

Transport Stirrup Jars from Israel

An appendix to “[Transport Stirrup Jars from the Southern Levant: New Light on Commodity Exchange in the Eastern Mediterranean](#),” by David Ben-Shlomo, Eleni Nodarou, and Jeremy B. Rutter (*AJA* 115 [2011] 329–53).

Examples not directly examined by one of the authors are marked with an asterisk (*). Surfaces are presumed unfinished (i.e., simply smoothed) unless otherwise specified. The presence of colored slips on vessel exteriors is noted when applicable.

PAM = Rockefeller Museum, Jerusalem, inventory number
FM = Furumark Motif (Furumark 1941)

Site and Excavation No.	Inv. No.	Sample No.	Archaeological Context	Portion Preserved	Fabric	Description (Make, Shape, Slip, Decoration, Measurements [cm])	Reference(s)
Akko P8600/91	–	Akko1	–	lower body sherd	medium-coarse	broadly looping horizontal Wavy Band (FM 53:14) with three broad horizontal bands below; probably pieced (evidence of two deep, handmade grooves on interior at probable point of junction on lower body, with significant thickening of body wall at same point to 1.4); exterior burnished after painting	Ben-Shlomo et al. 2011, fig. 4a
Akko P8600/1	–	Akko2	–	handle (marked) and shoulder	medium-coarse	broken at top, at point of attachment to false neck disk; thickened vertical strap handle (2.9 x 2.0); wheelmade body(?); vertical band down middle of handle back; ring around handle base	Raban 1988, fig. 13, bottom left; Ben-Shlomo et al. 2011, fig. 4b
Akko P8588/28	–	Akko3	–	base and lower body	medium-coarse	hollowed splaying base (diam. 10.2), beveled at edge; piriform lower body profile; broad band beginning just above bevel, thin band above; possibly pieced, but interior surfaces heavily eroded; exterior slipped (including base underside) and burnished before application of paint on exterior body	Raban 1988, fig. 13, upper right; Ben-Shlomo et al. 2011, fig. 4c
Akko P10001/9	–	Akko4	–	spout	medium-fine	diam. near base of spout ca. 5.0; ring around spout base, band at mid-height(?) above; burnished on surviving portions of exterior after painting	unpublished
Ashdod H2246	–	Ashdod1	13th century B.C.E.; stratum XIV	base and lower body	medium-coarse	base diam. ca. 12.0; hollowed splaying base fragment, beveled at bottom; cream-slipped; lustrous black paint; single band at base	Dothan and Ben-Shlomo 2005, fig. 3.1.11, pl. 3.1; Ben-Shlomo et al. 2011, fig. 4d

