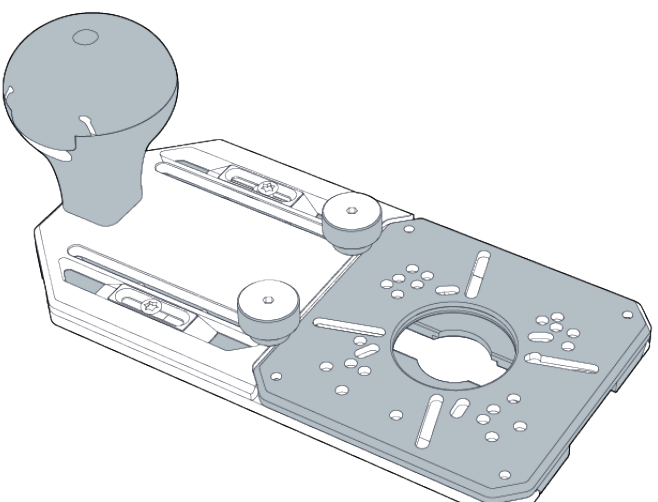
Multifunctional Trim Router Jig:
PIONEER_002

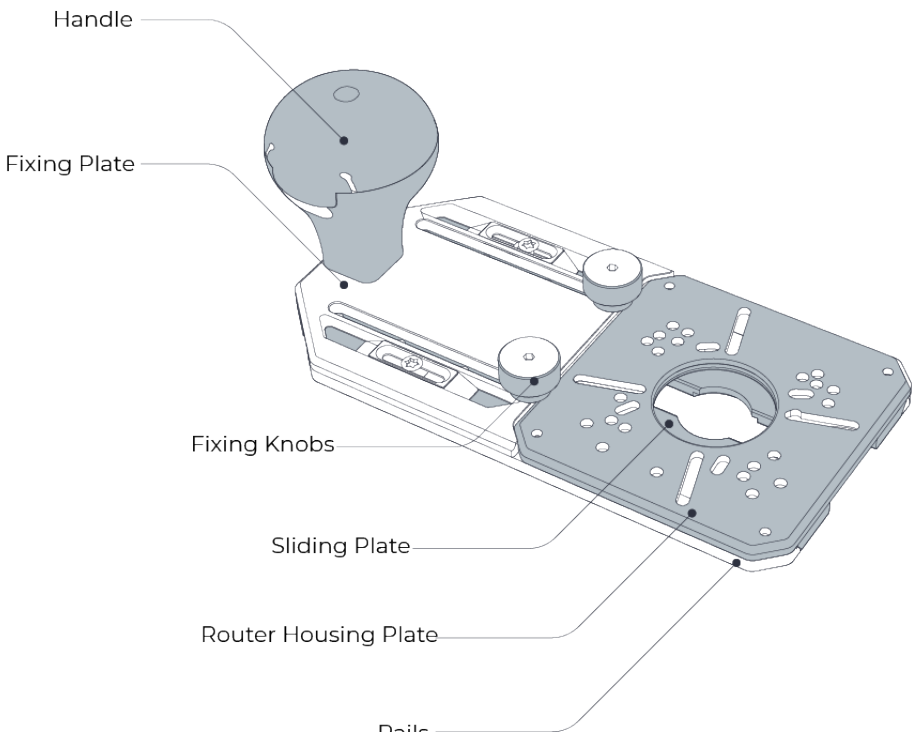
User manual

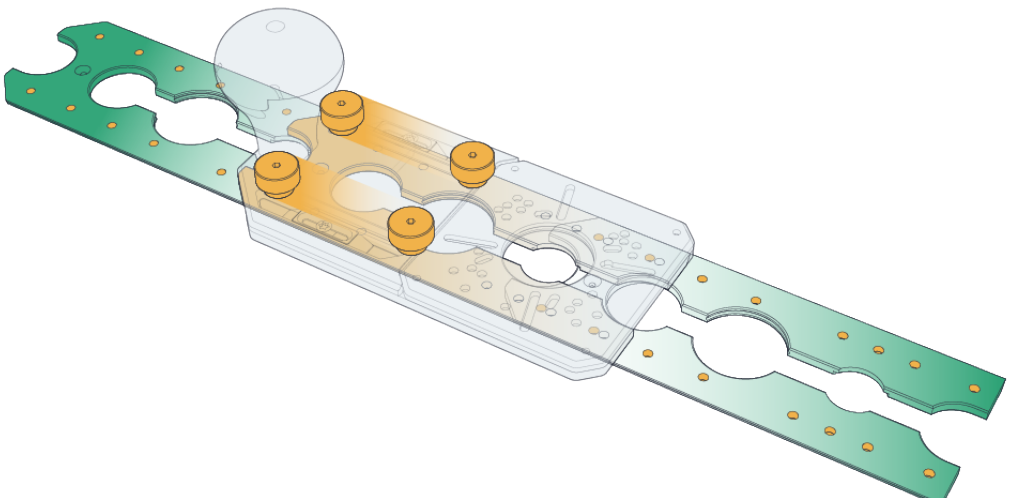


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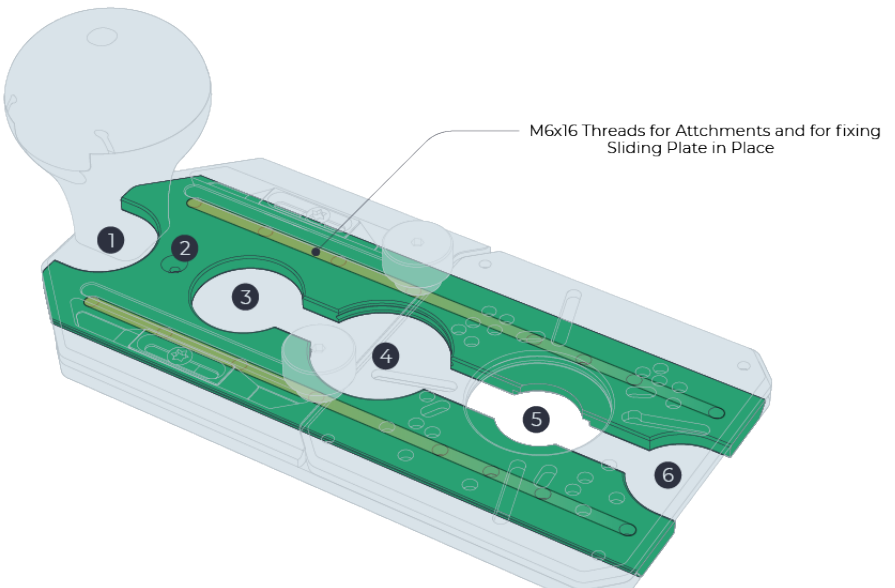




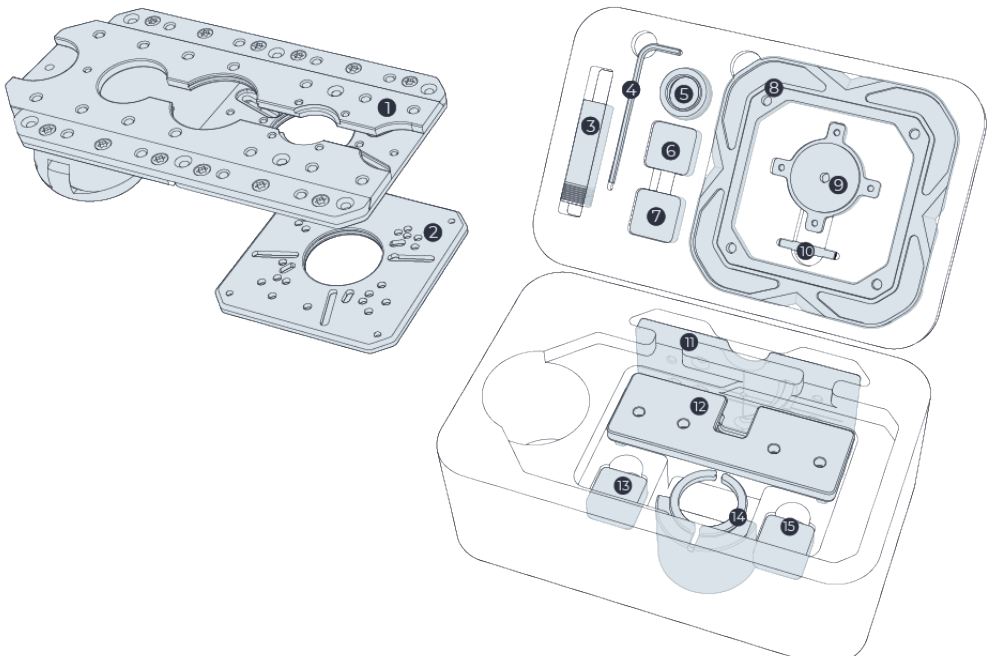
1.This jig is centered around the Sliding Plate, which moves along rails beneath the Router Housing.

2.It lets you switch functions and adjust their distance from the router bit.

3.The plate is secured at the desired position using two Fixing Knobs on the second top plate, which also has the handle.



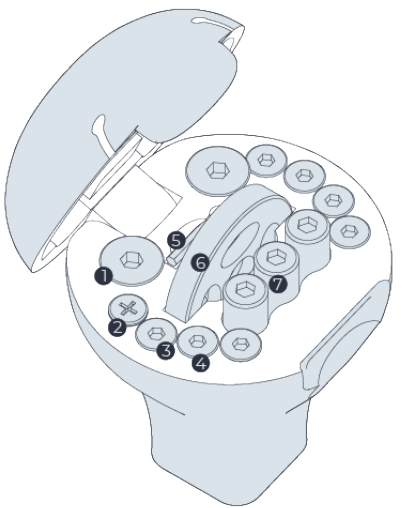
1.Safest Circle Cut
2.Smallest Circle Cut
3.Fixed Circle Cut
4.Vac Attachment
5.Bushing Opening
6.Safest Circle Cut



1.MTRJ-PIONEER
2.Trasnparent router attachment plate
3.Router bit
4.Allen key
5. Bushing

6.Router attachment screws-M4-12
7.Thread inserts for router table
8.Router table template
9.Centering jig
10.Centering pin

11.Edge Guide and Leveling Knobs x2
12.Rail Guide
13.Extra screws
14.Vac
15.Rail Guide Screws

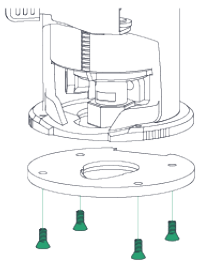


1.M6-15
2.M3-20
3.M4-20

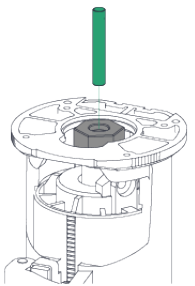
4.M4-10
5. Allen Key
6.Circle Center

7.Mortises Pin

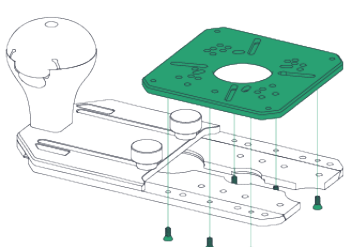
1.Remove the Subbase from the Router:
Disconnect the router from power and remove the subbase from the router.



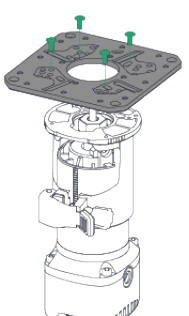
2.Place the Centering Pin in the Router:
Insert the centering pin into the router.



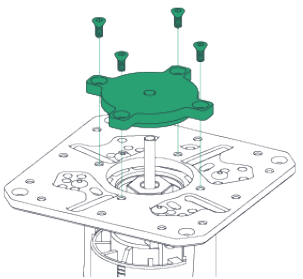
3.Remove the Housing Plate from the Jig:
Locate the housing plate on the jig and remove it by unscrewing the 6 bottom screws using an Allen key from the handle storage.



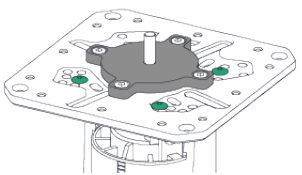
4.Attach the Housing Plate to the Router:
Refer to diagrams on included diagram to find the correct location for the housing plate on the router. Align the housing plate with the router and attach it using the appropriate holes.
Do not fully tighten the screws at this stage.



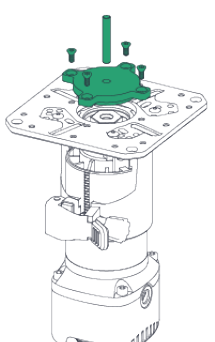
5.Attach the Centering Jig to the Housing Plate:
Securely attach the centering jig to the housing plate using the M4 screws previously removed from the housing plate.



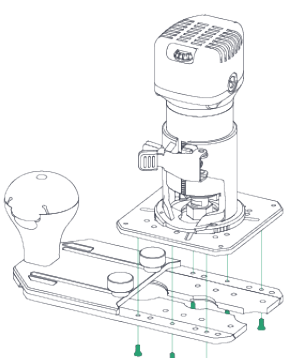
6.Fasten the Attaching Screws:
Securely fasten the attaching screws to ensure the centering jig is firmly attached to the housing plate.

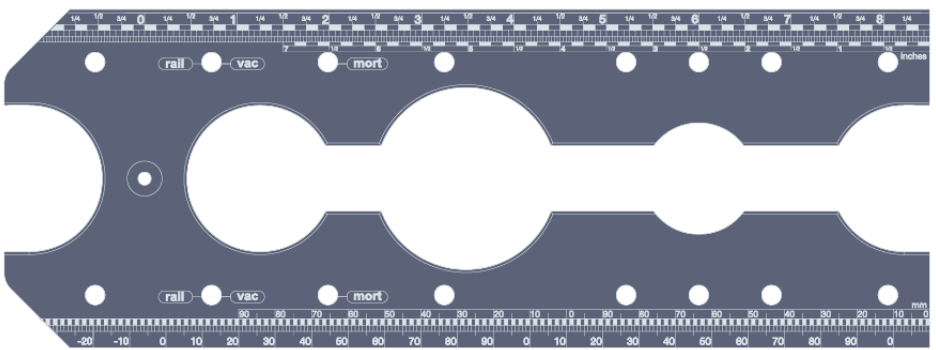


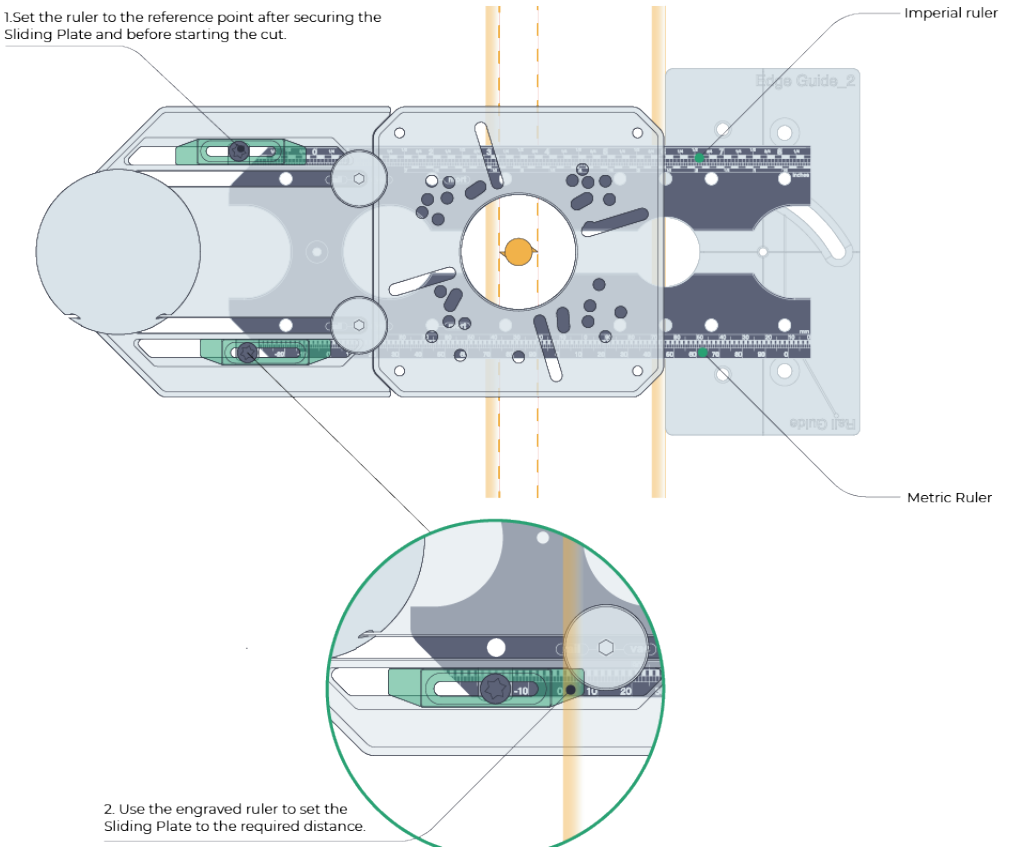
7.Remove the Centering Pin and Centering Jig:
Remove the centering pin and centering jig from the housing plate.

