

Teknatool Two Year Limited Warranty

This Teknatool product is backed by a TWO YEAR 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 TWO YEARS and provides Teknatool with reasonable opportunity to verify the alleged defect by inspection.

REGISTER YOUR WARRANTY ONLINE

For warranty terms and conditions please go to
www.novainfinitychuck.com



novaTM
 Smart Tools, Powerful Solutions

Infinity Quick Change Accessory Jaw

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For your local Distributor or Reseller, see our website www.teknatool.com
 Download the full manual at www.novainfinitychuck.com

Register your warranty with Teknatool online..
 Visit our website on www.teknatool.com to register your warranty today!

OPERATIONAL MODES

Refer to the tables over and please note that sizes are a guide only, actual sizes may vary.

Expanding Dovetail Jaws

THIS METHOD MUST NOT BE USED FOR ANY WORK LONGER (BOWL DEPTH) THAN 150MM AS THERE WOULD BE GREAT DANGER OF WOOD TEARING OUT OF THE CHUCK. DO NOT EXCEED 700RPM IN THIS MODE. OUT OF BALANCE STOCK MUST BE TURNED AT THE SLOWEST SPEED POSSIBLE.

Any recess diameter can be turned between the max and min Expansion limits of the particular jaw as in the table above. The optimum turning recess diameter (on the outside) is as close to the minimum (detailed above) as possible. As the recess diameter is increased above the optimum, less jaw contact is made. Take care not to make the

Reverse Dovetail (Contracting Action)

This method is used to grip bowls with a foot mounting. The size of the foot being between the min and max contracting size of the jaw as in the table above. The optimum foot diameter is about the minimum contracting foot size of the jaw. Larger foot diameters can be used but above the edges of the jaws can mark the wood. It is suggested that masking tape is used to protect the foot from jaw marks.

Spigot (Tenon) Mounting (Contracting Action)

Wood should be pre-machined to a cylinder (to optimize balance) with a diameter no greater than max clamping diameter of the jaw. This method can be used to grip pre-machined/pre-turned spigots.

SPIGOT SIZE SHOULD BE WITHIN CONTRACTING LIMITS AND USE FULL SPIGOT LENGTH OF JAWS, AS DETAILED IN TABLE OVER.

MAINTENANCE

Before each use wipe clean the base of the jaws and dovetail key to make sure the jaw gets proper surface contact when mounting.

Clean jaws after use and spray with a light Corrosion protectant product like WD40 or CRC.

Additionally, for longer term storage, wrap in an oil soaked cloth.

TROUBLESHOOTING GUIDE

PROBLEM

Add on jaws do not run true

POSSIBLE CAUSE AND SOLUTION

Check jaws are mounted correctly on jaw slides. For method see Page 9. For accuracy parameters see Page 2. When the jaws are expanded beyond a 50mm circle they will appear to be running out but in fact are maintaining concentricity. Always evaluate runout from turned wood clamped in jaws

PROBLEM

Accessory Jaws when Wound to centre do not meet

POSSIBLE CAUSE AND SOLUTION

Slides have not engaged sequentially in clockwise order with scroll - 1-2-3-4. Jaw Slides could have been inserted out of order.



Explanation of common chucking techniques

EXPANDING DOVETAIL OPERATION

Expansion of the jaws into a recess. This function is for bowl and platter turning where the projection (depth) of the wood blank is not too great. Specific sizes for each jaw type is stated in that area. Please refer to your NOVA Chuck manual for information on how to form a recess.

When making a recess it is important to calculate the depth. The recess depth is an important consideration for maximising the holding power of the jaws, guidelines under each jaw should be followed closely. The depth of a recess can be varied according to the size and mass of the workpiece. Larger bowls and softer woods require a deeper recess. Smaller lids and thin platters generally require a shallower recess. Always use a recess depth in excess of what is required. IF THERE IS ANY DOUBT INCREASE RECESS DEPTH.

SPIGOT (Tenon) OPERATION

Contraction of the jaws around a wooden spigot for grip. Mainly used for box, goblet and vase turning, that is, endgrain items with a fair degree of overhang. Generally tailstock support is minimal or cannot be used because of the need to hollow out the inside. This method seems to be preferred by many bowl turners over the internal dovetail recess as the foot can later be re-shaped or removed, if desired, to make a smooth outside bottom of the bowl.

