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Frequently Asked Questions

NOVA Comet II Versaturn – Grinding Wheel Wobbling

Date Raised: 19 April 2017 Date Amended	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

The grinding wheel attachment for the NOVA Comet II may cause excess vibrations during use. The cause of this might be:

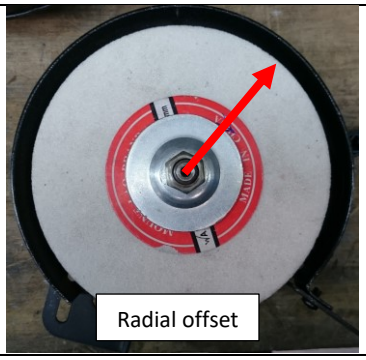
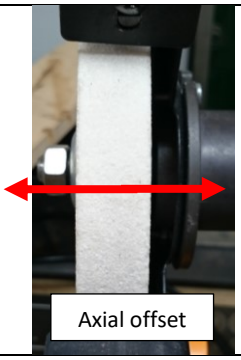
1. Grinding stone is not properly secured
2. Grinding stone is not running true

Follow the below solutions and procedures in descending sequence to identify the exact cause of the problem.

Solution for the first case where the grinding stone is not properly secured:

Step No.	Description	Image
1.	Open the cover by removing 3 Philips screws with nuts on the other side.	
2.	Remove the nut attached screwed on the shaft and remove the grinding wheel and check if there is anything caught in between. **<u>Note:</u>** This is best done when the attachment is on the lathe with the index lock pin engaged.	 
3.	Reassemble the grinding wheel and try running it again to check if the problem is still existing. If your problem is still existing, then proceed on to the next solution.	

Solution for the second case where the stone is not running true

Step No.	Description	Image
1.	Use a pencil to mark and identify how the grinding stone is positioned. Hold the pencil in a position such that it can make a mark and rotate the grinding stone. Alternatively, you can use a piece of wood to check if the wheel is offsetted radially. If the wheel is offsetted radially then the piece of wood will not be in contact with the grinding wheel for certain parts of the rotation. **Note:** If the grinding stone is **offsetted radially**, the **marks will be inconsistent** as shown in the left-hand image. If the grinding wheel is **offsetted axially**, the **mark will not be straight**.	 
2.	If your stone is offsetted radially, then the wheel stone has to be dressed using a dressing tool. If in the case where your stone is offsetted axially, then contact our service to get your replacement (Make sure that you have fully tightened the nut first).	 
3.	Use the dressing tool to grind off parts of the grinding stone. By removing excess parts of the stone, it brings the centre of mass back near the axis of rotation.  *Figure 1: Diamond Type Dressing Tool*  *Figure 2: Wheel Type Dressing Tool* When the centre of mass is set back near the axis of rotation, it should significantly reduce the amount of vibration caused by the stone. Due to the size of the tool rest used on the Versaturn grinding wheel, **only diamond type dressing tools** are able to be used. **Warning:** **Follow the direction of use on the dressing tool, otherwise it may lead to serious injuries.**	