

Pro-Tools

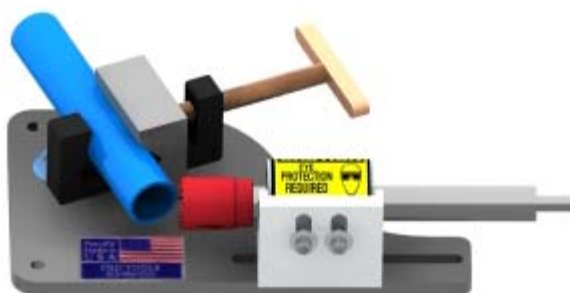
MADE IN THE U.S.A.

HSN-500 & HSN-501i

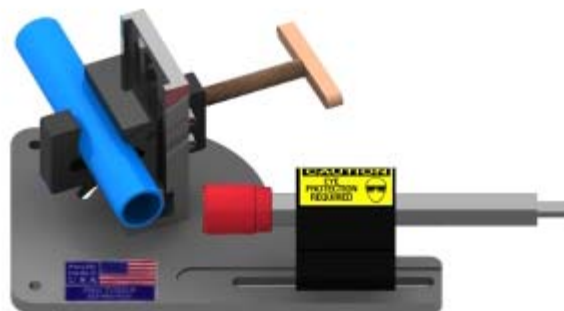
HOLE SAW NOTCHER

*OPERATING INSTRUCTIONS
FOR MODELS*

HSN-500



HSN-501i



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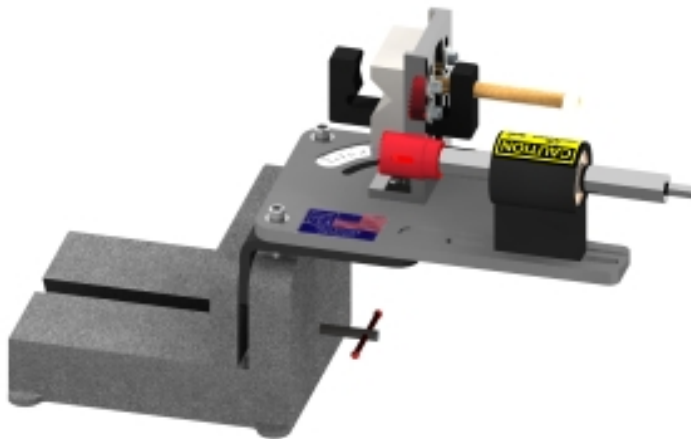
HSN-500 & HSN-501i

HOLE SAW NOTCHER

OPERATING INSTRUCTIONS FOR MODELS HSN-500 & HSN-501i

1. SAFETY GLASSES MUST BE WORN WHEN OPERATING ANY CUTTING TOOL!
2. LOWER RPM's ARE REQUIRED FOR CUTTING STEEL TUBING TO PREVENT OVERHEATING. **IMPORTANT:** RECOMMENDED OPERATING SPEED FOR HOLE SAWS IS **200 RPM's or LESS!**
3. USING CUTTING OIL WILL PROLONG THE LIFE OF THE HOLE SAW AND WILL ENABLE YOU TO CUT FASTER.
4. WHEN NOTCHING LARGER DIAMETER TUBES AT SHARP ANGLES, IT WILL HELP TO FIRST MITER CUT THE TUBE WITH A CUT-OFF SAW. THIS WILL KEEP THE SCRAP PIECE AS SMALL AS POSSIBLE (A LARGE SCRAP PIECE CAN GET JAMMED IN THE HOLE SAW AND PREVENT COMPLETION OF THE CUT).

DO NOT CLAMP IN VISE!

