1988, p. 40.

\(^{164}\) Pfaff 1988, no. 112, pp. 40, 77, pl. 31. For the possible use of clay dies to stamp later Greek amphora handles, see Grace 1935. It is worth noting that a serpentine seal with a crosshatched design similar to that on the Corinthian lid was found at Pithekoussai; see Buchner and Boardman 1966, no. 26, p. 21, fig. 36.

\(^{165}\) Pfaff 1988, p. 40.

\(^{166}\) Smithson 1968, nos. 79, 80, pp. 115–116, pl. 33; compare a faience pyramidal stamp seal from Rhodes (Marmara): Laurenzi 1936, p. 164, fig. 151, dating to the early 9th century B.C.

\(^{167}\) Boardman 1972, p. 108.

\(^{168}\) Ibid.

\(^{169}\) Ibid.

Age and, at the other end of the time scale, a little nearer to stamped amphora handles and similarly marked vases of the Archaic and Classical periods.

Stamp impressions are also found on terracotta roof tiles, particularly of the Lakonian type.171 These are not included here as they fall outside the chronological scope of this paper; the earliest stamped roof tiles are dated to the first half of the 7th century B.C.172 The suggested functions of these stamps, however, are important to note. In his studies of stamped roof tiles, Rainer Felsch has suggested that the stamps on tiles of Hellenistic and later date served to facilitate checking by the client or as protection against theft, whereas the earlier stamps (Archaic and Classical) served as an accounting aid for internal workshop requirements or perhaps as advertising for the workshop.173 A feature common to the earlier tiles is that the impressions are located on the lower, hidden, face of the tile, in contrast to those of later date, which are stamped on the upper face.174

A possible clue as to the function of the early post-Mycenaean use of “to seal” is provided by Theognis 1.19–24:

Kύρνει, σοφιζομένω μὲν ἐμόι σφραγίζει ἐπικείσθω
tοίνυ ἔπεσιν, λήσει δ'  ὀπτοτε κλεπτόμενα,
ουδέ τις ἄλλαξει κάκινον τοῦσθλου παρεόντος,
ὡς δὲ πᾶς τις ἑρει. Θεύγνιδος ἐστιν ἔπη
τοῦ Μεγαρέως πάντας δὲ κατ’ ἀνθρώπους ὄνομαστοι,
ἀστοίησι δ’  ὀπτω πᾶσιν ἀδειν δύναμαι.

A similar usage of σφραγίζω (Ionic σφρηγίζω) is echoed in Kritias (Elegiac Poems 4): “... σφραγίζει δ’ ἡμετέρης γλώττης ἐπὶ τοίνυ ἐπικαὶ.” In both passages, whether the “seal of the wise man” or the “seal of my tongue”, σφρηγίζει/σφραγίζει is used metaphorically as a warrant, guarantee, or signature. In Theognis 1.19–24 it is specifically used to guard against theft or plagiarism and to avert the misrepresentation of his meaning. A similar function may well lie behind the stamping of vases with a seal in the Early Iron Age, whether the stamps served as a warrant or mark of guarantee, perhaps as a protective measure against theft or wrongful use, as Felsch has suggested for the later stamped roof tiles.

Related to the stamp impressions of Group C are the finger impressions of Group D, particularly since such impressions, normally found at the base of a handle (or handles), are common on a variety of standard transport amphoras of the Classical period.175 Finger or thumb impressions, usually at the base of both handles, are found on Thasian, Samian, Mendean, and other amphora types of the Classical period; they occur on some but not all examples of any given amphora type within a given period. Judging from complete or reasonably well preserved vessels, finger impressions are found on both die-stamped and unstamped amphoras. The fact that not all amphoras from a particular region or workshop manufactured at a similar time have finger impressions indicates that the impressions are not just a typological feature of the shape or decoration of that amphora type. Unfortunately, the

171 Felsch 1979; Felsch 1990.
172 Felsch 1990, p. 313.
173 Ibid., p. 301; cf. Felsch 1979, pp. 18–19.
175 Grace 1949; Grace 1956, no. 5, p. 129; Grace 1971, esp. p. 93, discussion under no. 3.
occurrence of finger impressions on Classical and Hellenistic transport amphoras has not received the attention in amphora studies accorded to the more complex stamps.

