



NOVA CHUCK ACCESSORY

DUCK CALL JAW MANUAL



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NOVA DUCK CALL JAWS

These unique jaws are designed especially to hold blanks for drilling. But there's a lot more to them than that – their solid, heavy duty design means not only will they hold blanks securely, but they are also powerful enough to handle larger and longer spigot work. This is truly a versatile jaw that will quickly become one of your favorites.

Thank you for purchasing this accessory jaw set for your NOVA Chuck. You will find that the wide range of Accessory jaw sets for the NOVA chucks will really enhance the versatility of your Chuck. The jaws all have complementary applications and provide the opportunity to extend your woodturning interests.

All sizes listed are in metric with the nearest approximate inch (") equivalent.

CONTENTS OF YOUR DUCK CALL JAW PACK

- Duck Call Jaw Segment (x 2)
- Instruction Manual

EXPLANATION OF CHUCKING TECHNIQUES USED IN THIS MANUAL

SPIGOT (TENON) OPERATION

The new NOVA Duck Call Jaws easily convert your NOVA chuck into a fast and accurate larger spindle blank drilling facility. The big jaw profile provides a vibration free, solid grip for a variety of sizes and long shapes. Being able to finely control the drill feed on the lathe is a big advantage to prevent break out on delicate game call walls.

But these unique Nova Jaws can do so much more than just game calls. These heavy duty jaws secured by two screws for each jaw segment have an internal profile to handle larger rounds with ease and minimal vibration.

This situation is one of the most difficult to provide secure holding no matter what fixing method is used. **EXTREME CAUTION WITH THIS OPERATION MUST BE EXERCISED.** If used properly however, NOVA Chucks provide a very secure grip in this mode.

Check for adequate contact and grip of all four jaws into the wood when using this operation. **MAKE SURE YOU HAVE AN ADEQUATE GRIP BEFORE OPERATION** by vigorously wrenching the work piece mounted in the chuck. If any loosening occurs **DO NOT PROCEED** with operation. Repeat tightening procedure and retest grip. Refer to your NOVA chuck manual for information on forming a spigot.

FREE END TURNING

Turning where the work is not supported by the tailstock.

SAFETY RULES

PLEASE READ AND UNDERSTAND THESE SAFETY RULES BEFORE OPERATING ANY OF THE NOVA ACCESSORY JAWS.

WARNING – THE NOVA ACCESSORY JAWS ARE DESIGNED FOR USE ON TEKNATOOL NOVA CHUCKS ONLY. THEY ARE NOT DESIGNED TO FIT AND CANNOT BE USED WITH ANY OTHER CHUCK. TO DO SO COULD CAUSE A MALFUNCTION AND RISK OF SERIOUS INJURY. IF YOU ARE UNSURE OF THE USE OR APPLICATION OF ANY OF THESE ACCESSORY JAWS BEFORE USING CONTACT YOUR RESELLER OR TEKNATOOL DIRECTLY.

IMPORTANT – READ VERY CAREFULLY THE SAFETY SECTION IN THE TEKNATOOL NOVA CHUCK MANUAL BEFORE OPERATION AND FOLLOW CLOSELY THE SAFETY RULES OUTLINED IN THIS JAW MANUAL.

CONSULT RELEVANT OPERATIONAL SECTIONS OF THE TEKNATOOL CHUCK MANUAL BEFORE USING JAWS.

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 Teknatool NOVA Chuck and accessory jaws, read and understand the instruction manuals. Read and understand also the lathe 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 and accessory jaws. Vocational school courses are recommended. As with any other chucking method, an extremely cautious and sensible approach is necessary. With the Teknatool NOVA chuck it is not possible to give exact directions as to the amount of tightening pressure required for work holding. Follow closely strict guidelines in this manual for different jaw types for wood blank diameters length, and turning speed.

ALWAYS WEAR EYE PROTECTION WHICH COMPLIES WITH CURRENT ANSI STANDARD Z87.1 (USA). A FULL FACE SHIELD IS USED AT ALL TIMES.

WARNING!!! EXCESSIVE SPEED IS A SERIOUS LATHE HAZARD. ALWAYS TURN AT THE LOWEST SPEED POSSIBLE. Speed required will vary with wood blank size. The larger the blank the slower the speed. Consult your lathe manual. **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 OPERATIONAL SECTIONS OF THIS MANUAL. DO NOT EXCEED THEM UNDER ANY CIRCUMSTANCES.**

- **EXAMINE WOOD CAREFULLY. ONLY MOUNT SOUND WOOD.** If any cracks or weakness is found in the wood - **DO NOT MOUNT IN CHUCK OR IN ACCESSORY JAWS. DO NOT MOUNT WOOD THAT IS LIKELY TO BREAK UP DURING TURNING (EG ROTTEN OR SPONGY WOOD). DO NOT USE POORLY LAMINATED WOOD.**
- **DO NOT EXCEED MAXIMUM GUIDELINES IN THIS MANUAL FOR WOOD BLANK DIAMETER/LENGTH FOR THE DIFFERENT MODES OF OPERATION AND JAW TYPES.**
- **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. **NOTE: SuperNova2 Chuck has automatic internal stop.**
- **WARNING – MAKE SURE THAT IN EXPANSION MODE THAT THE AMOUNT OF TRAVEL REQUIRED IS LESS THAN THE LIMIT OF THE STOP SCREW, OR AUTOSTOP. DO NOT TRY TO FORCE CHUCK OPEN FURTHER.**
- **ALWAYS TEST WORKPIECE IS GRIPPED SECURELY IN THE JAWS. BEFORE OPERATION TEST BY WRENCHING WORKPIECE IN JAWS. IF ANY LOOSENING OCCURS, RE-EXAMINE HOLDING AREA FOR ADEQUATE GRIP (following mounting guidelines) AND ANY DAMAGE TO GRIPPING AREA.**
- **MAKE SURE WORKPIECE IS CLEAR OF OBSTRUCTION BY MANUALLY ROTATING WORKPIECE BEFORE SWITCHING POWER ON. NEVER ATTEMPT TO GRAB AT A MOVING CHUCK ON A LATHE. TO DO SO COULD CAUSE SERIOUS INJURY.**

MOUNTING THE ACCESSORY JAWS

THE ACCESSORY JAWS NEED TO BE LOCATED AND SCREWED ON THE JAW SLIDES OF YOUR NOVA CHUCK.

