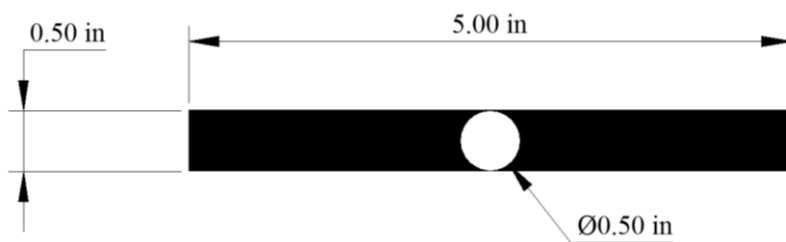# Drilling a ½ Inch Hole in a ½ Inch Bar, Version 1.0

By R. G. Sparber

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Here is the challenge:

Drill a ½ inch diameter hole in a bar ½ inch wide without severing the bar.

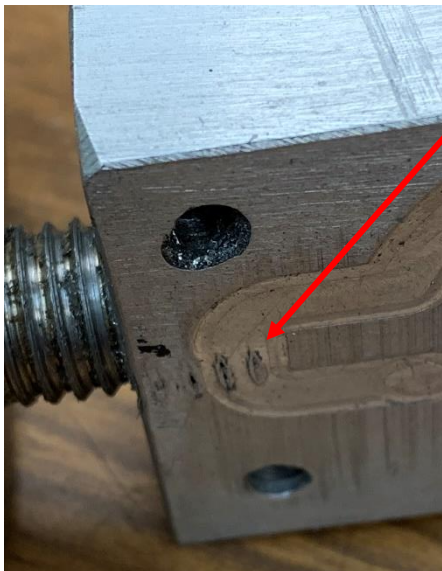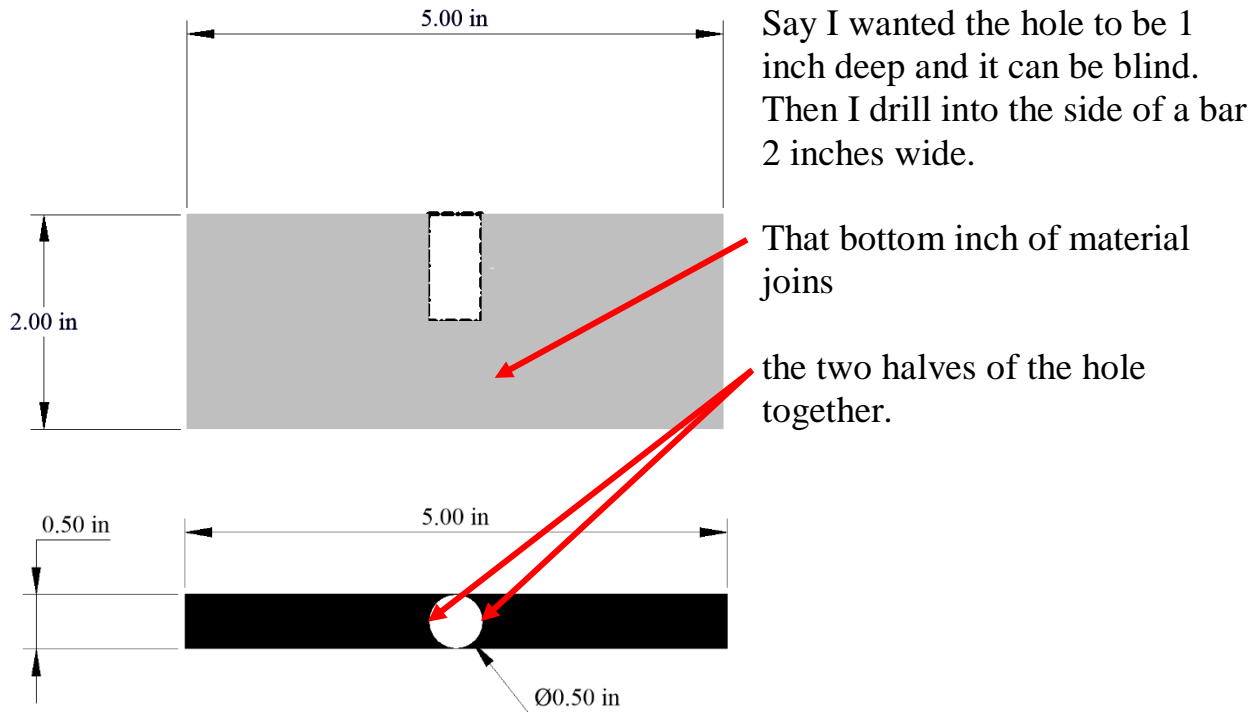Yes, it can be done. And recently I had this task to perform on one of my designs.

Hint: If you can't solve the problem, change the problem.

My solution:

Notice that I specified the diameter of the hole but not its depth.

5.00 in

2.00 in

0.50 in

5.00 in

Ø0.50 in

Say I wanted the hole to be 1 inch deep and it can be blind. Then I drill into the side of a bar 2 inches wide.

That bottom inch of material joins

the two halves of the hole together.

Here is the actual application. I was drilling and tapping ½-13 into a block ½ inch thick.
You can see where the tap has cut through the face of the block. Yet in this light duty application, the aluminum block is solidly attached to the stud.

I welcome your comments and questions.

If you wish to be contacted each time I publish an article, email me with just "Article Alias" in the subject line.

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