The Early Iron Age finger impressions assembled above are found on a variety of shapes, serving different purposes. They occur more commonly on handmade vessels but may well be more numerous on wheelmade shapes than is indicated here.\textsuperscript{176} The fact that these impressions are found on a relatively small number of examples of any given shape suggests that they are not an essential component of the process of attaching the handle.\textsuperscript{177}

Another function, suggested by at least one commentator, is that a mark made on a vase prior to firing serves the purpose of indicating or identifying the object as a dedication, or its owner as a dedicant.\textsuperscript{178} Certainly, a great many vases inscribed after firing are dedications or intended as votive offerings; the numerous inscriptions from Mount Hymettos, already discussed, represent only one group of examples. The votive plaque found at the Heraion on Samos and stamped with the same die as that used for \textbf{C5} (see p. 471 above with note 118; p. 483) would certainly qualify as a dedication, identifying the owner of the seal as the dedicant. As for the Early Iron Age vases assembled here, such an interpretation is untenable because not one of the vases can be shown with certainty to have been deposited in a context identified as a temple, sanctuary, or the like. This is not to say that such an interpretation is impossible for the period, only that we have no evidence for it. The problem, in part, may lie in the paucity of known Early Iron Age sanctuary sites or, rather, the poor state of the preservation of, and general lack of well-stratified deposits from, those known.\textsuperscript{179}

The most common interpretation of many of the Bronze Age and post-Geometric marks appears to be as maker’s marks. Emily Vermeule, for example, has stated that potters’ marks are simple symbols that function like a thumbprint on an object.\textsuperscript{180} In the case of the marks of Group D a finger or thumb impression constitutes the mark. The apparent, if not obvious, similarity between the humble Early Iron Age crosses and the ubiquitous \( \times \) serving as a signature for illiterate people living in our own time may be noted.\textsuperscript{181}

The use of identification marks in Greek literature is attested as early as Homer. In Book VII (161–199) of the \textit{Iliad}, Nestor, having shamed the Achaians for not standing up to

\textsuperscript{176} The Corinthian handmade examples catalogued above in Group D include pieces of normal Corinthian “coarse ware” as well as examples of “cooking ware”: Pfaff 1988, pp. 65–79.

\textsuperscript{177} To take just one shape as an example, among the many Early Iron Age chytraí from the Athenian Agora that I have personally inspected, \textbf{D2} is the only example with a finger impression.

\textsuperscript{178} Panayotou 1986, p. 99.


\textsuperscript{180} Vermeule 1972, p. 40; cf. Vitelli 1977, p. 27.

\textsuperscript{181} Although common, the painted crosses of Group A are rarely similar to one another, except, perhaps, in some of those cases where pots are likely to have been produced by one potter. The differences among the various crosses are not only confined to whether the mark was painted upright or diagonally but are also in details of execution. The large \( \times \) on \textbf{A13} from Lefkandi, for example, is certainly very different from the small vertical crosses on \textbf{A12, A14, and A15}, and such differences may be noted among many of the similar marks presented here. Among the vessels plausibly made by the same potter, the crosses on \textbf{A1} and \textbf{A2} are of interest because they are very similar to one another, even though they are found on vessels of totally different shape and in different positions. In both cases, the lower right terminal of the cross is slightly elongated, while the upper left is comparatively shorter.
Hektor's challenge to fight a man in single combat, moved nine Greeks to spring to their feet as volunteers. The aged king of the Pylians recommended that the winner should be chosen by lot:

\[ \text{χλήρω νῦν πεπάλευσε διαμπερὲς, δς κε λάχησων} \] (7.171)

In accordance with the recommendation, each man marked his lot, and these were cast into the helmet of Agamemnon:

\[ "Ως ἐφαθ’, οἶ δὲ χλήρον ἐσμηναντὸ έκαστος, \] 
\[ ἐν δ’ ἔβαλον κυνή \ 'Αγαμέμνονος \ 'Ατρεάδος" \] (7.175–176)

The winning lot was circulated by herald among the Achaian throng and was finally recognized by Ajax, who knew at a glance his mark (σήμα):

\[ δς μιν ἐπιγράφας κυνή βάλε, φαλίμας Αἴας, \] 
\[ ἤ τοι ύπεσθείη χεῖρ, δ’ ἄρ’ ἔμβαλεν ἄγχι παραστάς, \] 
\[ γνώ δὲ χλήρον σήμα ιδὼν, γῆθησε δὲ θυμῶ. \] (7.187–189)

In the above passage it is reasonably clear that the σήματα are marks, not written letters. Elsewhere in Homer the σήματα λυγρά of Bellerophon (II. 6.168) were, similarly, not written letters but simple symbols, pictorial tokens, or devices. The later (Archaic and Classical) use and meaning of σήμα, σημεῖον, ἐπίσημα, ἐπίσημον, and παράσημον, whether denoting "sign", "mark", "seal", "signature", "token", "device", or "emblem", have been reviewed recently by Jeffrey Spier. He sees their beginnings in the late 8th and early 7th centuries and states that most semata are common, single-figure motifs (usually animals) that are neither part of a narrative composition nor abbreviations of a more complex scene (cf. the animals of Group E). He notes that Archaic semata defy iconographic investigation, that our literary sources are of little help, and that the motifs probably had little or no symbolic content. Spier’s discussion concentrates on seals, coins, and shields of the Archaic period. The use of seals in the Early Iron Age, limited as it is, has already been discussed above, and it is clear that the widespread use of seals in post-Bronze Age Greece is not really seen until the 6th century B.C. The emblems on coins are beyond the scope of this paper, as are Greek shield devices, although the latter are found in figurative representations on Late Geometric and Protoattic vases. If the potters’ marks assembled here served a function similar to the Homeric or later semata, then the origin of such marks may be traced to the earliest stages of the Early Iron Age.