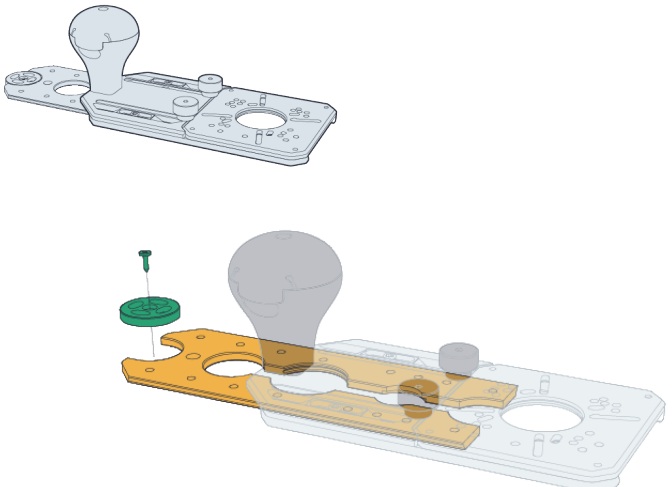


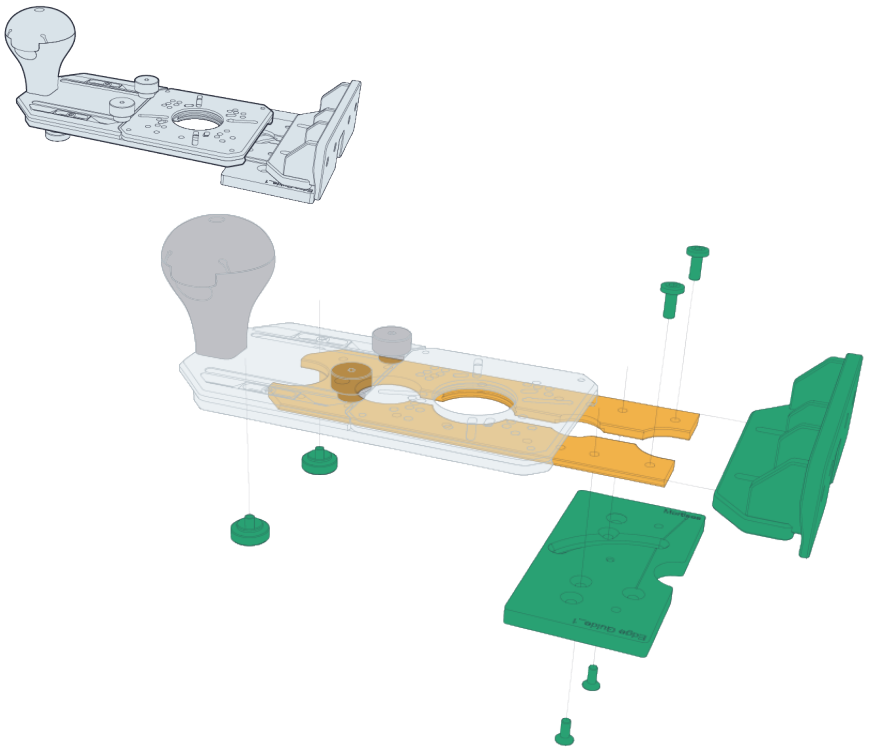
8.Reattach the Housing Plate to the Jig:
Put the housing plate back into its position on the jig Align the housing plate properly and securely fasten it to the jig using the screws.




rail
vac
mort
inches
rail
vac
mort
mm

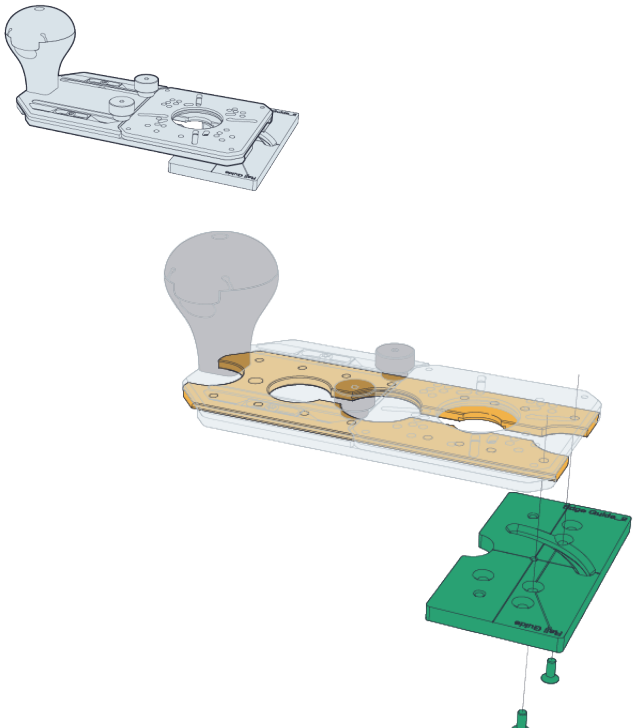

1.Set the ruler to the reference point after securing the Sliding Plate and before starting the cut.
Imperial ruler
Metric Ruler
2. Use the engraved ruler to set the Sliding Plate to the required distance.





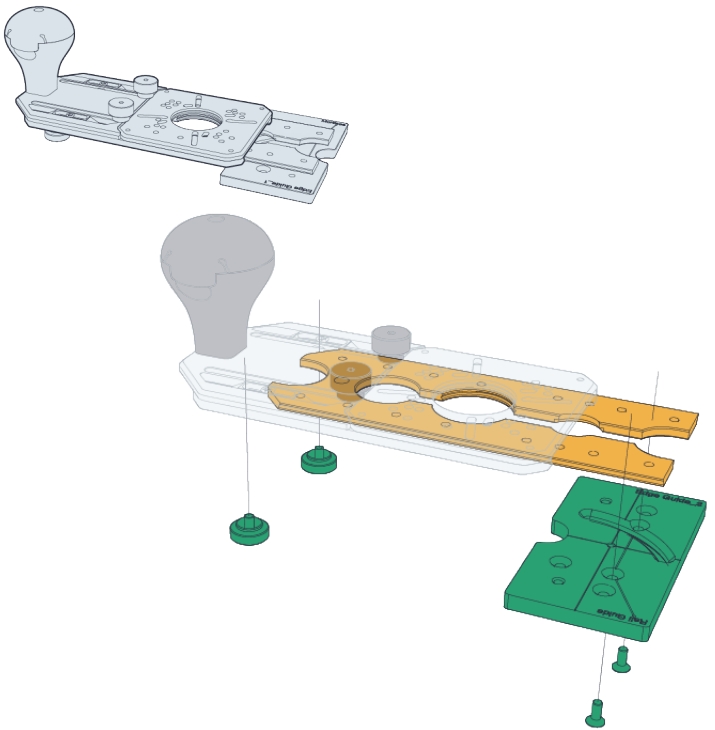
How to use Edge Guide?

42-51 pg



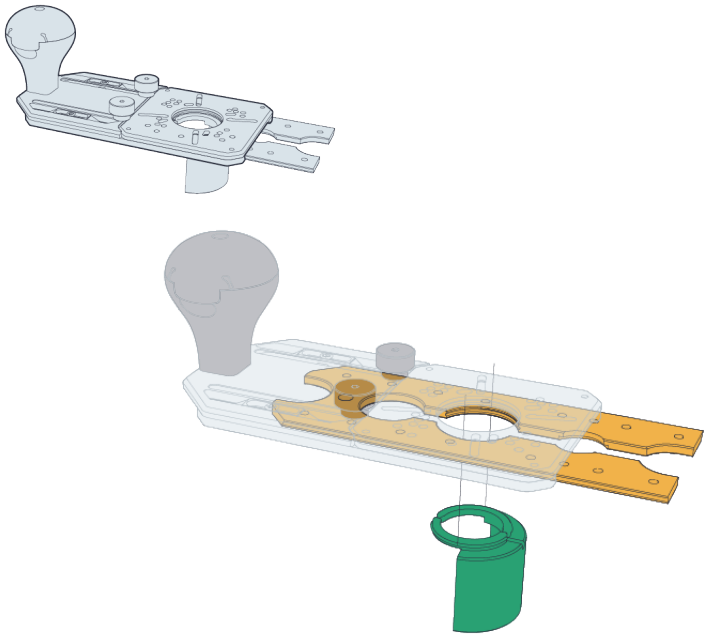
How to Flush Trim?

52-59 pg



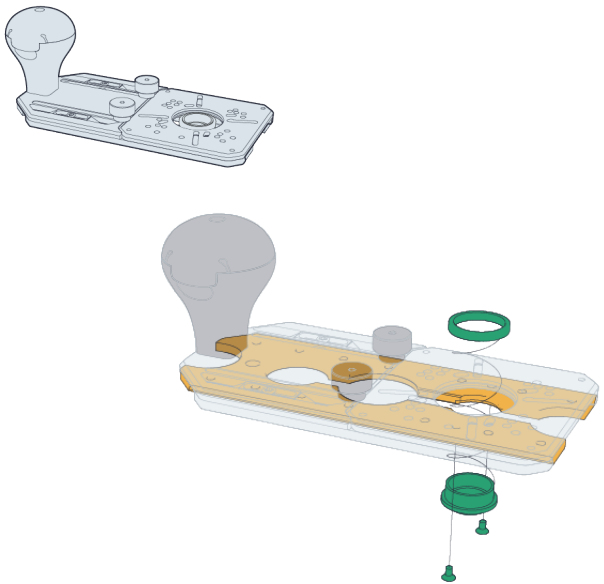
How to use Exhaust System?

60-63 pg



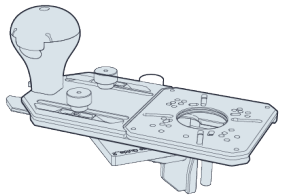
How to Attach Bushing?

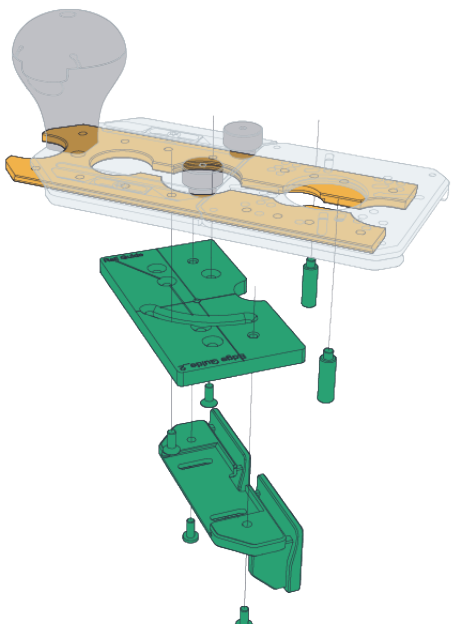
64-67 pg



How to cut Mortises?

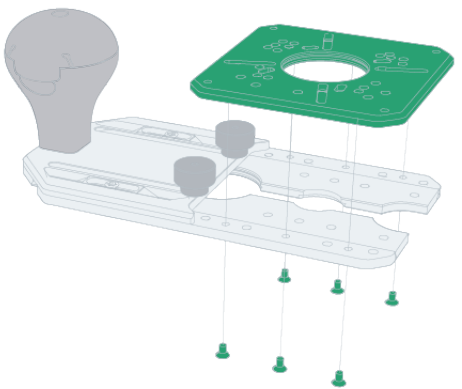
68-69 pg

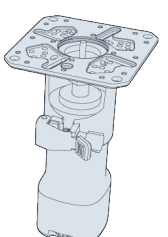


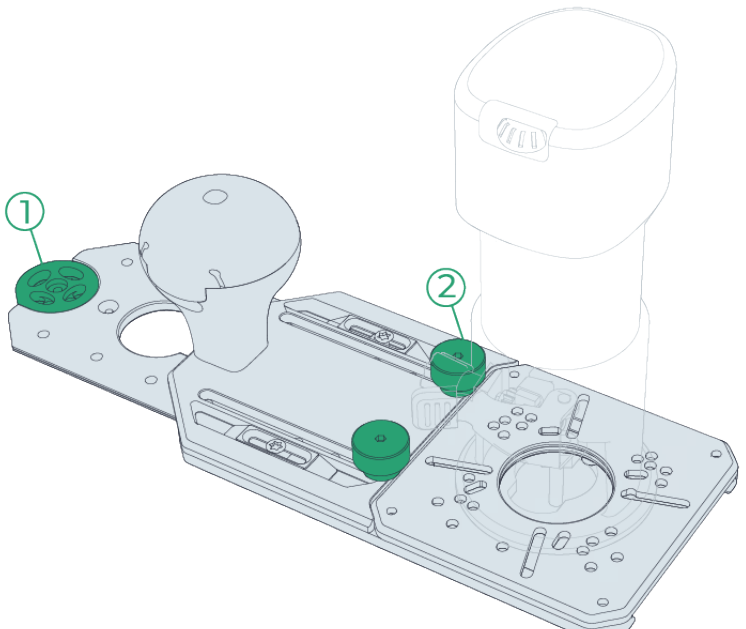


How to install Router table?

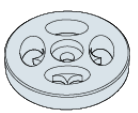
70-73 pg







Required Hardware

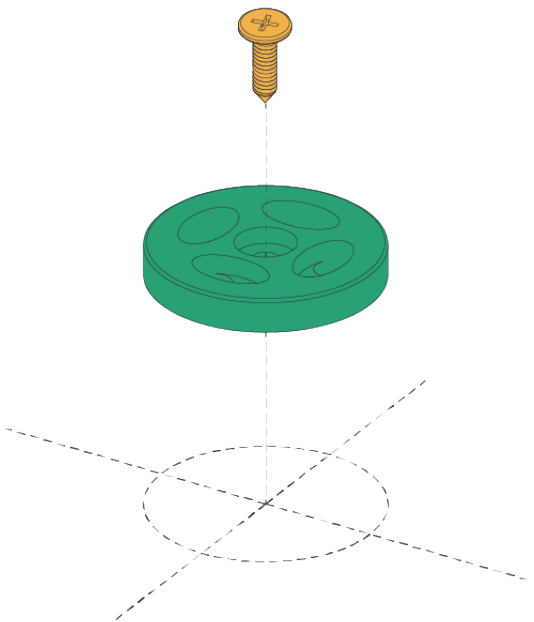


Circle Center



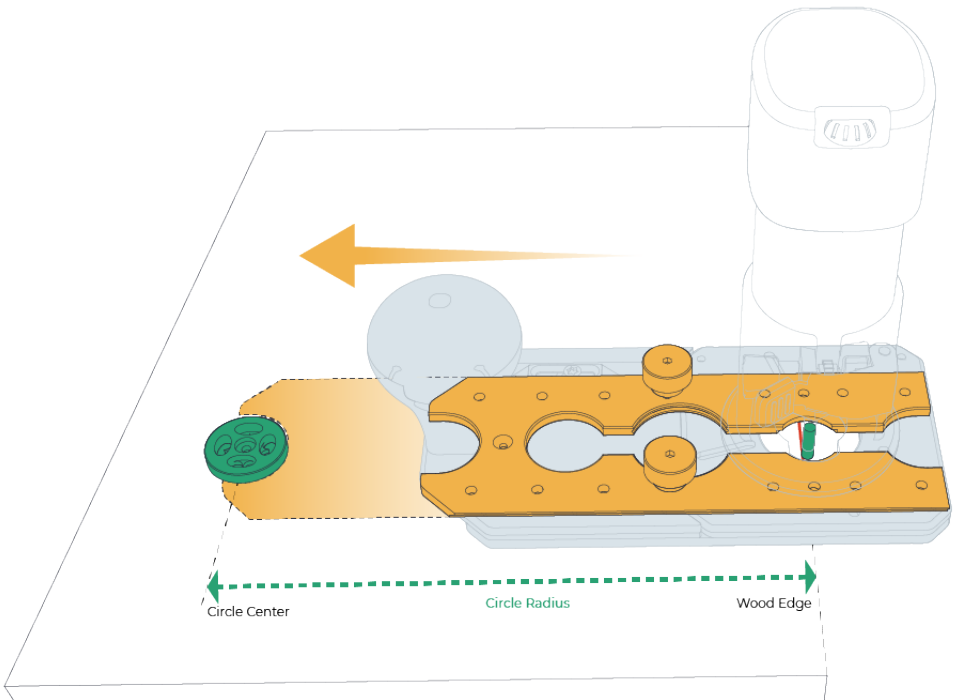
M3-16 Screw

Type 1: Safest



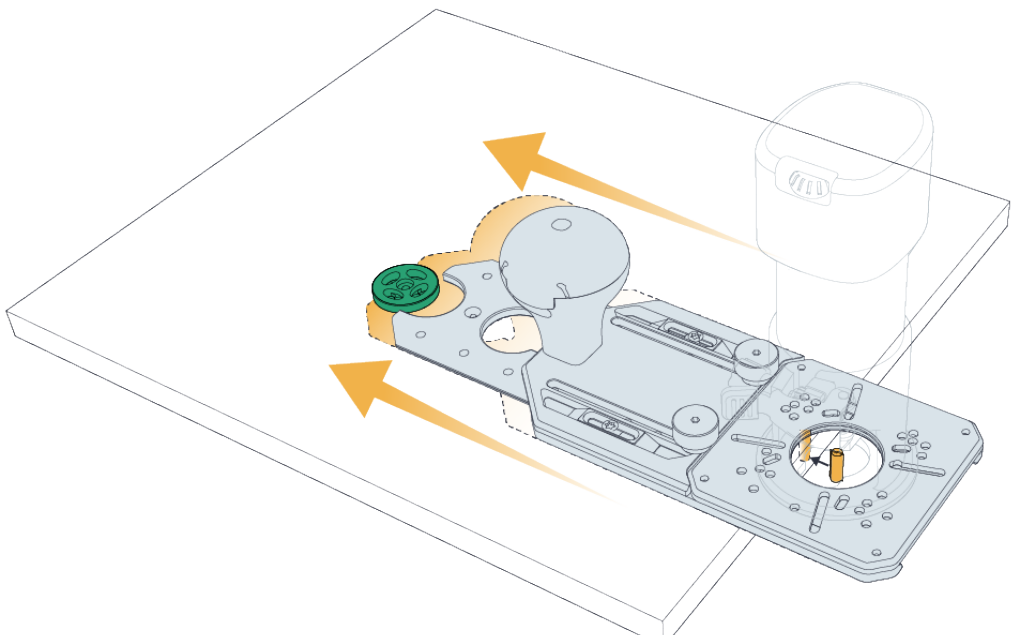
① Place the Circle Center in the middle of your wood piece and secure it using an M3-16 screw.

Cutting Circle



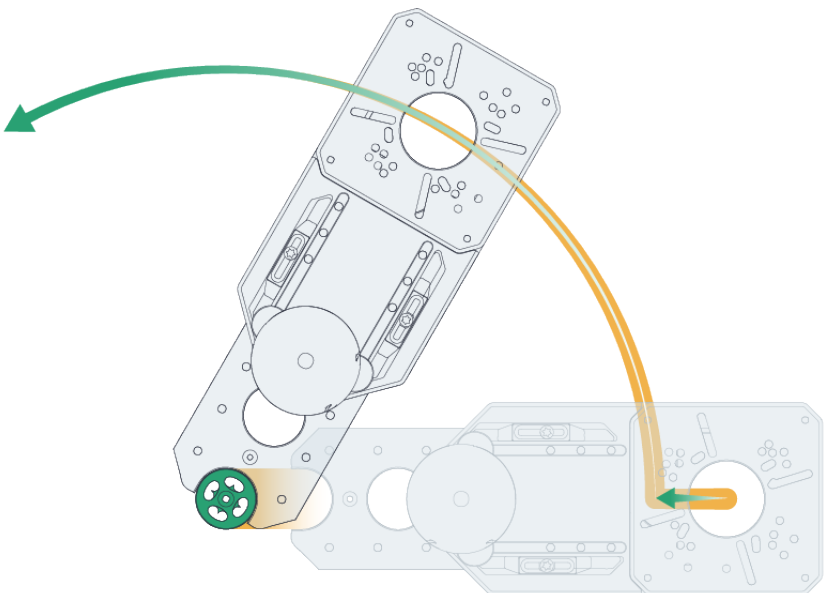
② Move the Fixing Knobs to the left and push the Sliding Plate to the right accordingly.