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, Teknatool 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. Commonly used for all hollow form work such as bowls, long hollow vases or boxes.

Mounting the INFINITY Quick Change Jaws on the Chuck

IT IS IMPORTANT TO LOCATE JAWS PROPERLY IN THE JAW SLIDES FOR THE CHUCK TO FUNCTION SAFELY AND ACCURATELY.

MOUNTING ADD-ON JAWS

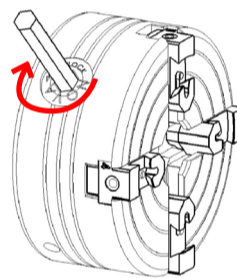


FIG 1

1. Using the supplied Chuck Key, turn the chuck pinion gear clockwise to open the jaws to their outer most position (as in Figure 1). **IMPORTANT: Never leave the Chuck key in the chuck when not in use!**

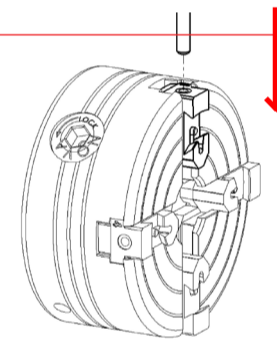


FIG 2

2. Push in the Lock Push Pin on the back of the Jaw Side Using the pin in the end of the Chuck Key Handle to release the locking mechanism (Figure 2).

3. With the Lock Push Pin fully depressed in, position a desired jaw on the left side of a free Jaw Slide and slide the Jaw clockwise in a circular motion into place in the Jaw Slide. Remove the Pin holding the lock push pin in and ensure the jaw is securely locked in place. (Figure 3).

Repeat for all remaining free Jaws.

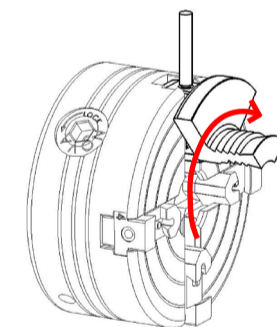


FIG 3

UN-MOUNTING ADD-ON JAWS

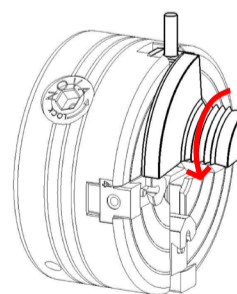


FIG 5

1. With the Lock Push Pin fully depressed in, slide the Jaw anti-clockwise in a circular motion Out of the Jaw Slide. Remove the Pin holding the lock push pin. (Figure 5). Repeat for all remaining Jaws.

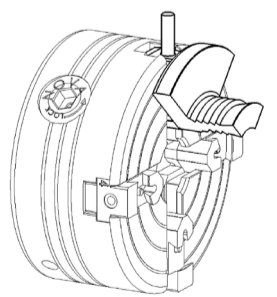


FIG 4

2. With the jaws opened to their outermost position, push in the Lock Push Pin on the back of the Jaw Side using the pin in the end of the Chuck Key Handle to release the locking mechanism (Figure 4).

NOTE: if the collet is not coming out of the Chuck, check the Lock pin is fully depressed. If it is and the jaw still can't be removed, lightly tap the jaw anti-clockwise out of the Chuck.

NOVA Infinity Quick Change Accessory Jaw Manual
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THANK YOU FOR PURCHASING OUR NOVA INFINITY QUICK CHANGE ACCESSORY JAW.

This is a quick start manual. For a complete manual, to watch videos and register your warranty, please go to www.novainfinitychuck.com

WARNING! ONLY use the NOVA Chuck handle supplied to tighten the jaws. DO NOT use longer arm hex wrenches, ratchets, or other devices which may over tighten and cause excessive and unnecessary torque. It can be dangerous to over tighten, causing excessive stress on product and on the project itself. The NOVA chuck handle supplied is sufficient to tighten the Infinity Chuck Jaws for normal turning operations.