182 Cf. LSJ, s.n. σήμα. Some scholars, for example A.T. Murray in his translation of the Iliad (Loeb ed., 1988 reprint of the 1924 translation, p. 274, note 1), note that this is the only passage in Homer that suggests possible knowledge of writing. The word σήμα may denote a mark made by an illiterate person (see note 181 above), as in the papyrus no. 67163.37 (Maspéro 1913).
183 Spier 1990.
185 Spier 1990, p. 128.
186 Spier 1990, p. 109 (with references).
187 The earliest example of a shield device cited by Spier (1990, p. 114 and pl. 5:a) is the Late Geometric amphora in the Benaki Museum (Cook 1947, p. 150; Snodgrass 1964, p. 62, note 95), which shows one warrior in file holding a shield on which there is the emblem of a horse. The earliest extant shields bearing actual devices listed by Spier (1990, p. 114, notes 86–88) date to the very late 7th or 6th centuries B.C.
An interesting twist to the maker's-mark or identification-mark theory is noted by David Frankel, who, following Åström, suggests that potters' marks on some Cypriot Bronze Age vessels convey the identity of the potter and that their function was to identify individual potters' products which had been fired collectively in a common kiln.\(^{188}\) Although such a possibility is perhaps tempting in the case of Bronze Age Cyprus, it seems less likely in Early Iron Age Greece on account of the minimal variety of vessel forms, particularly among the wheelmade wares, which suggests the work of professional potters.\(^{189}\) Furthermore, assuming that the firing of pottery in common kilns was the standard practice in the Early Iron Age, then one might reasonably expect to find a higher incidence of such marks, as is the case in Bronze Age Cyprus. An interesting ethnographic case from eastern Anatolia shows that ceramic vessels made by women in different households and fired communally in a common kiln are distinguished not by isolated or inconspicuous marks but rather by the overall decoration of each vase. Indeed the function of the so-called "decoration" is to identify individual potters' products.\(^{190}\) In a simulation study recreating Neolithic processes of the making and communal firing of pots, Vitelli has shown that hand-building pottery is not only a slow and very individual process but also one in which it is very difficult for even the same person to produce several identical pots.\(^ {191}\) For the firing process she states: "... there is no question of identifying which pot belongs to whom when it comes to unloading the finished products."\(^ {192}\) And even many of the exploded fragments (wasters) can be quickly identified by members of the group.

It may be argued that when the decoration of painted vases is as standardized as is the case, for example, with Attic or Lefkadian Protogeometric and Geometric wares, or when there is no decoration at all, as in the case of the handmade vessels presented here, then simple marks would suit well the purpose of identifying the products of individual potters in communal firings. In the case of the wheelmade painted vases, the very standardization of shape and decoration indicates the work of professional potters, who, like many modern traditional potters of the Mediterranean, maintained their workshop and kiln(s) individually and independently. In such a specialized pottery industry there is little room for communal

\(^{188}\) Frankel 1975, p. 38; Åström 1966, p. 189; cf. Morgantina IV, p. 60. A more penetrating study, suggesting that the function of potters' marks is to identify several potters' products fired collectively in a kiln, is that by Christopher Donnan (1971). Donnan provides illuminating ethnographic analogies that may cast light on the interpretation of ancient Peruvian potters' marks. He distinguishes between pottery manufacture for a market center on the one hand and pottery manufacture by traveling potters on the other. In each case, potters who are not part of the same family or economic unit but who fire their pots collectively in a common kiln mark their vessels. These invariably incised marks are referred to by the modern Peruvian potters as "signales", a term probably deriving from the verb "signar", meaning to sign or mark with seal; see Donnan 1971, p. 465. It should be noted, however, that the ancient potters' marks discussed by Donnan are found only on coarse, sand-tempered utility vessels of coastal north Peru and not on the finer, painted pottery of the Moche style.

\(^{189}\) For Early Iron Age kilns, see Papadopoulos 1989a.

\(^{190}\) I am grateful to Professor Mehmet Özdogan for bringing this information to my attention. In a recent reworking of the Kerameikos tombs, James Whiteley (1991) has suggested, on the basis of an ethnographic analogy with modern Nuristan, that the decoration of Athenian Early Iron Age pottery, particularly that of the 9th century B.C., comprises a set of symbols that denote achieved social rank or status.

