

Need Identification and Problem Statement

Customer: AMBICO

User: Door-making labourer at AMBICO's manufacturing location

	User Statement	Interpreted Need
Typical Uses	I need a jig that can precisely and efficiently route out the cutout for the flush bolts.	The jig can be easily placed and used.
Likes-Current Tools	<ul style="list-style-type: none"> • I like when it is durable. • I like when it is reusable. • I like when it is easy to use. • I like its intuitive design. • I like when it is cheap. 	<ul style="list-style-type: none"> • The jig can resist day to day wear and tear. • The jig can be reused. • The jig is easy to use. • The jig is easy to learn. • The jig is low cost.
Dislikes-Current Tools	<ul style="list-style-type: none"> • I dislike that it may provide inaccurate measurements. • I dislike that the process is not efficient. • I do not like that it does not stay on the door. • I dislike how time-consuming the back set measurements are. 	<ul style="list-style-type: none"> • The jig has an accurate measurement. • The jig is quick to use. • The jig can stay on the door. • The process is automated.
Suggested Improvements	<ul style="list-style-type: none"> • It is better if the jig is adjustable. 	<ul style="list-style-type: none"> • The jig is adjustable to different door thicknesses during the measuring process.

Number	Need	Importance (5 is highest)
1	The router is durable and reusable	3
2	The router is intuitive and easy to use/learn and adjustable	4
3	The router is accurate and precise	5
4	The router is consistent and efficient	5

5	The jig can stay on the door	4
6	The jig is low cost	3

AMBICO needs a more accurate way to route the cutout easily, consistently, and efficiently for their flush bolts when their labourers are constructing doors.

Similar products on the market do not offer the customization necessary for the doors AMBICO produces.

Questions:

What is the process for measuring for the placement of the jig?