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Frequently Asked Questions

Calibrating the depth sensor on the NOVA Voyager Drill Press

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Safe practices should always be employed to ensure the Health and Safety of yourself, employees and customers (if applicable) Refer to product manuals, exploded drawings and our website if further assistance is required, or contact us on service@teknatool.com

Date Amended

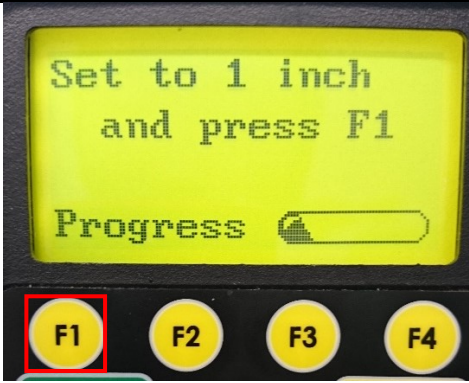

To calibrate the depth sensor of the NOVA Voyager Drill press.

Terminologies:

1. 0 position
 - Where the tip of the drill bit starts descending from (Or in other words where the depth measurement starts from)

Procedure:

Step No.	Description	Image
1.	<p>Access the calibration function of the drill press from pressing <Menu/Cancel> key then select "Configuration"</p> <p>Use the dial to navigate through the options and press the dial to select.</p>	
2.	<p>Inside "Configuration" select "Drill Setting" then "Calibrate Depth"</p>	
3.	<p>You will be prompted to set the drill press to the 0 position.</p> <p>Once the drill press is set to the 0 position, press <F1> to continue.</p> <p>Note: 0 Position is chosen by the user.</p> <p>e.g. 0 position can be set on the top surface of the working piece.</p>	

<p>4.</p>	<p>Next you will be prompted to set the drill press to the 1 inch depth position and press <F1> to continue.</p> <p>Note: This process is repeated for 2,3,4 and 5 inch positions*</p> <p>*Procedures for setting the depth position shown in the later section of this article.</p>	
<p>5.</p>	<p>To finalise the calibration press the <Zero/ Confirm> key</p>	

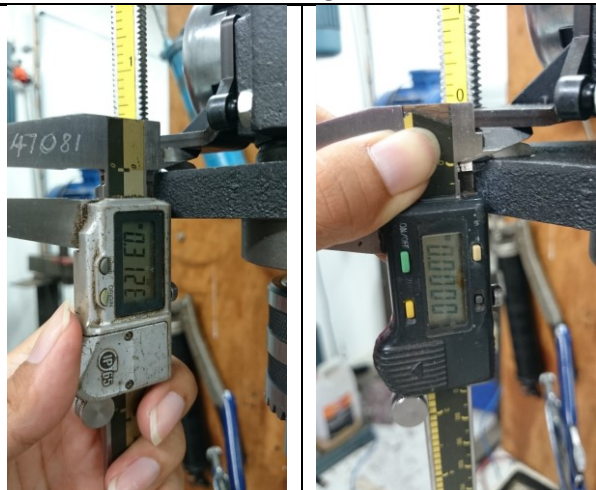
To set the depth positions:



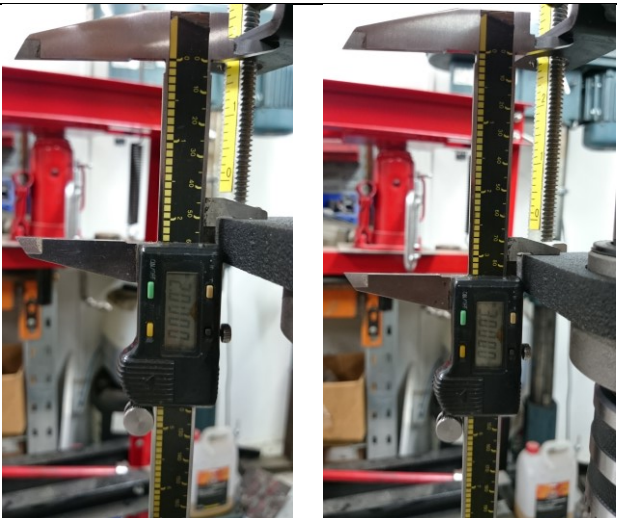
Tools required:

1 x Venire Calliper (Digital is preferred for ease of use)

Procedure:

In this explanation, the 0 position is set at where the quill is fully retracted

Step No.	Description	Image
<p>1.</p>	<p>Set the venire between the gap of the mechanical stop mount and stop bracket of the drill press as shown in the image.</p> <p>Lock the venire at this position and set it to 0 by pressing the <Zero> button.</p>	

<p>2.</p>	<p>Manually set the venire to 1"</p> <p>Lock the venire into position using the screw (or any other way depending on venire)</p> <p>Note: Lock it very tight, use a clamping tool to ensure tightness but be careful not to damage the tool.</p>	
<p>3.</p>	<p>Turn the handle to lower the quill and gently put the venire in-between the mechanical stop plate and bracket like step 1. Let the plates hold the venire, this will give 1" spacing between the plates. This equals to 1" dip from the 0 position.</p> <p>Press <F1> and continue to next position.</p> <p>Note: The springs on the drill press quill is very strong therefore the venire has to be locked tightly.</p> <p>Make sure the venire is perpendicular with the mechanical stop mount.</p>	
<p>4.</p>	<p>Repeat step 3 for 2",3",4" and 5" positions.</p> <p>Note: Images showing for 2" and 3" positions</p>	

Note:

Accuracy of the sensor is between ranges of -2% to +2%

i.e. If display shows 1.00 inch but in reality, if the measurement is 1.02 inch that is still within the sensor tolerance.