

GNG 1103 Deliverable B

Group 3

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Question:	User Statement	Interpreted Need
Typical Uses:	I need to physically hold a jig steadily to trace out the flush bolt cutout	The jig can be auto centered without manually hold
Likes – Current Tools:	I like that the jig lasts long	The jig is long lasting and durable
Dislikes – Current Tools:	I don't like that the jig needs to be held as it is prone to human error	The jig should have an easy-to-use fastening device.
	I don't like that the jig is hard to use	The jig is simple use
	The jig is slow to use	The jig is faster to use
	Measuring the backset is very time consuming	The jig is more reliable, no need to re-measure
Suggested Improvements:	It would be better if it was easy to use	The jig is user-friendly, and its settings are easily manipulated
	It would be good if the jig doesn't damage the door	The Jig can interact with door without damage
	It would be better if it is faster to align	The jig can be set up in its intended position in a timely manner
	It would be better if the jig could measure the backset	The jig has a measuring component to match the size of the backset according to thickness of the door
	It would be better if the jig could fit all the different door types	The Jig is adjustable
	It would be better if we could measure using the jig	The Jig implements some form of measurement device and aid.

Organize and Prioritize the Needs

Number	Need	Importance
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1	The jig is user-friendly, and its settings are easily manipulated	5
2	The Jig is faster to use	5
3	The Jig can interact with the door without damaging it	5
4	The Jig is adjustable	4
5	The jig should have an easy-to-use fastening device.	3
6	The Device is low cost	3
7	The jig has a measuring component to match the size of the backset according to thickness of the door	2
8	The jig is long lasting and durable	2

Problem Statement

A door manufacturing company needs an efficient flush bolt cutout process by means of a purpose-built jig that eliminates manual steadiness issues, increases ease of use and adaptability to different door specifications, doesn't damage the door, and reduces manufacturing time, all while adhering to specified budget constraints.

Benchmarking:

Specifications	Door Slayers Hinge Jig
Cost	\$108
Adjustable	Yes
Durable	60000+ uses
Fastening Device	Clamps
Measuring Component	No
Non-Damaging	No
User Friendly	Yes
Fast to Use	Moderately

Specifications	Importance (Weight)	Door Slayers Hinge Jig
Cost	3	2
Adjustable	4	3
Durable	2	3
Fastening Device	3	3
Measuring Component	2	1
Non-Damaging	5	1
User Friendly	5	3
Fast to Use	5	2
Total		65