Type 1: Safest

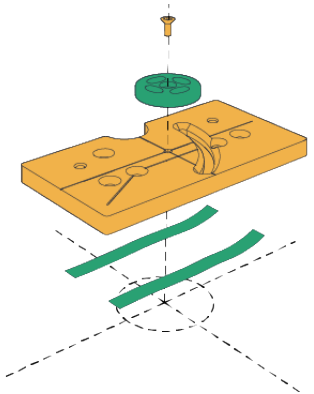


*Start your router outside of the wood piece, then guide it towards the Circle Center.

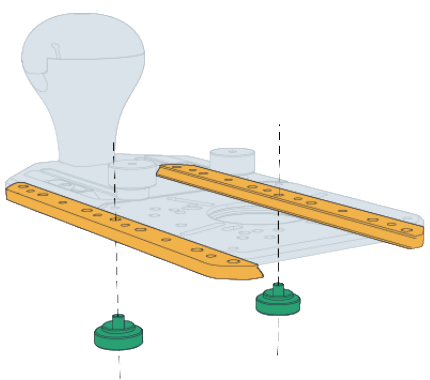
Trajectory of the cut:



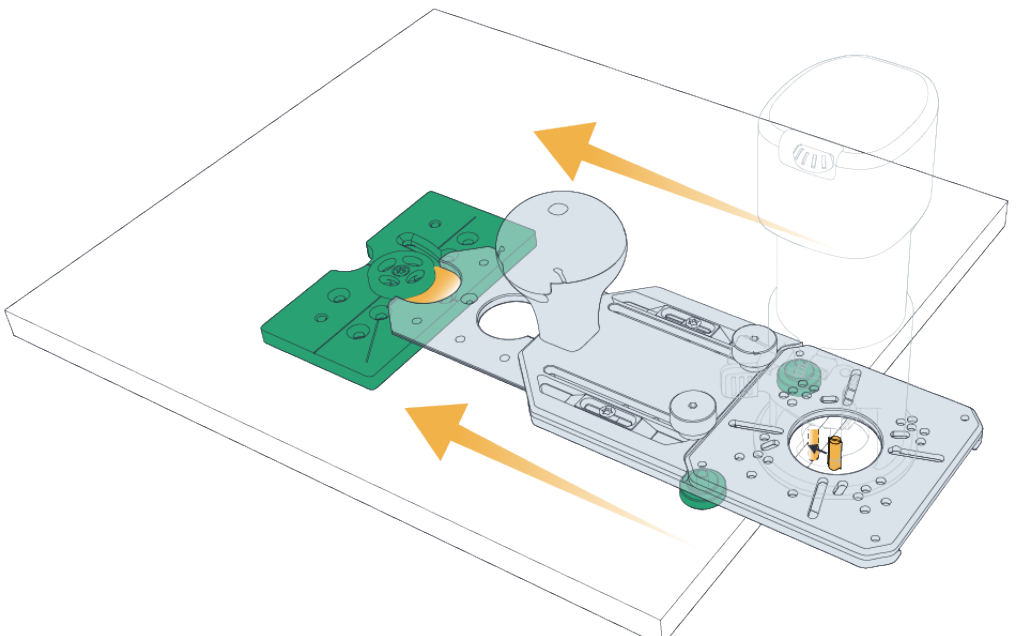
Type 1: No marks



1. Attach the Edge Guide to the wood piece using double-sided tape, and secure the Circle Center to the Edge Guide using M4-10 screws.

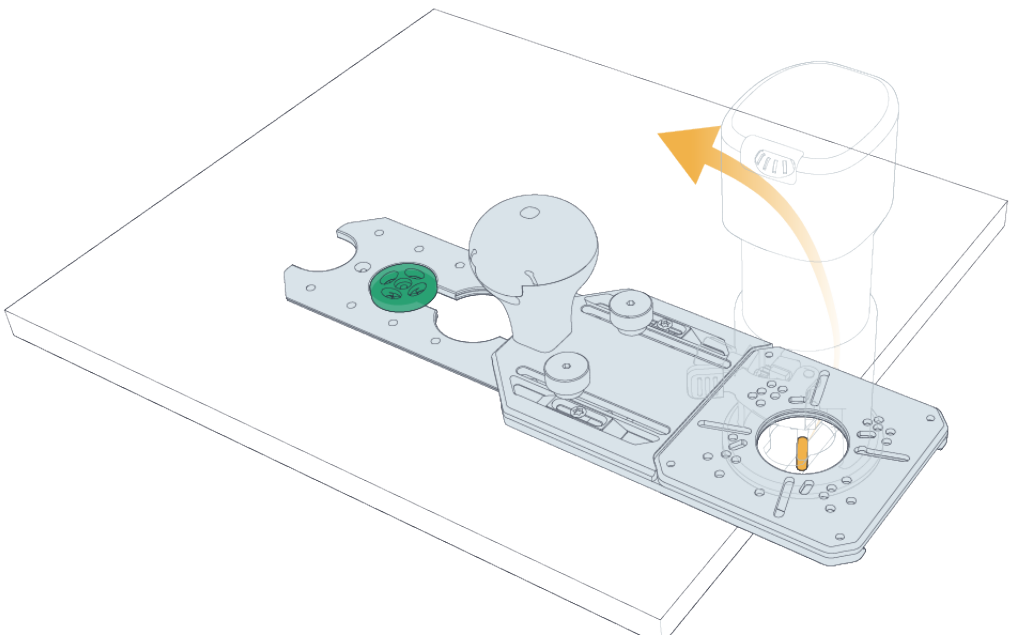


2. Attach the Leveling Knobs to the Jig (onto the Rails).



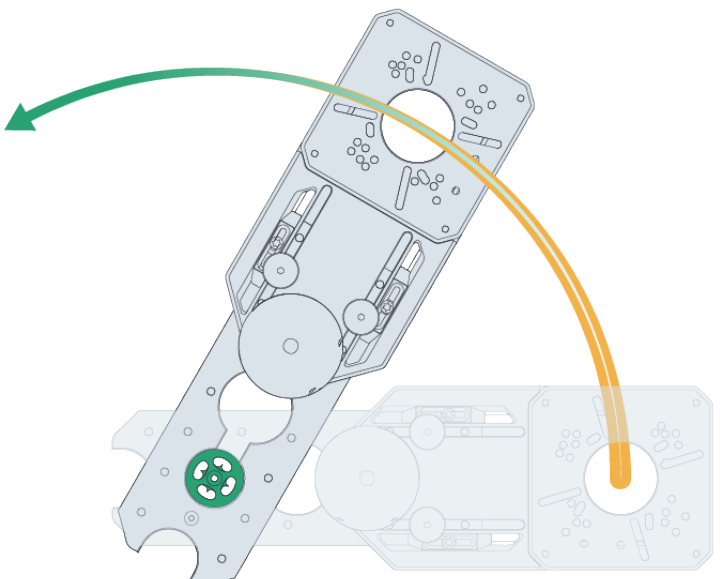
3. Start your router outside of the wood piece, then guide it towards the Circle Center.

Type 2: Fixed

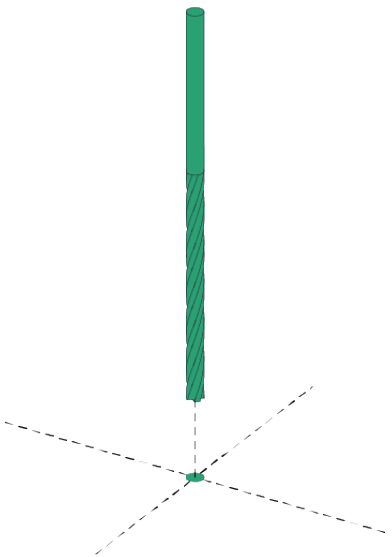


*Start your router and lower it onto the wood piece, then begin making the turn.

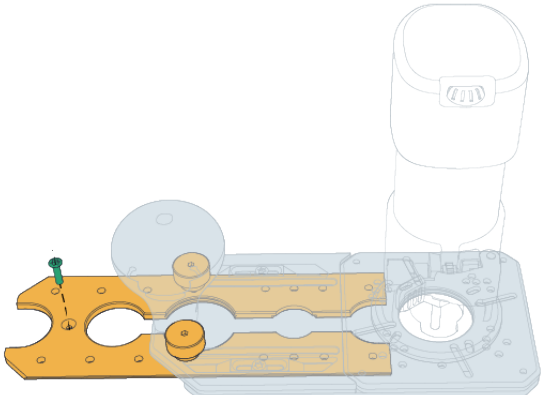
Trajectory of the cut:



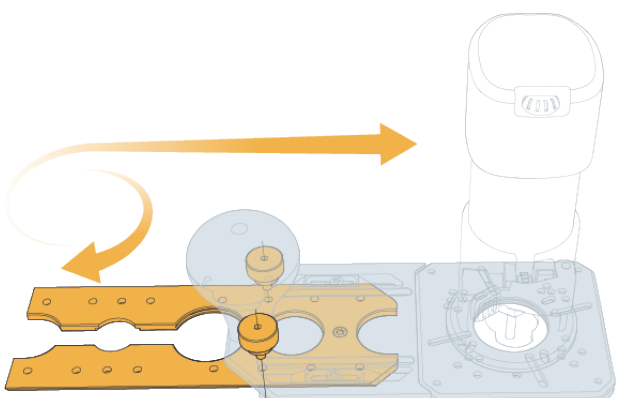
Type 3: Smallest Circle



1. Drill a hole in the center of the circle using a 4mm bit.

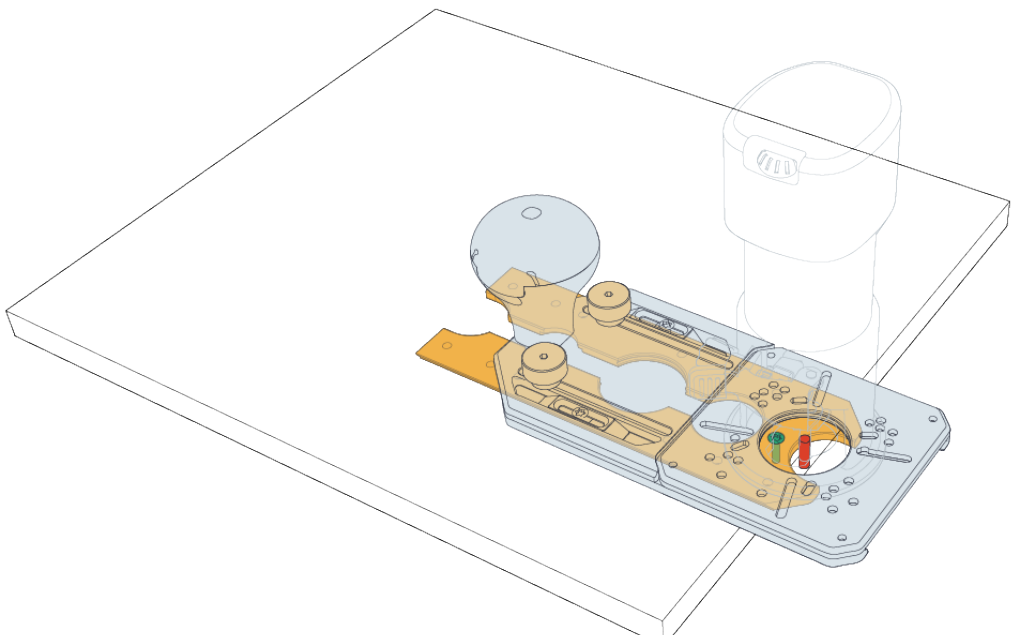


2. Attach the M4-16 screw to the Sliding Plate.



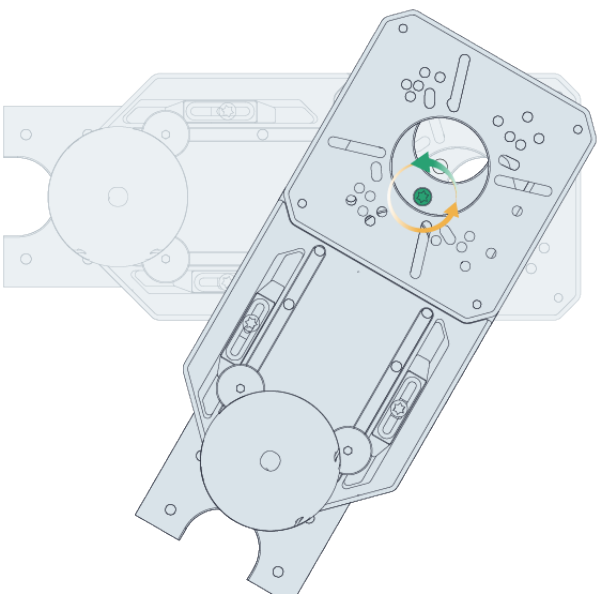
3.Rotate the Sliding Plate 180 degrees and slide it back.

Type 3: Smallest Circle

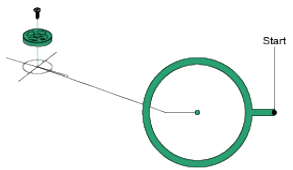


**Start your router, lower it onto the wood piece, and then begin making the turn.*

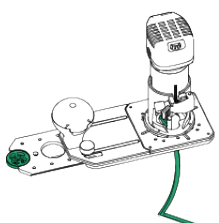
Trajectory of the cut:



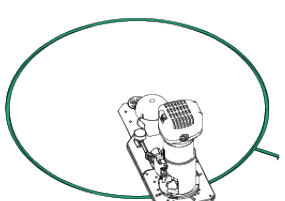
Type:1



Provides a dynamic and adjustable radius for cutting circles, allowing safe and controlled cutting operations.

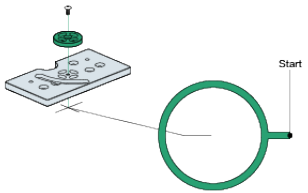


Starts on the outer circumference, ensuring a safe and clean cut for the outer circle.

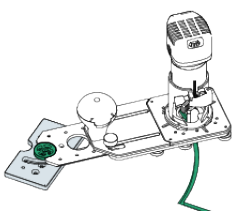


Leaves a router bit path in outer radius

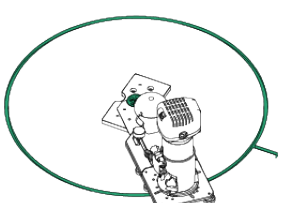
Type:1 (no marks left)



Provides a dynamic and adjustable radius for cutting circles, allowing safe and controlled cutting operations.

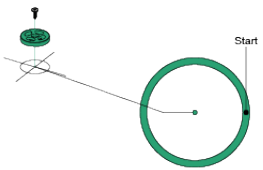


This type employs the same principle as Type 1, starting from theouter circumference to achieve a safe and clean cut for the inner circle.

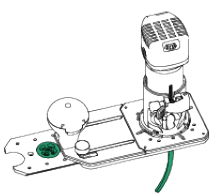


Leaves a router bit path in outer radius

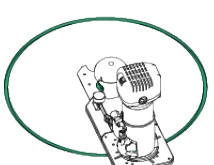
Type:2



Circles are cut with a predetermined and fixed radius. The router remains stationary, resulting in consistent circles with a set radius.

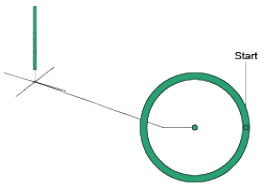


Starts by lowering the router at an angle at the circle's circumference

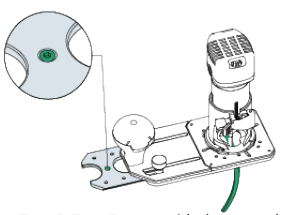


A small damge from the router bit at the start might appear

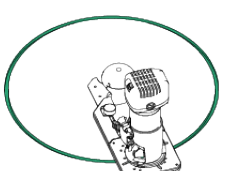
Type:3



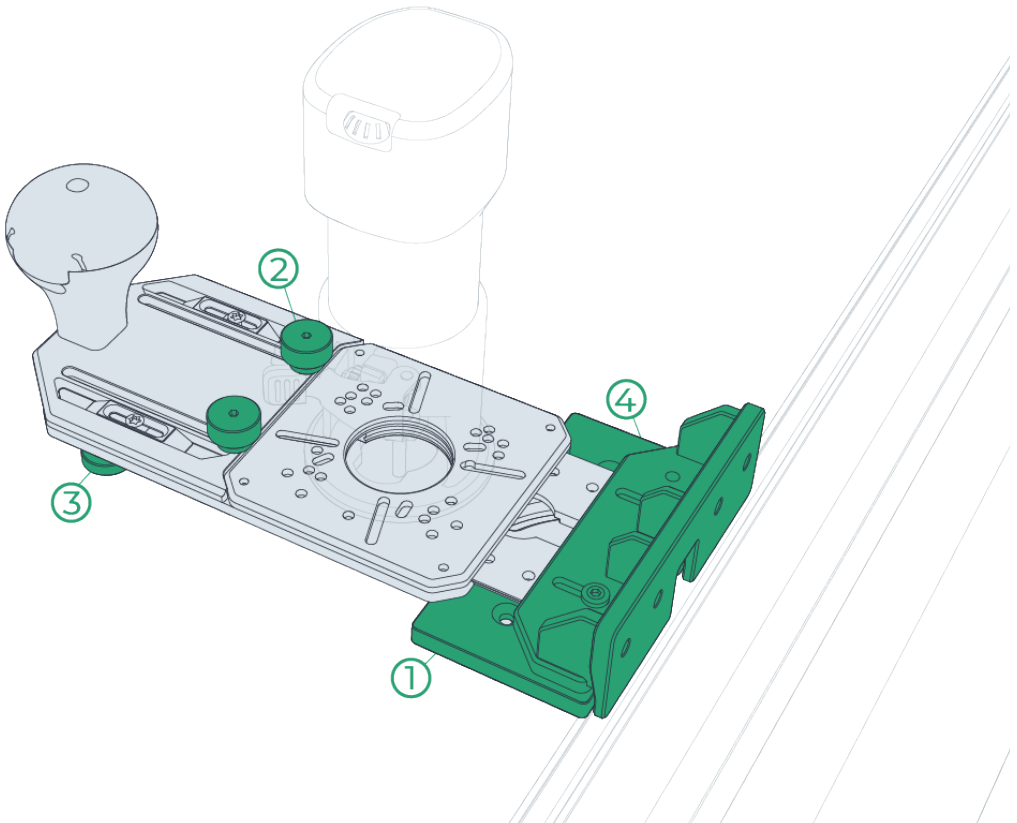
Involves cutting circles with a fixed radius while keeping the router in a stable position as Type 2.