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Ashdod, South Beach	–	–	13th century B.C.E.	false neck and handle	medium-coarse	plain; disk diam. ca. 7.5	Nahshoni (forthcoming), fig. 6.1; Ben-Shlomo et al. 2011, fig. 4f
Ashdod, South Beach 103/1	–	Ashdod Beach1	13th century B.C.E. (Locus 1008/1)	shoulder fragment	medium-coarse	heavily worn; exterior originally coated in black(?) paint (now cracked), then overpainted in white with closely spaced horizontal bands (at least five) and two “bands” in the middle at roughly the same level (one tapers to a point, the other becomes much thinner); decoration reconstructed as light-on-dark; pattern unconventional	Nahshoni (forthcoming), fig. 6.3; Ben-Shlomo et al. 2011, fig. 4e
Ashdod, South Beach 2330	–	–	surface find	false neck and handle (marked) fragment	fine	disk diam. ca. 7.0; broad ring at disk edge; surfaces heavily worn; decoration of handle and surface treatment uncertain	Nahshoni (forthcoming), fig. 10.7
Ashkelon 38.75.L512 B228	–	Ashkelon1	13th century B.C.E.(?); phase 10	false neck, handles (one marked), and shoulder fragment	fine (spout), medium-coarse (body), coarse (handles)	disk diam. 7.0–7.5; framed vertical wavy band on handle backs; band around false neck at mid-height	Cross and Stager 2006, fig. 22; Ben-Shlomo et al. 2011, fig. 4g
Ashkelon 38.74.L1079 B117	–	Ashkelon3	13th century B.C.E.; phase 21	handle and shoulder fragment	medium-fine	wheelmade; thickened vertical strap handle stump (wdth. 3.7, thickness 2.5) on incurving shoulder; handle side painted; three or more horizontal bars running across handle back; reddish-brown to very dark gray, crackled, slightly lustrous paint (5YR 3/1–4/3); light burnish on very pale brown slipped (10YR 7.5/3) shoulder and lowermost part of handle back	unpublished
Beth Shean 33-11-16 1726	PAM 34.1237	–	–	handle (marked) and false neck	fine	est. disk diam. 5.5; broad, thin vertical strap handle (3.4 x 1.15) with single medial rib; handle outlined; three concentric circles on disk; polished exterior surfaces	Hankey 1967, 127–28, fig. 4, pl. 28c.1
Deir el-Balah	Jerusalem, Israel Museum, inv. no. IMJ 82.2.606	DB1	tomb (14th century B.C.E.?)	complete	medium-coarse	ht. 30.0, max. diam. 20.0, base diam. ca. 7.2; flat-bottomed torus disk foot; plump piriform body with indentation in lower body profile suggestive of piecing; spout rim painted; band at spout mid-height; single curving band around spout bases, handles, and false neck; shoulder otherwise plain(?); broad upper body zone with six degenerate lilies (i.e., vertical lines capped by two antithetical spirals of two to three revolutions framed by two pairs of narrow bands; pair of bands on lower body; plain foot	Dothan 2008, 127
Deir el-Balah 2631/1*	–	–	–	handle and lower attachment on shoulder	medium-coarse	handle back outlined; ring around lower handle attachment	Dothan and Nahmias-Lotan 2010, fig. 7.2.1

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Deir el-Balah 2784/1*	–	–	–	body sherd	medium-coarse	horizontal Wavy Band (FM 53:14)	Dothan and Nahmias-Lotan 2010, fig. 7.2:2
Deir el-Balah 3580*	–	–	–	false neck	fine	disk diam. 7.8; two concentric rings on disk (one at edge, one inside), with irregular solid blob coating low conical knob at disk center; band at false neck base	Dothan and Nahmias-Lotan 2010, fig. 7.2.3, pl. 46.14
Gezer*	–	–	–	false neck disk	medium-coarse	disk diam. 7.0; cross painted in circle on disk top	MacAlister 1912, 178–79
Tell Abu Hawam	PAM 37.320	TAH2	Building 37	handle (marked) with attachments to false neck and shoulder	coarse	handle back outlined; band ringing false neck disk edge; ring around handle base; very pale brown slip (10YR 8/2–3) coating exterior surfaces, burnished after painting	Hamilton 1935, 49, no. 306a; 53, fig. 310A(b), pl. 19a; Balensi 1980, 77; cat. nos. 501, 505, pl. 131.18; Ben-Shlomo et al. 2011, fig. 3a
Tell Abu Hawam	PAM 37.321, 37.322	TAH23	outside Room 44	body fragment (nine joining sherds)	coarse	max. diam. 31; part of Parallel Chevron (FM 58) group on shoulder in quadrant flanking spout; broad horizontal Wavy Band (FM 53:14) in broad body zone; three bands between shoulder and body zone; lower body and base not preserved; very pale brown slip (8.75YR 8/4), burnished after painting	Hamilton 1935, 49, nos. 306b, 306c, pl. 19b, c (three sherds, two fragments); Balensi 1980, 77, cat. nos. 306b, 306c, 501, 505, pls. 33.7, 155.2; Ben-Shlomo et al. 2011, fig. 2a, upper
Tell Abu Hawam	PAM 37.322/2	TAH24	–	lower body fragment (two joining sherds)	coarse	three bands below broadly looping horizontal Wavy Band (FM 53:14) in broad body zone; fabric as TAH23	Balensi 1980, pls. 33.7, 155.3; Ben-Shlomo et al. 2011, fig. 2a, lower
Tell Abu Hawam	PAM 37.322/1	TAH25	–	false neck and handle stump	medium-coarse	disk diam. 6.8; simple ring at false neck disk edge	see TAH23 Ben-Shlomo et al. 2011, fig. 3e
Tell Abu Hawam	PAM 37.322/2	TAH26	–	body sherd	medium-coarse	paint applied after exterior surface burnished	see TAH23
Tell Abu Hawam	PAM 37.403	–	–	false neck, shoulder, and handle fragment (four joining sherds)	fine	disk diam. 7.5; rib at false neck base; broad thin vertical strap handle (4.30 x 0.95); handle outlined; three concentric circles on false neck disk; band at false neck base; handle base not ringed; polished exterior surfaces	Hamilton, 1935, 52, cat. no. 309n, pl. 22n; Balensi 1980, 103, 436, pls. 37.32, 131.8
Tell Abu Hawam	PAM 37.417	–	Room 64	handle (marked) with attachment at shoulder	fine	handle width 2.7; handle outline painted; possibly from same vase as base and body fragment PAM 47.1618/1–8	Hamilton 1935, 53, fig. 310A(d); Balensi 1980, 108, 436, pls. 37.33, 149.53, 154.10
Tell Abu Hawam	PAM 47.1594	–	–	false neck and handle fragment	fine	disk diam. 5.6; broad, thin vertical strap handle (2.8+ x 0.9); handle back painted with opposed solid semicircles at top; large solid circle ringed by band on false neck disk; exterior surface polished on top of false neck disk and on handle backs	Balensi 1980, 220, 436, pls. 37.31, 139.44

