

This method is used when processing a part that has 2 cutting surfaces and uses a base material, or sacrificial base material, to assist on 2 sided part alignment. The sacrificial base material protects the machines aluminum table as well as providing a location for drilling and placing the pins during the "flipping" process.

Materials Required:

- 1. Base material such as particle board, wood, high density sanmodur, or similar product.
- 2. 4 large pins. 0.250" recommended.
- 3. 1 drill, or mill, for above mentioned pins.
- 4. Double sided tape.

Double sided tape, alignment pins, and end mill/drill.







Sacrificial base material securely mounted on top of machines table.

Top surface of sacrificial base can be drilled several times before being changed or surfaced.



Place material stock securely on sacrificial base material using double sided tape.





Set Z zero.

Begin milling material stock.





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New Process

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🔲 🧉 Drilling			

Milled, top surface.

Using MODELA Player 4 software, click on the "New Process" button to add drilling locations.

Select "Drilling" process and click "Next". Also select appropriate cutting surface and drill size.



Click "New" button to add drilling positions.





depth. Click "New" button to add more drilling hole locations.

Enter X, Y, positions and

Please note when selecting location of holes, it is very important to locate the holes the same distance away from the center of the part, or axis of part rotation.





Change mills if necessary, and begin drilling holes in material





Remove milled material and set Z zero on sacrificial base material.

Drill holes into sacrificial base material.



Add pins to sacrificial base material.







Align dilled holes with pins and carefully place milled material on top of pins. For extra rigidity, use double sided tape between board and material.

Change mills if necessary and set Z zero on milled material stock.







Continue cutting.

Finished, milled, 2 sided part.