

# NOVA

## 12" COLE JAWSET COLE JAW EXTENSION ACCESSORY



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**THIS MANUAL CONTAINS IMPORTANT INFORMATION REGARDING SAFETY, OPERATION, MAINTENANCE AND STORAGE OF THIS PRODUCT. BEFORE USE, READ CAREFULLY AND UNDERSTAND ALL CAUTIONS, WARNINGS, INSTRUCTIONS AND PRODUCT LABELS. FAILURE TO DO SO COULD RESULT IN SERIOUS PERSONAL INJURY AND/OR PROPERTY DAMAGE. THIS ACCESSORY CAN ONLY BE USED ON NOVA CHUCKS.**

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# GENERAL SAFETY RULES

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



**WARNING!** The NOVA ACCESSORY JAWS ARE DESIGNED FOR USE ON TEKNATOOL 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 CHUCK MANUAL BEFORE OPERATION AND FOLLOW CLOSELY THE SAFETY RULES OUTLINES IN THIS JAW MANUAL.

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

SOME SAFETY DIRECTIONS ARE PERTINENT ONLY TO A CERTAIN JAW SET. ANY ADDITIONAL SAFETY INFORMATION IS LOCATED IN THE TEXT OF THE RELEVANT ACCESSORY JAW IN THE PAGES FOLLOWING.



**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 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 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 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). WE STRONGLY RECOMMEND THAT A FULL FACE SHIELD IS USED AT ALL TIMES.**

**BEFORE USING THE TEKNATOOL CHUCK ACCESSORY JAWS BE SURE THAT:**

- **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 (E.G. 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.**

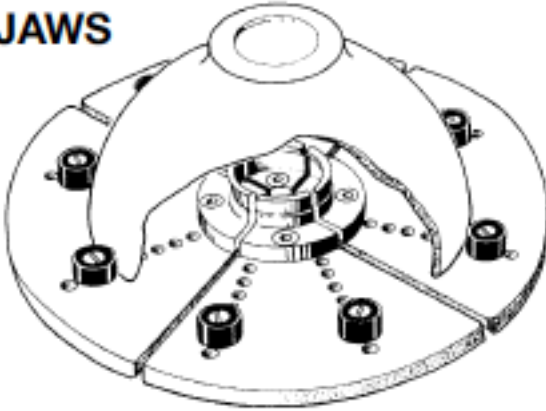
# 12" COLE, COLE and MINI COLE JAWS:

Codes: 6040, JSCOLE & 6006

## SAFETY

Consult the safety section of this jaw manual and also read the safety section of your Chuck manual and be thoroughly familiar with the safety operation before using these jaws.

## JAWS



## PARTS PROVIDED:

- 4 Die cast Cole Jaw Segments
- 8 M6x20 Countersunk Screws
- 8 M6x16 Cheese Head (Slotted) Screws
- 8 Cole Jaw Rubbers

## IMPORTANT INFORMATION!!!

### METHOD OF FITTING FOR FIRST TIME USE

**NOTE:** EXTREME CARE SHOULD BE TAKEN. The locator ring on the back of the Cole Jaws provides the accuracy of location. Care must be taken that this locator ring is not damaged when the jaws are placed in the jaw slides.

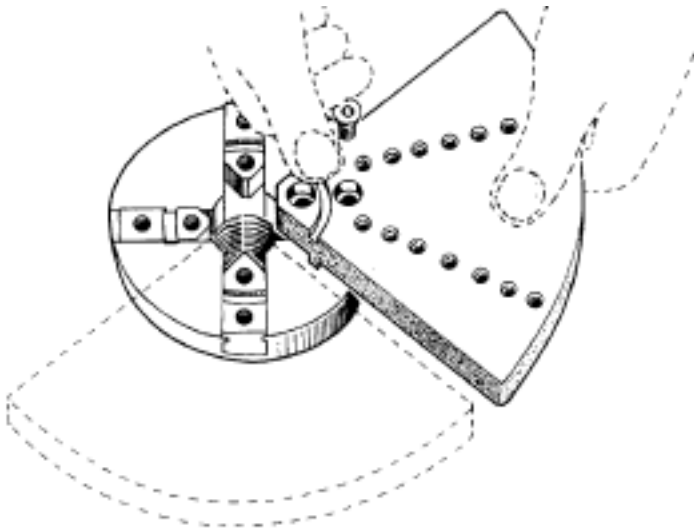
1. With the chuck body flat on a bench, carefully place each Cole Jaw segment in line with the holes.
2. Start screws so they have just begun to engage in threaded holes of the jaw slides. Remember to first lightly oil or grease screws under heads before use to prevent screws from locking onto jaw.
3. Gently rock the Cole Jaw segment from side to side until the locator ring on the jaw segment is eased properly in the groove of the jaw slide. Look under