Site and Excavation No.	Inv. No.	Sample No.	Archaeological Context	Portion Preserved	Fabric	Description (Make, Shape, Slip, Decoration, Measurements [cm])	Reference(s)
Tell Abu Hawam	PAM 47.1595	–	–	false neck, shoulder, and handle fragment	fine	disk diam. 6.2; rib at false neck base; false neck solid above mid-height; handle outlined; three concentric circles on false neck disk; band at false neck base; traces of curvilinear pattern on shoulder; broad vertical strap handle (2.4 x 1.15); exterior surface polished on disk top, handle backs, and shoulder	Balensi 1980, 220, 436, pls. 37.35, 141.13
Tell Abu Hawam	PAM 47.1596	TAH3	–	base and lower body	medium-coarse	base diam. ca. 11.0; splaying base with flat bottom, beveled at bottom edge; band at base	Balensi 1980, 220, 501, pls. 33.5, 166.30; Ben-Shlomo et al. 2011, fig. 3h
Tell Abu Hawam	PAM 47.1597	TAH4	–	shoulder fragment with handle scar	medium-coarse (body), coarse (handle)	est. shoulder diam. ca. 30.0; loop around handle base; traces of undeterminable pattern to right of handle in quadrant flanking spout; thin band above broad band (latter not fully preserved) below shoulder; very pale brown (10YR 8/3) exterior surface, slipped and polished	Balensi 1980, 220, 501, pls. 33.3, 166.31 (single sherd)
Tell Abu Hawam	PAM 47.1598/1	TAH5	–	base and nonjoining lower body sherd	medium-coarse	base diam. 9.0; handmade; raised flat base; conical lower body; broad horizontal Wavy Band (FM 53:14) above two bands on lower body; single band at base; white exterior surface, slipped but unfinished	Balensi 1980, 220, 501, pls. 33.8, 166.32; Ben-Shlomo et al. 2011, fig. 3i (base only)
Tell Abu Hawam	PAM 47.1598/2	TAH6	–	spout and shoulder fragment	medium-coarse (body), medium-fine (spout)	handmade spout; body possibly handmade; rim painted, band ringing spout base; band at spout mid-height; unidentifiable curvilinear pattern to left of spout; spout base diam. ca. 5.0	Balensi 1980, 221, 501, pls. 33.2, 124.15; Ben-Shlomo et al. 2011, fig. 2c
Tell Abu Hawam	PAM 47.1599	–	–	base and body sherds (six fragments)	fine	max. preserved ht. 28.0, max. diam. 26.0, base diam. 8.8; flat raised base; wall thickens at mid-height, suggesting vase was pieced; three bands on shoulder, single band just above max. diam., two broad bands on lower body, two bands at base; fine fabric and oddities in wall thickness cast doubt on identification as transport stirrup jar	Balensi 1980, 221, pls. 34.11, 140.5
Tell Abu Hawam	PAM 47.1615	–	–	false neck and handle (marked)	fine	disk diam. ca. 6.0; broad vertical strap handle (2.3+ x 0.8); handle outlined; three or more concentric circles on false neck disk; polished exterior surfaces	Balensi 1980, 226, 436, pls. 37.34, 143.49
Tell Abu Hawam	PAM 47.1615/1	–	–	lower handle segment (marked)	fine	broad vertical strap handle; handle outlined; handle larger (wider and thicker) than TAH 47.1615	Balensi 1980, 226, 436, pls. 32.10, 147.24
Tell Abu Hawam	PAM 47.1618/1–8	–	–	base and body sherds (eight non-joining fragments)	fine	max. preserved ht. 25.0, max. diam. 26.0, base diam. 8.8; hollowed raised base; body thrown as one piece; three bands on shoulder, three bands at max diam., single band on lower body, no banding at base; probably from the same vase are marked handle PAM 37.417 and possibly one of the false necks (TAH 47.1594 or 47.1595)	Balensi 1980, 227, 436, pls. 34.3, 150.61