\(^{191}\) Vitelli 1977, p. 27.

firing. Similarly standardized are many of the handmade vases assembled here, particularly those from Corinth. The Corinthian potters’ marks occur on three highly specialized shapes: amphoras, hydriai, and pitchers. In the case of all three, the similarity of clay and technique, and the lack of any major variety in individual forms, suggests a uniform and highly productive workshop. Somewhat more variety can be observed in the shape of the handmade wares of Torone, though much less so in the sphere of fabric, burnishing, and technique. The slight differences in details of shape and proportions of the handmade jugs (B6, B8–B10), for example, is perhaps due to diachronic development or change, rather than indicating synchronic variation. Moreover, Frankel’s suggestion of communal firings is based on a mode of pottery production that essentially meets a local or household demand. Few, if any, of the vessels he specifically discusses are exported beyond the immediate region. In the case of the Early Iron Age vessels discussed here, it is clear that potters’ marks occur most frequently on the pottery manufactured at sites such as Athens, Lefkandi, and Corinth, that is, centers whose ceramic products (both wheelmade and handmade) were widely exported. The fact that the pottery of a number of regional Early Iron Age workshops is found, often in quantity, throughout the Aegean, Cyprus, the coastal Levant, Italy, and Sicily would argue that such pottery production may have been in part directed toward an active export trade and not restricted to local consumption.

There are two important differences between Early Iron Age potters’ marks on the one hand and Bronze Age and post-Geometric marks on the other that may provide some hint as to their function. The first is that the vast majority of Bronze Age, and later, marks occur on pottery found in settlement contexts; the large number of marks on pottery from Bronze Age Phylakopi, Lerna, and Keos, as well as Cyprus, are cases in point. Similarly, in the post-Geometric period, it is generally rare to find vessels specifically marked for commercial regulation, like the Greek stamped amphora handles, in any quantity in funerary contexts. Of the seventy Early Iron Age vases with potters’ marks assembled here, at least twenty-six were found in tombs, to which a further two may be added; thirty-two were found in nonfunerary contexts, of which seven (those from the Tounba area at Lefkandi) are associated with a building located on the site of a well-known cemetery; the contexts of the remaining ten are uncertain or lack published details. If the latter are excluded from the calculations, then almost half of all Early Iron Age potters’ marks come from tombs. In certain regions or sites, such as Torone, potters’ marks are only found on pots deposited in

193 Note the similarity in the shape of individual forms in Pfaff 1988, p. 63, fig. 22 (amphoras); p. 64, fig. 23 (hydriai); pp. 69–72, figs. 27–30 (pitchers).
194 See notes 126 and 127 above; for Lerna, see especially Caskey 1955, p. 34, pl. 15c–f; Caskey 1956, p. 156; Caskey 1960.
195 Archaic and Classical amphoras were sometimes used, or reused, as funerary containers; see, among others, Kerameikos IX, pp. 13–14, 20–25, pl. 9.
197 A9 is probably from a tomb, although its exact context is unknown, while A32 was found in the area of the Tiryns cemetery but not actually in a tomb.
199 A24–A30, A33, A34, C5.
200 The figure would be higher if the Lefkandi marks from the Tounba building were regarded as coming from a funerary context; see note 36 above.
tombs. The suggestion, therefore, that the *majority* of marks served some commercial purpose in the Early Iron Age seems less likely, unless the pots bearing the marks saw service prior to having been deposited in their final resting place. It should be stressed, however, that at many Early Iron Age sites in Greece the material largely derives from either funerary or settlement contexts; it is comparatively rare to find substantial quantities of pottery and other small finds from both settlement and tomb contexts at one and the same site.

The second point has to do with the quantity of Early Iron Age potters' marks; the quantitative analysis of the largely Middle Protogeometric deposits encountered inside and in areas immediately outside the Toumba building at Lefkandi is illuminating. Among the 26,000 or so sherds, weighing almost half a ton, recovered in the course of the excavations, only seven bear potters' marks.²⁰¹ At Athens three of the eight examples of potters' marks recovered from nonfunerary contexts were found in two wells, which between them yielded almost 3,000 sherds.²⁰² The situation is similar for sites such as Corinth, Torone, and those in the Argolid, where the quantity of marked vases appears to form only a very small proportion of the total. At other sites, such as Rheneia, Klenia, Nichoria, Aetos, Kastanas, Exochi, Marmariani, and Pithekoussai, a solitary mark is all that has been recorded. There is certainly nothing approaching the quantities of marks at Bronze Age sites such as Phylakopi²⁰³ or Ayia Irini, where some ninety marks were found in Period IV deposits alone (20th/19th to 17th centuries B.C.),²⁰⁴ or in contemporary Lerna, where in the Middle Helladic period well over 100 marks are known.²⁰⁵

