

# TOT!

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## Instruction manual

**IMPORTANT:** Read all instructions before using

# **TOT! Instruction manual**

Full video tutorials you can find at <https://www.takeonetoo.com/tot-video-tutorials/>

**Congratulations on your purchase of a new TOT! Complete pack.**

**TOT! Complete pack with 40x80 aluminum profiles allows you to build TOT! dustless router sled right to your needs. Before using your new TOT! router sled, make sure you fully read and understand all of the precautions and safety information presented in this manual.**

## **General safety instructions**

**WARNING! Read all safety warnings and all instructions.** Failure to follow the warnings and instructions may result in damage and/or serious injury.  
**Save all warnings and instructions for future reference.**

### **1. WORK AREA SAFETY**

**Keep work area clean and well lit.** Cluttered and dark areas invite accidents.

### **2. PERSONAL SAFETY**

- **Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication.** A moment of inattention while operating power tools may result in serious personal injury.

- **Use personal protective equipment. Always wear eye protection.** Protective equipment such as dust mask, non skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.

- **Remove any adjusting key or wrench before turning the power tool on.** A wrench or a key left attached to a rotating part of the power tool may result in personal injury.

- **Do not overreach. Keep proper footing and balance at all times.** This enables better control of the TOT! router cart in unexpected situations.

- **Dress properly. Do not wear loose clothing or jewelry. Keep your hair, clothing and gloves away from moving parts.** Loose clothes, jewelry or long hair can be caught in moving parts.

- **Always ensure if dust extraction and collection facilities are connected and properly used.** Use of dust collection can reduce dust-related hazards.

- **Do not let familiarity gained from frequent use of tools allow you to become complacent and ignore, tool safety principles.** A careless action can cause severe injury within a fraction of a second.

# **TOT! Instruction manual**

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## **3. POWER TOOL USE AND CARE**

- **Do not force the power tool. Use the correct power tool for your application.** The correct power tool will do the job better and safer at the rate for which it was designed.

- **Do not use the power tool if the switch does not turn it on and off.**

Any power tool that cannot be controlled with the switch is dangerous and must be repaired.

- **Disconnect the plug from the power source from the power tool before making any adjustments, changing accessories, or storing power tools.**

Such preventive safety measures reduce the risk of starting the power tool accidentally.

- **Maintain regularly all parts of your TOT! router sled and your router. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the TOT! router sled's operation. If damaged, have the tools repaired before use.**

Many accidents are caused by poorly maintained tools.

- **Keep cutting tools sharp and clean.** Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.

- **Use the power tool, accessories and tool bits etc. in accordance with these instructions taking into account the working conditions and the work to be performed.**

Use of the power tool for operations different from those intended could result in a hazardous situation.

- **Keep handles dry, clean and free from oil and grease.**

Slippery handles do not allow for safe handling and control of the tool in unexpected situations.

### **Machine-related safety instructions**

– **The tools must be rated for at least the speed marked on the power tool.**

Tools running over rated speed can fly apart and cause injury.

– **Always use the sealing brushes.** They protect the operator from wooden chips and unintentional contact with the tool.

– **Hold power tool by insulated gripping surfaces, because the cutter may contact its own cord.**

Cutting a "live" wire may make exposed metal parts of the power tool "live" and could give the operator an electric shock.

– **Keep hands away from the cutting area.**

Never place your hand under TOT! plexiglass base while the tool is running.

– **Only cutters recommended by router producer for this purpose may be mounted on the power tool.**

# **TOT! Instruction manual**

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The use of other cutters is prohibited due to the increased risk of injury.

– **Never use dull or damaged flattening bits.**

Dull or damaged bits can cause the tool lead to a loss of control of the power tool.

– **Wait until the power tool stops completely until placing it down.**

The tool can become entangled and lead to a loss of control of the power tool.

## **Health hazard by dust**

**WARNING!** Various dust created by power sanding, sawing, grinding, drilling and other construction activities contains chemicals known (to the State of California) to cause cancer, birth defects or other reproductive harm. Some examples of these chemicals are:

- lead from lead-based paints,
- crystalline silica from bricks and cement and other masonry products, and
- arsenic and chromium from chemically treated lumber.

The risk from these exposures varies, depending on how often you do this type of work. To reduce

your exposure to these chemicals: work in a well-ventilated area, and work with approved safety equipment, such as dust masks that are specially designed to filter out microscopic particles. Wash hands after handling.

## **Intended use**

The TOT! cart is intended to be use with the router on router sled for wooden slab / board flattening.

All applications beyond this are regarded as unintended use.

The TOT! router sled is designed and approved for use by trained persons or specialists only.

The user is liable for improper or non-intended use.

**TO REDUCE THE RISK OF INJURY, USER MUST READ INSTRUCTION MANUAL.**

## **IMPORTANT NOTICE**

Please keep in mind that result of your flattening will be as accurate as your router sled and its base.

Verify before flattening that your router sled is leveled in both directions.