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Tell Abu Hawam	PAM 47.1622	TAH21	–	spout and shoulder fragment	medium-coarse (body), medium-fine (spout)	rim diam. 5.2; rim painted, loop around base extending toward false neck but omitting handles	Balensi 1980, 229, 501, pls. 33.6, 129.8; Ben-Shlomo et al. 2011, fig. 2d
Tell Abu Hawam	PAM 47.1629	–	–	false neck and handle	fine	disk diam. ca. 6.4; broad vertical strap handle with medial rib (wdth. 3.6, max. thickness 1.5); handle outlined; band at edge of false neck disk; polished exterior surfaces	Balensi 1980, 230, 436, pls. 37.30, 148.44
Tell Abu Hawam	PAM 47.1639, 1639/1	TAH8	–	body sherds (two nonjoining)	medium-coarse	horizontal Wavy Band (FM 53:14) below one horizontal band (at base of shoulder) and above three horizontal bands (on lower body); sudden change in wall thickness of lower body indicative of piecing; exterior slipped very pale brown (10YR 8/3) and burnished	Balensi 1980, 236–37, 501, pls. 130.25, 164.98; Ben-Shlomo et al. 2011, fig. 3b
Tell Abu Hawam	PAM 47.1640, 1640/1	TAH7	–	lower body sherds (two nonjoining)	medium-coarse	max. preserved diam. 18.0; base diam. ca. 11.0; piriform lower body profile, broken at point of attachment to base disk; band-line-band on lower body, line-line-band at base; slipped very pale brown (10YR 8/3.5) and polished	Balensi 1980, 501, pls. 33.4, 122.3; Ben-Shlomo et al. 2011, fig. 3j
Tell Abu Hawam	PAM 47.1641, 1641/1, 1641/2	TAH9	–	spout, shoulder fragment, and body sherds (three nonjoining fragments)	medium-coarse (body), fine (spout)	max. diam. 26.0; broad band looping around spout and handle base on shoulder; broad horizontal Wavy Band (FM 53:14) in broad body zone separated from shoulder by single band	Balensi 1980, 237, 502, pls. 33.1, 145.76; Ben-Shlomo et al. 2011, figs. 2b, 3d
Tell Abu Hawam	PAM 47.1746/1, 115, 120, 125	TAH10	–	body sherds (four nonjoining)	medium-coarse	horizontal Wavy Band (FM 53:14) above a single preserved band	Balensi 1980, 328, 436, pls. 135.81, 135.81bis, 142.43, 145.95; Ben-Shlomo et al. 2011, fig. 3c (single sherd)
Tell Abu Hawam	PAM 47.1746/7	TAH12	–	lower body sherd	medium-coarse	horizontal Wavy Band (FM 53:14); possibly from same vase as PAM 47.1746/173	Balensi 1980, 307, 436, pl. 145.96
Tell Abu Hawam	PAM 47.1746/21	TAH19	–	shoulder fragment	medium-fine	shallowly looping horizontal Wavy Band (FM 53:14) below another band at point where shoulder begins to flare up to false neck; burnished before genuinely matte gray-black paint applied	Balensi 1980, 310, pl. 148.47
Tell Abu Hawam	PAM 47.1746/43	TAH18	–	shoulder fragment	medium-coarse	horizontal Wavy Band (FM 53:14) making contact with single preserved horizontal band	Balensi 1980, 314, 436, pl. 129.21; Ben-Shlomo et al. 2011, fig. 3f
Tell Abu Hawam	PAM 47.1746/44	TAH16	–	shoulder fragment	medium-coarse	single band preserved at bottom of sherd	Balensi 1980, 315, 436, pl. 143.55
Tell Abu Hawam	PAM 47.1746/60	TAH17	–	shoulder fragment	medium-coarse	three horizontal bands; very pale brown (8.75YR 8/4) slipped exterior	Balensi 1980, 318, 436, pl. 138.24, left