GENERAL SAFETY RULES

Warning! Failure to follow these rules may result in serious personal injury.

DANGER: THIS CHUCK IS CAPABLE OF CONTRIBUTING TO SERIOUS INJURY, AS WITH ANY OTHER POWERTOOL ACCESSORY, IF USED IMPROPERLY ON THE LATHE FOR YOUR OWN SAFETY, READ THE MANUAL BEFORE OPERATING THE TOOL.

Learn the machine's application and limitations plus the specific hazards peculiar to it.

- 1.ALWAYS USE A FULL FACE SHIELD** Strongly recommended (must comply with ANSI STANDARD Z87.1 -USA) Everyday eye-glasses usually are only impact resistant and safety glasses only protect eyes. A full face shield fill protect the eyes and face. Also use face or dust mask if cutting operation is dusty
- 2.WEAR PROPER APPAREL.** Do not wear loose clothing, gloves, neckties, rings, bracelets or other jewelry which may get caught in moving parts. Non slip footwear is recommended. Wear protective hair covering to contain long hair.
- 3.USE EAR PROTECTORS.** Use ear muffs for extended period of operation. Use muffs rated to 103 DBA LEQ (8 hour).
- 4.DON'T USE IN DANGEROUS ENVIRONMENT.** Don't use power tools in damp or wet locations, or expose them to rain. Keep work area well lighted.
- 5.KEEP WORK AREA CLEAN.** Cluttered areas and benches invite accidents. Build up of sawdust is a fire hazard.
- 6.KEEP CHILDREN AND VISITORS AWAY.** All children and visitors should be kept a safe distance from work area.
- 7.MAKE WORKSHOP CHILDPROOF** with locks, master switches, or by removing starter keys.
- 8.GROUND ALL TOOLS.** This tool is equipped with a three prong plug, it should be plugged into a three hole electrical receptacle. If an adapter is used to accommodate a two-prong receptacle, the adapter lug must be attached to a known ground. Never remove the third prong.
- 9.MAKE SURE TOOL IS DISCONNECTED FROM POWER SUPPLY** while the motor is being mounted, connected, or reconnected.
- 10.DISCONNECT TOOLS** before servicing and when changing accessories such as blades, bits cutters, etc.
- 11.AVOID ACCIDENTAL STARTING.** Make sure switch is in the Off position before plugging in power cord.
- 12.NEVER LEAVE MACHINE RUNNING UNATTENDED.** Do not leave tool unless it is turned off and has come to a complete stop.
- 13.KEEP GUARDS IN PLACE** and in working order.
- 14.USE RIGHT TOOL.**

Do not use a tool or attachment to do a job for which it was not designed. Wherever possible stand to one side of the revolving wood

- 15.USE RECOMMENDED ACCESSORIES.** The use of improper accessories may cause hazards.
- 16.DON'T FORCE TOOL.** It will do the job better and be safer at the rate for which it was designed.
- 17.MAINTAIN TOOLS IN TOP CONDITION.** Keep tools sharp and clean for best and safest performance. Follow instructions for lubricating and changing accessories.
- 18.NEVER STAND ON TOOL.** Serious injury could occur if the tool is tipped or if the cutting tool is accidentally contacted.
- 19.REMOVE ADJUSTING KEYS AND WRENCHES.** Form a habit of checking to see that keys and adjusting wrenches are removed from tool before turning it on.
- 20.DON'T OVERREACH.** Keep proper footing and balance at all times.
- 21.DIRECTION OF FEED.** Feed work into a blade or cutter against the direction of rotation of the blade or cutter only.
- 22.ATTENTION TO WORK.** Concentrate on your work. If you become tired or frustrated, leave it for awhile and rest.
- 23.SECURE WORK.** Use clamps or a vice to hold work when practical. It's safer than using your hand and frees both hands to operate tool.
- 24.CHECK DAMAGED PARTS.** Before further use of the tool, any part that is damaged should be carefully checked to ensure that it will operate properly and perform its intended function. Check for alignment of moving parts, binding of moving parts, mounting, and any other conditions that may affect its operation. Any damaged part should be properly repaired or replaced.
- 25.DRUGS, ALCOHOL, MEDICATION.** Do not operate tool while under the influence of drugs, alcohol, or any medication.
- 26.DUST WARNING.** The dust generated by certain woods and wood products can be injurious to your health. Always operate machinery in well ventilated areas and provide for proper dust removal. Use wood dust collection systems whenever possible.