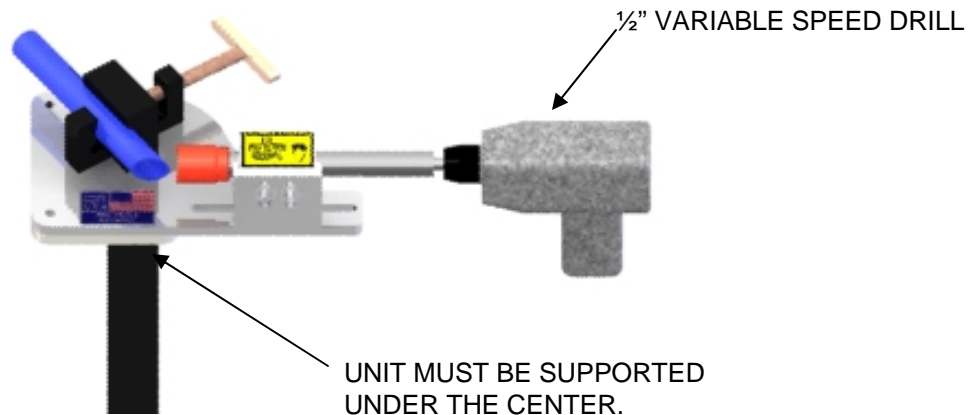


IF YOU ARE GOING TO USE THE NOTCHER IN A HORIZONTAL POSITION, IT WILL BE NECESSARY TO FABRICATE A STAND THAT WILL SUPPORT THE UNIT PROPERLY. CLAMPING THE UNIT IN A VISE, WITHOUT PROPER SUPPORT, WILL CAUSE THE NOTCHER TO FLEX AND CUT OFF CENTER.

HSN-500 & HSN-501i

HOLE SAW NOTCHER

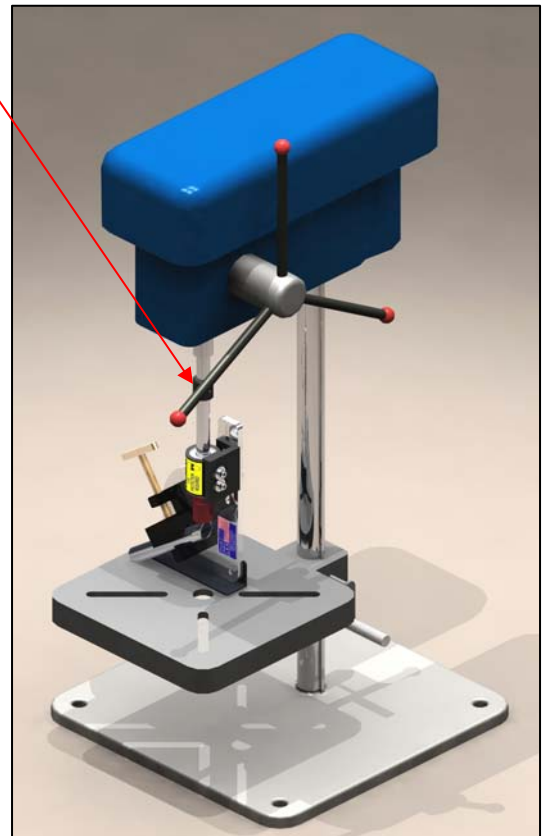
OPERATING INSTRUCTIONS



BE SURE TO LUBRICATE SHAFT

INCLUDED WITH YOUR NOTCHER IS AN ANGLE BRACKET SO THAT IT CAN BE MOUNTED ON A DRILL PRESS. THE HOLES ARE DRILLED IN THE BRACKET TO BOLT TO THE NOTCHER, BUT IT WILL BE NECESSARY TO LOCATE AND DRILL THE HOLES TO BOLT TO YOUR DRILL PRESS TABLE. WE SUGGEST MOUNTING THE NOTCHER AS SHOWN, LOCATED AND MARK HOLE POSITIONS. THEN REMOVE PLATE AND DRILL HOLES.

NOTE: DO NOT OPERATE NOTCHER UNLESS IT IS SECURELY MOUNTED.

