TEST INDICATOR SNUGS AND SPLIT BUSHINGS USAGE GUIDE

DOVE TAIL STYLE SNUGS:

PT22428: 3/32-1/4" (2.4-6.3mm) inch hole on one side and standard female dove connection on the other. For use with 708, 709 and 811 Test Indicators. Allows connection to 657AA, 657A Magnetic Base and PT017762 Holding Rod for 252 Height Stand and PT11770A Tool Post Holder or 711-49 Height Gage Attachment.

ROUND CONNECTION SUNGS:

657S: 1/4" hole on both ends

PT18718: 3/32-1/4" hole on one end 5/16" on the other

PT18724: 3/32-1/4" hole on one end 3/8" on the other

657H: 3/8" inch hole on both ends

665D: 3/8" inch hole on one end .465" (11.8mm) on the other. Includes 665L (.375" bushing)

PT16846 (not shown): 3/4" inch hole on both ends

UNIVERSAL STYLE SNUGS:

58S: 3/32-1/4" hole allows connection to 1/4", 5/16", 3/8" (6.3, 8, 9.5mm)

Universal Drum Style Snugs:

57S: 5/16" and 3/8" (8, 9.5mm) on one end and 9/64", 5/32", 3/16", 1/4" (3.5, 4, 4.8, 6.3mm) on the opposite

NOTE: 3/8-1/4" bushings can be used with some of the snugs above to change 3/8"-1/4" where required (see PT00764)

SPLIT BUSHINGS:

657R: outside .312" (7.9mm), inside .250" (6.3mm), length 1.000" (25.4mm)

PT00764: .375" (9.5mm) outside, inside .250" (6.3mm), length 1/2" (12.7mm)

80SB: outside .375" (9.5mm), inside .219" (5.5mm), length 1/2" (12.7mm). Used to increase the stem diameter on Starrett 80 miniature indicators to standard .375" diameter.

25MSB: outside .375" (9.5mm), inside .316" (8mm), length 1/2" (12.7mm), converts metric stemmed indicator to standard 3/8" diameter

665L: outside .465 (11.8mm), inside .375" (9.5mm), length 1-1/4" (31.5mm)

25SB: outside .500" (12.7mm), inside .375" (9.5mm), length 1/2" (12.7mm)



BEST PRACTICES FOR TEST INDICATORS AND HOLDERS

Test indicators are primarily used for testing or checking parts and for machine setups. They are a tool that is indispensable for working as a machinist or toolmaker. They are available in two types — plunger style and the lever style. Both are versatile, but the lever style is more adaptable to smaller, confined working areas.

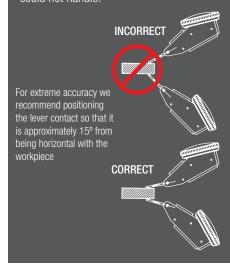
Unlike other indicators, the lever style's contact moves in an arc rather than in a straight line. This can cause a slight inaccuracy called "cosine error" if the angle of the lever to the workpiece is too steep. If, for example, a lever was set off an additional 20°, there could be an error of .0006" in a .010" range (0.012 mm in a 0.2mm range).

It is good practice, therefore, to keep your contact at or near 90° to the direction of movement.

Test indicators should always be "loaded" 1/10 to 1/4 of a turn before measuring.

Test indicators are comparative instruments that check and compare to known standards or that are used to zero-out setups.

We have a broad selection of holders shown in this section that allow you to use these indicators to the fullest. We've never seen a job that one of these holders combined with one of our test indicators could not handle.





INDICATOR HOLDERS

657 INDICATOR HOLDERS

Base has three precision ground, magnetic contact surfaces. Grips horizontally, vertically or upside down. V-step holds base to round surfaces. Extra #1/4-20 tapped hole in one side of base (not shown) for mounting post.

Available with or without Starrett AGD Dial Indicators: inch reading 25-131J (graduation .0005", dial reading 0-25-0, range .125") or millimeter reading 25-181J (graduation 0.01mm, dial reading 0-50-0, range 2.5mm). Other indicators can be furnished on request.

657 Base Holder Assembly and Individual Components						
Photo Key	Description	Cat. No.	EDP			
	Magnetic Base, Upright Post Assembly Including Post, Swivel Post Snug and Gage Holding Rod	657D	52749			
Α	Magnetic Base Only	657P	52757			
В	Upright Base Post Only	657G	52753			
C	Swivel Post Snug Only	657H	52785			
D	Gage Holding Rod with Clamp Mechanism	PT06784-A	52755			
Е	Universal Snug with 5/16" and 3/8" Hole Dia.	57S	50296			
F	Universal Snug with 1/4", 5/16" and 3/8" Hole Dia.	58S	56613			

Sets including magnetic base, oping it rost assembly and Add Dial indicators							
	w/Finished Wood Case		Without Case				
Description	Cat. No.	EDP	Cat. No.	EDP			
Base and Upright Post Assembly with Inch Reading Indicator 25-131J	657EZ	52751	657E	52750			
Base and Upright Post Assembly with Millimeter Reading Indicator 25-181J	657MEZ	56358	657ME	56357			

- A. 657P Magnetic Base. 1-15/16" x 1-5/8" x 1-7/8" (50 x 40 x 48mm) deep. Push button on/off switch for one-hand operation.
- B. 657G Upright Base Post. 3/8" (9.5mm) diameter x 7-7/16" (190mm) length overall.
- C. 657H Swivel Post Snug. Allows universal indicator adjustment up-and-down, any vertical angle, for a complete 360°. Two 3/8" (9.5mm) holes.
- D. PT06784-A Gage Holding Rod. 3/8" x 9-1/2" (9.5 x 240mm) with clamping mechanism for gripping the indicator lug back (see photo below).
- E. F. 57S and 58S Universal Snugs. Adapt various scribers and indicator shanks to rods and posts.