ADDITIONAL SAFETY RULES

DO NOT MODIFY OR USE LATHE FOR USES OTHER THAN FOR WHICH IT WAS DESIGNED.

- 1.SEEK INSTRUCTION.** If you are not thoroughly familiar with the operation of wood lathes, obtain advice from your supervisor, instructor, or other qualified person. Instruction from a qualified person is strongly recommended.

BOWL JAW SIZING

Jaw	Jaw Spigot length	Chuck	Contracting	Expanding
Bowl Jaw Series #1	9mm/0.354"	Precision Midi	16mm / 0.63 "- 23mm / 0.906 "	34mm / 1.339 "- 41mm / 1.614 "
		Nova G3	16mm / 0.63 "- 33mm / 1.229 "	34mm / 1.339 "- 51mm / 2.008 "
		Infinity/SN2	16mm / 0.63 "- 33mm / 1.229 "	34mm / 1.339 "- 51mm / 2.008 "
		Nova Titan	16mm / 0.63 "- 50mm / 1.969 "	34mm / 1.339 "- 68mm / 2.667 "
Bowl Jaw Series # 2	9mm/0.354"	Precision Midi	31mm / 1.22 "- 38mm / 1.496 "	51mm / 2.008 "- 58mm / 2.283 "
		Nova G3	31mm / 1.22 "- 48mm / 1.89 "	51mm / 2.008 "- 68mm / 2.677 "
		Infinity/SN2	31mm / 1.22 "- 48mm / 1.89 "	51mm / 2.008 "- 68mm / 2.677 "
		Nova Titan	31mm / 1.22 "- 65mm / 2.559 "	51mm / 2.008 "- 85mm / 3.346 "
Bowl Jaw Series #3	12.5mm/0.492"	Precision Midi	46mm / 1.811 "- 53mm / 2.087 "	68mm / 2.677 "- 75mm / 2.953 "
		Nova G3	46mm / 1.811 "- 63mm / 2.48 "	68mm / 2.677 "- 85mm / 3.346 "
		Infinity/SN2	46mm / 1.811 "- 63mm / 2.48 "	68mm / 2.677 "- 85mm / 3.346 "
		Nova Titan	46mm / 1.811 "- 80mm / 3.15 "	68mm / 2.677 "- 102mm / 4.016 "
Bowl Jaw Series #4	15.5mm/0.61"	Precision Midi	NOT RECOMMENDED	NOT RECOMMENDED
		Nova G3	61mm / 2.402 "- 78mm / 3.071 "	85mm / 3.346 "- 102mm / 4.016 "
		Infinity/SN2	61mm / 2.402 "- 78mm / 3.071 "	85mm / 3.346 "- 102mm / 4.016 "
		Nova Titan	61mm / 2.402 "- 95mm / 3.74 "	85mm / 3.346 "- 119mm / 4.685 "
Bowl Jaw Series #5	19mm/0.748"	Precision Midi	NOT RECOMMENDED	NOT RECOMMENDED
		Nova G3	76mm / 2.992 "- 93mm / 3.661 "	102mm / 4.016 "- 119mm / 4.685 "
		Infinity/SN2	76mm / 2.992 "- 93mm / 3.661 "	102mm / 4.016 "- 119mm / 4.685 "
		Nova Titan	76mm / 2.992 "- 110mm / 4.331 "	102mm / 4.016 "- 136mm / 5.354 "
Bowl Jaw Series #6	22mm/0.866"	Precision Midi	NOT RECOMMENDED	NOT RECOMMENDED
		Nova G3	NOT RECOMMENDED	NOT RECOMMENDED
		Infinity/SN2	89mm / 3.504 "- 106mm / 4.173 "	119mm / 4.685 "- 136mm / 5.354 "
		Nova Titan	89mm / 3.504 "- 123mm / 4.843 "	119mm / 4.685 "- 153mm / 6.024 "
Bowl Jaw Series #7	25mm/0.984"	Precision Midi	NOT RECOMMENDED	NOT RECOMMENDED
		Nova G3	NOT RECOMMENDED	NOT RECOMMENDED
		Infinity/SN2	102mm / 4.016 "- 119mm / 4.685 "	136mm / 5.354 "- 153mm / 6.024 "
		Nova Titan	102mm / 4.016 "- 136mm / 5.354 "	136mm / 5.354 "- 170mm / 6.693 "