jaw segment to make sure the ring is properly seated in jaw slide groove. Check for a gap between jaw slide and Cole Jaw segment – there should be no light showing. IT SHOULD NOT BE RIDING UP ON THE EDGE OF THE GROOVE!

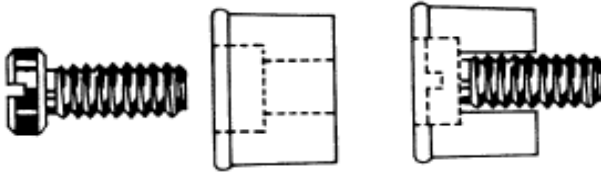
4. Screws should first be wound down until heads just touch the jaws.
5. Starting with the inside screw, wind it  $\frac{1}{4}$  to  $\frac{1}{2}$  a turn. Similarly wind outside screws until screws are fully home. DO NOT OVERTIGHTEN.
6. Repeat procedure on all four segments.

**Note:** The four Cole Jaw die cast segments provided are all identical, so they can be mounted in any sequence. Hence they are not numbered. It may be convenient to number them 1-4 in clockwise sequence when mounted on the chuck so that they can be put back in the same sequence each time. The standard mounting screws that come with the Teknatool chucks can be used for this purpose. Extra screws can be obtained by purchasing the “Nova Fastening Spares Kit”.

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 as above.



## SPECIAL INSTRUCTIONS FOR COLE JAW RUBBERS



### WARNING!!!

- DO NOT EXCEED 600 RPM WITH COLE JAWS OR 800 RPM WITH MINI COLE JAWS IN ANY OPERATIONAL MODE.
- OUT OF BALANCE STOCK MUST BE TURNED AT THE SLOWEST SPEED POSSIBLE BELOW 600 RPM.
- DO NOT ATTEMPT TO USE THESE JAWS IF YOUR LATHE DOES NOT HAVE A USABLE SPEED OF 600 RPM OR BELOW.
- MAKE SURE THAT JAW SLIDES DO NOT PROJECT BEYOND CHUCK BODY WHEN JAWS ARE EXPANDED.
- DO NOT STAND DIRECTLY OPPOSITE REVOLVING BOWL. STAND ON ONE SIDE INSTEAD.
- USE SPECIAL OPTIONAL WOODWORM SCREW DESIGNED FOR COLE JAWS. THE NORMAL WOODWORM SCREW CAN NOT BE USED WITH THE COLE JAWS.
- THE 25MM AND PIN JAW SET CAN NOT BE MOUNTED ON THE MINI COLE OR COLE JAWS.

### OPERATIONAL MODES

#### A. Contracting and Dovetail Modes

Both the contracting and dovetail modes are available when the other accessory jaw sets (e.g. 50mm, 75mm, 100mm) are mounted onto the Cole Jaws and used in the normal way. The longer M6x20mm screws (not provided with the Cole Jaws) must be used to secure the optional jaws to the Cole Jaws. Follow the usual operational directions and safety requirements for the particular jaw set used (e.g. 50mm, 75mm, 100mm). THESE INSTRUCTIONS AND SAFETY REQUIREMENTS CAN BE FOUND IN THE ASSOCIATED JAW INSTRUCTION BOOKLET.

#### B. Re-Chucking Using The Cole Jaw Facility

The Cole Jaw segments can be mounted on the chuck by themselves without the use of any other jaw sets. Normal M6x10mm Countersunk screws provided with your Teknatool chuck to mount the other accessory jaw sets can be used.



