Adjustment Sleeves

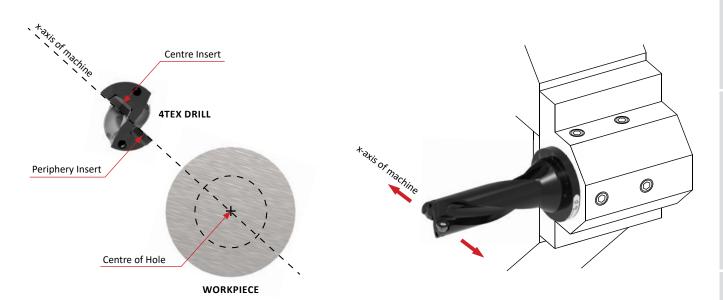
Diameter Adjustment



For Milling Applications

- 1. Assemble the 4TEX Drill, eccentric sleeve, and tool holder. Do not tighten the tool holder set screws.
- 2. Using the peripheral marks for milling machines, align the reference indentation on the holder with the 0 (zero) mark on the eccentric sleeve to have no offset.
- 3. Rotate the sleeve in the (+) or (-) direction to increase or decrease the nominal diameter.
- 4. Once the drill has arrived at the desired diameter, firmly tighten the top set screw first and then tighten the bottom set screw.

NOTICE: Eccentric sleeves are to be used with side-locking tool holders only. Damage may result with other styles of tool holders.



For Lathe Applications

- 1. Assemble the 4TEX Drill into the lathe turret with the top face of the inserts parallel to the x-axis of the machine. This will allow for the diameter offsets to be made using the lathe's x-axis.
- 2. To increase the nominal diameter, offset the x-axis so the periphery insert moves away from the Centre of the hole.
- 3. To decrease the nominal diameter, offset the x-axis so the periphery insert moves toward the Centre of the hole.

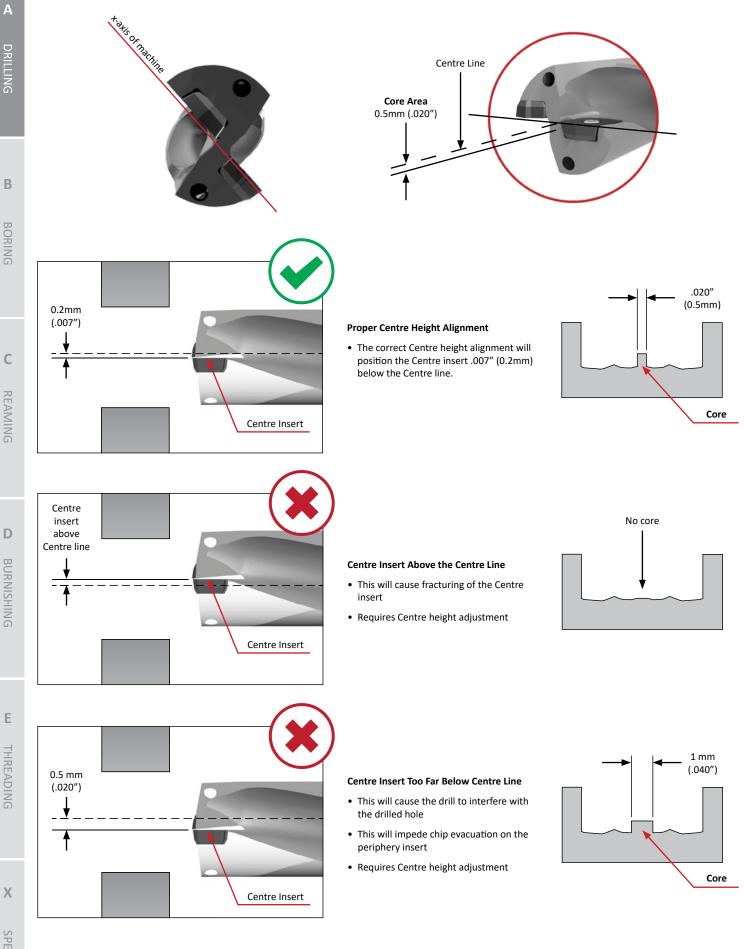
SPECIALS

Centre Height Alignment

Proper Centre Line Position

Α

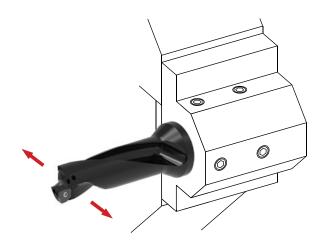
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Centre Height Alignment

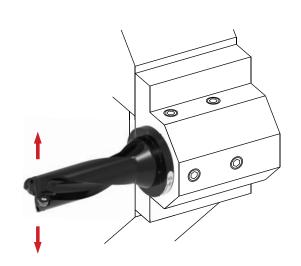
How to Correct Issues



Method 1: Adjustment with X-Axis

- 1. Rotate the drill body so the position of the Centre line of the inserts is perpendicular to the lathe's x-axis.
- Use the x-axis to offset the position of the Centre line in a (+) or (-) direction to increase or decrease the Centre core diameter at the bottom of the hole.

NOTE: This method does not allow diameter adjustments using the x-axis.



Method 2: Adjustment with Eccentric Sleeve

- 1. Assemble the drill to the turret using the eccentric sleeve, positioning the Centre line of the inserts parallel to the x-axis.
- 2. Align the reference indentation on the drill to the "0" setting on the flange face.
- 2. Rotate the sleeve (+) or (-) to increase or decrease the Centre height of the inserts in order to increase or decrease the core diameter at the bottom of the hole.

NOTE: This method still allows diameter adjustments using the x-axis.

NOTE (applies to both methods): Adjusting the Centre line of the inserts may affect the hole diameter produced. Method 2 is preferred to make Centre height adjustments and compensate for hole diameter with the x-axis.

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