Please visit us for more information and check the video tutorial at [www.takeonetoo.com](http://www.takeonetoo.com) or contact us at [europe@takeonetoo.com](mailto:europe@takeonetoo.com).

TOT! router sled instantly eliminates amount of dust in the air during the flattening and helps you keep your working environment cleaner and safer.

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Always Work Safe! Make sure you always wear proper protection.

Store all parts of TOT! router sled clean and in good condition, it helps extend their lifetime.

Take special attention to bearing wheels and sealing brushes and clean them regularly.

**Never leave the router cart in the middle of the cross rail's length after finishing work, as the rails may bend permanently!**

**TOT! Complete pack DOES NOT include router, spare parts, or aluminum profiles (router sled rails)!**

TOT! system is designed for 40x80mm aluminum profiles Bosch Rexroth.

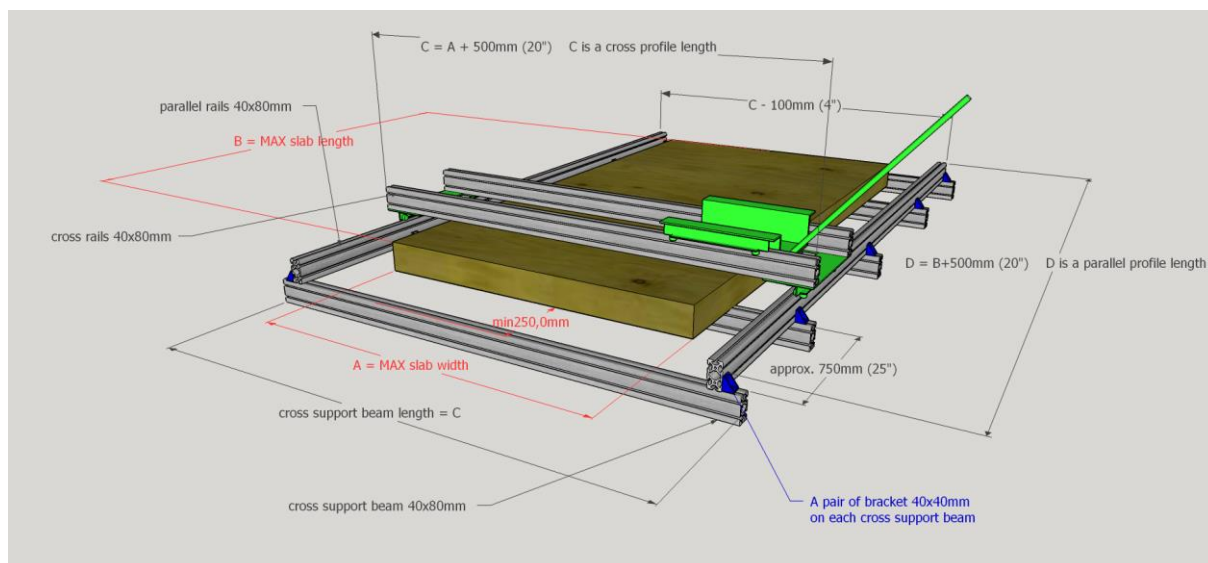
You can use any brand of 40x80mm profiles with 10mm T-slot, in the same shape and dimension as Bosch Rexroth profiles.

Calculation of lengths for parallel and cross profiles is very simple - take the max dimensions of your slab and add to the length + 50 cm (20") for parallel and also + 50 cm (20") to the width for cross profiles.

For example, for 3 x 1,5 m big slab you will need 4m long parallel and 2m long cross rails.

When you will use for example 2m long cross profiles, your router sled base has to be 1,9m wide - (each side 2" or 5cm overhang according to following sketch)

**If you want to build the same self-supporting frame as you can see [here](#), you will need the following:**



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- **2 pieces** Parallel rails PROFILE 40X80L
- **2 pieces** Cross rails PROFILE 40X80L (or **2 pieces PROFILE 45X90**, if your cross profiles would be longer than 200cm - in this case, you would need 50mm long brushes instead of 20mm)
- **A few pieces** Cross support beams PROFILE 40X80L (approx. each 750mm)
- **2 pieces** Bracket 40x40mm / per cross beam -[see how to use the bracket 40x40](#)
- **4 pieces** T-bolt HS10-M8X20 / per cross beam
- **4 pieces** Collar nut M8 / per cross beam
- **10 pieces** T-SLOT STONE 10 M8 (end stop)
- **20 pieces** T-SLOT STONE 10 M6 - 12pcs [for assembly cross rails together with parallel wheels holders](#) (12 pcs screws M6x16mm + washers are including in TOT! Complete pack)

