

Groups	Needs	Priority (1-5)
Usability	The jig will be easy to use	2
	The jig is quick to set up	2
Functionality	The jig is portable	3
	The jig can stabilize the drill	5
	The jig will not cause damage to the door	4
	The jig can attach to the door by itself	5
	The jig has adjustable hole placement	5
Materials	The jig is durable	4
	The jig is lightweight	1

Name	The Original Carey Template Hinge Mortising System	Wooden Door Hinge Jig Lock Guide Plate Router Bit Woodworking Slotting Locator	Milescraft DrillMate Handheld Benchtop Drill Press
Company	Lee Valley Tools	DUEBEL	Milescraft
Cost (\$)	82.5	75.99	54.99 (plus tax)
Hinge size	2 ½" to 4 ½"	34.3x 20.1x 0.3 cm	
material	ABS templates and aluminum rails	aluminum	Alloy Steel
stability	only vertical	fast clamp vertical/ horizontal	Non-slip TPE feet prevent slipping and damage on the work surface, that can be removed to mount with screws when needed.
usable in different situations	design for a standard 6'8" door/ adjustable for taller or shorter doors	maximum opening width 7.9in/ adjustable	Unable to mount horizontally. Does not allow for the movement of the drill easily
quick setup	yes	yes	Depends on the type of use. For the purpose of drilling multiple holes in a heavy door, is very slow.

**Problem Statement:**

A jig is needed to assist a worker in the drilling and tapping stage of the door-making process, the jig will have the ability to stabilize the drill, accommodate different hole placements, and be easy to use all while not damaging the door.