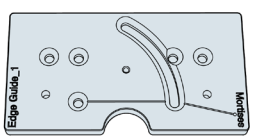
Similar to Type 2, Type 3 starts with the router lowered at an angle to the circle's circumference, ensuring clean cuts for both the inner and outer circles.



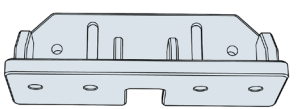
A small damge from the router bit at the start might appear



Required Hardware



Edge Guide



Rail Guide



H4 Allen Key



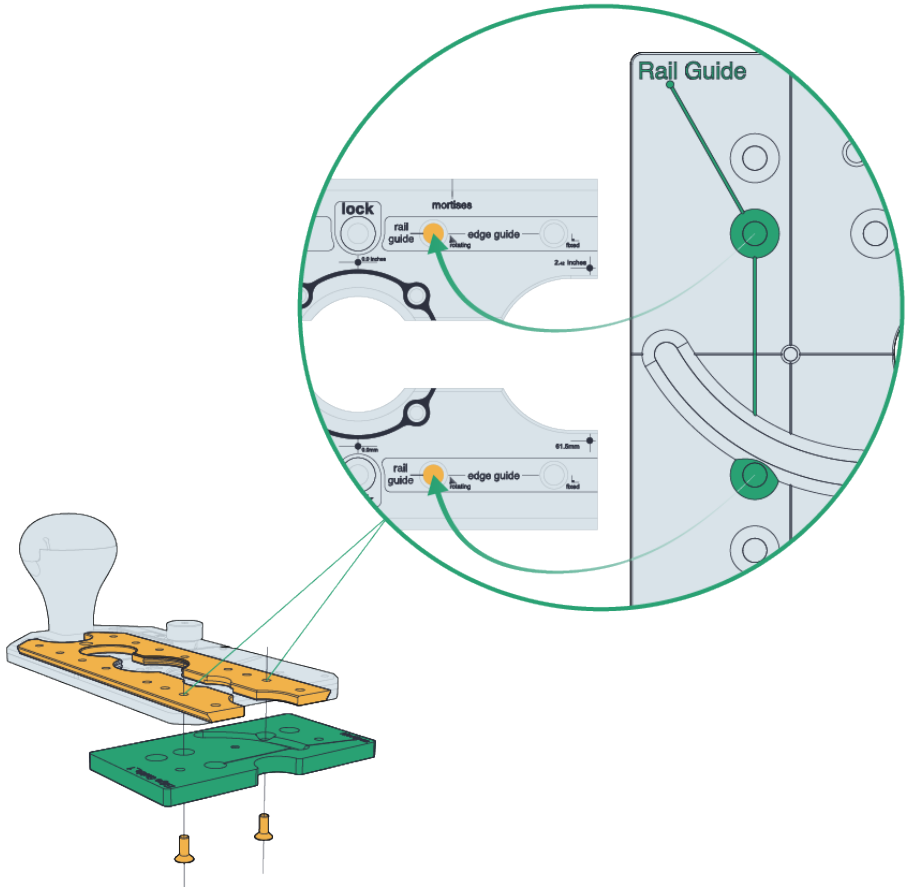
M6-15 (x2)



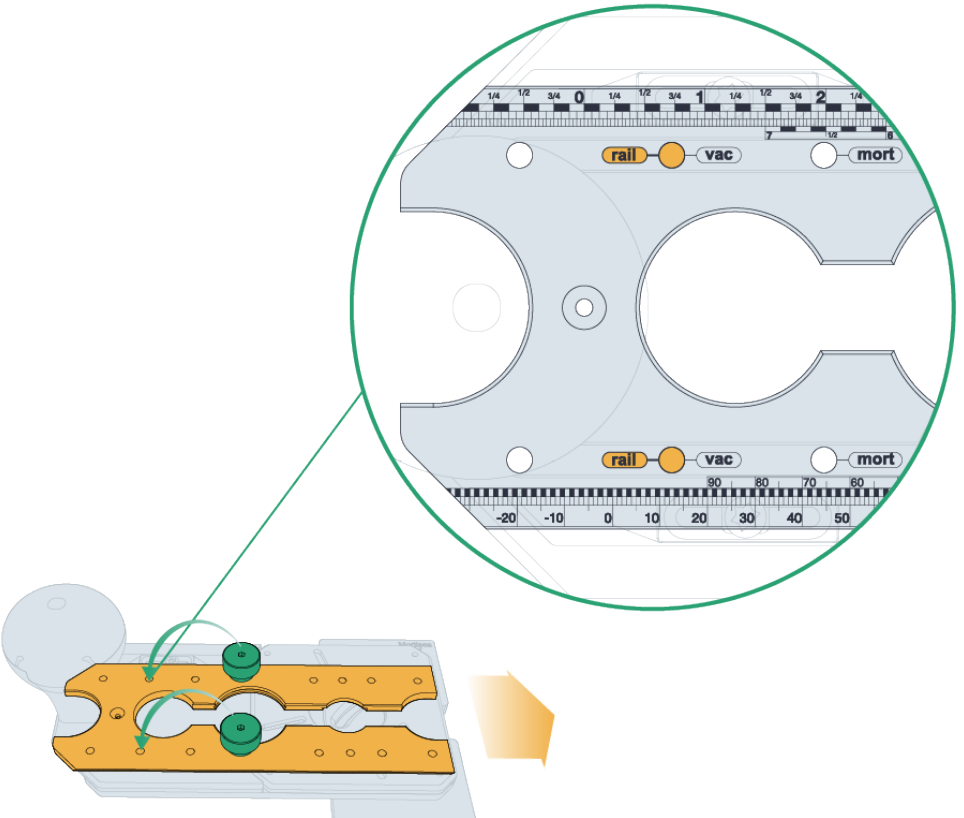
M6-15 (x2)



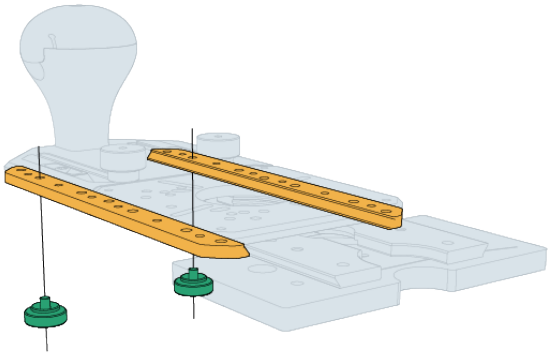
Leveling Knob(x2)



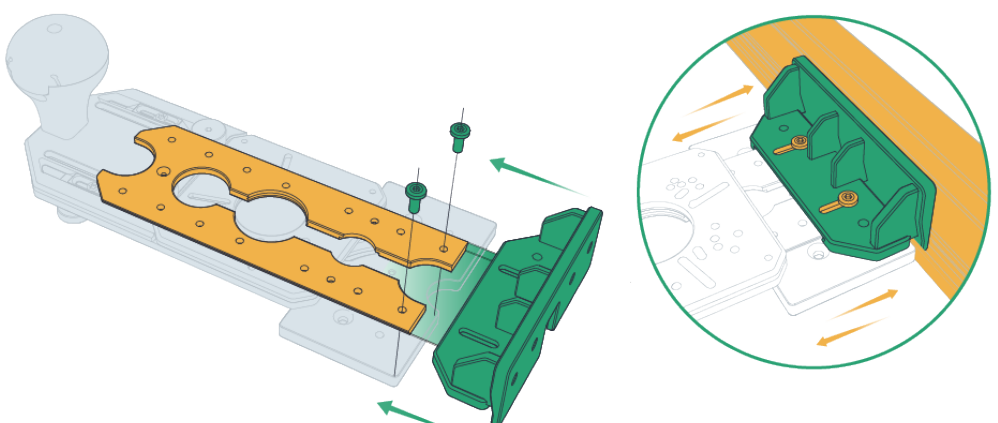
① Attach the Edge Guide using M6-15 screws.



② Move the Fixing Knobs to the left and push the Sliding Plate to the right accordingly.

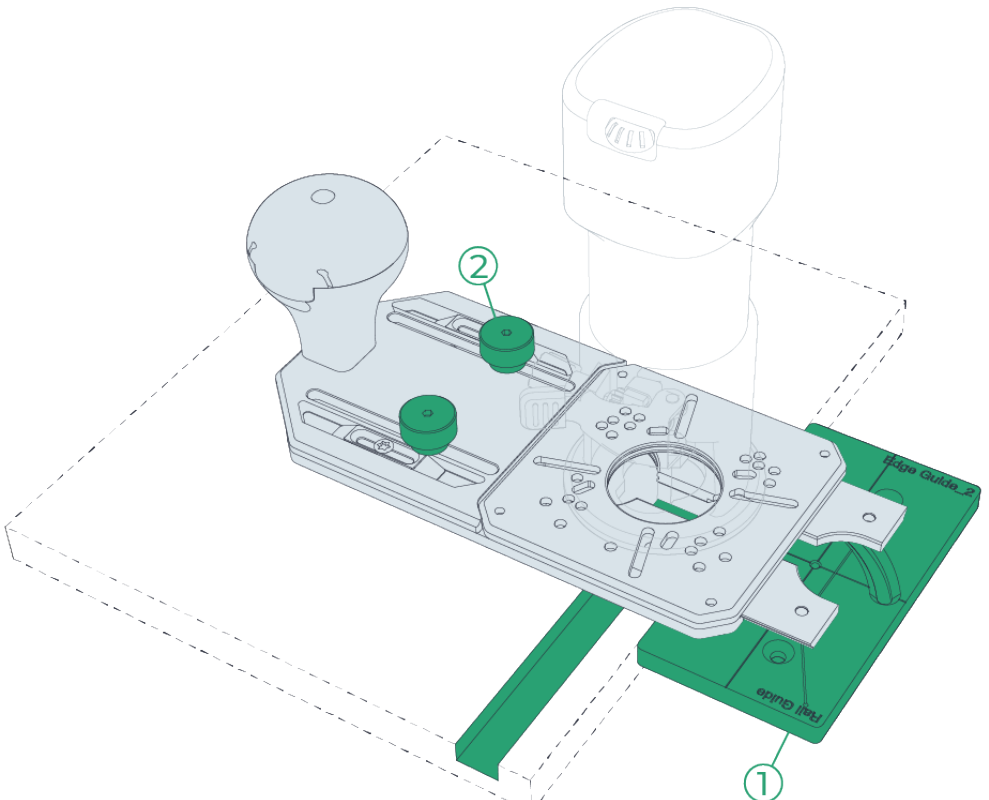


3 Attach the Leveling Knobs to the Jig (onto the Rails)

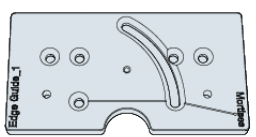


4 Attach the Rail Guide to the Sliding Plate using M6-15 screws, and adjust according to the thickness of your Rails.

Rail Guide



Required Hardware



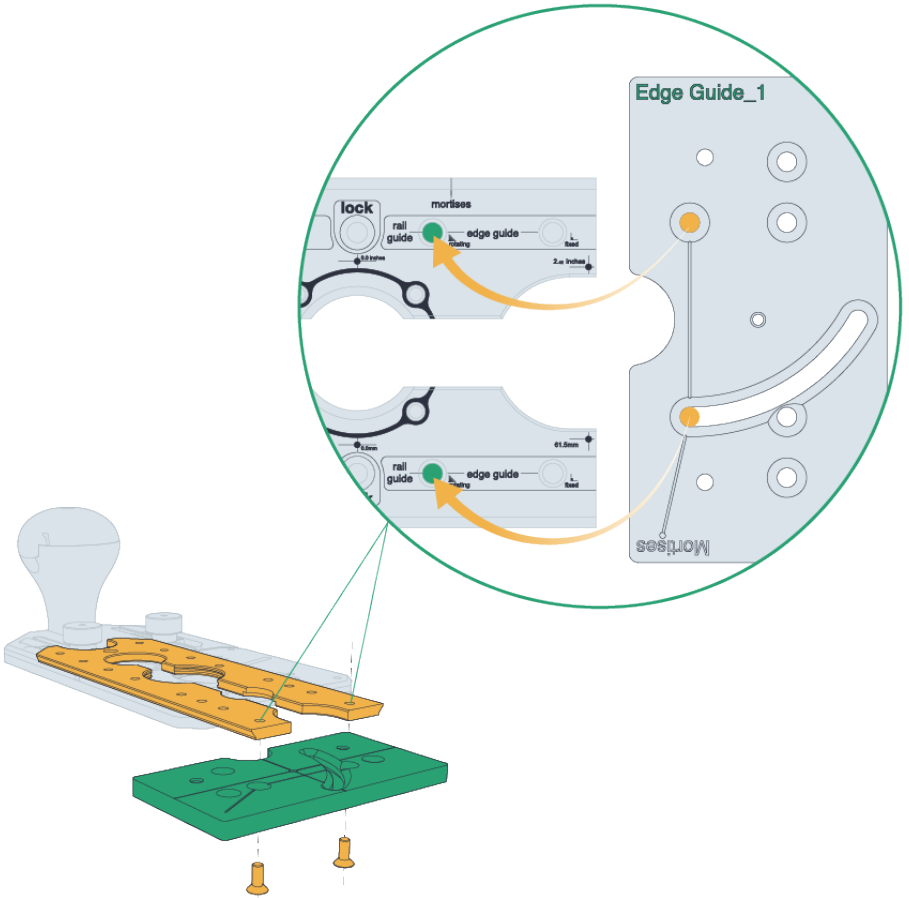
Edge Guide



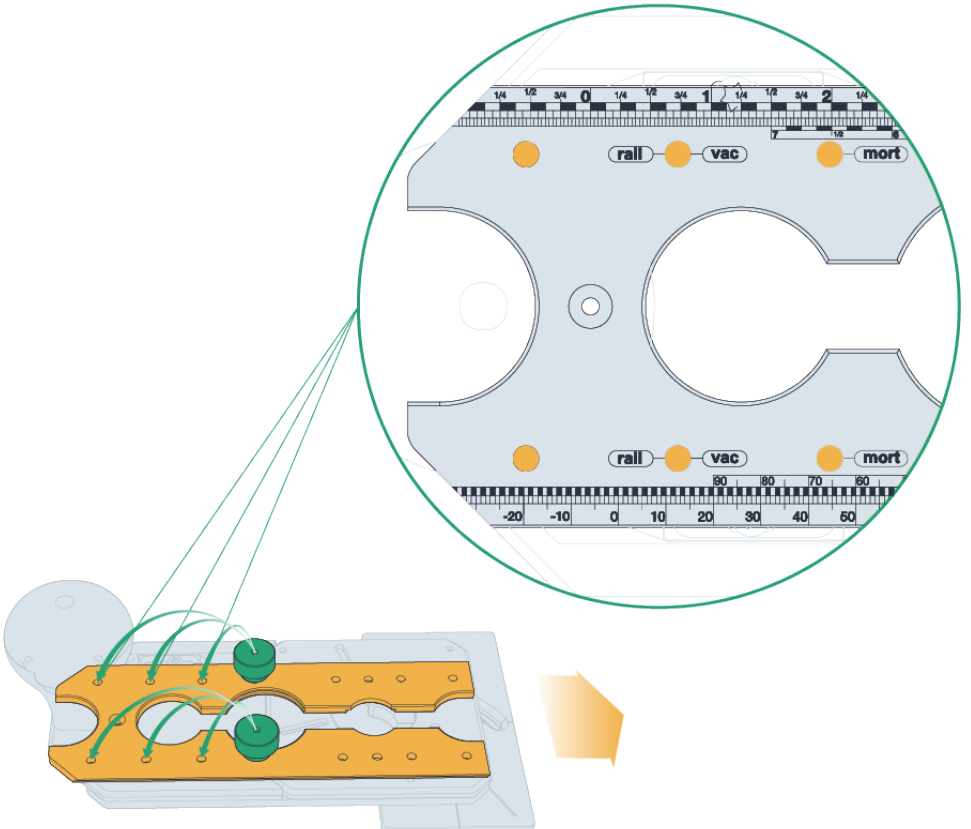
M6-15 (x2)



H4 Allen Key

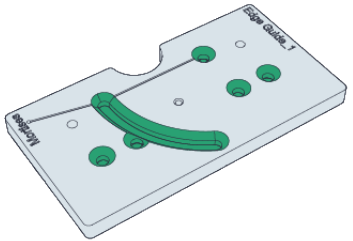


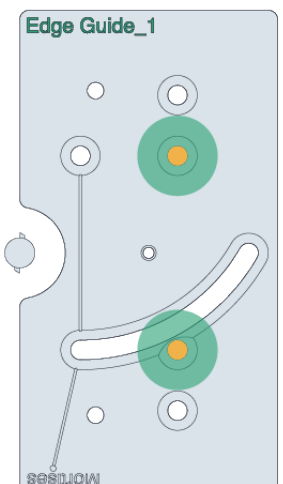
① Attach the Edge Guide Pins to the Sliding Plate using M6-15 screws.



② Move the Fixing Knobs to the left and push the Sliding Plate to the right accordingly.