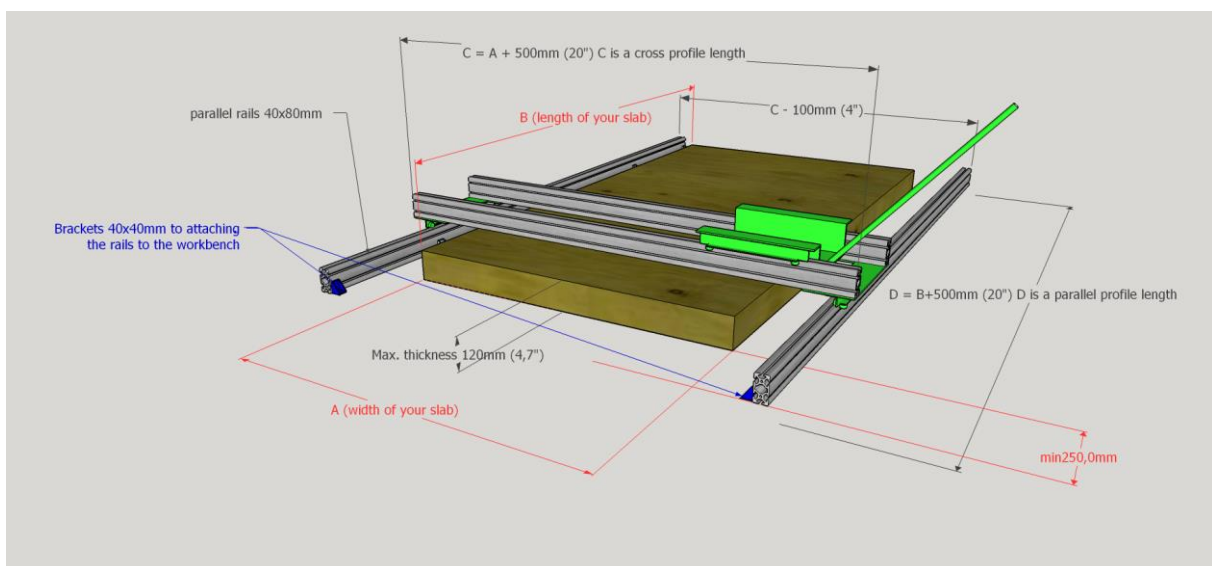
*Optional:*

[M8X50mm -CLAMPING LEVER](#) (you can order at our e-shop) - 2 pcs for locking router cart in any position (2pcs for X and 2 pcs for Y-axis)

[Slider, 08-10 Slot](#) (you can order at our e-shop) - 2 pcs for a smooth move between locking router cart in any position with Clamping levers

[M8X40-STAR KNOB](#) (you can order also at our e-shop) - 4 to 8 pcs for end-stops

**We always recommend flattening your slabs on the workbench, because the work with your back straight is healthier, easier, more comfortable, faster, and safer**



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**In case you will attach parallel rails to your tabletop/router sled base as we do [here](#), then you will need the following:**

- **2 pieces** Parallel rails PROFILE 40X80L
- **2 pieces** Cross rails PROFILE 40X80L (or **2 pieces PROFILE 45X90**, if your cross profiles would be longer than 200cm - in this case, you would need 50mm long brushes instead of 20mm)
- **20 pieces** T-SLOT STONE 10 M8
- **20 pieces** T-SLOT STONE 10 M6 - 12pcs [for assembly cross rails together with parallel wheels holders](#) (12 pcs screws M6x16mm + washers are including in TOT! Complete pack)

**For attaching the parallel rails to the table:**

- **4 - 6 pieces** Bracket 40x40mm for [attaching rails to tabletop](#)
- **4 - 6 pieces** T-bolt HS10-M8X20
- **4 - 6 pieces** Collar nut M8

*Optional:*

**M8X50mm -CLAMPING LEVER** (you can order at our e-shop) - 2 pcs for locking router cart in any position (2pcs for X and 2 pcs for Y-axis)

**Slider, 08-10 Slot** (you can order at our e-shop) - 2 pcs for a smooth move between locking router cart in any position with Clamping levers

**M8X40-STAR KNOB** (you can order also at our e-shop) - 4 to 8 pcs for end-stops

You will need **TOT! Complete pack** and router bit extension on 12mm or ½” shank.

You also might need **CMT 60 mm router bit** (our CMT 60mm surfacing bit has 12mm shank),

**1 pcs 330 mm extension** (if the sled is wider than 1,6m), **clamping dogs** and **locking jig**.

**Limitation of liability:** Green Oak Company will not be liable for any loss or damage arising from the Green Oak Company (and/or TOT! brand) product, whether direct, indirect, special, incidental or consequential, regardless of the legal theory asserted.



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1. [TOT! Complete pack](#) includes all the green parts in the sketches above – router cart, 660 mm handle, holders and wheels for both axes, plexiglass base, stainless steel flange for exhausting (50mm diameter), PVC 50/40 mm exhausting adapter, and 3 sets of sealing brushes with 20, 30, and 40 mm long fiber.



2. A pair of sandblasted stainless steel holders with bearing wheels for parallel move of router sled. Holders fix cross profiles together.

