

## **SAFETY**

**DANGER: THIS CHUCK IS CAPABLE OF CONTRIBUTING TO SERIOUS INJURY, AS WITH ANY OTHER POWER TOOL ACCESSORY, IF USED IMPROPERLY ON THE LATHE.**

**Before using the Nova Chuck, read and understand this instruction manual. Read and understand also the Lathe owner's manual. If you do not have a manual, contact the supplier of your lathe to obtain one before using the lathe and chuck.**

User must be professionally trained to use this chuck. Vocational school courses are recommended.

As with other chucking methods, an extremely cautious and sensible approach is necessary. With the Nova Chuck it is not possible to give exact directions as to the amount of tightening pressure required for workholding. Follow closely strict guidelines in this manual for different jaw types on wood blank diameters and length, plus turning speed.

### **BEFORE USING NOVA CHUCK MAKE SURE THAT -**

- ALWAYS WEAR EYE PROTECTION WHICH COMPLIES WITH CURRENT ANSI STANDARD Z87.1 (USA). WE RECOMMEND THAT A FULL FACE SHIELD IS USED AT ALL TIMES.
- Chuck is properly secured on lathe spindle, Follow mounting instructions for your lathe for faceplates and other spindle fixtures.
- For safety, DO NOT ROTATE CHUCK UNDER POWER WITHOUT WOOD BEING GRIPPED.
- **WARNING:** EXCESSIVE SPEED IS A SERIOUS LATHE HAZARD. ALWAYS TURN AT THE SLOWEST SPEED POSSIBLE.

Speed will vary with wood blank size. The larger the blank the slower the speed. Consult your lathe manual or lathe information plate for speed guidelines.

DO NOT ATTEMPT TO USE THE CHUCK UNLESS THE LATHE SPEEDS ARE KNOWN.

YOU MUST STRICTLY FOLLOW THE MAXIMUM SPEED LIMITS SET OUT IN THE OPERATING SECTION OF THIS MANUAL. DO NOT EXCEED THEM UNDER ANY CIRCUMSTANCES.

- EXAMINE WOOD CAREFULLY. ONLY MOUNT WOOD THAT IS SOUND. If any cracks, splits, or weakness is found in wood - DO NOT MOUNT IN CHUCK. DO NOT MOUNT ANY WOOD THAT IS LIKELY TO BREAK UP DURING TURNING (E.G. ROTTEN OR SPONGY WOOD). DO NOT USE POORLY JOINTED LAMINATED WOOD.
- Use levers to clamp wood firmly. Follow mounting instructions for different gripping modes and jaw types. In the expansion mode do not use undue force or jaws may split the wood.
- Do not exceed maximum guidelines in this manual for wood blank diameters/length set out in this manual for the different modes and jaw types.
- Check wood is securely held in chuck, before operation. Check grip by vigorously wrenching wood blank back and forth. If any loosening occurs, re-examine holding area for adequate grip (following mounting guidelines) and any damage to holding area. Rotate manually to make sure of clearance before switching power on.

WARNING FOR SAFE OPERATION, DO NOT EXTEND JAW SLIDES BEYOND CHUCK BODY UNDER ANY CIRCUMSTANCES. ONLY OPERATE CHUCK WITH JAW SLIDE STOP SCREW IN PLACE. This prevents jaw slides from dislodging from chuck.

Irregular or out of balance stock needs to be turned at the slowest possible speed until it is in balance.

For use on outboard/ lefthand rotation - MAKE SURE INSERT IS SECURELY LOCKED WITH GRUBSCREW BEFORE USE.



## SAFETY continued

- Use only hand held woodturning chisels to shape wood being held in chuck. USE THE RIGHT CHISEL FOR THE JOB AND DO NOT FORCE TOOLS. Use safe and commonly approved chisel techniques.
- Wherever possible stand to one side of revolving wood.
- WEAR PROPER CLOTHING. Do not wear any loose clothing, neck ties, gloves, bracelets, rings or other jewellery that could get caught in moving parts. Wear protective hair covering to contain long hair.
- DRUGS, ALCOHOL, MEDICATION. Do not operate chuck or lathe while under the influence of drugs, alcohol or any medication.
- KEEP CHILDREN AND VISITORS AWAY. All children and visitors should be kept a safe distance from the work area.
- MAKE WORKSHOP CHILDPROOF - with padlocks, master switches, or by removing starter keys.

## CHUCK OPERATION

**Adjustments:** one lever (for the scroll action) and one handle (for the chuck body) are provided for adjustment of chuck action. Please refer to diagram (page 5) for location of lever and handle positions. If there is a spindle lock provided on your lathe (as with the Teknatool TL1000/8s) the scroll which operates the jaw movement can be rotated with only the scroll lever in place, the lever in the body position being unnecessary. **Caution:** release spindle lock after adjustment!!!

Where a spindle lock is not provided both the scroll lever and the body handle must be used. One is located in the chuck body and one in the scroll ring (see diagram, page 5). Hold the chuck firmly in place and rotate the lever in the scroll ring to activate jaw DIAGRAM B movement.

**Lever and handle movement:** (Chuck facing you or standing on the left hand side of the lathe in normal position).

### TO CONTRACT JAWS:

Refer to diagram A. Put handle in body hole positioned towards the top and with handle facing you. Put the scroll lever in position at the top and slightly away from you. Hold the body handle stationary and move the scroll lever in a clock-wise direction away from you. This will close the jaws. Take out the scroll lever, reposition in next hole and repeat action until required movement is achieved. To obtain a little faster action the body handle can at the same time (as moving the scroll ring) be pushed down rotating the body in an anti-clockwise direction towards you.

When the action takes up against the piece held give an extra nip up so jaws securely engage with wood.

### TO EXPAND JAWS:

Refer to diagram B. Put handle in body hole positioned underneath chuck with handle faced towards you for ease of grip. Put the scroll lever in position at the top and slightly towards you. Hold the body handle stationary and move the scroll lever towards you. This will expand the jaws. To obtain a little faster action the body handle can at the same time (as moving the scroll ring) be pulled up towards you rotating the body in a clockwise direction.

When the action takes up against the piece held give an extra nip up so jaws securely engage with wood.

Using the scroll lever only with the chuck mounted on the spindle and the lever inserted in the scroll ring position. Starting from the top position when you pull lever towards you that will expand jaws. When pushed away it will contract jaws.