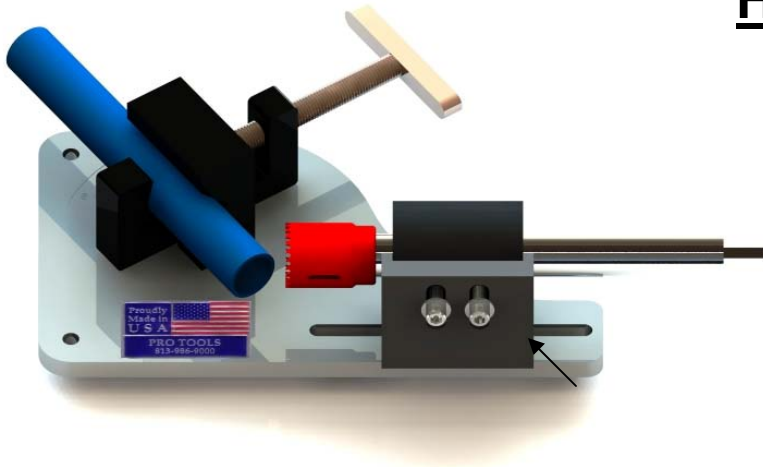


HSN-500 & HSN-501i

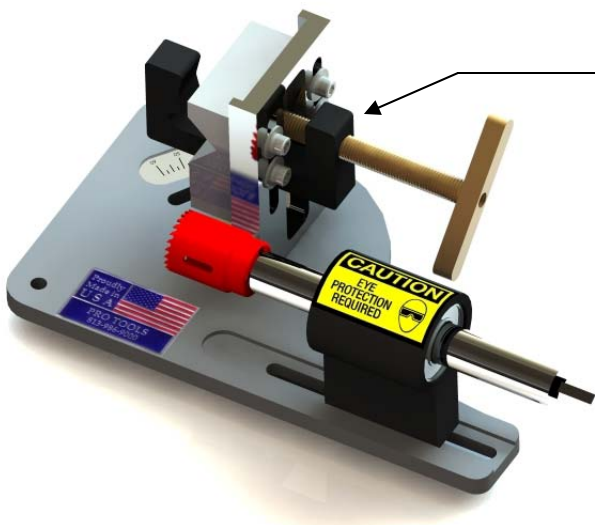
HOLE SAW NOTCHER

OPERATING INSTRUCTIONS

HSN-500



HSN-501i

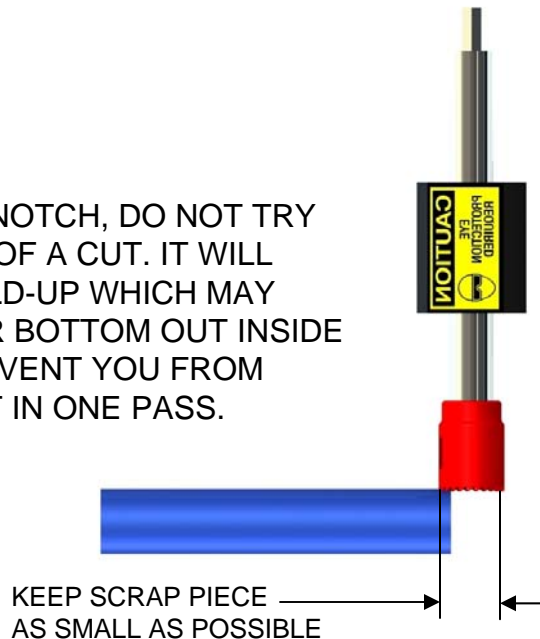


1. ADJUST V-BLOCK TILL YOUR CUT IS PERFECTLY CENTERED.
2. MAKE A CENTER PUNCH MARK, SO WHEN YOU MOVE THE LOCATION FOR OFFSET CUTS YOU WILL BE ABLE TO RETURN TO THE CENTER EASILY.

HOLE SAW NOTCHER

OPERATING INSTRUCTIONS

WHEN MAKING YOUR NOTCH, DO NOT TRY TO MAKE TOO LARGE OF A CUT. IT WILL PRODUCE SCRAP BUILD-UP WHICH MAY HIT END OF SHAFT, OR BOTTOM OUT INSIDE THE CUTTER AND PREVENT YOU FROM COMPLETING THE CUT IN ONE PASS.



**REMEMBER TO
LUBRICATE SHAFT.
EITHER MOTOR OIL
OR WHEEL BEARING
GREASE WILL
WORK.**

WHEN MAKING NOTCHES FROM 0 DEGREES UP TO 30 DEGREES, IT IS NOT NECESSARY TO CUT THE TUBE ON AN ANGLE. THE SAW WILL GO THROUGH IN ONE PASS, AS LONG AS YOU DON'T TRY TO MAKE YOUR NOTCH TOO DEEP.



ON NOTCHES FROM 30 DEGREES TO 60 DEGREES, IT WILL BE NECESSARY TO CUT THE TUBING AT THE SAME ANGLE AS THE NOTCH. TAKE AS SMALL A CUT AS POSSIBLE, AND YOU CAN COMPLETE THE CUT IN ONE PASS.



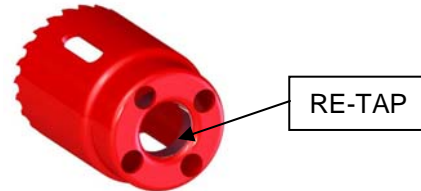
REMEMBER TO START YOUR ANGLE CUTS WITH THE LEAST AMOUNT OF MATERIAL POSSIBLE. AS YOU CUT THROUGH, THE MATERIAL WILL BECOME THICKER AND COULD STOP THE CUTTER FROM GOING THROUGH IN ONE PASS.

HOLE SAW NOTCHER

HOLE SAW INSTRUCTIONS

IMPORTANT:

BEFORE INSTALLING THE HOLE SAW ONTO THE NOTCHER SHAFT IT IS IMPORTANT TO MAKE SURE THE THREAD OF THE HOLE SAW AND SHAFT ARE CLEAR OF ANY DEBRIS. RUN A TAP THROUGH THE HOLE SAW TO CLEAN ITS THREADS.