A pair of plexiglass guards with 60 mm long screws included.



3. Sandblasted stainless steel joint for the handle.



4. A handle (a pair of handles – length of each is 330mm). Total length 660mm. Allows you easy handle also for wide slabs from one side of the router sled with one hand...





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5. Following items are counted for setting of all TOT!  
cart parts including all wheels and a pair of holders  
for parallel wheels.

3 pcs screws A-DIN 7991-A2 M5x20mm

3 pcs flat washers DIN 125- A2 5 mm

3 pcs nyloc nuts DIN 985-A2 M5

24 pcs M6X20/ISO7380-1-A2 screw head button  
imbus

74 pcs flat washers DIN 125- A2 6 mm

32 pcs nyloc nuts DIN 985-A2 M6

10 pcs M6 wing nuts - A2 butterfly nut DIN 315

4 pcs M6X60/ISO7380-1-A2 screw head button  
imbus

12 pcs M6X15/ISO7380-1-A2 screw head button  
imbus

12 pcs A2 spring washers 6 mm

1 pcs M8X15 – centering screw for wheels  
assembly

Fork key 1 pcs 8 mm / 10mm

Allen hex key: 1 pcs 3 mm and 1 pcs 4mm

## **Settings.**



Scan QR code to open TOT! settings video tutorials

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Full video tutorials you can find at <https://www.takeonetoo.com/tot-video-tutorials/>

## **Step1. Flange assembly**

Check video tutorial at:

<https://www.youtube.com/watch?v=E1KDg6SzEHs&t>

**1.1** You will need:

3 pcs screws A-DIN 7991-A2 M5x20mm,  
3 pcs flat washers DIN 125- A2 5 mm  
3 pcs Nyloc Nuts DIN 985-A2 M5  
Fork key 8 mm  
Allen hex key 3 mm



**1.2** **!!! FLANGE MUST BE PLACED ON RIGHT SIDE FROM THE CENTRE – ACCORDING THE PICTURE!!!**



**1.3** Put the flange on the plexiglass base.



**1.4** Put the screws through the flange's and plexiglass holes.



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- 1.5** From the bottom side put the washers on the screws.  
Then screw the nyloc nuts on the screws.



- 1.6** With Fork key 8 mm and allen hex key 3 mm tight all nuts.



- 1.7** Put the plexiglass base with flange onto the stainless steel cart according the picture.



## **Step 2. Nesting of router on plexiglass base**

**!!!ROUTER HAS TO BE UNPLUGGED FROM ELECTRICITY DURING WHOLE TIME!!!**

**!!! DO NOT DRILL BIGGER CENTER HOLE INTO PLEXIGLASS THAN ORIGINAL PRE-CUT 40MM HOLE IS. BIGGER HOLE, OR MORE HOLES WILL CAUSE HUGE DECREASE OF SUCTION EFFICIENCY OF TOT! DUSTLESS CART!!!**

Check video tutorial at:

<https://www.youtube.com/watch?v=t5dxd5sifNo>

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Full video tutorials you can find at <https://www.takeonetoo.com/tot-video-tutorials/>

- 2.1** For exact router nesting use router bit with sharp tip.



- 2.2** Fix the router bit with sharp tip to the router.



- 2.3** Put the router on the plexiglass base.



- 2.4** Carefully set the router to the bottom position. Router bit's sharp tip has to be placed into the center of nesting hole. Lock the router in this position.



- 2.5** Put the plastic reduction 50/40 mm on the stainless steel flange. Hold the routers with both hands. Try to change setup of the router from highest to the bottom position, switch on and off the router's switch and unlock and lock the router in the bottom position. All these operations must be doing safe and comfortable for your hands. Find the best nesting position by rotating the router around the center of router bit's sharp tip in the center of nesting hole in the bottom position of the router. If you are sure that you found the best nesting position, try in this position again changing setup of the router from highest to the bottom position, switching on and off the router's switch and unlock and lock the router in the bottom position. If you can comfortable and safe handle all operation, you can mark this position to the plexiglass base.



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- 2.6** For marking use permanent pen and mark exact position of router's base to the plexiglass. **Before deciding on the final position of the base, ensure that the screw positions in the router's base plate are above the free space in the cart (i.e. not directly above the stainless steel) If the position above the stainless steel is necessary, use countersunk head screws.**

If your router is Festool OF 2200, the best way is using [Base runner LA-OF 2200 D36 Item number 494677](#)



- 2.7** Take out the router from TOT! cart and loose the screws from router's base.



- 2.8** Dismantle the router's base



- 2.9** Put the router's base exact on the marked line on the plexiglass.



- 2.10** Secure the router's base exact on the marked line on the plexiglass.