- 2.MAKE SURE WOOD** is securely clamped in the chuck before turning it on
- 3.EXAMINE WORK PIECE** and glue joints before turning to make sure it has no defects that would cause it to break when turning.
- 4.CHECK SET-UP** with power Off. Examine the set-up carefully and rotate the work piece by hand to check clearance before turning on power.
- 5.AJUST TOOLREST** close to the work piece. Before turning, revolve the stock by hand to make sure it clears the rest. At intervals, stop the lathe and readjust the toolrest.
- 6.DO NOT MAKE ADJUSTMENTS** when the lathe or work piece is turning. Make all adjustments with power Off.
- 7.TIGHTEN ALL CLAMP HANDLES** on the headstock, tailstock, and toolrest before operating lathe.
- 8.USE LOWEST SPEED** when turning a new or unbalanced work piece.
- 9.USE CORRECT SPEED** for turning the wood blank as wood speed will vary depending on diameter.
- 10.KEEP TOOL ON TOOLREST.** Tools should remain on the toolrest whenever the tool is engaged in contact with the work piece.
- 11.DO NOT ROTATE CHUCK** under power without wood being gripped and securely tightened in the chuck.
- 12.USE CORRECT LATHE TOOLS.** Do not use spindle turning chisels for faceplate mounted work, and vice versa. Spindle turning tools used for faceplate turning may grab the work piece and pull the chisel from your control.
- 13.DO NOT POUND WORK PIECE** into headstock drive (spur) center while attached to the lathe when turning between centers. Pound the drive center into the work piece with a soft mallet before installing it between centers in the lathe.
- 14.DO NOT USE TAILSTOCK** to drive work piece into the drive (spur) center when turning between centers. Secure work between centers with light pressure from the tailstock quill action.
- 15.FASTEN STOCK SECURELY BETWEEN CENTERS.** Make sure the tailstock is locked before turning on the power.
- 16.NEVER LOOSEN TAILSTOCK** spindle or tailstock while work piece is turning.

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

MAKE SURE CHUCK IS SECURED properly on lathe spindle. Follow mounting instructions for your lathe for faceplates and other spindle fixtures.

- 18.MAKE SURE CHUCK JAWS ARE SECURELY ATTACHED** to the chuck by vigorously wrenching each of the four jaws to check they are firmly in place.
- 19.DO NOT ROTATE CHUCK UNDER POWER WITHOUT WOOD BEING GRIPPED.**
- 20.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.
- 21.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.**
- 22.DO NOT TURN IN REVERSE.** Do not use this chuck for reverse turning operations. Light reverse operations i.e. sanding, polishing are allowed, do not exceed 2000rpm in reverse.
- 23.EXAMINE WOOD CAREFULLY. ONLY MOUNT WOOD THAT IS SOUND,** if any cracks, splits, or weakness is found in wood - **DO NOT MOUNT ON CHUCK.**
- 24.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.**
- 25.IRREGULAR OR OUT OF BALANCE STOCK** needs to be turned at the slowest possible speed until it is in balance.
- 26.MAKE SURE WOOD** is clamped 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.
- 27.DO NOT EXCEED MAXIMUM** guidelines in this manual for wood blank diameters/length set out in this manual for different modes and jaw types.
- 28.DO NOT USE WITH ANY COPYTURNER OPERATIONS**
- 29.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.
- 30.WARNING FOR SAFE OPERATION. DO NOT EXTEND JAW SLIDES BEYOND CHUCK BODY UNDER ANY CIRCUMSTANCES**

