

INSTRUCTION MANUAL

Chef'sChoice®

Hybrid® Diamond Hone® **Knife Sharpener Model 220**



Read instructions before use.
It is essential that you follow these
instructions to achieve optimal results.

IMPORTANT SAFEGUARDS

When using electrical appliances, basic safety precautions should always be followed including the following:

1. Read all instructions. *Every user should read this manual.*
2. To protect against electrical hazards, do not immerse the Chef'sChoice® Hybrid® sharpener in water or other liquid.
3. Make sure that only clean knife blades are inserted in Model 220.
4. Unplug from outlet when not in use, before putting on or taking off parts and before cleaning.
5. Avoid contacting moving parts.
6. Do not operate any appliance with a damaged cord or plug or after the appliance malfunctions, or is dropped or damaged in any manner.

U.S. customers: You can return your sharpener to EdgeCraft's factory for service where the cost of repair or electrical or mechanical adjustment can be estimated. When the electrical cord on this appliance is damaged, it must be replaced by the Chef'sChoice® factory or other qualified service to avoid the danger of electrical shock.

Outside U.S.: Please return your sharpener to your local distributor where the cost of repair or electrical or mechanical adjustment can be estimated. If the supply cord of this appliance is damaged, it must be replaced by a repair facility appointed by the manufacturer because special tools are required. Please consult your Chef'sChoice® distributor.

7. **CAUTION!** This appliance may be fitted with a polarized power plug (one blade is wider than the other). To reduce the risk of electric shock, this plug will fit in a polarized outlet only one way. If the plug does not fit fully in the outlet, reverse the plug. If it still does not fit, contact a qualified electrician. *Do not modify the plug in anyway.*
8. The use of attachments not recommended or sold by EdgeCraft Corporation may cause fire, electric shock or injury.
9. The Chef'sChoice® Hybrid® sharpener is designed to sharpen American, European, and Asian style knives as described in following sections. Do not attempt to sharpen scissors, ax blades or any blade that does not fit freely in the slots.
10. Do not let the cord hang over edge of table or counter or touch hot surfaces.
11. When in the "ON" position (Red flash on switch is exposed when "ON"), the Chef'sChoice® sharpener should always be on a stable countertop or table.
12. **WARNING: KNIVES PROPERLY SHARPENED ON YOUR Chef'sChoice® Hybrid® SHARPENER WILL BE SHARPER THAN YOU EXPECT. TO AVOID INJURY, USE AND HANDLE THEM WITH EXTREME CARE. DO NOT CUT TOWARD ANY PART OF YOUR FINGERS, HAND OR BODY. DO NOT RUN FINGER ALONG EDGE. STORE IN A SAFE MANNER.**
13. Do not use outdoors.
14. Close supervision is necessary when any appliance is used by or near children.
15. Do not use honing oils, water or any other lubricant with the Chef'sChoice® Hybrid® sharpener Model 220.
16. For household use only.

17. **SAVE THESE INSTRUCTIONS.**

Congratulations on your selection of the Chef'sChoice® Hybrid® Diamond Hone® Models 220!

The Hybrid® Diamond Hone® Models 220 are manufactured by Chef'sChoice®, the world's leader in cutting edge technology. These sharpeners combine advanced electric and manual sharpening techniques to create an exceptionally effective cutting edge on virtually all of your knives. The cutting edge is finely honed to extreme sharpness but retains strong microscopic teeth that gives it a highly effective bite for all your food prep needs and especially for fibrous materials. The edge is surprisingly durable yet can be resharpened quickly whenever necessary. Commonly the edge can be resharpened in Stage 2 without the need to turn on the electrical power.

You will be pleased to see how easy the Hybrid® is to use and how well your knives perform. Read and follow the instruction carefully. Keep the sharpener close at hand so that you can enjoy the pleasure of sharp knives every day.

DESCRIPTION OF THE CHEF'SCHOICE HYBRID® DIAMOND HONE KNIFE SHARPENER

The Hybrid® has two sharpening Stages, a first sharpening Stage that is motor driven, followed by a honing Stage that is entirely manual in operation. The sharpening Stage 1 is motor driven, has two slots (the two slots on the left) to sharpen alternately the left and right side of the blade's edge. Always follow an alternating pattern of sharpening in right and left slots when using Stage 1. This dual-slot stage quickly establishes a sharp edge that is then honed and finished in the manual second stage which uses only a single slot (far right slot) that hones both sides of the edge simultaneously.