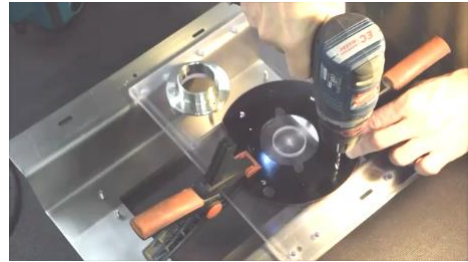




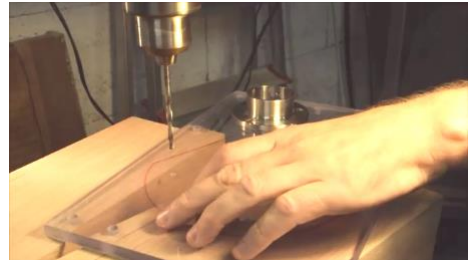
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- 2.11** With the same drill bit diameter as diameter of router's base holes mark all holes by drilling 1 - 2 mm deep holes into the plexiglass. !!! DO NOT DRILL THE PLEXIGLASS THROUGH !!!



- 2.12** With the same drill bit diameter as diameter of router's base screws, drill all the marked holes on the stand drill press.



- 2.13** Carefully break open the centering 40mm plexiglass wheel from the plexiglass base.



- 2.14** Remove the nesting 40mm plexiglass wheel from the plexiglass base.



- 2.15** Clean the edges of the centering hole with a file.



- 2.16** Place the plexiglass plate on the bottom of the router.



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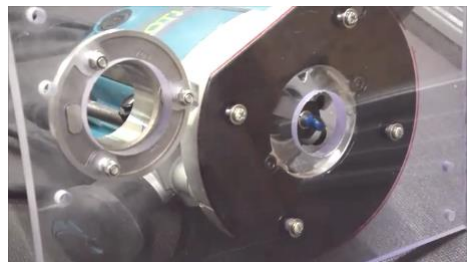
- 2.17** If the plexiglass plate does not fit straight on the bottom of the router, first place the router base plate on the bottom of the router and place the plexiglass plate on the router base plate. The stainless steel flange must be in this position on the underside of the plexiglass plate.



- 2.18 Use the Pan head screws and flat washers!!! Tight the screws by hand screwdriver, DO NOT USE THE POWER DRILL!!!** If the plexiglass plate fits straight, screw the plexiglass plate to the bottom of the router. You will need longer screws to attach the plexiglass base. Calculate the required screw length by adding 10 mm (plexiglass thickness) to the original base plate mounting screw if you also used a milling base plate. If you did not use the router base plate, the required screw length will be the sum of the original screw length + 10 mm plexiglass thickness - the base plate thickness of the cutter.



- 2.19** After tightening the screws, the router is attached to the plexiglass plate.



## **Step3. Router bit assembly**

**!!!ROUTER HAS TO BE UNPLUGGED FROM ELECTRICITY DURING WHOLE TIME!!!**

**!!!For the right choice of surfacing router bit and router bit extension always follow instruction of your router producer and also instruction of your router bit and router extension producer!!!**

**!!!TOT! cart does not include router, router bit or extension for router bit!!!**

**Always follow max RPM written on the shank of router bit!!!**

**Check video tutorial at:**

**<https://www.youtube.com/watch?v=As7scWXzNx4>**



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## **3.1 TOT! router sled requires using a collet chuck extension and a router surfacing bit.**

In this case is used [CMT Clamping Collet Head - for S=12 mm D=12](#)

In this case is used [CMT surfacing router cutters with insert knives 663.004.11](#)

**ALWAYS USE RECOMMENDED MAX. RPM FOR YOUR ROUTER** according to the used router bit diameter and flattened material.

For example, CMT 60mm router bit has a maximum RPM of 18000, and the ideal RPM may vary from 12000 to 16000 depending on the particular router and wood.

If you are not sure which RPM is correct for your router, contact your router manufacturer.

## **3.2 Put the router bit into your router bit extension as deep as possible.**

## **3.3 Fix them tightly together.**

## **3.4 Put the extended router bit into the router through the center hole in the plexiglass as deep as possible.**



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- 3.5** Tighten tightly extended router bit into the router.



- 3.5** The right depth of router bit in the router allows the router bit rotate freely into the center hole in the plexiglass base.



## **Step 4. Wheels assembly**

Check video tutorial at:

<https://www.youtube.com/watch?v=o2Ap48S0sko&t>

- 4.1** You will need for each set of wheels:

4 pcs M6X20/ISO7380-1-A2 Screw M6x20 Head  
button imbus

12 pcs flat washers DIN 125- A2 6 mm

4 pcs nyloc Nuts DIN 985-A2 M6

4 pcs bearing 626 2Z

Fork key 10 mm

Allen hex key 4mm



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- 4.2** For assembly of upper wheel put the screw into the hole according the picture.



- 4.3** Put the washer onto the screw.



- 4.4** Onto the screw with washer put bearing and then put onto the bearing next washer.



- 4.5** Then put nut on the screw and tight them tightly with fork key 10 mm and allen hex key 4 mm. Try if bearings can rotate easy.



