

The ZipBushing™ Precision Threaded Locator The Zipusining "Precision Inreaded Locator Bushing from Elijah Tooling, Inc. (ELT) is a patented product developed as a combination replacement of bushing and threaded insert which together make up a multi-purpose-hole (MPH). The multi-purpose hole is used in (MPH). The multi-purpose hole is used in modular fixturing to provide location and holding capability by multiple means. Typically a bushing is co-xalially aligned with a thread insert to facilitate the use of dowel pins. XZett\(^{\text{Tr}}\) retractable dowel pins or shoulder screws for locating purposes, and screws, bolts, and similar for holding purposes. (In some situations, it is desirable to hold and locate at the same time, made possible via precision dowel screws - shoulders screws).



The advantage of the ZipBushing ™ Precision Threaded Locator Bushing is that all of the holding and locating capability is supplied via one product, not two. Not only does it consist of one unified

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## **OPERATING INSTRUCTIONS**

- Prepare the receiving plate in the following manner:
   Drill a 41/64" (16.27mm) diameter to a depth of at least 1.22" (31mm). preferable to produce a through hole, but not necessary. If self-topping option is preferable to produce a through hole, but not necessary. If selt-tapping option is desired, and depending upon method used & torque applied, a larger hole may be necessary. Up to 17.5mm will work.

  - Countersink. 75:20,75:23\* (19.1mm) to a depth of at least. 48\* (12.2mm)

  - Countersink. 78\* (19.8mm) x 90 degrees

  - Tap or Thread M1.8x1.5 to a minimum depth of 1.13\* (28.7mm).

- (Optional if self-topping option is desired.)



- Install ZipBushing™ Precision Threaded Locator Bushing
   Apply medium duty thread locker to the outside threads.
   Place "ZipBushing" into prepared hole.
   Insert ELT-EZD-DRIVER-1 drive mechanism into the drive

element (10 star pattern) of the bushing. **Driver**- Using PRO-1 torque limiting pneumatic wrench (or equivalent), at the # 2 torque setting, applying approximately 35 ft.lbs. force, to screw bushing clockwise until it bottoms in the hole.

Remove ZipBushing™ Precision Threaded Locator Bushing

Insert ELT-2D-DRIVER-1 into the drive element of the product.

- Using PRO-1 torque limiting pneumatic wrench (or equivalent), at the # 4 torque setting, apply approximately 65 ft.lbs. force, screwing counter-clockwise until the product is out.

USE ZIPBUSHING™ PRECISION THREADED LOCATOR BUSHING WITH: 1/2" LOCATING SHOULDER PRODUCTS, SUCH AS XZERTZ" RETRACTABLE DOWEL PINS, DOWEL PINS OF MANY TYPES, SHOULDER SCREWS ETC.; 1/2"-13 SCREW PRODUCTS SUCH AS SOCKET HEAD CAP SCREWS ETC.





LIMITED WARRANTY: We warrant that within 90 days from the date of shipment, if the product manufactured by us and sold by us (or an authorized distributor) is in the possession of the original buyer, we will replace or repair, at our option, free of charge, any part or parts which upon examination are found to be defective in workmanship or materials and not due to normal wear, provided that, upon our request, the product or parts thereof are retirmed to our location, with accompanying documentation that the product has been installed, used and antilatized in accordance with installations and upon the product without our written constant installed, used and antilatized in accordance with installations made upon the product without our written constant installed, used and additions, or modifications made upon the product without our written constant installed. Used and additions, or modifications made upon the product without our written constant installed. Used and additions, or modifications made upon the product without our written constant installed. But the product installed in the product without our written constant installed. But the product installed in the product without our written constant installed. But the product without our written constant installed used in the product without our written constant installed. But the product without our written constant installed used in the product without our written constant installed used in the product without our written constant in the product without in the product without in the

Proviso: The Elijah Tooling Inc. ZipBushing Threaded Locator Bushing is not certified to any specification. USE AT YOUR OWN RISK. DO NOT APPLY IN EXCESS OF 90 FT.LBS. FOR MATING SCREW. If loading is a concern, it will be necessary for you town load analysis prior to usage in an application.

## ELIJAH TOOLING

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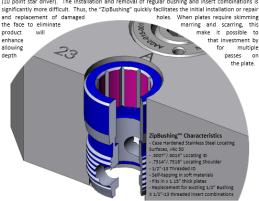
## OPERATING INSTRUCTIONS & WARRANTY

ELT-EZD-.501x.752-1 ZipBushing™ Precision Threaded Locator Bushing

1-877-462-BOLT



dowel screws - shoulders screws). The advantage of the ZipBushing "" Precision Threaded Locator Bushing is that all of the holding and locating capability is supplied via one product, not two. Not only does it consist of one unified product, but it is easily installed, by turning; or removed, by turning, using the EZE-DRVE" feature (10 point star driver). The installation and removal of regular bushing and insert combinations is significantly more difficult. Thus, the "ZipBushing" quickly facilitates the initial installation or repair





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- Counter Bore .7520/.7523" (19.1mm) to a depth of at least .48" (12.2mm)

- Countersink .78" (19.8mm) x 90 degrees Tap or Thread M18x1.5 to a minimum depth of 1.13" (28.7mm).
- (Optional if self-tapping option is desired.)
- Install ZipBushing™ Precision Threaded Locator Bushing

  - Apply medium duty thread locker to the outside threads.

    -Place "ZipBushing" into prepared hole.

    -Insert ELT-EZD-DRIVER-1 drive mechanism into the drive element (10 star pattern) of the bushing.

    -Using PRO-1 torque limiting pneumatic wrench (or equivalent).

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LIMITED WARRANTY: We warrant that within 90 days from the date of shipment, if the product manufactured by us and sold by us (or an authorized distributor) is in the possession of the original buyer, we will replace or repair, at our option, free of charge, any part or parts which upon examination are found to be defective in workmanship or material, and not due to normal wear, provided that, upon our request, the product or parts thereof are returned to our location, with accompanying documentation that the product has been installed, used and maintained in occordance with installations and used upon the product without or written constant installed. Used and maintained in social additions, or modifications made upon the product without or written constant. This sarrants is in lieu of all other repetus or implied warranties (including without limitation any varranty) of mineral parts or parts of the product without or written constant. In the product without or written constant is used to be a part of the product without or written constant. In the product without or written constant is used to all other parts or implied warranties (including, but not late.) It is used to be a part of the purpose of the product without or written constant. In the product without we will not be a part of the product without or written constant. In the product without or written constant is used to all products and parts or the product without or written constant. In the product without or written constant is used to all products and parts or the product without or written constant. In the product without or written constant is used to all products and parts or the product without or written constant. In the product without or written constant is used to all products and parts or the product without or written constant. In the product without or written constant is used to all products and parts or the product without or written constant. In the product without or written constant is used to all products and written to a part of

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