



Designation: F 340 – 71 (Reapproved 1993)^{ε1}

Standard Specification for Pilot-Type Medical Countersinks¹

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ε¹ NOTE—Section 6 was added editorially May 1993.

1. Scope

1.1 This specification covers an acceptable countersink instrument intended to countersink a drilled pilot hole in bone to receive the tapered head of a medical bone screw. The specific design covered by this specification incorporates a pilot tip of suitable diameter to engage the pilot hole and a countersink contour for medical bone screws conforming to Specification F 543.

1.2 The values stated in inch-pound units are to be regarded as the standard.

2. Referenced Documents

2.1 *ASTM Standards:*

F 543 Specification for Cortical Bone Screws²

3. Material

3.1 Medical countersinks conforming to this specification shall be fabricated from such material as the manufacturer

determines will meet the functional requirements of these countersinks.

4. Dimensions

4.1 Medical countersinks conforming to this specification shall be fabricated in accordance with the dimensions illustrated in Fig. 1.

5. Tolerances

5.1 Medical countersinks conforming to this specification shall be fabricated in accordance with the tolerances indicated for specific dimensions illustrated in Fig. 1. Where tolerances are not indicated for dimensions, the following tolerances shall apply:

Fractional dimensions	±1/64 in. (0.40 mm)
Decimal dimensions	±0.005 in. (0.13 mm)
Angles	±2°
Metric dimensions	±0.5 mm (0.019 in.)

6. Keywords

6.1 countersinks; instruments; orthopaedic medical device–bone; orthopaedic medical devices–bone screws; pilot–type countersinks

¹ This specification is under the jurisdiction of ASTM Committee F-4 on Medical and Surgical Materials and Devices and is the direct responsibility of Subcommittee F04.21 on Osteosynthesis.

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² *Annual Book of ASTM Standards*, Vol 13.01.