- 4.6** Repeat assembly on the other side of holder in the same way.  
Upper wheels assembled correctly you can see in the picture.



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- 4.7** For assembly of side wheel put the washer onto the screw



- 4.8** Onto the screw with washer put bearing and then put onto the bearing next three washers.



- 4.9** Put screw with bearing and washers from outside of the holder into the wide 6mm hole and tight them just easy with fork key 10 mm and Allen hex key 4 mm.  
This wheel will be set after is putt on the router sled profile.



- 4.10** Repeat assembly on the other side of holder in the same way.  
All four wheels assembled correctly you can see in the picture.



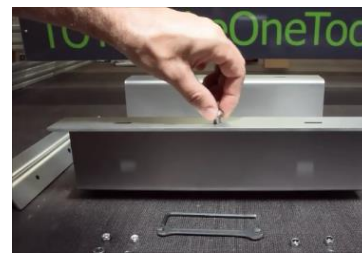
- 4.11** To fix each piece of wheels to the TOT! cart you will need:
- 4 pcs M6X20/ISO7380-1-A2 Screw M6x20 Head button imbus
  - 8 pcs flat washers DIN 125- A2 6 mm
  - 4 pcs nyloc Nuts DIN 985-A2 M6
  - 1pcs M8 centering screw,
  - Fork key 10 mm and allen hex key 4mm



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- 4.12** Screw the centering 8 mm screw into the 8 mm middle hole of TOT! cart.



- 4.13** Put wheels to the bottom side of the TOT! cart's mounting parts. Screw centering screw through the centering hole in the wheel's holder. Then put washer onto the 6 mm screw and screw it through the 6mm holes of TOT! cart and wheels holder. Repeat it with second screw.



- 4.14** From the bottom side of the TOT! cart put washers onto the both 6 mm screws and then put the nuts on them.



- 4.15** Then tight them tightly with fork key 10 mm and allen hex key 4 mm. Unscrew the centering 8 mm screw out of TOT! cart. Repeat the assembly of second wheels on the other side of TOT! cart in the same way.

Use the same way of wheels assembly also for attaching of wheels to the holders for parallel move.

<https://www.youtube.com/watch?v=XwUsAS6Book&t>



## **Step 5. Sealing brushes assembly**



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Full video tutorials you can find at <https://www.takeonetoo.com/tot-video-tutorials/>

Check video tutorial at:

<https://www.youtube.com/watch?v=rHM62c67Qro>

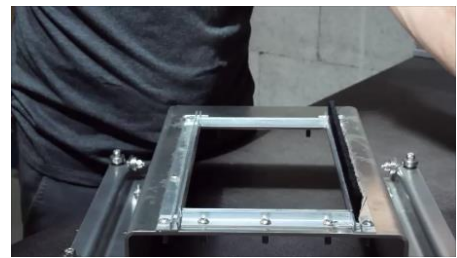
- 5.1** Dismantle securing R clips from the front of the aluminum F slots.  
Prepare to the assembly one set (4 pieces) of sealing brushes.  
Always use brushes with the same length of fibers.



- 5.2** Insert long sealing brush into the long F aluminum slot until is spring at the end of slot pushed. Then insert securing R clip back into the front holes of F aluminum slot. Release the sealing brush. It has to hold tightly into the F aluminum slot.



- 5.3** Release the sealing brush. It has to hold tightly into the F aluminum slot.



- 5.4** Insert both short cross sealing brushes into the short cross F aluminum slots.



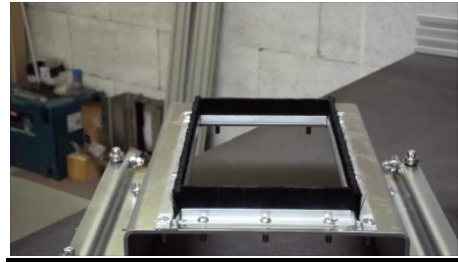
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- 5.5** Insert long sealing brush into the long F aluminum slot until is spring at the end of slot pushed. Then insert securing R clip back into the front holes of F aluminum slot. Release the sealing brush. It has to hold tightly into the F aluminum slot.



- 5.6** Check if all sealing brushes are holding tightly into the F aluminum slots and if there is no gap among them.

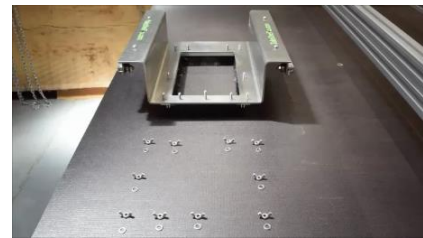


## **Step 6. How to assembly router with plexi base on TOT! cart**

Check video tutorial at:

<https://www.youtube.com/watch?v=b2brAk9phSk>

- 6.1** To fix plexi to the TOT! cart you will need:
- 10 pcs M6 Wing Nuts - A2 Butterfly Nut DIN 315
  - 10 pcs flat washers DIN 125- A2 6 mm