The fact that Early Iron Age potters' marks are rare in comparison to earlier and later pot marks, coupled with the fact that many are found in tombs, is of further interest, for if the pattern of deposition is not purely fortuitous, then the possibility of pots being specifically marked as intended for the tomb should not be overlooked. A pot thus marked would essentially entail a special commission (see p. 481 above). Here, the figured representations of Group E are of particular interest. In his discussion of the horses found on a few Attic Protogeometric vases deposited in tombs (including E₁ and E₂), Karl Kübler drew attention to the chthonic character of the animal.²⁰⁶ Similarly, Petros Themelis interpreted the well-known centaur from Lefkandi as a "death daemon" with chthonic features.²⁰⁷ For later Geometric pottery Gudrun Ahlberg considered the ubiquitous bird (cf. E₃) as a "sort of ideogram with the function of underlining the funeral character of these scenes."²⁰⁸ Jack Benson went further by equating birds with horses and not only stressed their funerary symbolism but traced this back to a Mycenaean heritage.²⁰⁹ This heritage and its survival in Greek ritual and religion was well treated by Martin Nilsson, who was able to show, in certain

²⁰¹ Lefkandi II, i, p. 3.
²⁰² The total yield of Well J 14:2 was 999 sherds, that of Well L 11:1, 1,972 sherds.
²⁰³ Edgar in Atkinson et al. 1904.
²⁰⁴ Keos IV, pp. 7–21.
²⁰⁵ See notes 133 and 194 above.
²⁰⁶ Kerameikos IV, p. 5; cf. Kerameikos V, i, pp. 27–28. The chthonic character of the horse is also discussed by other scholars, including Malten 1914; Yavis 1950; Andronikos 1968, pp. 84–91; Burkert 1985, pp. 199–203.
²⁰⁷ Lefkandi I, pp. 215–216; see also Desborough, Nicholls, and Popham 1970.
²⁰⁸ Ahlberg 1971a, p. 233, also pp. 139–141.
contexts, the various iconographic functions of birds. Not only may a bird indicate the epiphany of a god or goddess, it may also represent the human soul. The horse itself has been considered by others as the symbolic standby of aristocratic societies everywhere. Whatever the exact meaning of birds and horses, their funerary associations have been stressed in the modern literature. Without wishing to deconstruct these notions, the fact remains that horses and birds painted on Early Iron Age pottery are found in quantity in settlement debris and in refuse dumps. This is not to say that the funerary or aristocratic complexities of such figures are misguided interpretations but rather that not all horses and birds need have a deeper, symbolic, meaning. Moreover, there is surely a difference between a horse drawing a chariot in an ekphora scene, framing the bier in a prothesis, or standing beside a mourner or a bird associated with combat scenes, whether on land or sea, on the one hand and an isolated horse or bird under a handle on the other. In the former case the animal is structured within a complex representational scene, while in the latter it is isolated and inconspicuous. As has been argued above, the placement of the animals on E1–E3 stands in total contrast to those of the Early to Late Geometric periods, and their closest parallels in terms of position are the painted crosses under the handles of the Attic pottery listed in Group A. Moreover, figures such as E1–E3 are only found in Attic Protogeometric. It has also been suggested above that the horses on E1 and E2 were painted by a single potter, who used this distinctive design as his mark, and that the birds on E3 are also conceivably an idiosyncratic maker’s mark. If such an interpretation is permissible, then the function of these horses and birds would not be unlike the later potter or painter signatures on Greek vases, where the maker explicitly signs his name (those that sign are all men) with egrāph(ē)sen or epoiesen (in any number of spellings). Once more, Vitelli’s experimental studies with a group of students simulating the processes of the prehistoric potter are of interest. She states: “Many of them do mark their creations, usually by incising initials or a symbol on the bottom of their objects.” If Vitelli’s students, like the potter craftsmen of 6th- and 5th-century B.C. Athens, felt the urge to sign or mark their vases, why not the Early Iron Age Athenian potter, particularly one as skilled as the craftsman who produced E1 and E2? In the context of a nonliterary, or protoliterary society, a simple X, like a horse or bird, could easily have served as a signature of sorts, and it is perhaps not surprising that the earliest alphabetic potter’s signature can be traced back to the later 8th century B.C.