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Tell Abu Hawam	PAM 47.1746/62	TAH11	–	lower body sherd	medium-coarse	horizontal Wavy Band (FM 53:14) above two bands; sudden thickening of interior body profile indicative of piecing	Balensi 1980, 318, 436, pl. 138.24, right
Tell Abu Hawam	PAM 47.1746/63	TAH13	–	lower body sherd	medium-coarse	sudden thickening of interior body profile at bottom preserved point, possibly indicative of piecing; very pale brown (10YR 8/3–4) exterior, slipped and burnished before painting	Balensi 1980, 318, 436, pl. 138.26
Tell Abu Hawam	PAM 47.1746/118	TAH15	–	shoulder fragment	medium-coarse	two bands on shoulder	Balensi 1980, 329, 436, pl. 142.41
Tell Abu Hawam	PAM 47.1746/173	TAH14	–	lower body sherd	medium-coarse	horizontal Wavy Band (FM 53:14); possibly from same vase as PAM 47.1746/7	Balensi 1980, 340, 436, fig. 3.7; pl. 117.3
Tell Abu Hawam	PAM 47.1746/175	–	–	lower body sherd	fine	two broad bands; sudden thickening in body wall indicative of piecing; burnished before painting; fine fabric in combination with evidence for piecing casts doubt on identification as transport stirrup jar	Balensi 1980, 341, pl. 117.6
Tell Abu Hawam*	Paris, Musée du Louvre, inv. no. 49-86-46	–	–	handle (marked) and false neck disk	–	vertical wavy band on handle back	unpublished
Tell Abu Hawam*	Paris, Musée du Louvre, inv. no. Louvre 9-86-06	–	–	handle (marked)	–	plain	unpublished
Tell Abu Hawam*	Paris, Musée du Louvre, inv. no. Louvre 49-86-61	–	–	handle (marked)	–	plain	unpublished
Tell Abu Hawam 5105/14	–	–	–	shoulder fragment	medium-coarse	horizontal Wavy Band (FM 53:14)	unpublished (M. Artzy, pers. comm. 2009)
Tell Abu Hawam 6035/1	–	–	–	false neck and handle	medium-coarse (false neck), coarse (handle)	disk diam. 6.5; vertical wavy band on handle back; linked hooks on disk top; very pale brown slip	unpublished (M. Artzy, pers. comm. 2009)
Tell Abu Hawam 5527/1	–	–	–	body sherd	medium-coarse	linear banding; white-slipped exterior	unpublished (M. Artzy, pers. comm. 2009)
Tell Sera 37613	–	–	Locus 502	upper body and shoulder	medium-coarse	triple wavy stem (FM 19?) on shoulder opposite spout, above two or more horizontal bands at base of shoulder, preserving trace of U-shaped loop around one handle base and connecting to ring around false neck base; white/very pale brown slipped exterior	unpublished

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