



# NOTCHER

Instruction Manual



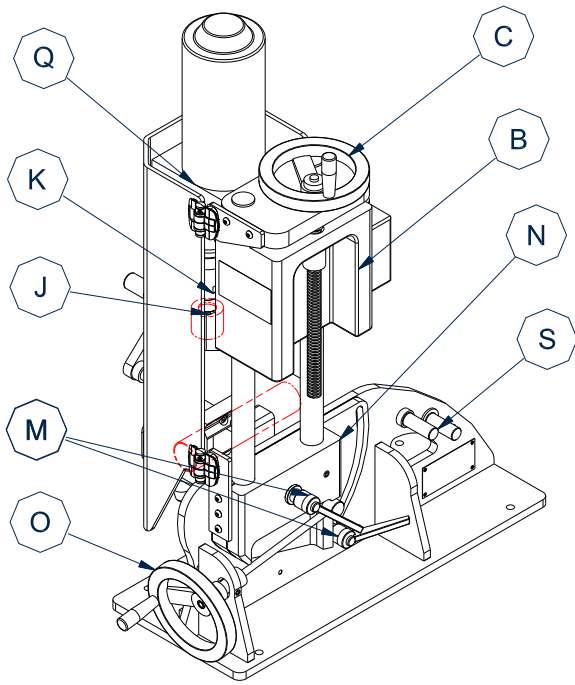
Manufactured by:



Bend, Oregon  
541-382-1573

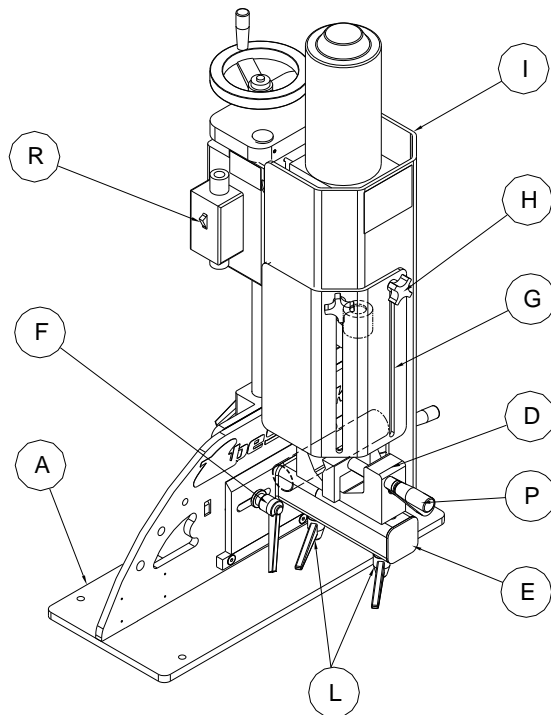
[www.tubeshark.com](http://www.tubeshark.com)

# TUBE SHARK NOTCHER



## COMPONENT LIST

- A----BASE PLATE
- B----MOTOR CARRIAGE
- C----6" PLUNGE HAND WHEEL
- D----CLAMP
- E----CLAMP BRACKET
- F----HORIZONTAL HANDLE (2)
- G----SLIDING COVER
- H----HAND KNOB
- I----HINGED COVER
- J----ADAPTER
- K----SHAFT EXTENSION
- L----VERTICAL HANDLES (2)
- M----PIVOT HANDLES (2)
- N----PIVOT BASE
- O---6"PIVOT HAND WHEEL
- P---CRANK HANDLE
- Q---SPEED SELECTOR
- R---TOGGLE SWITCH
- S---ALTERNATIVE ADAPTERS



# **STOP!**

**Before continuing, read through the safety and operational instructions in this manual. Failure to do so could result in damage to the equipment or personal injury.**

## SAFETY

Please read this manual carefully. If there are any questions concerning safety practices or equipment, contact GRB at (541) 382-1573, or at the address listed at the back of this manual.

### GENERAL SAFETY:

1. Inspect the machine before each use for damaged, worn, or broken parts.
2. Never operate this equipment if any part is damaged, worn or broken.
3. Never remove the safety guards or safety decals from the machine.
4. Always wear safety glasses whenever operating this equipment.
5. Never substitute non-TubeShark parts in your TubeShark Notcher!  
TubeShark parts are the finest money can buy. They are built to withstand the enormous forces generated by this machine. Use of non-TubeShark parts could result in serious machine damage or personal injury. It will also void your warranty! DON'T USE THEM!
6. Never drill, weld, or modify any TubeShark component unless specifically instructed to do so in writing by GRB.
7. Do not begin any maintenance, tool changing or set-up work before the machine has been switched off, disconnected from power and has come to a complete standstill.
8. Do not open enclosures, doors or hinged covers before the machine has come to a complete standstill. Observe all relevant safety decals.
9. Never use alcohol or any drug, which could impair your judgment or ability to operate this equipment safely.
10. Be sure all clamp handles are tight before starting the machine
11. Do not try to remove chips while the cutter is rotating. Chips are sharp and can pull objects into moving parts.
12. Periodically inspect the tooling for loose or cracked tips. Do not use tooling with cracked or loose tips.
13. Ensure that all operators of this equipment have fully read and understood this manual. If this machine is sold or loaned, be sure that these manuals go with the machine. If this manual is lost or damaged, a free copy may be obtained by calling or writing to GRB.