SMOOTH COLUMN JAW SIZING

Jaw	Jaw Spigot length	Chuck	Contracting	Expanding
Smooth Column Jaw Series #1		Precision Midi	32mm/1.259" - 39mm/1.535"	34mm / 1.339 "- 41mm / 1.614 "
		Nova G3	16mm / 0.63 "- 33mm / 1.229 "	34mm / 1.339 "- 51mm / 2.008 "
		Infinity/SN2	28.6mm / - 48.5mm	34mm / 1.339 "- 51mm / 2.008 "
		Nova Titan	16mm / 0.63 "- 50mm / 1.969 "	34mm / 1.339 "- 68mm / 2.667 "
Smooth Column Jaw Series #2		Precision Midi	31mm / 1.22 "- 38mm / 1.496 "	51mm / 2.008 "- 58mm / 2.283 "
		Nova G3	31mm / 1.22 "- 48mm / 1.89 "	51mm / 2.008 "- 68mm / 2.677 "
		Infinity/SN2	31mm / 1.22 "- 48mm / 1.89 "	51mm / 2.008 "- 68mm / 2.677 "
		Nova Titan	31mm / 1.22 "- 65mm / 2.559 "	51mm / 2.008 "- 85mm / 3.346 "
Smooth Column Jaw Series #3		Precision Midi	46mm / 1.811 "- 53mm / 2.087 "	68mm / 2.677 "- 75mm / 2.953 "
		Nova G3	46mm / 1.811 "- 63mm / 2.48 "	68mm / 2.677 "- 85mm / 3.346 "
		Infinity/SN2	46mm / 1.811 "- 63mm / 2.48 "	68mm / 2.677 "- 85mm / 3.346 "
		Nova Titan	46mm / 1.811 "- 80mm / 3.15 "	68mm / 2.677 "- 102mm / 4.016 "

SAW TOOTH JAW SIZING

Jaw	Jaw Spigot length	Chuck	Contracting	Expanding
Saw Tooth Jaws #1	25.5mm/1"	Precision Midi	29mm/1.142"- 36mm/1.417"	48.8mm / 1.921 "- 55.8mm / 2.197"
		Nova G3	29mm / 1.142 "- 46mm / 1.811 "	48.8mm / 1.921 "- 65.8mm / 2.591"
		Infinity/SN2	29mm / 1.142 "- 46mm / 1.811 "	48.8mm / 1.921 "- 65.8mm / 2.591"
		Nova Titan	29mm / 1.142 "- 63mm / 2.48 "	48.8mm / 1.921 "- 82.8mm / 3.26"
Saw Tooth Jaws #2	28.5mm/1.12"	Precision Midi	46mm / 1.811 "- 53mm / 2.087"	65.8mm / 2.591 "- 72.8mm / 2.866"
		Nova G3	46mm / 1.811 "- 63mm / 2.48"	65.8mm / 2.591 "- 82.8mm / 3.26"
		Infinity/SN2	46mm / 1.811 "- 63mm / 2.48"	65.8mm / 2.591 "- 82.8mm / 3.26"
		Nova Titan	46mm / 1.811 "- 80mm / 3.15"	65.8mm / 2.591 "- 99.8mm / 3.929"
Saw Tooth Jaws #3	31.5mm/1.24"	Precision Midi	NOT RECOMMENDED	NOT RECOMMENDED
		Nova G3	63mm / 2.48"- 80mm / 3.15"	82.8mm / 3.26"- 99.8mm / 3.929"
		Infinity/SN2	63mm / 2.48"- 80mm / 3.15"	82.8mm / 3.26"- 99.8mm / 3.929"
		Nova Titan	63mm / 2.48"- 97mm / 3.819"	82.8mm / 3.26"- 116.8mm / 4.598"
Saw Tooth Jaws #4	34.5mm/1.36"	Precision Midi	NOT RECOMMENDED	NOT RECOMMENDED
		Nova G3	NOT RECOMMENDED	NOT RECOMMENDED
		Infinity/SN2	80mm / 3.15"- 97mm / 3.819"	99.8mm / 3.929 "- 116.8mm / 4.598 "
		Nova Titan	80mm / 3.15"- 114mm / 4.488"	99.8mm / 3.929 "- 133.8mm / 5.268"