211 Ibid.; cf. Hägg 1986. For the “soul-bird”, see further Vermeule 1979, pp. 8, 18–19, figs. 13, 14, 65.
213 Coldstream 1968a, passim.
214 For prothesis and ekphora scenes, see Ahlberg 1971a, passim; for birds associated with combat scenes, see Ahlberg 1971b.
215 Although figures are found in other regional Early Iron Age styles (see note 125 above), their placement on a vase is different from that of E1–E3.
216 Vitelli 1977, p. 27.
217 [---] πος μ’ ἔποιες, from Pithekoussai. See Peruzzi 1973, pl. III; Jeffery 1976, fig. 1; Jeffery 1982, p. 829, fig. 2; Heubeck 1979, p. 123, fig. 50; Johnston 1983, p. 64, fig. 4; Powell 1991, no. 10, p. 128. For the signatures of later Athenian potters and painters, especially useful are the comments of Alan Boegehold (1985, pp. 15–32).
More significantly, there is in Greek no distinction between the word to write and to paint. The word γράφων/γράφω may denote any number of meanings, including to scratch (e.g., σήματα γράφας ἐν πίνακι: “having scratched marks or figures on a tablet”); to sketch, draw (e.g., γῆς περιόδους γράφο: “draw maps”), or paint; to write (e.g., γράφεν αἰς διωθέρας: “to write on skins”); to inscribe (e.g., γράφεν αἰς στήλην: “to inscribe a stele”); to brand (e.g., ἐν τῷ προσώπῳ γραφεῖς τὴν συμφοράν: “having it branded on his forehead”), or, generally, to write down.218

In dealing with the Aegean Bronze Age marks, Sterling Dow notes, “... we may urge that most potters’ marks are not meaningless whimsical scratches, but are lines drawn with full intent; they mean something. Whatever the purpose(s)... the impulse was common.”219 In discussing the welts identified as potters’ marks on Middle Neolithic pottery of southern Greece, Vitelli writes: “They are quite intentional; but if they are not decorative they must have some other meaning or reason for existing.”220 In looking at the Bronze Age material Anna Sacconi concluded that potters’ marks are only occasional notations and do not constitute a system of any kind.221 She further notes that they show no evolution through time and that any resemblance they may have to Aegean scripts is purely fortuitous.222 Other scholars, like Dow, recognize in potters’ marks some remote connection to literacy: “potters’ marks were in the soil from which literacy grew.”223 Others, like Maurice Pope, believe that certain Bronze Age potters’ marks suggest, but by no means prove, a contemporary knowledge of writing.224

Any similarity between such symbols as the painted crosses of Group A or the lambdad-shaped mark on B9 and earlier Aegean scripts or later Greek alphabetic scripts must be purely coincidental. As Johnston has pointed out, the evidence from Lefkandi and Pithekoussai shows that the adoption of the Phoenician syllabary by the Greeks probably took place a generation before the first previously known surviving Greek graffito of ca. 740 B.C.225 Barry Powell, following Rhys Carpenter’s and P. Kyle McCarter’s comparison of Greek and Phoenician letter forms, concludes that the Greek alphabet was created about 800 B.C.226 The proponents of an earlier date of transmission have not won general

218 LSJ, s.v. γράφω; see also Rumpf 1947, p. 10; Jucker 1978, p. 39. In Homer, Il. 17.599 “... γράφεν δὲ ὁ δοτέων δέχρετο”, the word γράφεν denotes “to cut”, in this case the spearpoint of Polydamos cutting to the shoulder bone of Peneleos.
220 Vitelli 1977, p. 17.
221 Sacconi 1974, pp. 207–209.
222 Ibid.
224 Pope 1964, p. 4.
225 Johnston 1983, p. 66, with references to Lefkandi and the recent material from Pithekoussai (p. 63); Johnston also refers (p. 66) to the recent discovery of a Cypriot syllabic inscription of the later 11th century B.C. at Palaipaphos, for which see Karageorghis 1980, fig. 76; also Johnston in Kition IV, p. 49. The Lefkandi material is presented by Jeffery in Lefkandi I, pp. 89–93. For Greek alphabetic and prealphabetic writing systems generally, see Heubeck 1979; see further Jensen 1970, pp. 123–161, 450–582; Jeffery 1967; Best and Woudhuizen 1988.
acceptance. Martin Bernal's radical suggestion that the history of the Greek alphabet can be traced back to the middle of the second millennium has met with stiff resistance. 227 Perhaps the most serious challenge has come from Joseph Naveh, who contends that the transfer occurs as early as 1100 B.C. 228 Although there are, as yet, no verified Greek alphabetic inscriptions before the 8th century, the fact remains that surviving examples of early Phoenician writing, prior to 500 B.C., are not only rare but often insecurely dated. 229 In view of the nature of the evidence, I would concur with Alan Millard's judicious statement: "The arguments for a high date, as for a low, are based on the hazards of survival and recovery, liable to be overthrown by a single find. Unsatisfactory though the position may be, no more precise date can be given for the adoption of the alphabet by the Greeks than the three centuries and a half, 1100 to 750 B.C." 230 But even if unrelated to any script (that is, a known system of writing) the Early Iron Age potters' marks nevertheless constitute in themselves a system of symbols. 231

