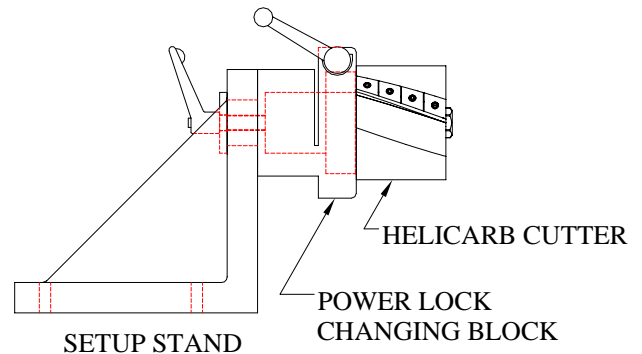


Helicarb® Power Lock Cutter Blade Replacement

Note: Instructions are for a typical cutter. The cutter shown may not look identical to your cutter.

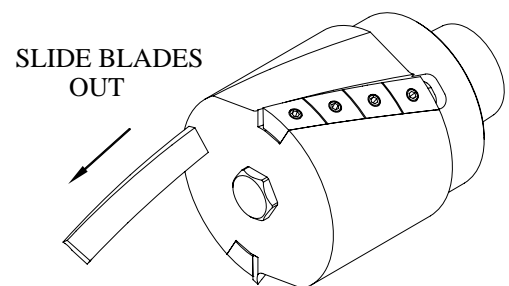
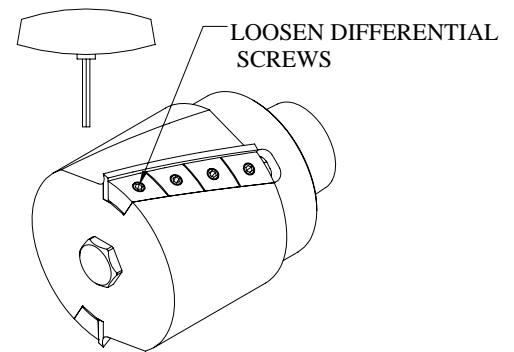
1. Great Lakes Custom Tool recommends the use of **safety glasses at all times.**
2. When cutter is mounted on the machine, be sure to follow **LockOut/TagOut** procedures and use all appropriate personal protection equipment.
3. Remove cutter from machine.
4. Place Cutter in a setup stand to change blades. Setup stand must be fastened to a solid work bench or table. Setup stand & accessories can be purchased from Great Lakes Custom Tool.

**Order: 955-07584-0000 Stand Assembly and
950-07584-PL00 Power Lock changing block.**



Blade Removal

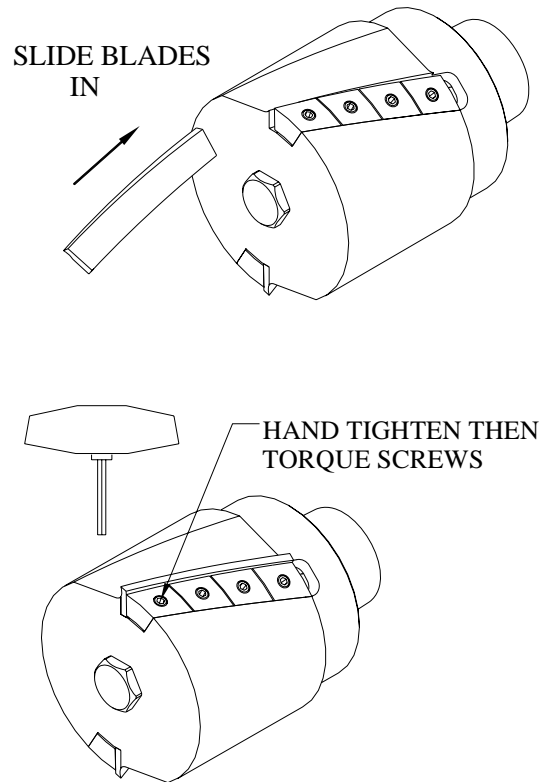
1. Use a 1/8" hex key to loosen the differential screws in the wedges. It is not necessary to remove the wedges and screws. Loosen the differential screws one turn. The differential screws have right hand threads that go into the cutter body and left hand threads that are in the wedges. This combination of both right hand and left hand threads insures for positive release of the wedges when loosening the screws.
2. With the screws and wedges loosened, slide the Helicarb® twisted blade out the end opposite the tool stand.
3. With all the blades removed, clean cutter and blade slots using an air hose to blow out any loose material. Remove wood pitch or "caked on material" using hot water or a cleaning solvent.