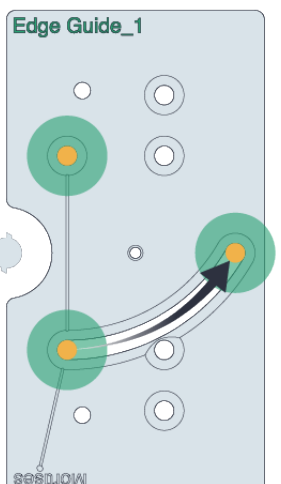
Edge Guide Introduction:





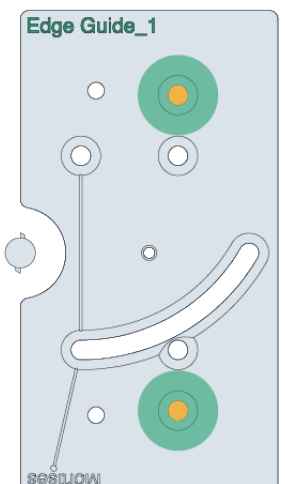
1.Fixed to the rail90°

*used for most of times



2.Fixed to the rail 90-150

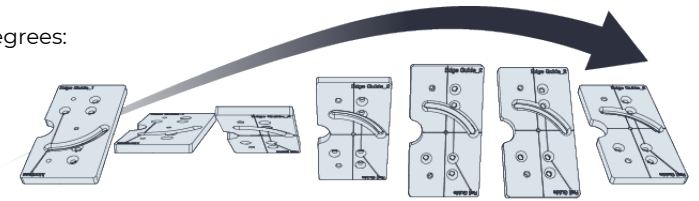
*to achieve more surface contact on the wood before or after initiating the cut

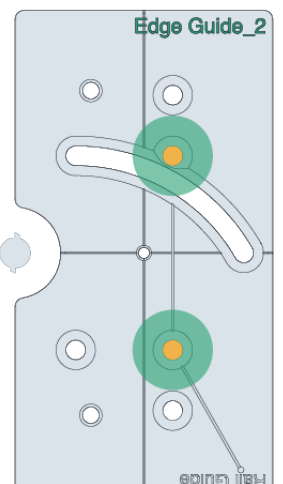


3.Fixed to the jig 90

*to keep cutting line in middle of the router bit

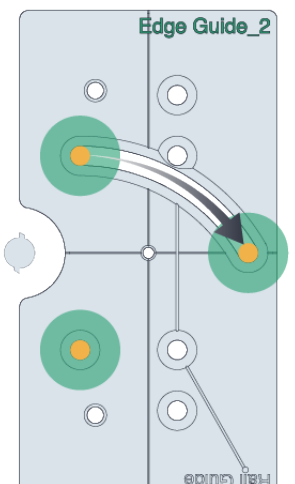
Rotate 180° Degrees:





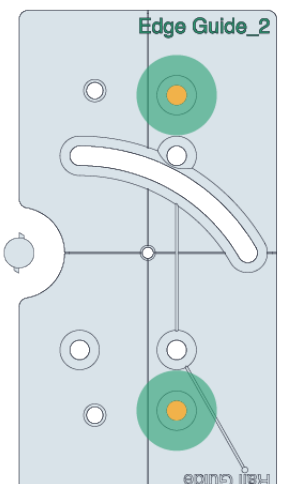
1.Fixed to the rail90°

*used for most of times



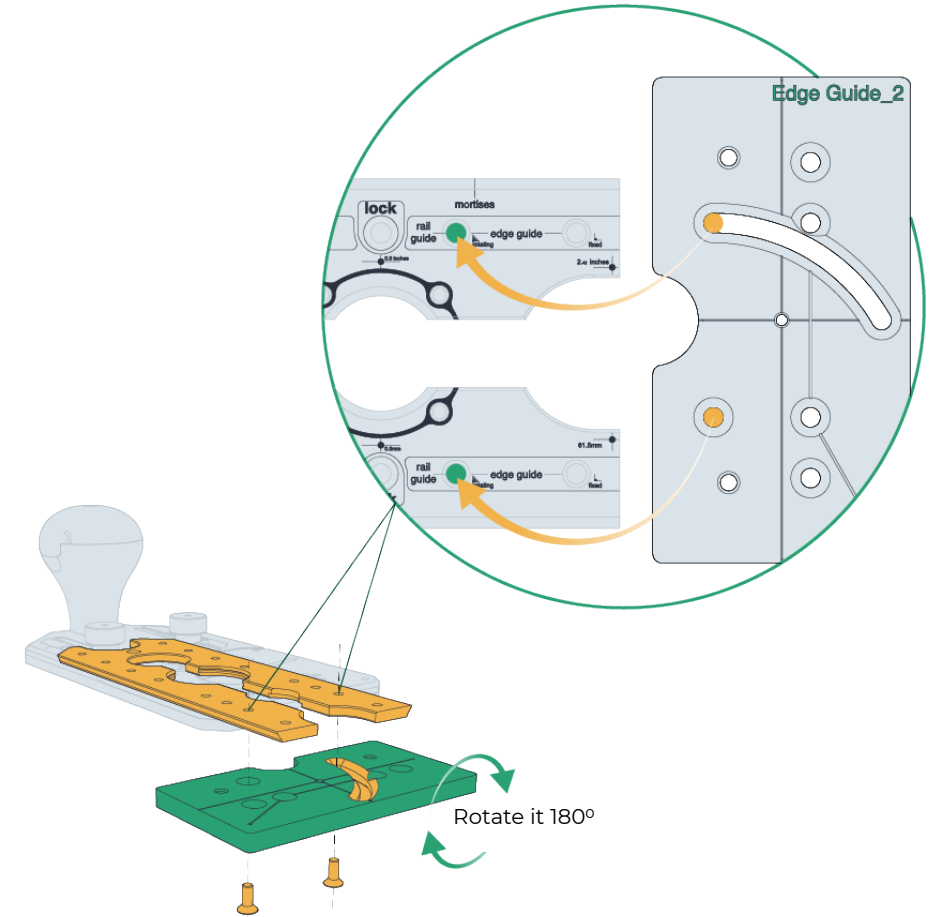
2.Fixed to the rail 90-150

*to achieve more surface contact on the wood before or after initiating the cut



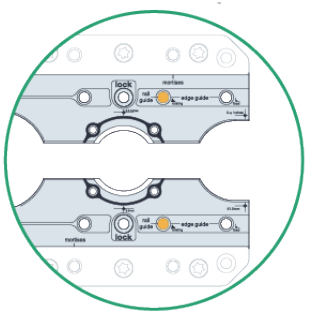
3.Fixed to the jig 90

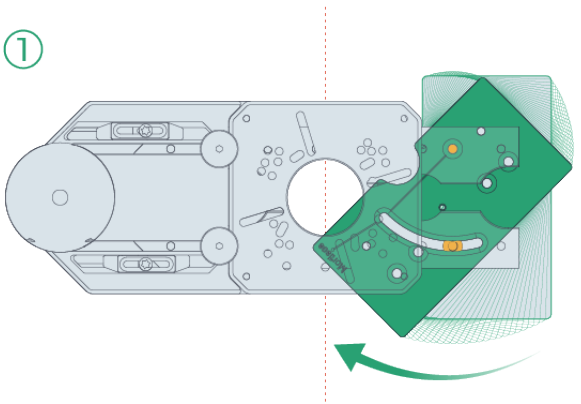
*to keep cutting line in middle of the router bit

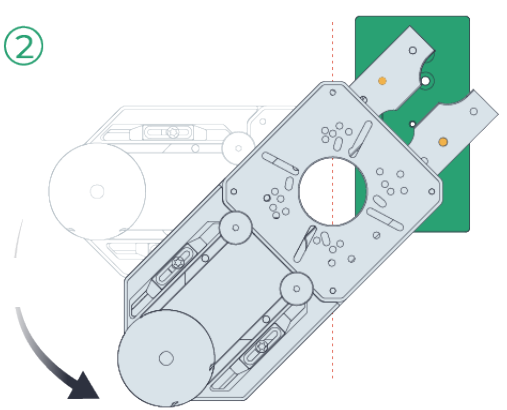


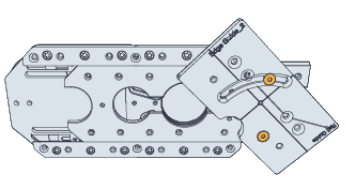
① Attach the Edge Guide Pins to the Sliding Plate using M6-15 screws.

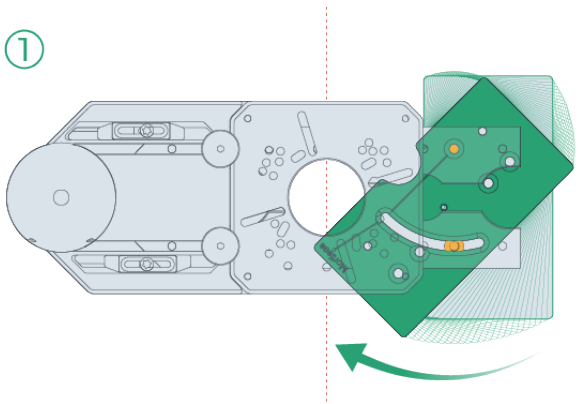
Edge guide rotation:

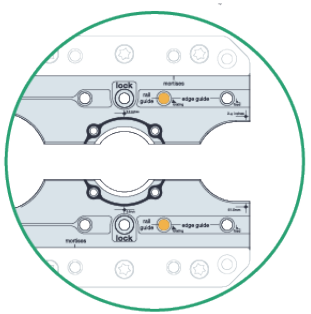


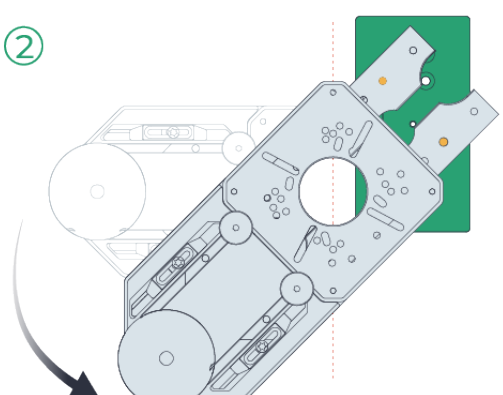


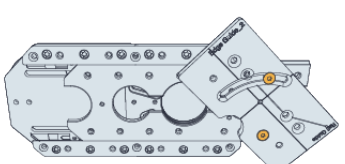


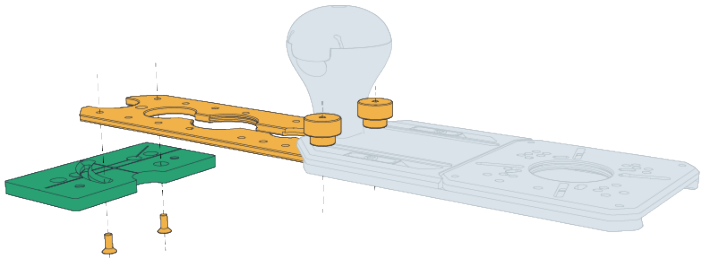




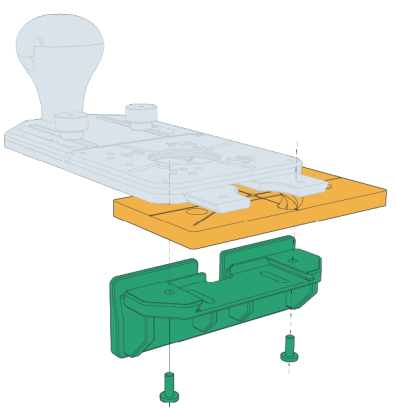




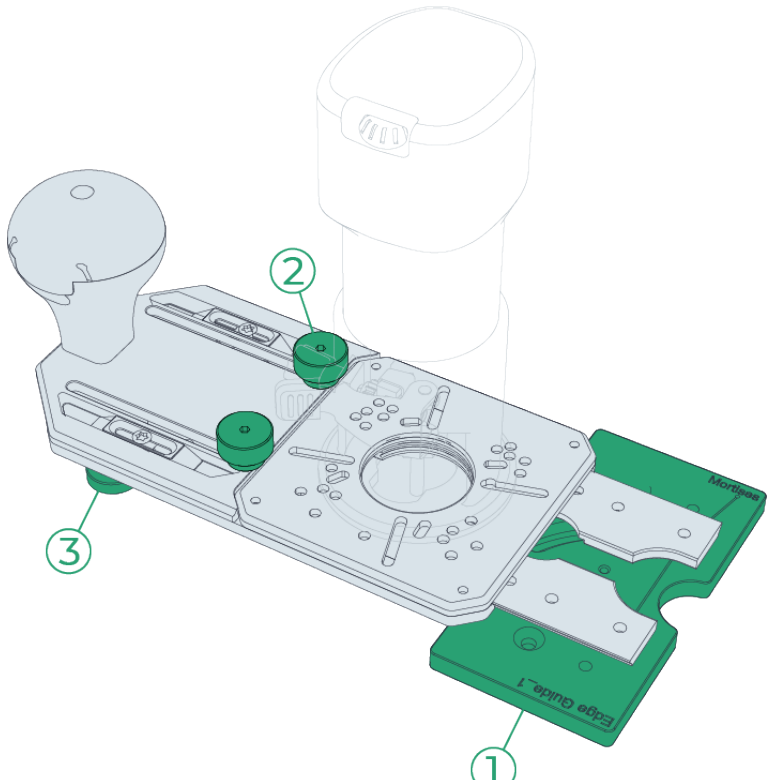




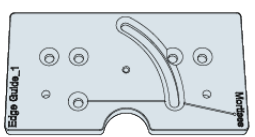
**To achieve maximum distance from the edge, attach the Edge Guide to the left side of the Sliding Plate.*



**You can always attach the Rail Guide to the Edge Guide for better surface control.*



Required Hardware



Edge Guide



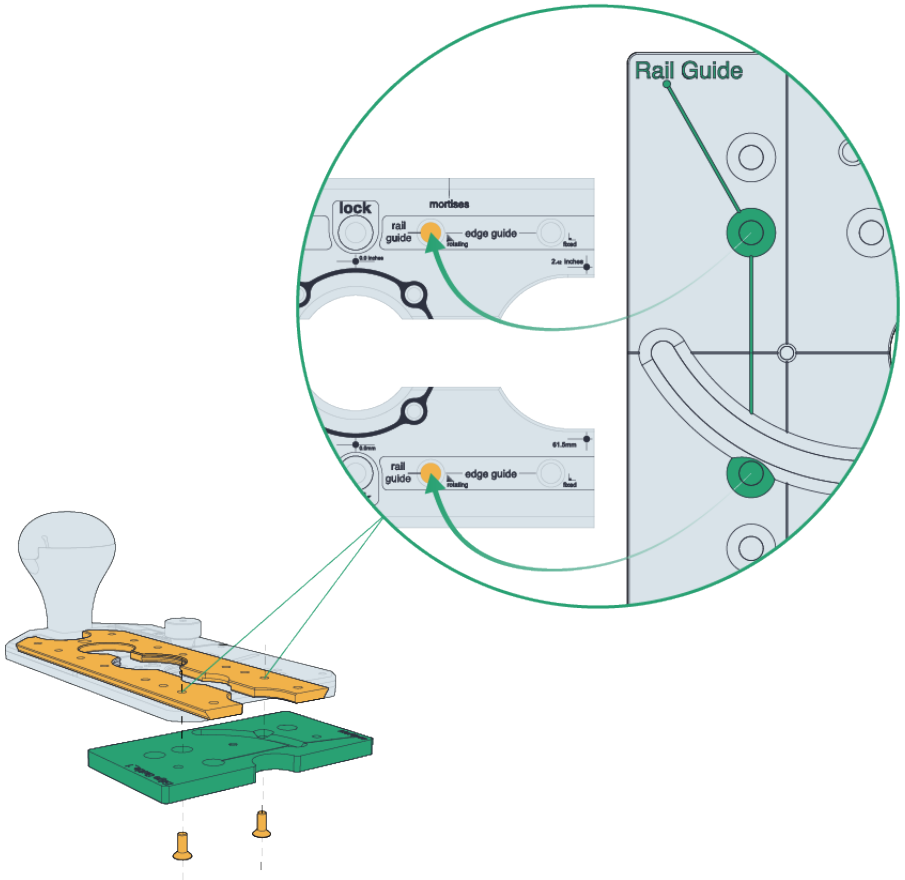
H4 Allen Key



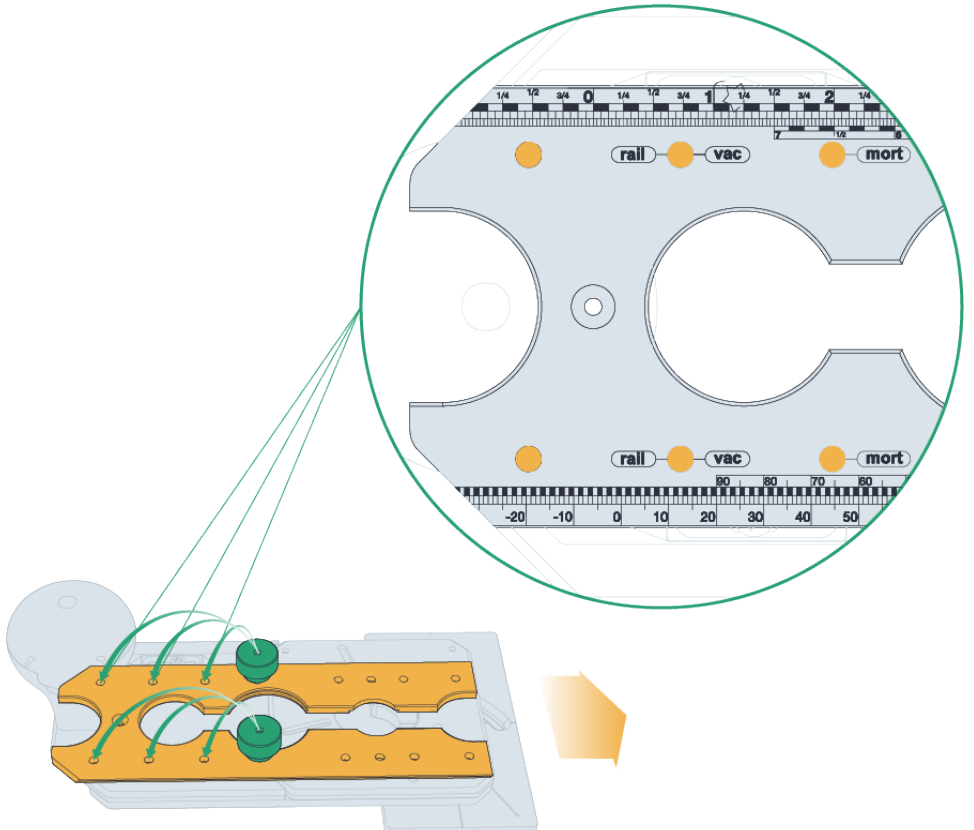
Leveling Knob(x2)



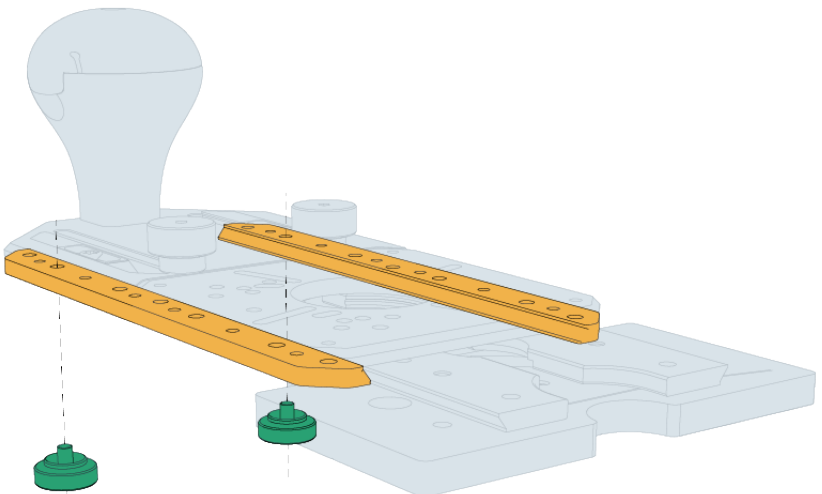
M6-15 (x2)



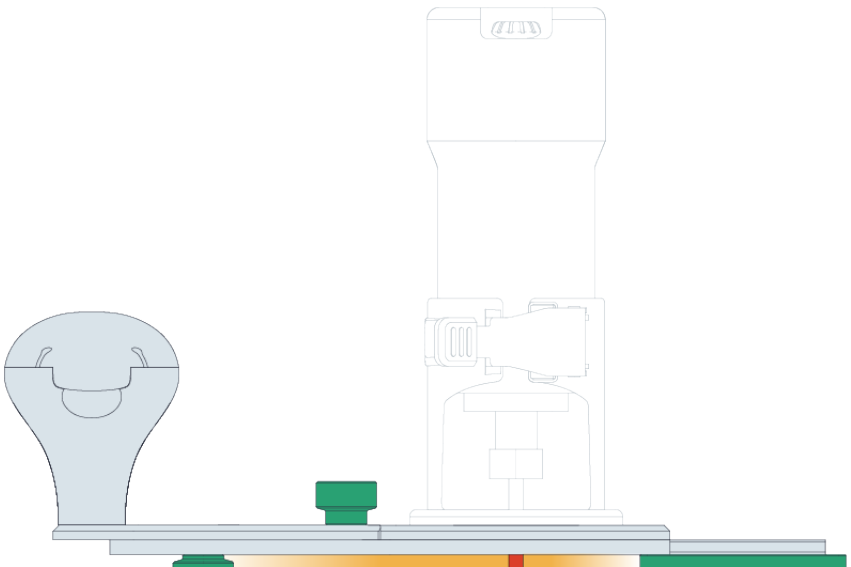
① Attach the Edge Guide to the Sliding Plate using M6-15 screws.



