

Teknatool International Limited

7D Dallan Place, Rosedale, Auckland, New Zealand
Tel: +64 09 477 5600 Fax: +64 477 5601

Email: service@teknatool.com
Website: www.teknatool.com



Frequently Asked Questions

How to align the headstock and tailstock centres

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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 align the headstock and tailstock centres of the lathes:

Simplest way to align the centres of the headstock and tailstock of the NOVA lathes is to use the NOVA Acruline Lathe Alignment System.









Figure 1: NOVA Acruline Lathe Alignment System

To use the NOVA Acruline Lathe Alignment System:

Step No.	Description	Image
1.	Lock the Acruline into the tailstock firmly	
2.	With the head stock completely loosened, move the tailstock so that the free end of Acruline is just inside the headstock spindle. Lock the tailstock.	
3.	Extend the tailstock quill and insert the Acruline into the headstock spindle until it sits firmly into the headstock spindle. Lock the headstock and retract the tailstock quill and the move the tailstock back. The headstock and tailstock will be aligned. Note: Ensure firm connection by lightly tapping with a hammer	

Alternatively, centring can be achieved by trial and error method as follows:

Step No.	Description	Image	
1.	<p>Crank the quill of the tailstock back in all the way.</p> <p>Attach a #2MT accessory onto the tailstock that has a sharp point at the end. Eg. Spur centre</p> <p>Attach a similar accessory to the headstock spindle as well.</p>	 <p data-bbox="927 501 1038 528">Tailstock</p>	 <p data-bbox="1257 501 1385 528">Headstock</p>
2.	<p>Move the tailstock tip close to the headstock tip so that the two tips are almost in contact.</p>		
3.	<p>Move the tailstock away from the headstock and extend the quill.</p> <p>The tips should align with each other when the quill is:</p> <ol style="list-style-type: none"> 1. Fully retracted 2. Halfway extended 3. Fully extended <p>Note: If the tips are aligned at all these 3 positions the lathe is properly centred.</p> <p>If the tips do not align on these 3 positions, return to step 2 to attempt aligning again.</p>		<p data-bbox="1219 855 1455 882">Quill fully retracted</p>
			<p data-bbox="1219 1043 1455 1070">Quill half retracted</p>
			<p data-bbox="1273 1245 1401 1303">Quill fully extended</p>

*This is done on the DVR 1624 II wood lathe but other NOVA lathes with movable headstocks can be centred by the same method