## INITIAL SET-UP

1. When your machine arrives, check the packaging for damage to the carton that might indicate damage to the content. Ask the driver to note any such damage.
2. Unpack the Tube Shark Notcher
3. Secure the base plate at all 4 connection points.
4. Check the travel of the head, clamp, and pivot.
5. Provide 120V (11.5 amp service). Be sure to use a properly grounded outlet.

## OPERATION

Your TubeShark Notcher is designed to conveniently notch the ends of round tubing using conventional hole saws. Sizes accommodated are 1/2" to 1-3/4" OD tubing (1/2"-3" with optional shaft extension GRB part number TSN-0002). The head may be adjusted from 0-60 degree from vertical to allow angled cuts.

1. Raise the motor carriage of your TubeShark Notcher by rotating the 6" hand wheel at the top of the machine.
2. Move the clamp by loosening the horizontal handles on the clamp bracket and sliding the clamp bracket away from the tooling.
3. Raise the sliding cover by loosening the two hand knobs on the hinged cover and locking into place.
4. Select the appropriate adapter for your tooling. Secure the adapter to the end of the shaft extension tightening the two set screws against the adapter flat. Tooling can be screwed into the adapter using the provided wrench on the shaft extension. 3 adapters are provided (screwed into the frame):
  - 3/4-10 UNC
  - 5/8-18 UNF
  - 1/2-20 UNF

The shaft extension will also accept a 3/4" Weldon Shank.

5. Align the clamp by loosening the two vertically handles under the square tubing. The arrow on the square tubing frame should point to the desired tubing size to be notched. Tighten the two vertical handles to secure the clamp in place.
6. Adjust the head for the desired angle of cut. Loosen the two pivot handles on the red pivot base. With your right hand hold the center pivot adjustment handle while turning the 3" adjustment handle with your left hand. The pivot angle is marked on the brass plate on the back of the pivot base. When the appropriate angle is set, tighten the two pivot handles.

TUBE SHARK NOTCHER

7. Adjust the clamp base as close to the cutter as possible by loosening the horizontal handles on the base plate and sliding the clamp frame towards the shaft. You may want to lower the motor carriage by rotating the 6" hand wheel to check your clearance. Tighten the two horizontal handles to lock the clamp frame in place.
8. Select your material and place it in the clamp. Tighten the crank handle on the horizontal screw and make sure your material is securely in place with the v-jaws.
9. Adjust the sliding cover by loosening the two hand knobs on the hinged cover and lowering the sliding cover close to your material. Lock the two hand knob into place. Close the cover.
10. Make sure all adjustable handles are tight. Make sure to keep hands, rags, clothing, ect. away from moving parts.
11. Select the proper operating speed. Use low speed, marked "L" on the speed selector lever for most operations. Use high speed for small notching. To change speeds, turn the drill off and rotate the speed selector lever up or down while the drill is coasting to a stop. **NOTE:** To avoid damage to the gearbox, do not shift at full speed, when the tool is under load, or when the tool has stopped.
12. Flip the toggle switch to start the motor.
13. Index the cutting tool down slowly by turning the 6" handle slowly. The use of cutting lubricants will reduce drilling heat and increase drill bit life.
14. When the cutting is completed, withdraw the cutter by reversing the rotation on the 6" handle while the motor is still rotating.
15. Turn the motor off.
16. Unclamp by turning the crank handle and remove the piece.

## TUBESHARK NOTCHER SPECIFICATIONS

Weight	80lbs
Dimensions (crated)	14" (10" base) w X 24"d X 36.75"h
Dimensions (table area)	21"w X 37"d X 36.75"h
Maximum Tubing	1-3/4" (3" with optional extension shaft)
Minimum Tubing	1/2"
Notch angle range	0 to 60 degrees
Electrical	120 Volts, 1 phase, 60 hertz

## **WARRANTY**

All TubeShark Notchers are warranted from the factory to be free of defects in materials and workmanship for **ONE YEAR** from the date of purchase except as noted below. The determination of the validity of any warranty claim is at the sole discretion of GRB. Under this warranty, GRB's liability is limited solely to the repair or replacement of equipment, which they manufacture. This warranty does not cover damage due to normal wear, abuse or neglect, or use of this tool in any way that is contrary to the guidelines given in the operator's manual.

## **RETURN AND CANCELLATION POLICY**

1. All sales are considered final at the time of shipment.
2. Items returned for warranty service will be examined within 10 working days of receipt. An estimate will be written that describes which, if any, repairs are not covered under warranty. The purchaser must authorize any non-warranty repairs before they will be done. GRB will pay return freight on all warranty repairs. Return freight on non-warranty repairs will be billed to purchaser.
3. Call before returning any item to obtain a return authorization number. No returned item will be accepted without a return authorization number clearly printed on the outside of the package.



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