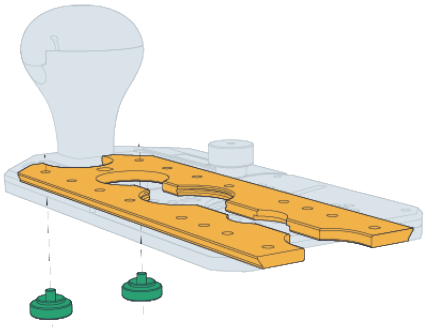
② Move the Fixing Knobs to the left and push the Sliding Plate to the right accordingly.



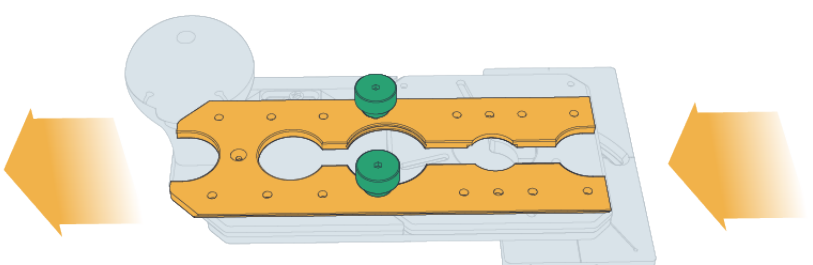
3 Attach the Leveling Knobs to the Jig (onto the Rails).



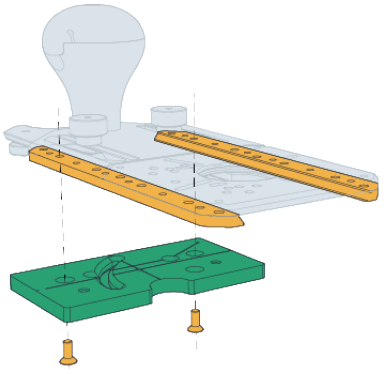
**You will get 10mm of clearance for flush trimming.*



① Attach the Leveling Knobs to the Jig (onto the Rails).

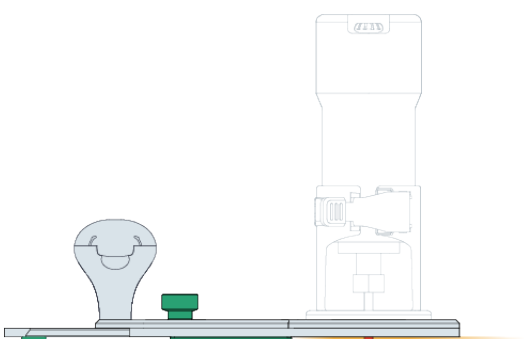


② Push the Sliding Plate to the left.

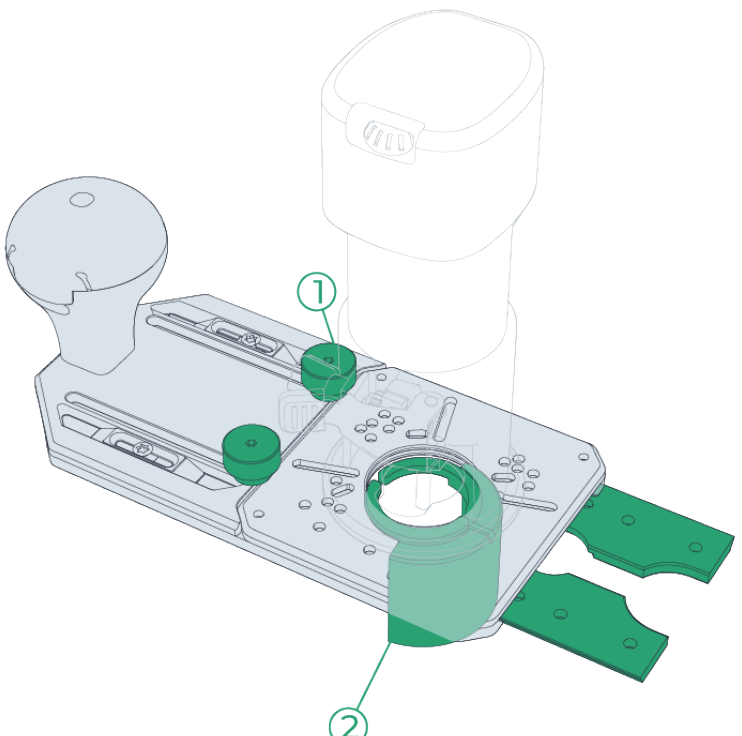


③ Attach the Edge Guide to the Jig (onto the Rails).

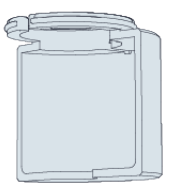
Move fixing knobs to the left and push the rail to the right



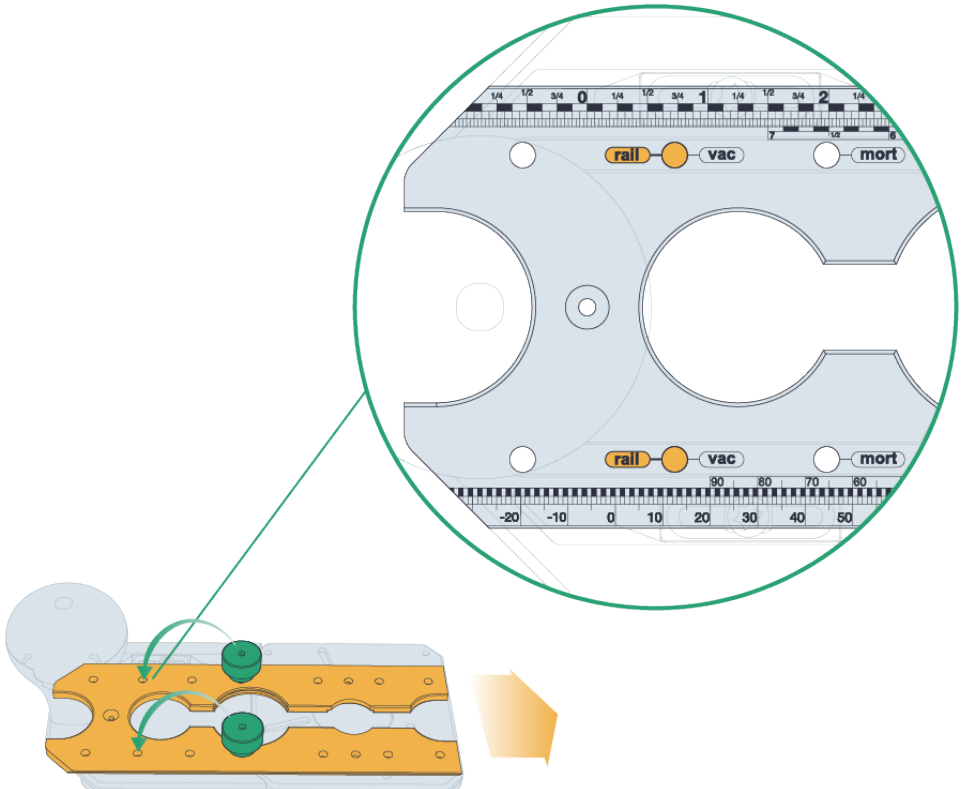
**You will get 10mm of clearance for flush trimming, with no limits on the right side.*



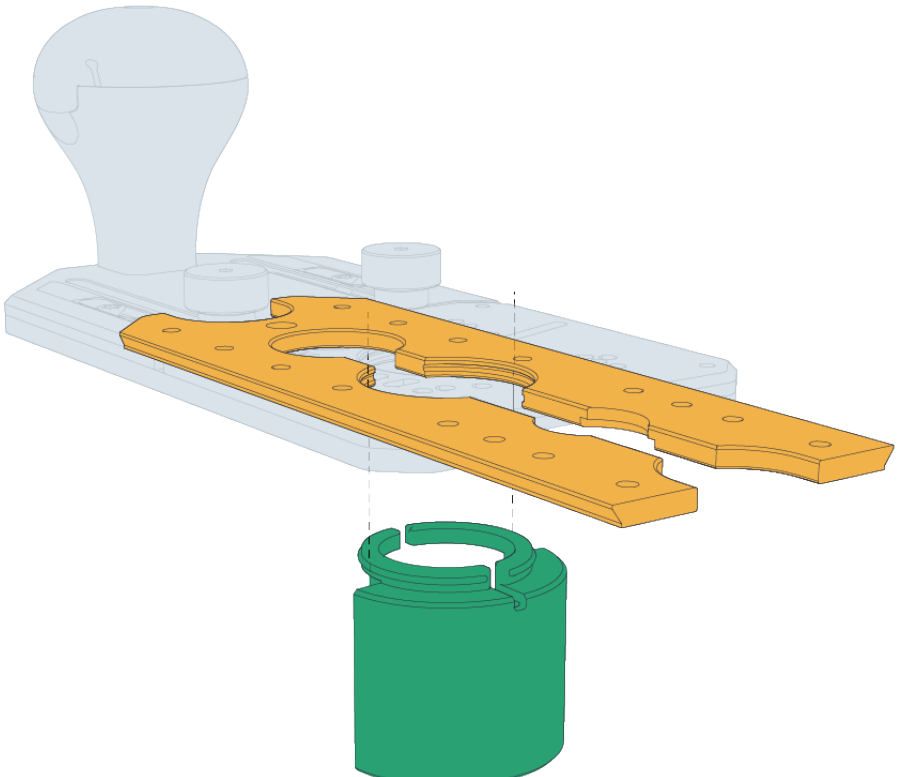
Required Hardware



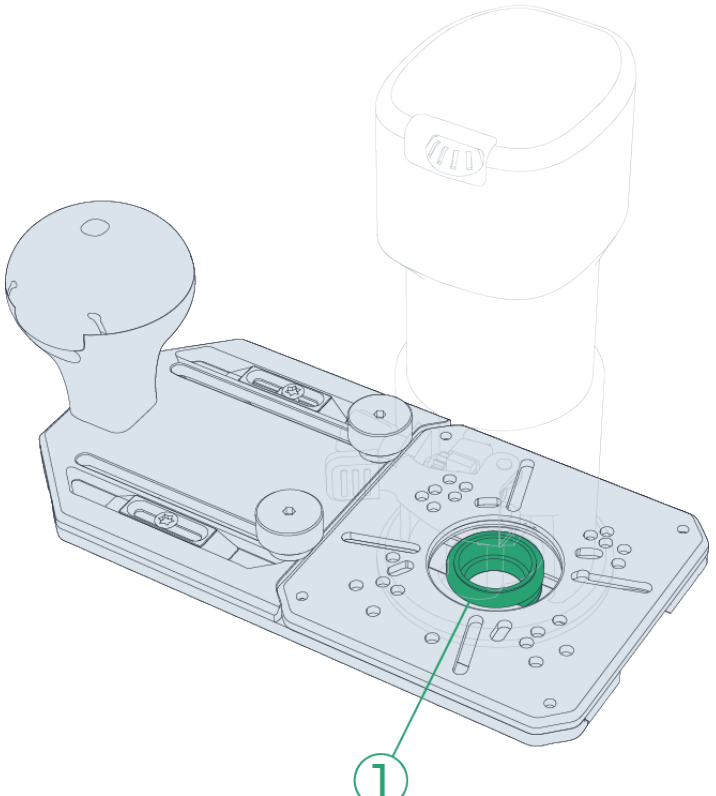
Vac



① Move the Fixing Knobs to the left and push the Sliding Plate to the right accordingly.



② Attach the Vac to the Sliding Plate by pushing it in.



Required Hardware



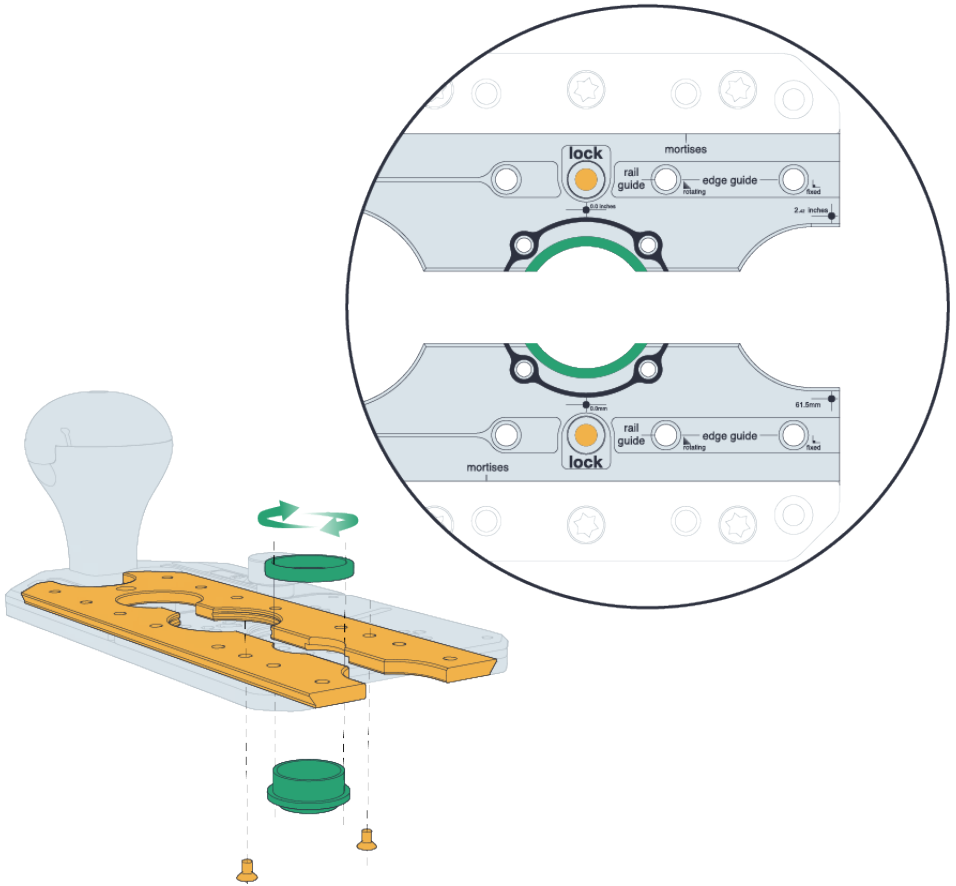
Bushing



T20 Allen Key

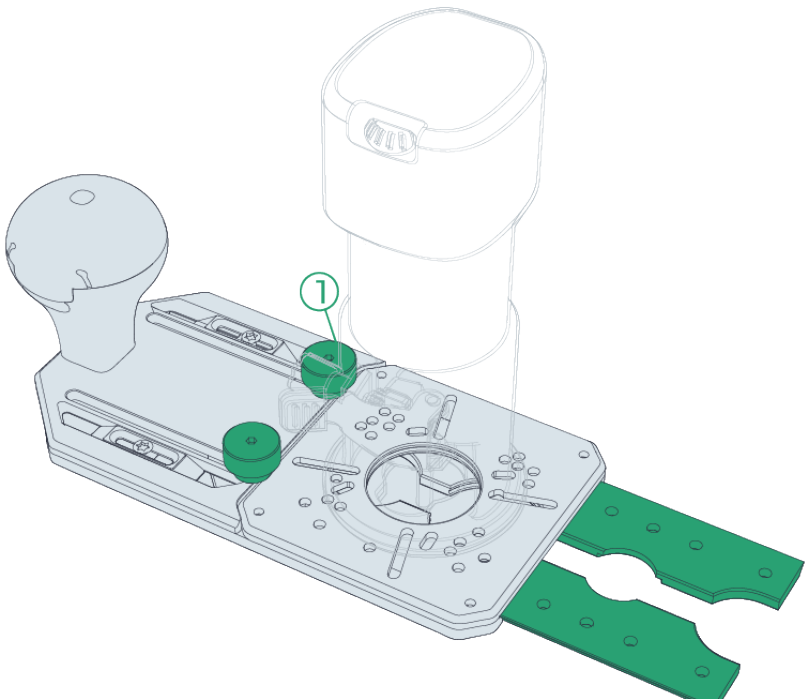


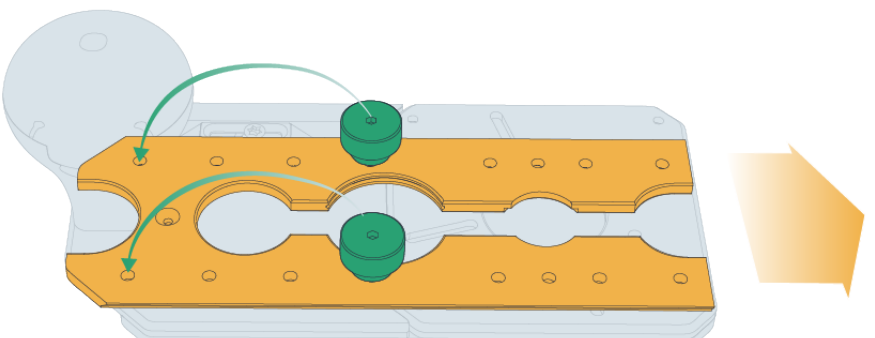
M4-10 (x2)



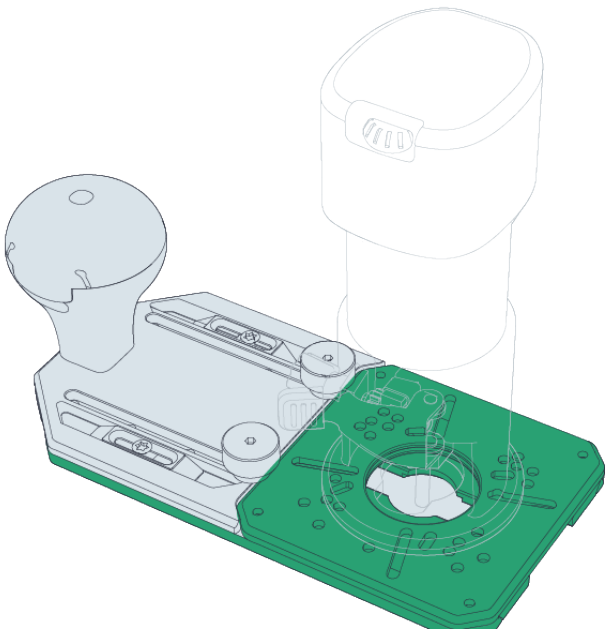
1. Attach the Bushing to the Sliding Plate and secure it to the Jig using M4-10 screws, ensuring it is centered.

