ELT-EZD-.500x.752-1 ZipBushing™ Precision Threaded Locator Bushing



The ZipBushing™ Precision Threaded 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 modular fixturing to provide location and holding capability by multiple means. Typically a bushing is co-axially aligned with a threaded insert to facilitate the use of dowel pins, XZertz" retractable dowel pins or shoulder screws for locating purposes, and screws, boits, and similar for holding purposes. (in some chutations it is desirable as hold and (nace) as situations, it is desirable to hold and locate at the same time, made possible via precision dowel screws - shoulders screws).

and replacement of damaged the face to eliminate product will

23

enhance

allowing

depth

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-DRIVE" 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



holes. When plates require skimming marring and scarring, this make it possible to

ZipBushing™ Characteristics
- Case Hardened Stainless Steel Loc

Case Hardeneo urfaces, >Rc 50

that investment by

passes the plate

multiple

for

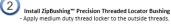
Locating Shoulde $\angle_{\text{O.D.Threads}}$ Relief Holes Hardened For Self-Tapping Locating I.D. ∠ EZE-DRIVE™ ELEMENT

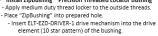
OPERATING INSTRUCTIONS

Prepare the receiving plate in the following manner:

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

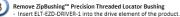
- Counter Bore .7520/.7523" (19.1mm) to a depth of at least .48" (12.2mm)
- Countersink .78" (19.8mm) x 90 degrees
 Tap or Thread M18x1.5 to a minimum depth of 1.13" (28.7mm). (Optional if self-tapping option is desired.)





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.



Insert CH-22D-Value and the release of the product of

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.

530950752 eaded Locator "Speed" OAL ZipBushing" Precision Thr P/N: ELT-EZD-.500x.752-1 .500" ID x .752" x 1.125" O .500x.752-1 64



Driver

LIMITED WARRANTY: We warrant that within 80 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 occidence with installed caused and maintained in occidence with installed or written constraints in the original buyer, we will replace to constraints and the product without or written constraints. This warranty is in lieu of all other express or implied warranties (including without limitation any varranty of merchantability or fiftens as fore a personal purpose) in no event shall we be liable for any indirect, special, or consequential damages (including, but not limited to, just product or buy and or their damages is not loss of production) caused by the defertive meterial or buy unstall factors or their damages is not loss of production) caused by the defertive meterial or buy unstall factors and on the productive or their damages (including with a standard or buy unstall factors or their damages (including as the productive or buy unstall factors or the productive or buy or their damages (including as the productive or buy or their damages (including as the productive or buy or their damages (including as the productive or buy or their damages (including as the productive or buy or their damages (including as the productive or buy or their damages (including as the productive or their damages). The productive or their damages (including as the productive or their damages) and their damages or their d

Proviso: The Elijah Tooling Inc. ZipBushing To 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 to perform your own load analysis prior to usage in an application.

TOOLING

The ZipBushing™ Precision Threaded Locator

OPERATING INSTRUCTIONS & WARRANTY

ELT-EZD-.500x.752-1 ZipBushing™ Precision Threaded Locator Bushing

1-877-462-BOLT

Bushing

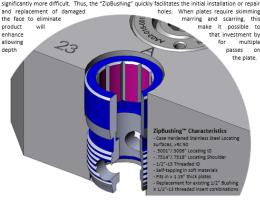
Locator

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The advantage of the ZipBushing ™ Precision Threaded Locator Bushing is that all of the holding and 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-DRIVE™ 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 and replacement of damaged





OPERATING INSTRUCTIONS

Prepare the receiving plate in the following manner:
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- Tap or Thread M18x1.5 to a minimum depth of 1.13" (28.7mm). (Optional if self-tapping option is desired.)
- (2) 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.

Driv
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-EZD-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.

Bushing 64530950752 OAL "Speed" ZipBushing" Precision Thre: P/N: ELT-EZD-.500x.752-1 .500" ID x .752" x 1.125" OA



LIMITED WARRANTY: We warrant that within 80 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 accordance with instructions and has not been subject to absent. We shall not be label or responsible for parts parts and the product without our written constant in the product without our written constant.

This warranty is in lieu of all other express or implied varranties (including without limitation any warranty of merchantability or fiftness for a perticular purpose.) In no event shall we be liable for any indirect, special, or consequential damages (including, but not limited to, loss production) accordance with surface in our surface and the product of the parts of the product or by any of

Proviso: The Elijah Tooling Inc. ZipBushing In