USING THE HYBRID® SHARPENER

Note: *Always clean your knife before sharpening in the Hybrid®! For your safety, keep your fingers clear of the blade edge at all times.*

You will find that the Hybrid® can create and maintain an exceedingly sharp and effective edge on all your conventional fine edge and serrated cutlery. The primary edge facets are each formed in Stage 1 at a nominal 20 degrees on each side of the edge, which results in a total primary edge of 40 degrees. Stage 2 creates a second bevel at a slightly larger angle leaving a strong double beveled edge structure that will stay sharp longer. Always use the sharpener with the stage numbers 1 and 2, facing you.

STAGE 1

To sharpen, place the sharpener on the table gripping it securely with your left hand. Push on the power switch. Insert the knife blade, Figure 1, near its handle, into the far left slot of Stage #1 and allow the left face of the blade to rest on the left face of the slot as you pull the knife toward you. The knife edge should be in sustained moving contact with the internal diamond coated disk. Only light downward force will be necessary as you pull the blade toward you. Listen carefully to insure your knife maintains good contact with the diamond disk. Take about 5 seconds to make each pull if you have a six inch (6") long blade. Increase the time of each pull for longer blades or decrease the time for shorter blades.

Make one pull of the blade in the left slot as described above and then repeat the same procedure in the adjacent (right) slot of Stage 1. As you pull the knife thru the right slot, (see Figure 3), allow the right side of the knife to rest on the right face of the slot. If your knife, before sharpening, is not very dull you will find that only about 5 pairs of pulls, alternating in the left and right slots of Stage 1, will be sufficient to put a keen edge on the blade. However, if the knife is initially very dull you may find that 10 or more alternating pairs of pulls in the left and right slots of Stage 1 will be needed the first time as you reshape and sharpen the old edge. In Stage 1 always pull the blade toward you. Never push the blade away from you when using Stage 1. Before leaving Stage 1 it is important to examine the knife edge to insure there is a small burr along one side of the edge.

Figure 2 illustrates how to check for the burr. Proceed as follows: If your last sharpening pull was in the right slot there should be a small burr on the right side of the blade edge. If the last pull was in the left slot there should be a small burr along the left side of the edge. If there is no burr make another pair of pulls and again check for a burr. Repeat making pairs of



Figure 1. Inserting the blade in the left slot of the Stage 1. Alternate individual pulls in left and right slots.

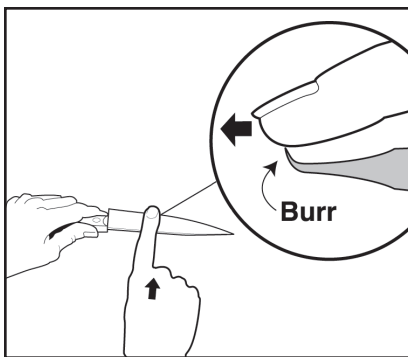


Figure 2. Develop a distinct burr along knife edge before honing in Stage 2. Burr can be detected by sliding finger across and away from the edge. Caution! See text.

alternating right and left pulls until you create a small burr along the edge. (Sometimes it is easier to create the burr if you pull the blade slower.) Make another single pull and confirm there is a burr along the edge after each pull. Only then are you ready to hone in Stage 2.

STAGE 2

Since Stage 2 is a manual honing stage you can turn off the power switch. If the knife is fully sharpened in Stage 1 only 4-5 back and forth strokes will be needed in the single slot of Stage 2 (the far right slot, see Figure 4) to hone a small second bevel along the edge which will be exceedingly sharp and effective. It should cut paper smoothly allowing you to make straight or curved cuts easily.

For optimum results in Stage 2 center the blade within the slot width and keep the length of the blade aligned with the center line of the slot as you move the blade back and forth in the slot without lifting. Apply only a light downward pressure, about 3-4 pounds, on the blade as you sharpen in Stage 2. For optimum results make smooth consistent strokes while maintaining the light downward pressure to insure that the two disks rotate as you move the blade back and forth. The finished edge will be very sharp and burr free.