Bushing

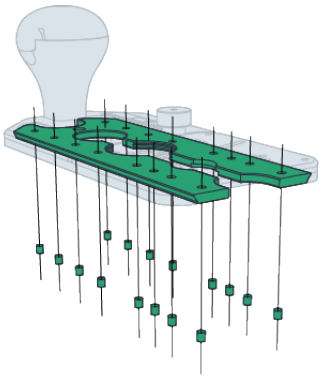


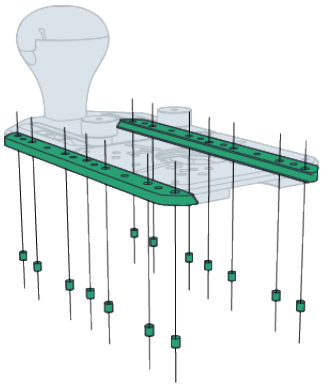


1. Move the Fixing Knobs to the left and push the Sliding Plate to the right accordingly for better surface control.

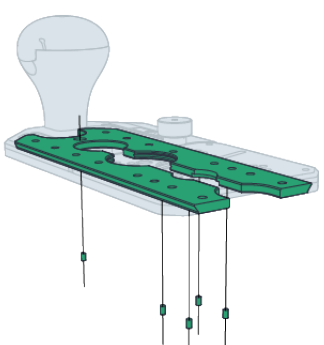


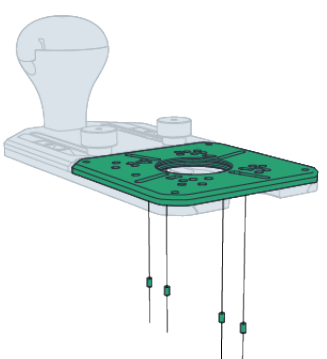
M6 Threads



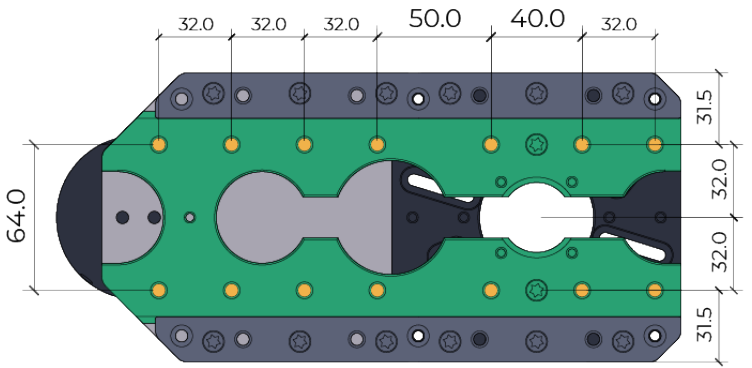


M4 Threads

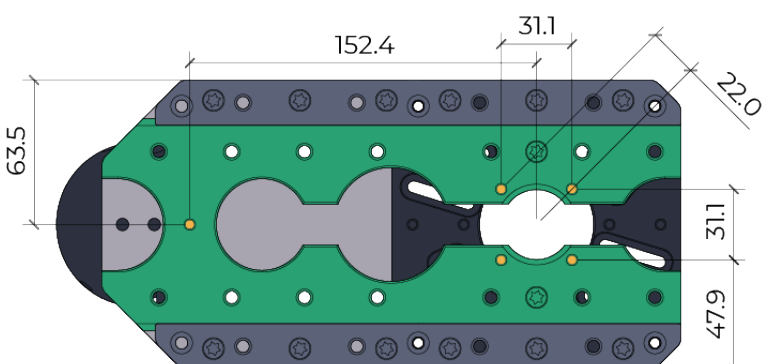




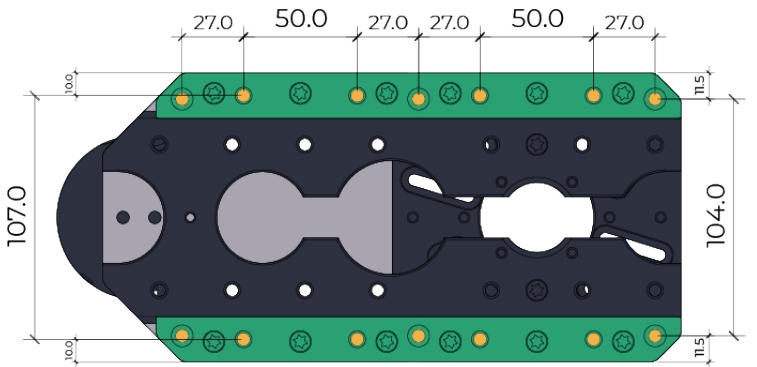
M6 Threads:



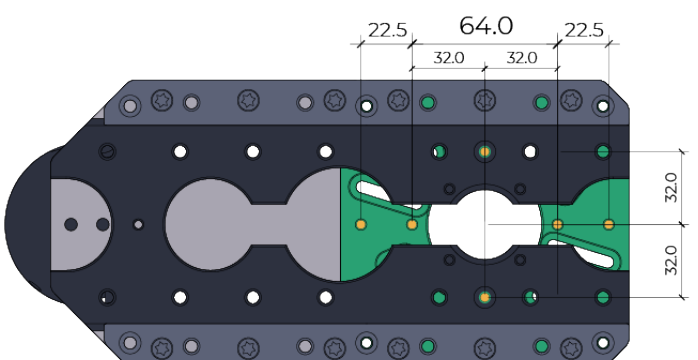
M4 Threads:

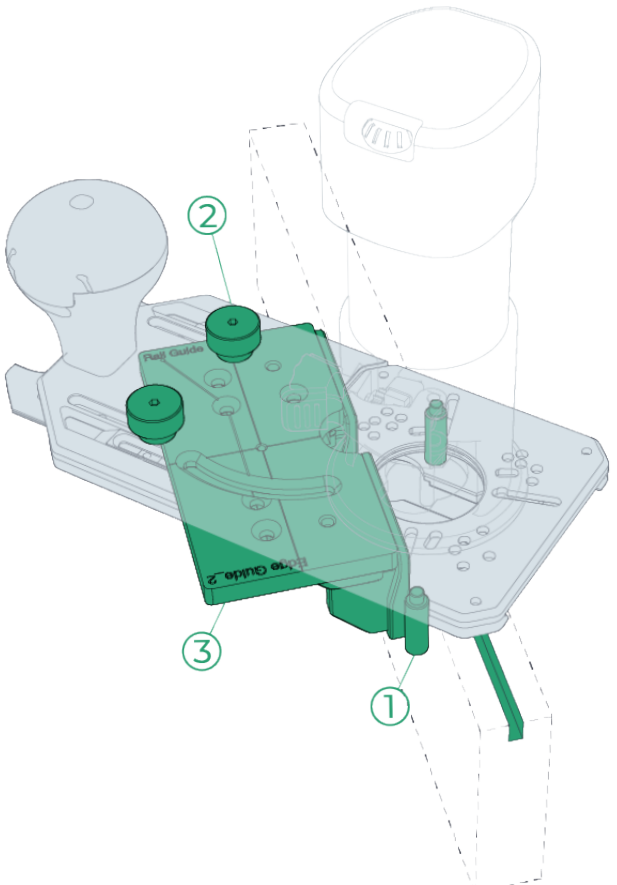


M6 Threads:

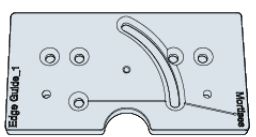


M4 Threads:

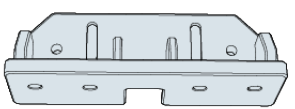




Required Hardware:



Edge Guide



Rail Guide



H4 Allen Key



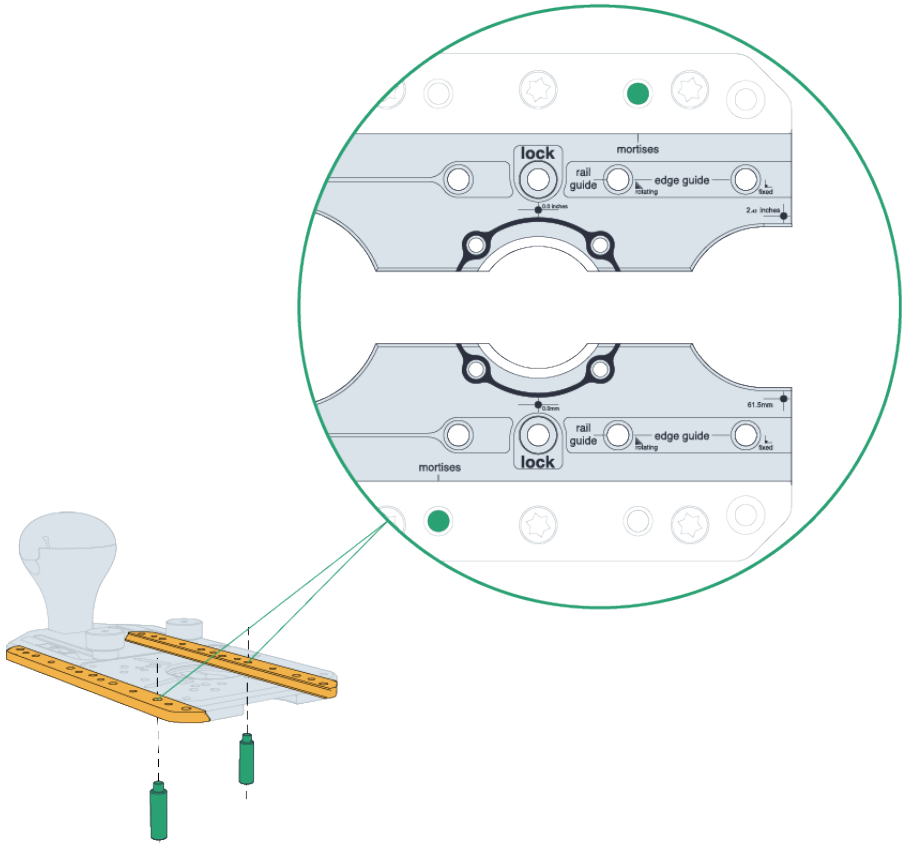
M6-15 (x2)



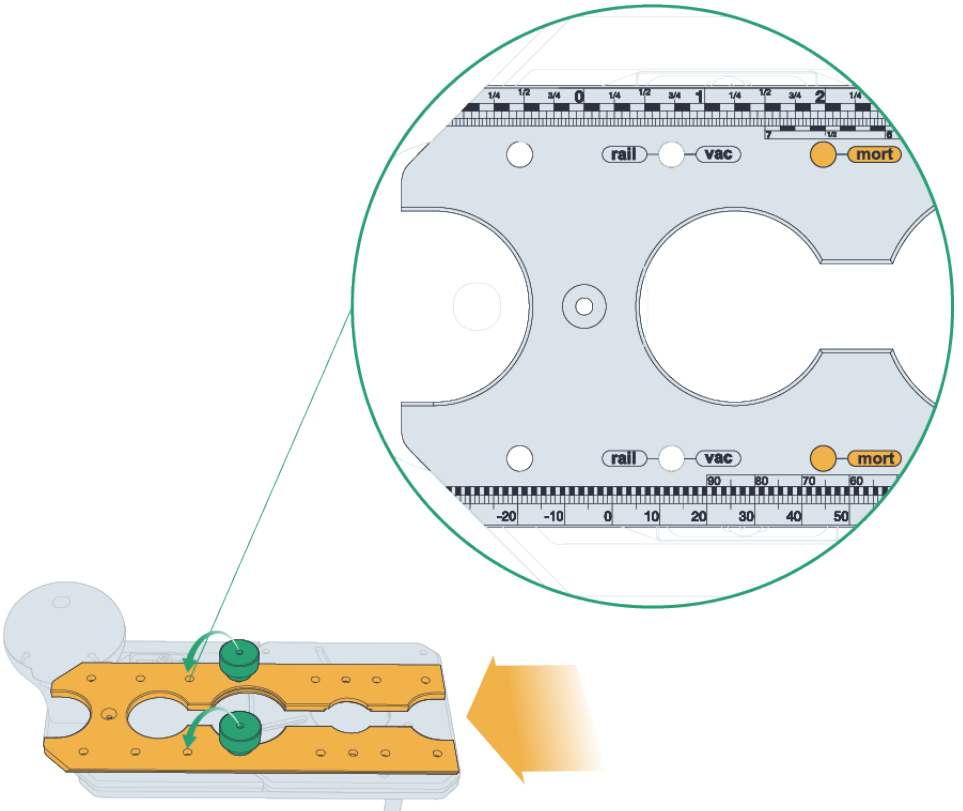
M6-15 (x2)



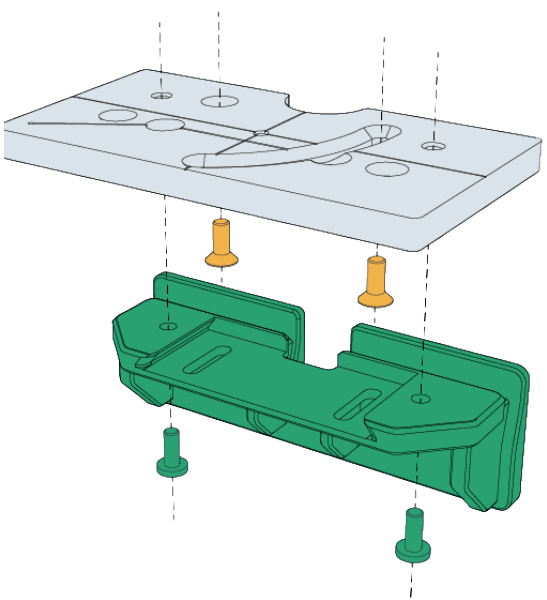
Pin (x2)

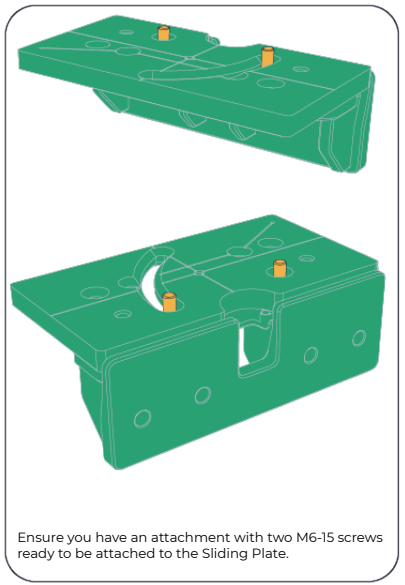


① Attach the Pins to the Jig (onto the Rails).



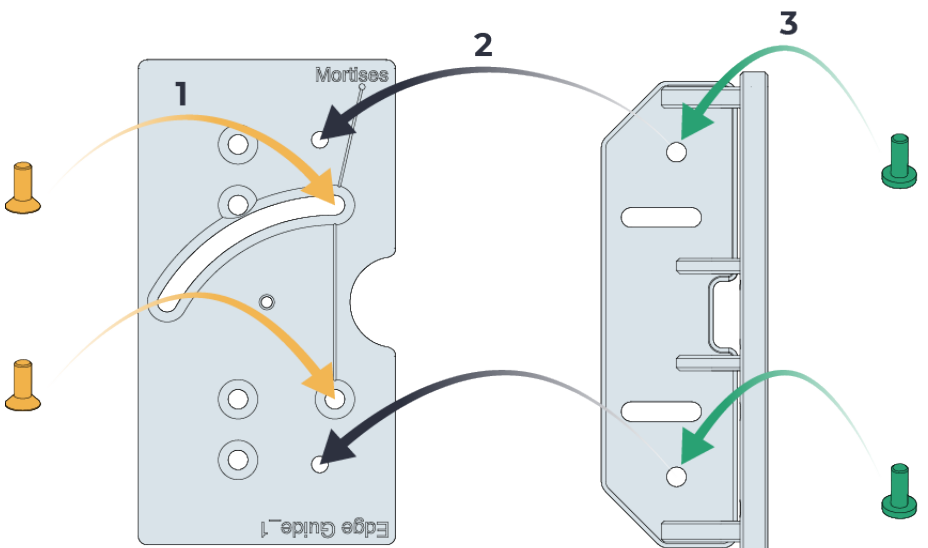
② Move the Fixing Knobs to the left and push the Sliding Plate to the right accordingly.