## **WARNING!!!**

DO NOT ATTEMPT TO USE THIS FACILITY TO GRIP BOWL BLANKS WHICH HAVE NOT BEEN FULLY TURNED INSIDE AND OUTSIDE. THE RE-CHUCKING FACILITY CANNOT BE USED AS A GRIPPING METHOD TO DO MAJOR RE-SHAPING WORK OVER THE WHOLE OUTER SURFACE OF THE BOWL. ALWAYS USE A CAUTIOUS AND CONSERVATIVE APPROACH. USE CORRECT CHISEL TECHNIQUES TO AVOID CHISEL DIG-INS WHICH COULD DISLodge THE BOWL. DO NOT USE HEAVY CUTS WHICH COULD ALSO DISLodge BOWLS.

If you want to mount another accessory jaw set (e.g. 50mm, 75mm,100mm) onto the Cole Jaws use the four longer M6x20mm screws provided. Note the 25mm jaws and pin jaws are not designed for use with Cole Jaws.

Only when both the inside and outside of the bowl have been turned (these operation can all be performed with the Cole Jaws in conjunction with another optional accessory jaw set) can the bowl be re-chucked to rework the bottom (outside) surface. Bowls up to 240mm (9.45") in diameter for Cole Jaws, and bowls up to 171mm (6 ¾") in diameter for Mini Cole Jaws, can be re-chucked gripping the rim in the contracting mode. If re-chucking is required to achieve a smooth under surface of the bowl, it is best to have previously held the bowl by foot mounting (contracting mode) as it is much easier turn off a foot rather than a recessed dovetail, for example. Foot mounting method is best achieved with the Step Jaw or 100mm (Cole Jaws only) Jaw Set.

### **C. Mounting Bowls**

There are several radial positions available. The assembled rubber stoppers need to be fastened so that they are screwed in flush against the jaw surface. They need to be equally spaced at the same radial position on each segment to achieve an even gripping of the bowl. The rubber stoppers will grip around the rim of the bowl and contract downward. Refer to the directions in your chuck manual for the contracting mode. Make sure the whole rim of the bowl is seated flush against the jaw surface so that it is being well supported and evenly gripped.

**WARNING!!!**

THE RUBBER STOPPERS ARE A CONVENIENT HOLDING METHOD BUT MUST ONLY BE USED TO RE-CHUCK SMALL, LIGHTWEIGHT BOWLS UP TO 250MM (10") DIAMETER FOR COLE JAWS AND 200MM (8") FOR MINI COLE JAWS. NO RESPONSIBILITY CAN BE ACCEPTED FOR USERS OWN ADAPTIONS OF THIS CUSTOM FACILITY, i.e., CUSTOM WOODEN JAW SEGMENTS (MOUNTED ON COLE JAWS). IT IS THE USERS RESPONSIBILITY TO TAKE ALL CARE TO ENSURE THAT A SAFE MOUNTING OF BOWLS IS ACHIEVED.

If larger or heavy bowls need to be re-chucked, then you must make your own wooden jaw segments. These should be fastened onto each jaw segment using two screw positions. To ensure adequate gripping is achieved, give careful consideration to the type of holding situation that is required before false wooden jaws are made.

# ADDING THE OPTIONAL ACCESSORY EXTENSION PIECE FOR 12" COLE JAW:

## SKU 6039

New Extension Accessory for the new Cole Jaw Set (SKU6040) takes your 12" Cole Jaw up to 15".

NOTE: This accessory cannot be used on the existing Mini Cole Jaw (6006) or the Standard Cole Jaw Set (JSCOLE)

