

Special Notes or Requirements

Read the entire instruction sheet before using this tool.

Safety Notes:

- The blades on the bottom of this tool are sharp and can cause serious damage or injury. Never let the bottom cutting edge of the tool come in contact with the skin.
- Always use eye protection when using this tool.
- Always replace the protective sheath when finished with the tool to prevent damage or injury.

Overview and Identification

There are two Clean Cut hole cutters designed to remove the plastic plug in the BAPI-Box (BB), BAPI-Box 2 (BB2) or BAPI-Box 4 (BB4) enclosures. The ½" NPSM threaded ports of the BB and BB2 polycarbonate enclosures use the BA/CLN-CUT-50 (Fig 1) while the BB4 uses the BA/CLN-CUT4-50 (Fig 2) for plastic knockout applications. Both have hex shafts for use with any drill and a notch for quick disconnect adaptors. The Clean Cut makes removing the plastic plug easy and fast and produces a full-size professional-looking hole. A built-in stop prevents the tool from pushing through and possibly damaging sensitive electronics within the box. The stainless steel construction keeps its edge and lasts for many hundreds of operations. If necessary, the tool can be sharpened with a hand grinder or file.

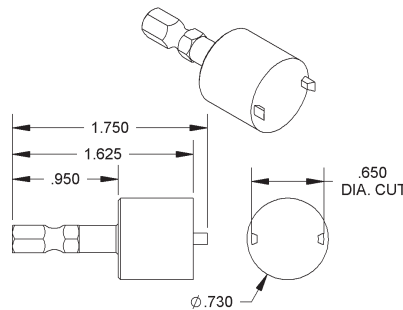


Fig 1. BA/CLN-CUT-50

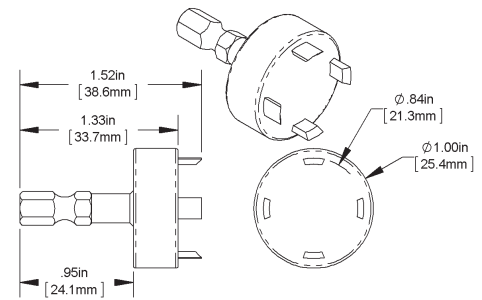


Fig 2. BA/CLN-CUT4-50

Operating Instructions (Read all instructions before using the Clean Cut tool)**Use of BA/CLN-CUT-50 for BAPI-Box and BAPI-Box 2 Enclosures**

1. Use eye protection.
2. Insert the cutting tool into the drill and remove the protective sheath.
3. Clear any loose wires away from the port hole.
4. Place the bit into the ½" port of the BAPI-Box or BAPI-Box 2 just short of making contact with the cutting blades.
5. Start the drill at medium speed and slowly touch the blades to the plastic plug.
6. Maintain even pressure on the bit until the plug is cut through. Note: The built-in stop will prevent the blades from going completely into the box causing internal component damage.
7. Stop the drill so as not to damage the ½" NPSM threads and remove the bit.
8. Clean the plastic shavings and plug from the box. Replace the protective sheath on the Clean Cut.

Use of BA/CLN-CUT4-50 for BAPI-Box 4 Enclosures

1. Use eye protection.
2. Insert the cutting tool into the drill and remove the protective sheath.
3. Clear any loose wires away from the port hole to be cut.
4. Place the bit so the cutting blades (4) engage the plastic channel of the BB4.
5. Start the drill at slow speed and slowly tilt the drill and rotate the bit around the center shaft to ream the plastic out of the channel.
6. Maintain even pressure on the bit while swiveling until the plug is cut through. Note: The built-in stop will prevent the blades from going completely into the box causing internal component damage.
7. Stop the drill and remove the bit.
8. Clean the plastic shavings and plug from the box. Replace the protective sheath on the Clean Cut.

Specifications subject to change without notice.



Maintenance

Symptom and Solution

If the bit starts to burn the plastic instead of cutting smoothly, the tool needs to be sharpened.

1. Place the tool into a vice and remove the protective sheath.
2. Make sure the teeth are present and that they are about 1/8". If either tooth is shorter than 3/32", then replace the tool. If they are >3/32" then go to step 3 to sharpen the tool.
3. Using eye protection, take a file or hand grinder to the side edges of each tooth until the side and point of the blades are sharp.
4. Replace the protective sheath and remove from the vice.

If the bit starts to wobble, the shaft is bent. Replace the tool.

Specifications

Material 316 Stainless Steel

Outer Diameter

BA/CLN-CUT-50 Smooth 0.73" (18.5mm)

BA/CLN-CUT4-50 Smooth 1.00" (25.4mm)

Cutting Blades

BA/CLN-CUT-50 0.125" (3.175mm) long, 0.05" (1.27mm) wide

BA/CLN-CUT4-50 0.2" (5.1mm) long, 0.18" (4.5mm) wide

Hole Cut

BA/CLN-CUT-50 0.65" (16.51mm)

BA/CLN-CUT4-50 0.84" (21.3mm)

Rim Stop 0.04" (1mm), in from edge

Shaft Stem 0.95" (24.1mm) long with quick disconnect shaft

Drill Chuck Quarter inch Hex

Sharpening Hand grinder or file, (As needed)

Weight: 0.11lb (50.0g)

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