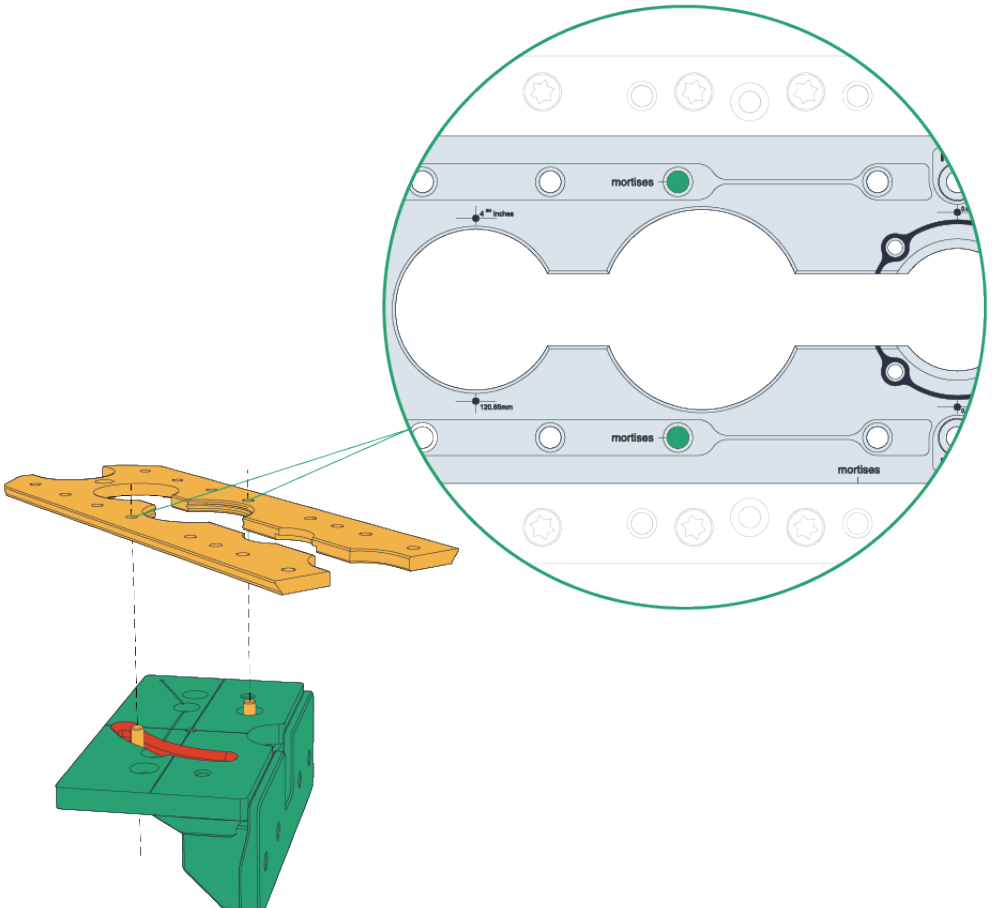


Ensure you have an attachment with two M6-15 screws ready to be attached to the Sliding Plate.

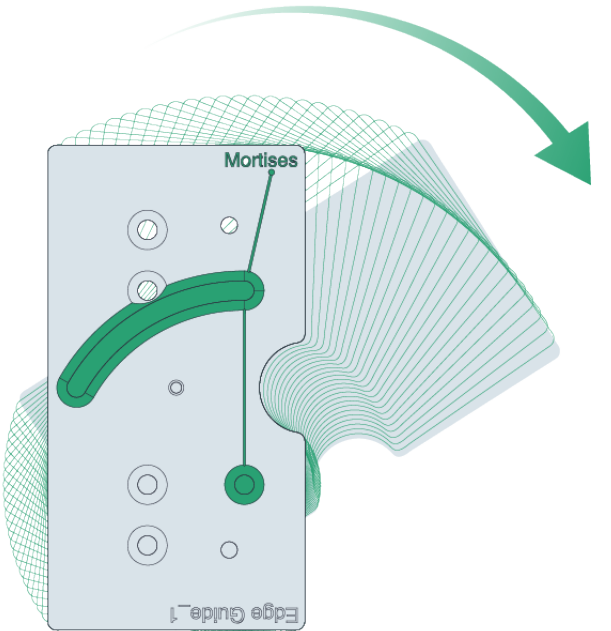
Attach the Rail Guide to the Edge Guide using M6-15 screws.



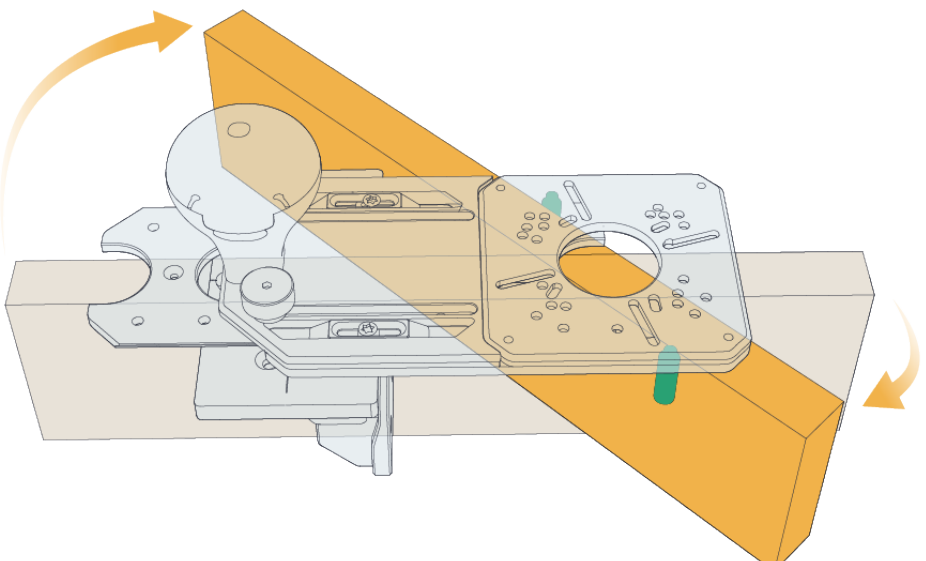
*Follow these steps.



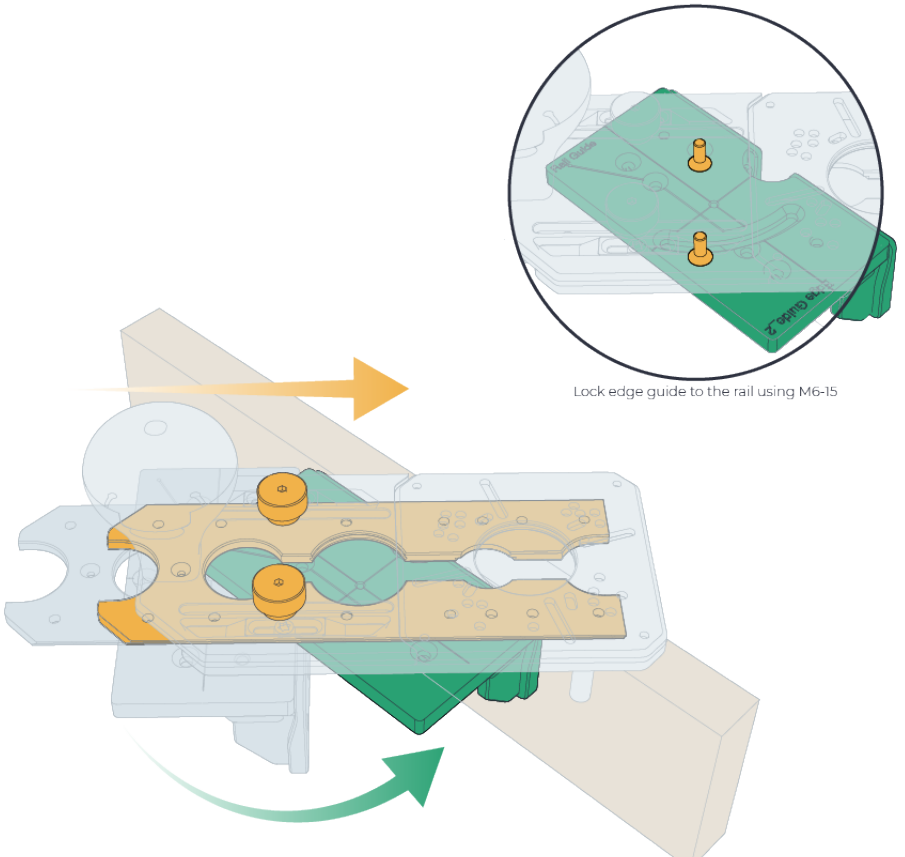
③ Attach the Edge Guide to the Sliding Plate using M6-15 screws.



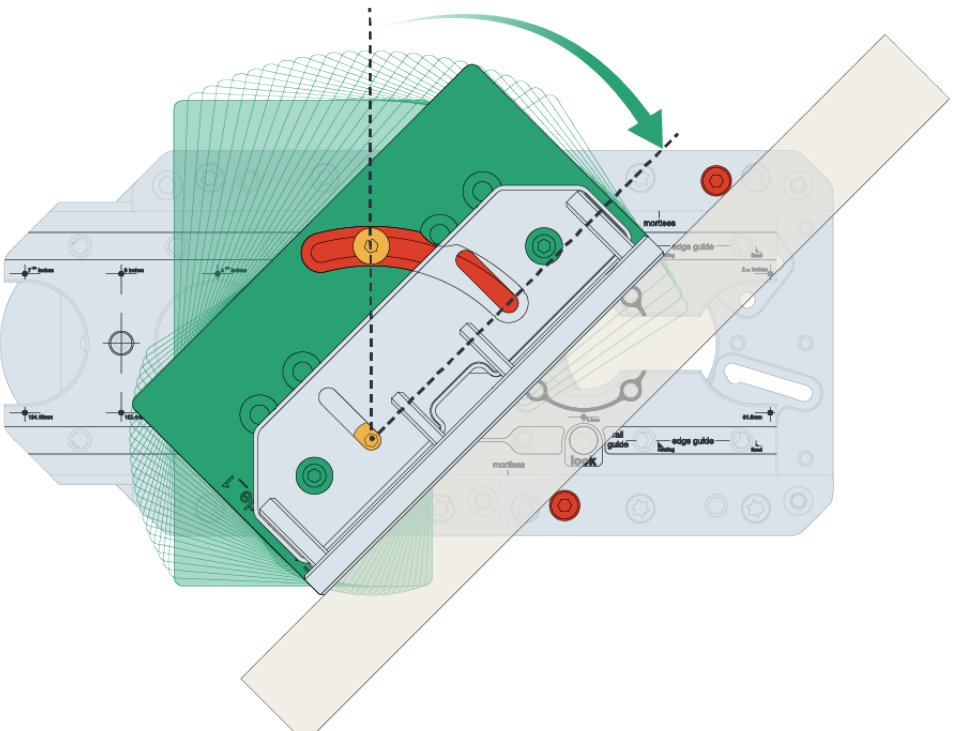
**Do not tighten the M6-15 screws yet, allowing you to make the necessary adjustments.*



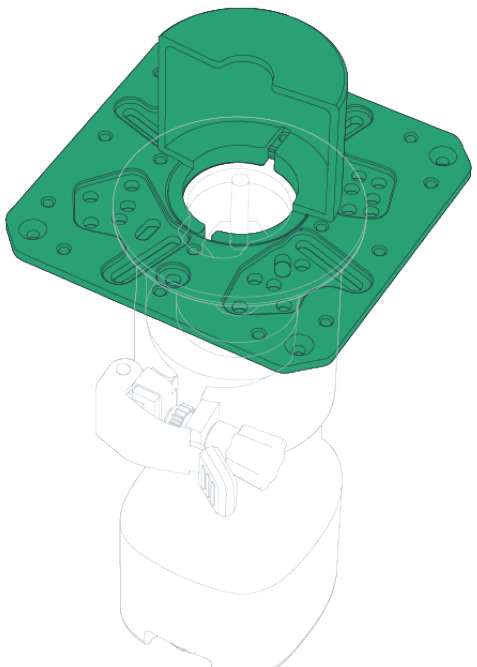
4. Rotate the wood piece clockwise to center it, or rotate the Jig counterclockwise.



5. Push the Sliding Plate to the right; the Edge Guide should rotate to match the angle of the wood piece.



**Bottom view of the entire system for better understanding.*



Required Hardware



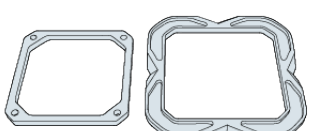
Thread Inserts M4-10



T20 Allen Key



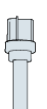
M4-10 (x2)



Guides

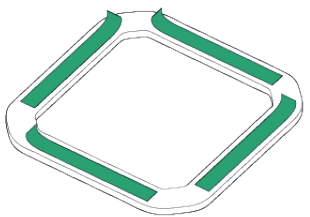


Vac

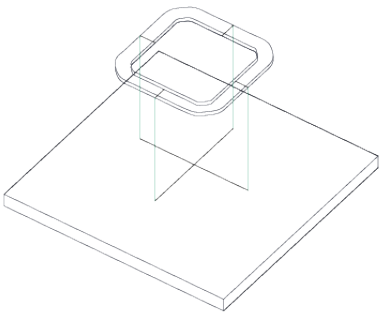


Flush Trimming Bit

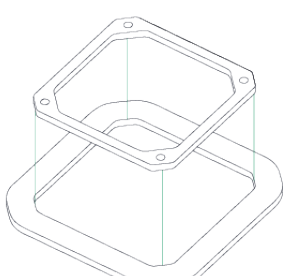
1.Template Preparation
Attach double tape on the template securely to avoid any movement during the setup.



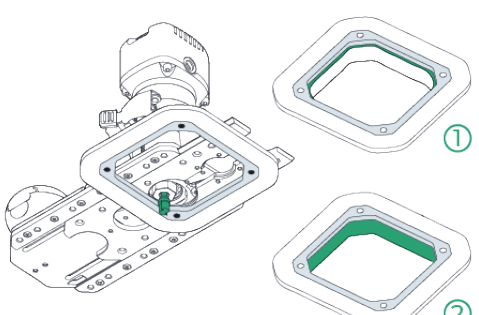
2.Template Placement
Place the prepared template on the table accurately to guide the subsequent steps.



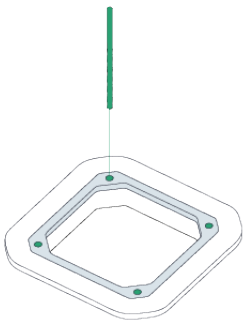
3. Insert Secondary Guide
Position the secondary guide inside the template, ensuring correct alignment.



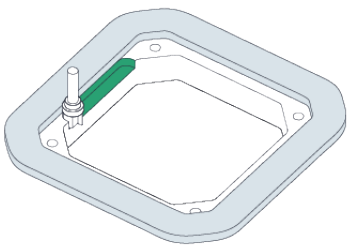
4.Initial Cutting
Cut a rough hole using a jigsaw, then refine the cut with a flush router bit for precision.



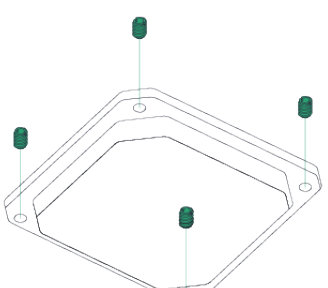
5.Hole Drilling
Utilize the secondary jig to drill the necessary holes accurately.



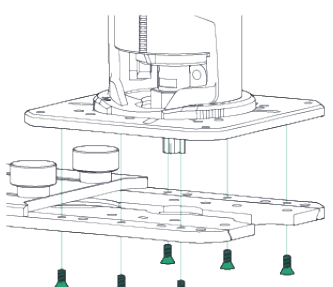
6.Final Depth Cutting
Lower the router bit to the required depth (6mm) and cut the final depth for the router table, using the template as a guide.



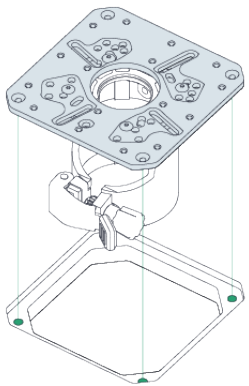
7.Insert Thread Inserts
Insert the thread inserts into the drilled holes, ensuring a tight fit.



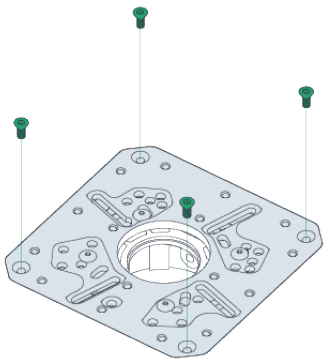
8.Detach Holder Housing
Carefully detach the holder housing from the jig, preserving all components.



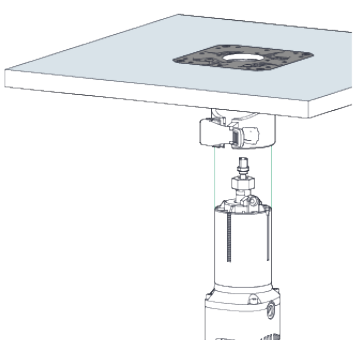
9.Router Placement
Insert the router into the cut made, ensuring it fits snugly.



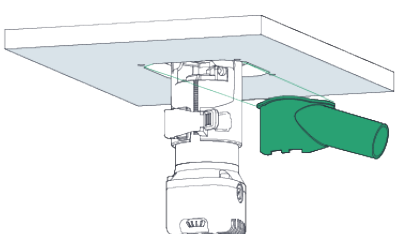
10.Secure Router
Secure the router firmly in place using the same m4 10mm screws detached from the jig.



11.Reattach Router
Place back the router, ensuring its stability and alignment.



12.Attach Vacuum System
Securely attach the router's vacuum system, ensuring optimal functionality.



13.Router Placement
Attaching Vac to the Router