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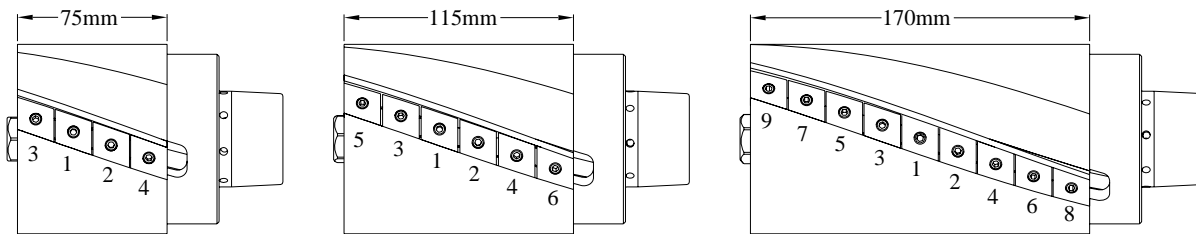
Blade Installation

1. Slide the new Helicarb® twisted blade into the slot from the end of the cutter. The blade has a slight taper with the base being wider than the cutting edge. Slide the blade in until the end is flush with the end of the cutter body.
2. Hold the blade flush with the end of the body and down against the cutter body slot. **Be careful the blade is sharp and can cut you.**
3. Applying pressure to hold the blade in place, tighten the screws enough to hold the blade in place. As the differential screws are tightened, the angled wedges will contact the tapered surface of the blade drawing the blade down to the helical bottom surface of the slot for accurate positioning and positive clamping.
Torque the differential screws following the instructions below.



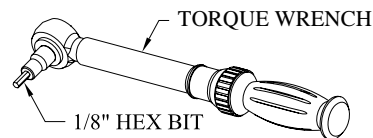
Helicarb Differential Screw Tightening Instructions

After hand tightening the differential screws with a T-handle allen wrench, **use a torque wrench** (GLCT Part No. 74026) **to tighten each screw to the correct torque value as listed in the chart below.** Tighten each screw a small amount at a time **following the tightening sequence below.** **Do not** tighten the screw directly to the torque value listed. Tightening each screw a small amount at a time applies equal pressure to the wedge and helps keep the blade precisely in place. (Note: The torque values listed are Anti-Seize lubricated torque values. Never torque a screw without Anti-Seize to this amount, false torque and/or failure could occur.)



TIGHTENING SEQUENCE FOR DIFFERENTIAL SCREWS

SCREW SIZE	HEX KEY SIZE	TORQUE VALUE	
		NEWTON METERS	INCH POUNDS
1/4"	1/8 " GLCT Part No. 1/8"HEX BIT	12.4	110



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Replacing Wedges and Differential Screws

When replacing a wedge or a differential screw, it is **very important to position the differential screw properly** in the wedge. The position of the differential screw in the wedge **will affect the balance of the cutter.**

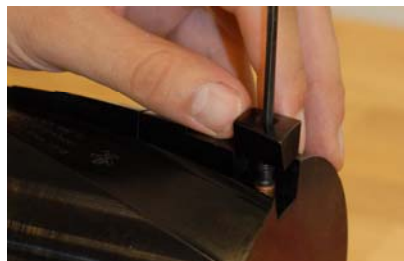
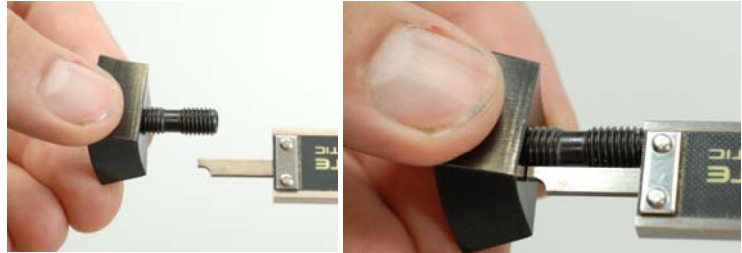


The differential screw has both left and right hand threads. The wedge is tapped with left hand threads.

Place anti-seize on the left hand threads of the differential screw. **Start the differential screw into the hole on the narrow end of the wedge turning the screw counter-clockwise 3 to 4 revolutions.**

Use a digital caliper to measure the length of the screw extending out of the wedge. This **distance should be .600" to .610" for the 1/4-28NF differential screws.** (Other wedge sizes and differential screw sizes will have different setting dimensions for the screws.)

Place anti-seize on the right hand threads of the differential screw and then install the wedge and screw into the Helicarb cutter. Turn the 1/8" T-Handle hex key clockwise making sure that the screw threads start into the tapped hole of the cutter. Turn the screw 4-5 revolutions. Repeat this procedure for all wedges and screws being replaced. When all wedges have been installed onto the cutter, the blades can then be installed.



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Instruction No. A00153
8-14-06 Page 3 of 3