

MINI COLE JAWS FOR NOVA & SUPERNOVA CHUCKS



SAFETY

Consult the safety section on Page 10 of the accessory jaw manual and also read the safety section of your Chuck manual and be thoroughly familiar with the safety operation before using these jaws. In addition, please carefully follow the specific safety information regarding the operational use of the Mini Cole Jaws outlined in the Operational section.

PARTS PROVIDED

4 x Diecast Mini Cole Jaw Segments
8 x M6x16 Cheese Head (Slotted) Screws
8 x Mini Cole Jaw Rubbers
8 x M6x20 Countersunk Screws (to mount another accessory jaw set (e.g. 50mm) onto the Mini Cole Jaws)

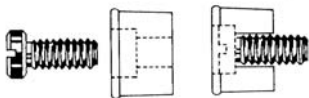
NOTE Use the M6x10 Countersunk screws provided with your Nova/SuperNova chuck to mount just the Mini Cole Jaws only. Spares can be purchased from the Teknatool Website: www.teknatool.com

IMPORTANT INFORMATION! METHOD OF FITTING FOR FIRST TIME OF USE

Extreme care should be taken. The locator ring on the back of the Mini 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. With the chuck body flat on a bench, carefully place each Mini Cole Jaw segment in line with the holes. Now put screws in only a little way so that they are loose but engaged with the threaded holes of the jaw slides. Remember to first lightly oil or grease screws under heads before use to prevent screws locking onto jaw. Then gently rock the Mini 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. See illustration below. Look under jaw segment to make sure the ring is properly seated in jaw slide groove. Check for the gap between jaw slide and Mini Cole Jaw segment – there should be no light showing.

IT SHOULD NOT BE RIDING UP ON THE EDGE OF THE GROOVE!

Now the screw can be fully wound in. Use this method both screws should first be wound down until heads just touch the jaws. Then 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.** Repeat procedure on all four segments.



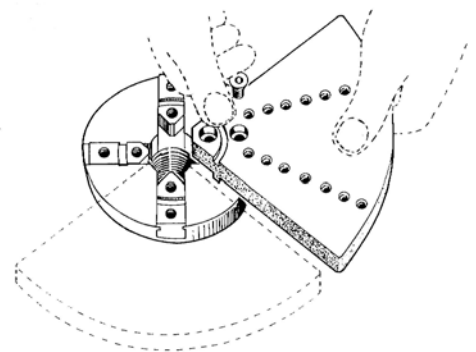
SPECIAL INSTRUCTIONS FOR MINI COLE JAW RUBBERS

Please push slotted screws into rubbers as per illustration at left

MOUNTING JAWS

See “Mounting the Accessory Jaws” on page 12 of the accessory jaw manual.

Note: The four Mini Cole Jaw diecast segments provided are all identical and so they can be mounted in any sequence. Hence they are not numbered. You may find inconvenient to number them 1 – 4 in clockwise sequence when you have them mounted on the Nova Chuck/SuperNova Chuck so they can be put back in the same sequence each time. The standard mounting screws that come with the Nova Chuck/SuperNova Chuck can be used for the purpose. If you wish, 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.



WARNING – BEFORE OPERATING YOUR MINI COLE JAW SET

- DO NOT EXCEED 800 RPM WITH THE JAWS IN ANY OPERATIONAL MODE.
- OUT OF BALANCE STOCK MUST BE TURNED AT THE SLOWEST SPEED POSSIBLE BELOW 800RPM.
- DO NOT ATTEMPT TO USE THESE JAWS IF YOUR LATHE DOES NOT HAVE A USABLE SPEED OF 800 RPM OR BELOW.
- MAKE SURE THAT JAW SLIDES DO NOT PROJECT BEYOND CHUCK BODY WHEN JAWS ARE EXPANDED.
- DO NOT STAND IN A POSITION THAT MIGHT PUT YOU IN THE PATH OF A DISLODGED ROTATING BOWL.

- USE SPECIAL OPTIONAL WOODWORM SCREW DESIGNED FOR COLE JAWS. THE NORMAL WOODWORM SCREW CAN NOT BE USE WITH THE COLE JAWS.

OPERATIONAL MODES

a. Contracting and Dovetail Modes

Both the contracting and dovetail modes are available when the other accessory jaw sets (ie 50mm and 75mm) are mounted onto the Mini Cole Jaws and used in the normal way. The longer M6x20 screws provided with the Mini Cole Jaws must be used to secure the optional jaws to the Mini Cole Jaws. Follow the usual operational directions and safety requirements for the particular jaw set used (e.g. 50mm and 75mm).

THESE INSTRUCTIONS AND SAFETY REQUIREMENTS CAN BE FOUND IN THIS INSTRUCTION BOOKLET.

b. Re-Chucking using The Mini Cole Jaw Facility

The Mini Cole Jaw segment can be mounted on the Nova Chuck/SuperNova Chuck by themselves without the use of any other jaw sets. Normal M6x10 Countersunk screws provided with your Nova/SuperNova to mount the other accessory jaw sets can be used.

WARNING

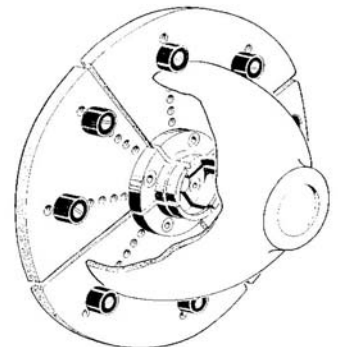
DO NOT ATTEMPT TO USE THIS FACILITY TO GRIP BOWL BLANKS WHICH HAVE NOT BEEN FULLY TURNED INSIDE AND OUTSIDE. THE RE-CHUCKING FACILITY CANNOT BE USED AS A GRIPPING METHOD TO DO MAJOR RE-SHAPING WORK OVER THE WHOLE OUTER SURFACE OF THE BOWL. ALWAYS USE A CAUTIOUS AND CONSERVATIVE APPROACH. USE CORRECT 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 (50mm, 75mm, 100mm) onto the Mini Cole Jaws use the four longer M6x20mm screws provided. Note the 25mm jaws and pin jaws are not designed for use with Mini Cole Jaws.

Only when both the inside and outside of the bowl have been turned (these operations can all be performed with the Mini 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 171mm (6 3/4") in diameter 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 for example, a recessed dovetail. Foot mounting method is best achieved with the Step Jaws.

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 Nova Scroll Chuck/SuperNova Chuck 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 200 (8") DIAMETER. NO RESPONSIBILITY CAN BE ACCEPTED FOR USER'S OWN ADAPTION OR MODIFICATION TO THE MINI COLEJAWS. IT IS THE USERS RESPONSIBILITY TO TAKE ALL CARE TO ENSURE THAT A SAFE MOUNTING OF BOWLS IS ACHIEVED.

For more information, see our website

www.teknatool.com

Teknatool International
65 The Concourse Henderson
PO Box 180034 Luckens Point West Harbour
Auckland
New Zealand

Ph +64 9 837 6900

Fax +64 9 837 6901

Email sales@teknatool.com