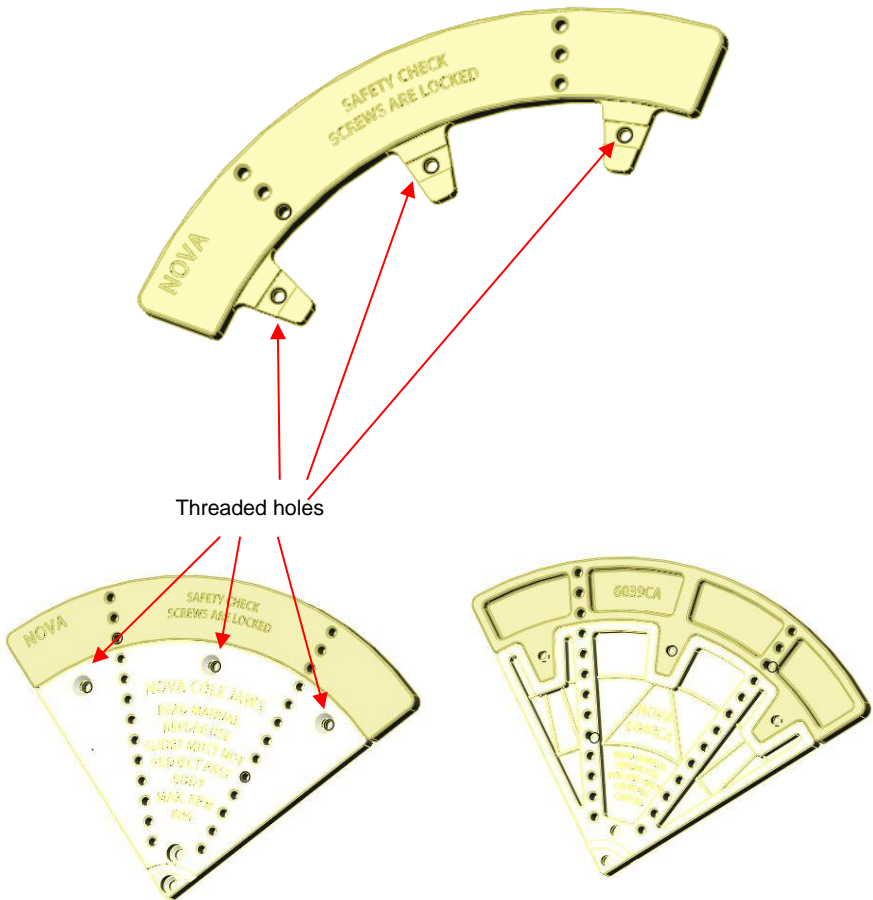


Figure 1 – Extension Accessory and Cole Jaw assembly

## Assembly:

1. Align the Extension Accessory with the Cole Jaw, placing tabs on the Extension in the grooves on the back side of the Cole Jaw as shown in Fig. 1. Take care to ensure that all the threaded holes on the extension (indicated by arrows in Fig. 1) are properly aligned behind the through holes in front.
2. Begin threading all of the included screws in their respective holes. To help prevent cross-threading, do not tighten any of the screws all the way down until all screws have been started into the holes.
3. Fully tighten the screws, and ensure the Extension Accessory is securely fastened to the Cole Jaw.
4. Repeat for remaining Extension Accessory pieces.

# WARRANTY:

## ***Teknatool SixYear Limited Warranty***

This Teknatool product is backed by a warranty from the date of purchase. Teknatool International Ltd will repair or replace, at its expense and option, this Teknatool product which in normal use has proven to be defective in workmanship or material, provided that the customer returns the product prepaid to an authorized Teknatool service center with proof of purchase of the product within SIXYEARS and provides Teknatool with reasonable opportunity to verify the alleged defect by inspection. Teknatool will pay return product by most cost effective surface transport to customer. Any special freight services above this will be at customer's expense. Teknatool will not be responsible for any asserted defect, which has resulted from normal wear, misuse, abuse, power surges or excess voltage fluctuation, repair or alteration made by anyone other than an authorized service facility or representative, nor will be liable for any general wear and tear. Under no circumstances will Teknatool International Ltd. be liable for incidental, special, indirect, and consequential damages or expenses, including loss of profits or loss of operations. This warranty is Teknatool International Ltd. sole warranty. There are no other warranties, whether written or verbal, whether expressed or implied by law, trade, custom, or otherwise, whether of merchantability, fitness for purpose, or otherwise, except for remedies available to customers under the Consumer Guarantees Act or other legislation.

**OVERSEAS CUSTOMERS:** Our Teknatool Distributors and agents will issue their own warranty to cover this product. Terms may vary from those stated above; please check with your dealer. In North America warranty covers Continental USA only. For Alaska, Hawaii and other areas, warranty covers replacement of parts only and excludes transport costs.

### **Exclusions**

This warranty does not cover parts damaged due to normal wear, abnormal conditions, misapplication, misuse, abuse, accidents, operation at other than recommended pressures or temperatures, improper storage or freight damage. Parts damaged or worn by operation in dusty environments are not warranted. Failure to follow recommended operating and maintenance procedures also voids warranty.

This limited warranty does not apply to accessory items such as drill bits, screw driving bits, circular saw blades, jigsaw blades, grinding wheels, sanding sheets and other related items.

*Register your warranty with Teknatool faster online.  
Visit our website on [www.teknatool.com](http://www.teknatool.com) to register your warranty today!*

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