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Frequently Asked Questions

Compatibility of NOVA Chucks/ Adapters on Powermatic 90 lathes

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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

The screw threads on the NOVA chucks (i.e. 48202 G3 and 23055 Supernova2) and Powermatic 90 spindles use a different standard which makes these two products **incompatible** with each other.

| NOVA Chuck Threads | Powermatic 90 Spindle Threads |
|--|--|
| 1-1/2" x 8 UNC (UNIFIED COARSE) <ul style="list-style-type: none"> 60 Degree Pitch Flat top | 1-1/2" x 8 BSP (BRITISH STANDARD PIPE) <ul style="list-style-type: none"> 55 Degree Pitch Round Top |
| <p>Figure 1: Unified Screw Threads</p> | <p>Figure 2: British Standard Screw Threads</p> |

There are currently no adapters to make this conversion. Using two adapters to (step down, step up) may cause problems of runout and wobble.

Note:

Use of mismatching threads should be prohibited due to the risk of damage to the equipment and insecure connections. Insecure connections between components may lead to severe injuries.

References:

Figure1: <http://www.amesweb.info/Screws/AsmeUnifiedInchScrewThread.aspx>

Figure2: <https://mdmetric.com/tech/thddat8.htm>