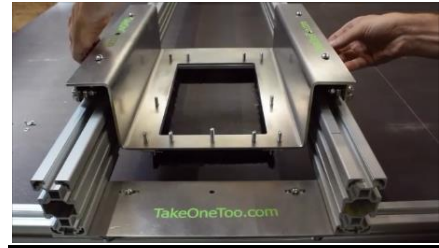




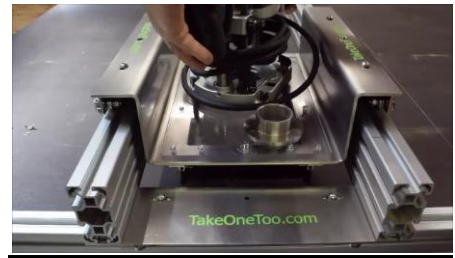
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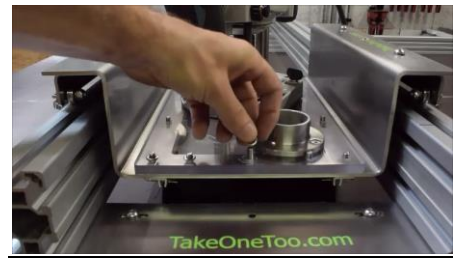
- 6.2** Put the TOT! cart onto the cross profiles of router sled. Set all side wheels as close to profile as possible and tight them tightly with fork key 10 mm and allen hex key 4 mm.



- 6.3** Insert router with the plexi base into the TOT! cart. All screws of TOT! cart have to go smooth through the 6,5mm holes in the plexi base.



- 6.4** Put all washers onto the screws, except the closest flange screw which is will not be secured.



- 6.5** Put all butterfly nuts on the screws and tight them firmly...



- 6.6** Put the vacuum cleaner hose adapter onto the stainless-steel flange. In case your vacuum cleaners' hose is 50 mm, cut the adapter at the end of 50 mm part. In case your 32 mm hose does not fit accurate into the adapter, use blue tape to tune the adapter diameter.



# **TOT! Instruction manual**

Full video tutorials you can find at <https://www.takeonetoo.com/tot-video-tutorials/>

## **Cross rails assembly**

**<https://youtu.be/MiVEErKN960>**

You will need:

- 12 pcs screws M6x15 mm + washers (you find them in TOT! Complete pack).
- 12 pcs T-Slot nuts M6

**TOT! Complete pack does not include 12 pieces of T-SLOT nuts M6 since each aluminum profile producer can use a different shape and dimensions. Order 12 pcs T slot nuts M6 together with your rails!!!**

A pair of sandblasted stainless steel holders fix cross profiles together.

Cross profiles have to be min. 10cm longer than the outside distance of parallel profiles!!

Assembly cross rails together with the holders according to video tutorial <https://youtu.be/MiVEErKN960>

## **Step 7. Wheels for parallel move assembly**

Check video tutorial at:

**<https://www.youtube.com/watch?v=iHwYgQ-LSFg>**

**7.1** You will need for each set of wheels:

4 pcs M6X20/ISO7380-1-A2 Screw M6x20 Head  
button imbus

12 pcs flat washers DIN 125- A2 6 mm

4 pcs Nyloc Nuts DIN 985-A2 M6

4 pcs bearing 626 2Z

Fork key 10 mm Allen hex key 4mm



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- 7.2** For assembly of parallel wheels use the same settings as in **Step 4**.

Instead of M6 x 20mm screws, use M6 x 60mm !!!

Check video tutorial for parallel wheels assembly at:

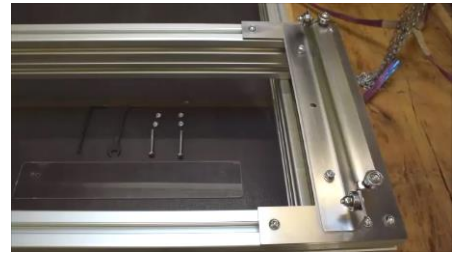
<https://www.youtube.com/watch?v=XwUsAS6Book>



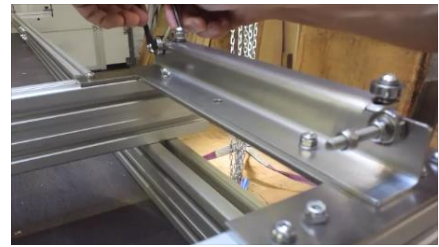
- 7.3** For assembly of each plexi guard for parallel wheels you will need:

2 pcs M6X60/ISO7380-1-A2 Screw head button imbus

4 pcs Nyloc Nuts DIN 985-A2 M6



- 7.4** Lose the screw with bearing.



- 7.5** Replace the screw M6x60 instead of M6x20.



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- 7.6** Repeat assembly of the bearing in the same way as at the screw M6x20.