DEPENDING ON THE BRAND OF HOLE SAW YOU USE IN THE NOTCHER THERE MIGHT BE A GAP BETWEEN THE BACK OF THE HOLE SAW AND THE SHAFT. IF USED THE HOLE SAW WILL CONTINUE TO TIGHTEN ONTO THE THREADS AND STRIP THE THREADS. **IN THAT CASE THE SHAFT THREADS WILL NOT BE COVERED UNDER THE WARRANTY.**



TO SOLVE THIS PROBLEM YOU WILL NEED TO USE A SIMPLE WASHER. PLACE THE WASHER BEHIND THE HOLE SAW AND TIGHTEN. THE WASHER SHOULD BE THICK ENOUGH TO TAKE UP THE GAP.



HOLE SAW NOTCHER

WARRANTY POLICY

ALL PRODUCTS THT PRO-TOOLS MANUFACTURES CARRY A ONE YEAR GUARANTEE AGAINST DEFECTS IN MATERIAL OR WORKMANSHIP. (PRODUCTS THAT WE SELL BUT DO NOT MAKE ARE COVERED UNDER THAT MANUFACTURING WARRANTY PLAN). ANY TOOLS OR PARTS THAT FAIL ARE 100% COVERED UNDER THE WARRANTY AND WILL BE REPAIRED FREE OF CHARGE (EXCLUDING FRIEGHT CHARGES). MISUSE OR ABUSE IS NOT COVERED. SIMPLY CALL AND GET A WARRANTY AUTHORIZATION NUMBER AND IT WILL BE PROMPTLY AND CHEERFULLY TAKEN CARE OF.

SAFETY WARNINGS

- ALWAYS READ AND UNDERSTAND DIRECTIONS THAT ARE INCLUDED WITH ALL PRO-TOOLS EQUIPMENT BEFORE OPERATING. IF DIRECTIONS ARE NOT INCLUDED, CALL PRO-TOOLS IMMEDIATELY.
- USE OF FABRICATION EQUIPMENT MAY PRESENT A PINCH OR CRUSH HAZZARD.
- ALWAYS OPERATE PRO-TOOLS EQUIPMENT WEARING SAFETY EQUIPMENT.
- ALWAYS USE THE CORRECT EQUIPMENT FOR THE PROJECT.
- NEVER USE PIPE BENDING DIES ON A TUBE OR TUBE DIES ON A PIPE.
- KNOW THE MATERIALS YOU ARE USING BEFORE BEGINNING FABRICATION.
- ALWAYS INSPECT EQUIPMENT PRIOR TO USE TO MAKE SURE IT IS IN GOOD WORKING ORDER. IF YOU ARE IN DOUBT, DO NOT USE AND CONTACT PRO-TOOLS.
- NEVER SUBSTITUTE COMPONENTS FROM OTHER EQUIPMENT. MAKE SURE COMPONENTS MATCH.
- NEVER EXCEED THE MANUFACTURER'S SPECIFICATIONS SET BY PRO-TOOLS.
- ALWAYS LUBRICATE METAL ON METAL PARTS!!!!**



HOLE SAW NOTCHER FAQ's

Q: WHAT IS THE DIFFERENCE BETWEEN THE HSN-500 AND HSN501i?

A: THE HSN-500 IS OUR BASIC NOTCHER PACKAGE. THE HSN-501i OFFERS CUSTOMERS THE ABILITY TO NOTCH OFF CENTER CUTS.

Q: WHAT SIZE TUBE OR PIPE CAN I NOTCH?

A: $\frac{3}{4}$ " – 2" TUBE CAN BE NOTCHED, AS WELL AS $\frac{3}{4}$ " – 1 $\frac{1}{2}$ " PIPE."

Q: HOW MANY DEGREES CAN IT NOTCH?

A: BOTH MODELS CAN NOTCH UP TO 60 DEGREES.

Q: WHAT TYPE OF HOLE SAWS SHOULD I USE?

A: YOU SHOULD ALWAYS USE AMERICAN MADE BI-METAL HOLE SAWS.

Q: HOW MANY CUTS CAN I GET FROM MY HOLE SAWS?

A: THIS ALL DEPENDS ON TYPE OF MATERIAL YOU ARE NOTCHING. PIPE WILL DEGRADE THE HOLE SAW QUICKER THAN ALUMINUM TUBE. AMOUNT OF WALL THICKNESS WILL ALSO AFFECT THE DURABILITY OF THE HOLE SAW.