The history of potters' marks in the Aegean may be traced back to at least as early as the Middle Neolithic period. 232 They take hold in the Early Helladic period and are abundant during the Middle and Late Bronze Age. From the beginning the marks appear to be a constant feature of the Aegean potter's craft. 233 Although ceramic styles develop and change, the craft of the potter remains essentially conservative and traditional. 234 In viewing potters' marks against the backdrop of Aegean pottery production, however, there are, in terms of technology, a number of radical changes in pottery manufacture. Not least among these is the introduction of the kiln, which, on the basis of available data, does not appear before the Early Bronze Age, 235 although some scholars have argued that the domed ovens


229 Powell 1991, p. 20. Only eight early Phoenician inscriptions are listed in the standard work by Donner and Röllig (1962–1964, nos. 1–8). For the difficulties of dating these inscriptions, see Isserlin 1982, p. 804. See also Edwards and Edwards 1974; McCarter 1975b. For a full discussion of the Tekke bronze bowl, see Szynier 1979.


235 As far as I know, the earliest verified potter's kiln, with clear evidence of its firing load, remains that uncovered by Walter Heurtley and Raleigh Radford at Ayios Mamas in Chalkidike, assigned to the Early Bronze Age; see Heurtley 1939, pp. 5–7, figs. 6, 7b; cf. Heurtley and Radford 1927/1928, pp. 152–155. The Late Neolithic "kiln" from nearby Olynthos, published by George Mylonas, is best seen as an oven: Olynthus I,
and circular hearths found in Neolithic settlements, used for cooking and to bake bread, may have also been used for firing pottery.\textsuperscript{236} Other important technical innovations include the introduction of the wheel, controlled reduction firing, and a number of devices used for painted decoration, such as the multiple brush and compass.\textsuperscript{237} Although potters' marks are found from the Neolithic into historic times, it would be wrong to imply that the need or function of such symbols was a constant throughout these periods, especially when their popularity, ranges of form, and use, coupled with the technical aspects of pottery production, so clearly varied with time and place within the Aegean. Nevertheless, the question of continuity, particularly from the Late Bronze Age into the Early Iron Age, deserves to be addressed from the view of pottery manufacture.\textsuperscript{238}

In terms of technique and technology in pottery, the transition from bronze to iron sees no major change. Early Iron Age kilns are virtually identical to those of the Bronze Age, as they are to those of Classical, Hellenistic, and Roman times,\textsuperscript{239} and there is little difference in the preparation of clays, slips, and glazes or paints.\textsuperscript{240} There is, moreover, a good deal of continuity in the sphere of vase shapes, as there is in the details of decorative motifs, although compass-drawn circles and semicircles replaced those previously drawn by hand. The ceramic products of the Early Iron Age do not degenerate to a small household production, meeting the modest needs of a small and isolated community living in the ashes of a Mycenaean citadel. Indeed, the products of a number of regional Early Iron Age workshops were as widely sought after in foreign markets as were the products of the Minoan and Mycenaean "palaces". It is perhaps in such a context of continuity in craftsmanship that the Early Iron Age potters' marks should be viewed.

Continuity from the Late Bronze Age is perhaps also seen in another symbol from the Early Iron Age: two similar marks on a Protogeometric foundation block at Iolkos (Pl. 120:c).\textsuperscript{241} Anthony Snodgrass compares the sign, which is repeated twice on the block, pp. 12–18; compare the comment of Richard Jones (1986, pp. 776–777). For a similar but earlier (Middle Neolithic) oven at Dikili Tash (first uncovered in 1972 and excavated in 1987), see Mylonas 1988, p. 30; \textit{AR} 34, 1987/1988, p. 53 (Catling).

\textsuperscript{236} See, for example, Valmin 1935, p. 26, fig. 8; cf. Gimbutas, Winn, and Shimabuku 1989, pp. 32–74.

\textsuperscript{237} Concerning compasses, as well as the multiple brush and the "speed of the revolving potters' wheel," Harrison Eiteljorg's experiments have raised a good deal of healthy doubt as to the precise nature of the application of decoration on vases of the Protogeometric style. Many of his observations and conclusions have been discussed by Berit Wells in \textit{Asine} II, iv. Whatever the implements themselves may have looked like exactly, the existence of compasses and of the multiple-brush device (or "multiple-quill" device, as Wells would have it) cannot be seriously doubted. See Eiteljorg 1980; \textit{Asine} II, iv, p. 120. For the multiple brush, see Boardman 1960; also useful is the discussion by Coldstream in his review of Courbin 1966 (1966b).