RESHARPENING THE KNIFE EDGE

To resharpen follow the procedure for Stage 2 described above, making two to three (2-3) complete back and forth stroke pairs while maintaining recommended downward pressure. Listen to confirm the sharpening disks are turning. Then test the edge for sharpness. If necessary resharpen again but first use Stage 1 followed by two to three (2-3) back and forth pairs of strokes in Stage 2. Generally you should be able to resharpen several times using only Stage 2 before having to resharpen in Stage 1.



Figure 3. Inserting the blade in the right slot of Stage 1. Alternate pulls in left and right slots.



Figure 4. Knife in Stage 2. Use back and forth sharpening strokes with modest downward pressure. See text.

SERRATED BLADES

Serrated blades can be sharpened in Stage 2 (see Figure 5). Center the blade in the slot of Stage 2 and make five (5) back and forth pairs of strokes. Examine the edge and if necessary make another 5 full stroke pairs. Test the blade for sharpness. If the blade to be sharpened is very dull, first make two fast but full pairs of pulls — alternating right and left slots in Stage 1 and then make five (5) paired strokes (back and forth) in Stage 2. Because of its nature, a serrated knife will not ever appear as sharp or cut as smoothly as a straight edged blade. Caution: Do not make many strokes in Stage 1, or you will remove too much metal from the teeth of the serrated edge.

ASIAN BLADES

The Hybrid® which sharpens at a primary angle of 20 degrees, can sharpen double faceted Asian blades such as the Santoku which is traditionally sharpened at 15°. However, for optimum results with all Asian blades we recommend a 15° sharpener such as the Chef'sChoice® Electric Models 15XV or 1520 as the preferred choice for all Asian style blades.

Do not sharpen in the Hybrid® any single sided, single faceted Asian Kataba knives, such as the traditional sashimi styled blade that is commonly used to prepare ultra thin sashimi. Stage 2 sharpens simultaneously both sides of the cutting edge while the sashimi knives are designed to be sharpened only on one side of the blade. The Chef'sChoice electric sharpeners listed in the previous paragraph will correctly sharpen these single sided knives.



Figure 5. Serrated knife in Stage 2.

CERAMIC KNIVES

The Hybrid® is not recommended for ceramic knives.

SCISSORS

Do not attempt to use the Hybrid® to sharpen scissors. EdgeCraft does manufacture special sharpeners designed just for scissors.

BRANDS OF KNIVES

The Hybrid® will put an excellent edge on all conventional metal Euro/American and Santoku style knives regardless of brands, including Henckels, Wüsthof, Sabatier, Lamson and Goodnow, Global, Russell Harrington, Forshner, Chef'sChoice, Messermeister, Mundial, Cuisinart, Kitchen Aid, Shun and many, many more.

TEST FOR SHARPNESS

To test for sharpness and cutting ability of your fine edge knives, hold a sheet of paper vertically by its upper edge and carefully cut down through the sheet a small (but safe) distance from your fingers. A sharp edge (on a straight edge blade) will cut smoothly without tearing the paper.

Alternatively try cutting a tomato. The knife should penetrate the skin of the tomato and cut through it on the first pull without applying significant force to the knife.

MAINTENANCE

- The exterior of the Hybrid® can be cleaned with a damp soft cloth.
- Periodically shake out and dispose of the metal sharpening dust by inverting the sharpener and lightly tapping it onto a newspaper, paper towel, or other paper sheet.
- No oils or other lubricating liquids are necessary with this sharpener.

EdgeCraft

World Leader in Cutting Edge Technology®

EdgeCraft Corporation

**825 Southwood Road, Avondale, PA 19311 U.S.A.
Customer Service (800) 342-3255 or 610-268-0500**

Assembled in the U.S.A.

www.chefschoice.com

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Conforms to UL Std. 982

Certified to CAN/CSA Std. E60335-1/4E

Certified to EN 60335-1, EN 60335-2-14

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2011-51

Printed in China.

C228200