IT IS IMPORTANT TO LOCATE JAWS PROPERLY INTO THE JAW SLIDES FOR THE CHUCK TO FUNCTION ACCURATELY.

Follow the method set out below

1. You will note that the back of the jaws have a stepped location ring. This location ring is designed to fit into the grooved section of the jaw slide for precision location. Ensure that the slide and collet back are clean and free from any burrs or damage that might affect location. Place the jaw segment over the hole positions on the jaw. Press the jaw segment firmly onto the jaw slide. For the first few times you may need to GENTLY tap the jaws into the locater slot with a block of wood.
2. The Duck Call Jaws have only two jaws provided. Two opposing jaws are all that is required for holding round blanks and the other operations outlined in this manual. They must be mounted opposite each other i.e. If the first jaw is mounted on No. 1 jaw slide then the other jaw needs to be mounted on slide no. 3, similarly if No. 2 slide is used, other jaw needs to be mounted on No.4 slide, using No. 3 jaw slide, then other jaw mounted on No. 1, if No. 4 slide is used, then No. 2 slide needs to be used for the other jaw.
3. The standard jaw screws (4) can now be screwed in (two for each jaw segment) using the 4mm Allen key provided in the chuck kit. Lightly grease or oil screws under heads before use to prevent screws locking onto jaw. Preferably use an anti-locking compound such as ROCOL J166 Anti-seize compound. Do all screws up finger tight and then loosen off one quarter of turn.
4. Wind the mounted jaws into the centre of the chuck until they all butt against the other. Now finally tighten screws, starting with the centre screws and then outside screws. Nip screw up firmly but do not OVERTIGHTEN.
5. Check there is no light between jaw slides and add on jaw segments or that one or more segments is not higher or lower than the others. If this is the case repeat the procedure above.

OPERATIONAL MODES

This NOVA Duck Call Jaw Set is optimized around holding round blanks of approx. 42.5mm (1.67"). It is better to hold larger round blanks (42.5mm (1.67") to 55mm (2.165"). Other handy spigot operations as outlined below can also be used.

a. Round Spigots (Contracting Action)

Round spigots (tenons) can be gripped down to 25mm (0.984") diameter. Maximum Round Spigot diameter: around 55mm (2.165"). There are only two holding jaws, a round spigot of slightly larger diameter (55mm (2.165")) might be held but extra caution necessary. Use maximum of 52mm (2.047") depth of spigot (tenon) in jaws.

Overall length of work to be gripped no more than 250mm (9.842").

DO NOT EXCEED 1440RPM FOR THIS OPERATION.

b. Round Spigots (Expanding Action)

The jaws can expand into round, pre-bored or turned hollow spaces, e.g. some pepper mill projects, hollow vases or boxes etc. Min. expanding grip 49mm (1.929"), max. expanding grip 74mm (2.913"). Overall length of work to be gripped no more than 250mm (9.842"). Use maximum depth of 44mm (1.732") tenon in jaws

DO NOT EXCEED 1440RPM FOR THIS OPERATION.

The NOVA Accessory Duck Call Jaw Set is not designed for mounting to the Cole/Mini Cole Jaws Sets. DO NOT USE WITH COLE OR MINI COLE JAW SETS.

MAINTENANCE AND CARE OF YOUR JAWS

- Always follow instructions on installation and use.
- Use correct fixing screws and replace at regular intervals.
- Use a small amount of grease under the head or a copper based anti-seize product to aid removal of fixing screws.
- Clean jaws after use and spray with a protectant product like WD40.
- Additionally, for longer term storage, wrap in an oil soaked cloth.

WARRANTY

For your convenience, register your warranty online, simply go to www.teknatool.com

SIX YEAR FULL REPLACEMENT WARRANTY

This NOVA Product is backed by a warranty period of Six Years from the date of purchase. Teknatool International hereby agrees to make repairs or replace components without charge for any defects due to faulty material or workmanship, provided that

1. The warranty period has not elapsed. Proof of purchase date (sales slip etc) would need to be forwarded to Teknatool International Ltd.
2. If in our opinion the unit has not been altered, repaired or modified in any way that would affect its operation; has not been subjected to misuse, negligence, accident or not used strictly in accordance with instructions.
3. Where necessary transportation is prepaid by customer to Factory Service Centre, or other authorized Teknatool Service Centre.

Warranty does not cover any costs or damages arising directly or indirectly from the operation of this Teknatool Product. No other guarantee, written or verbal is authorized by Teknatool International Ltd.

INTERNATIONAL CUSTOMERS: Our Teknatool agents may issue their own Warranty in addition to our warranty policy, to cover this product. Their terms may vary from those stated above - please check with your dealer.

Our policy is one of continuous improvement. We therefore reserve the right to change specification/design without notice.