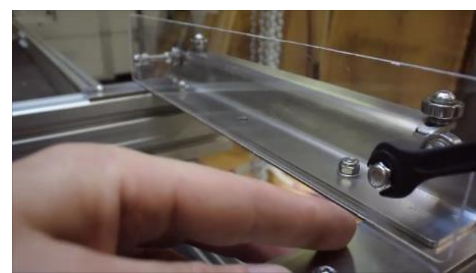
- 7.7** Put the nyloc nuts M6 approx. 15mm from the end onto the both screws M6x60.



- 7.8** Put the plexiglass guard onto M6x60 screws. Screws have to go through the holes in plexiglass guard.



- 7.9** Put the another nyloc nuts M6 onto the both screws M6x60.  
End of the nut should be in one line with end of the screw to secure of nuts movement. Tight the nyloc nuts with 10 mm fork key.



- 7.10** Tight the inside nyloc nuts with 10 mm fork key. Plexiglass guard has to be locked tightly between the nyloc nuts.



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## **Using of TOT! router sled.**

1. Try to shim and brace slab to maximize the finished thickness and minimize the amount of cutting you must do. When the slab is properly adjusted and stable fix them to the router sled base.
2. Set your router bit on the highest point in the slab. Adjust the depth of cut just 1 mm lower. Traverse the entire slab carefully to ensure you correctly identified the highest point.
3. Always start work from right side of the slab to the left. Sealing brushes installed on TOT! cart have to overlap edge of flattened wood in range 2 to 12 mm as it is shown at <https://www.youtube.com/watch?v=lgw7Gf4NFO0> . In case the sealing brushes do not overlap the edge of flattened wood, immediately stop the flattening and change the sealing brushes for next length (instead 20mm use 30mm etc.), because dust will go out through the gap between wooden surface and sealing brushes.
4. You can use cross cut move and handle TOT! cart with 660mm handle as you can see here <https://www.youtube.com/watch?v=i7YNlcGJ0Pw> Always change the direction of move over flattened surface in the clockwise direction! Never change direction of move directly from forward to back! Sealing brushes are hard and during changing direction directly from forward to back can lift the whole cart and you risk the injury or damage!!! Check the right move at <https://www.youtube.com/watch?v=uqIM3r7EMYE>
5. For parallel flattening along the grains you can use 3 different ways. First one we recommend for beginners and for flattening big slabs. In this case use TOT! cart with lock cross move as you can check at [https://www.youtube.com/watch?v=jldi\\_oDjO28](https://www.youtube.com/watch?v=jldi_oDjO28) When TOT! cart is locked in cross move during parallel flattening, TOT! cart have to left the flattened surface for changing direction! Never change direction of move directly from forward to back when TOT! cart is over the flattened surface - you risk the injury or damage!!!

The second option of parallel flattening is using the locking jig as you can see here <https://youtu.be/EaxsUc7KKVw> At beginning try to use this way of flattening very carefully with depth of cut max 1mm!!!

Another option of parallel flattening we recommend only for skilled TOT! users. In this case is cross move locked only by holding firmly the TOT! cart handle and pushing of the handle to the cross rail simultaneously as you can see here: <https://www.youtube.com/watch?v=IGyyKW3y0Fw> At beginning try to use this way of flattening very carefully with depth of cut max 1mm!!!

**For the smooth surface always end flattening with 0,2 - 0,3 mm depth of cut!!!**

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## **IMPORTANT NOTE:**

TOT! router sled's dustless system was designed to flatten the wood.

TOT! router sled can be used on larger resin surfaces under the following conditions:

**ON EPOXY SURFACE ALWAYS USE A SLIGHTLY LOWER RPM THAN ARE RECOMMENDED MAX. RPM FOR YOUR ROUTER BIT, USE A LOWER DEPTH OF CUT AND SMALL SPEED OF MOVE**

Anyway keep in mind, that the epoxy behaves during flattening totally different than wood. Wood is split into small chips and mostly dust.

Opposite that, epoxy has tendencies makes long strips which are stuck together. It is more difficult to exhaust these strips in the same way as wooden dust. Epoxy chips can clog sealing brushes and exhausting hose too.

**!!!Epoxy chips can permanently damage sealing brushes if brushes are not protected properly!!!**

Please visit our Instagram profile at <https://www.instagram.com/p/B1JEHZCoQ3I/> and check out how to quick and easy protect sealing brushes with a strong duct cloth tape.

In large surfaces of epoxy, we strongly recommend:

1. protect sealing brushes with a strong duct cloth tape!
2. use 50 mm hose with a dust collector!
3. check repeatedly sealing brushes and exhausting hose during flattening of the epoxy surface!
4. always keep sealing brushes clean!
5. clean sealing brushes before/after every use!
6. Replace immediately damaged sealing brushes for the new one!

**You can use this protection for wood as well!**

In Green Oak company we are doing our best to make workshops environment a cleaner and better place for our common passion – woodworking job.

**TOT!** is a brand of the Green Oak Company.

All TOT! products are designed and made in Slovakia.

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