\textsuperscript{238} Continuity in other aspects from the Late Bronze into the Early Iron Age has, most recently, been restated by, among others, Hooker (1988), Deger-Jalkotzy (1991), and S. P. Morris (1989; 1992).

\textsuperscript{239} A useful list of kilns was published by Robert Cook (1961). To this list additions were made by Juliusz Ziemecki (1964, esp. pp. 25–31) and by Kostis Davaras (1980, pp. 118–120, notes 6–20), who earlier provided a list of Cretan kilns of all periods, as well as those of Late Helladic date on the Mainland (1973). Further additions were made by Aikaterine Despoine (1982, pp. 80–91, notes 1–10), and to this list add Papadopoulos 1989a.

\textsuperscript{240} Jones 1986, \textit{passim}.

\textsuperscript{241} Theocharis 1960, pl. 35:a; Orlandos 1960, esp. p. 58, fig. 69; Vermeule 1972, p. 41, fig. 6:bb; Snodgrass 1971, p. 373.
with sign number 24 of the Linear B script and considers it a survival of a hereditary skill.  

Demetrios Theocharis compares the symbol to the letter $\Psi$ of the Greek alphabet.  

There is little doubt that the Early Iron Age potters’ marks represent an important addition to our knowledge of such symbols for the period. They eloquently show yet another element of continuity in the Greek tradition throughout the Early Iron Age. However such marks may actually have functioned in Early Iron Age society, their identification is open to a number of possibilities. Whatever their interpretation, the very fact of their existence is of some importance, for they represent some of the earliest, archaeologically traceable evidence, in the period after the demise of the Mycenaean way of life, of the need for some system of symbols. They establish that the far better documented traditions of potters’ marks in the Bronze Age, on the one hand, and in the Archaic to Classical periods, on the other, are linked by a previously under-appreciated, indeed virtually unrecognized, Protogeometric and Geometric tradition. In the words of Alan Wace, they may argue that “in culture, in history and in language we must regard prehistoric and historic Greece as one indivisible whole.”

**ILLUSTRATION CREDITS**

Figs. 1, 3, 6, 14, 15. Drawings by A. Hooton.

Fig. 2. Drawings by E. L. Smithson, inked by A. Hooton.

Fig. 4. Drawing courtesy of the British School at Athens.

Fig. 5, A38. Drawing by A. Hooton (after *JRGZM* 26, 1979, p. 198, fig. 18, no. 3, with mark added); detail drawing by J. K. Papadopoulos.

A39. Drawing courtesy of the National Museum, Copenhagen (Friis Johansen 1958, fig. 69:a. b).

Fig. 7. Drawing by P. A. Mountjoy.


Figs. 10, 11. Drawings by A. Hooton and J. K. Papadopoulos.

Figs. 12, 13. Drawings by C. A. Pfaff.

Pl. 108. Courtesy DAI Athens; photograph by J. K. Papadopoulos.

Pls. 109, 110:a, 114:a, b, 118. Courtesy Agora Excavations; photograph by Craig Mauzy.

Pls. 110:c, 119. Courtesy DAI Athens.


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242 Snodgrass 1971, p. 373. Symbol 24 (basic value $\mu$) of the Mycenaean syllabary, found with variants at Knossos, Pylos, Mycenae, and Thebes, differs from the more straightforward symbol 27 ($\phi$; basic value $\mu$) in that the upper terminal of the vertical is distinguished by a short horizontal line and that in some of the variants there are two arms on the left side, not unlike (though not identical to) the Iolkos marks. For the Mycenaean syllabary, see Ventris and Chadwick 1973, p. 41, fig. 9 (after Bennett) and p. 23, fig. 4 for the proposed values of the syllabary. For related symbols in Linear A, see ibid., p. 33, fig. 6, L54 ($\phi$), also L52 (after Carratelli); Platon and Brice 1975, p. 96, L54, L52.

243 Orlando 1960, p. 58. It is a sad fact that the symbols on the Iolkos block have been generally overlooked by scholars interested in the chronology of the transmission of the alphabet.

244 On the question of continuity, see notes 10 and 238 above.

245 Wace 1973, p. xxxv.


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Department of Antiquities
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JOHN K. PAPADOPOULOS: EARLY IRON AGE POTTERS' MARKS IN THE AEGEAN
a. B7

b. B8. Potter's mark below handle

c. B9

d. Detail of incised symbol on body of B8

e. B10

f. B11

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a. D1
b. D2
c. Detail of D2

d. D3
e. Detail of D3: handle A
f. Detail of D3: handle B
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a. E1

b. Detail of E1

c. E2

d. Detail of E2

b. E3. Handle view

c. Iolkos, inscription on Protogeometric wall block

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