



Operating manual
DOVETAIL JIG
CMT300



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CMT Dovetail Jig

The CMT300 Dovetail Jig is designed to rout $\frac{1}{2}$ " half blind dovetails using a dovetail router bit and a template guide bushing. The following optional accessories can be used to rout other kinds of joints:

- 6,35mm ($\frac{1}{4}$ ") half blind dovetails
- 8mm ($\frac{5}{16}$ ") box joints
- 12,7mm ($\frac{1}{2}$ ") box joints
- 12,7mm ($\frac{1}{2}$ ") through dovetails
- 19mm ($\frac{3}{4}$ ") through dovetails

Standard Equipment:

Joint size:	half blind dovetail 12,7mm ($\frac{1}{2}$ ")
Max. stock width:	305mm (12")
Stock thickness:	12-25mm ($\frac{7}{16}$ " to 1")
Template guide diameter:	15,8mm ($\frac{5}{8}$ ")
Weight:	6,2kg (13.6 pounds)
Max. dia. of router base:	180mm ($7\frac{1}{16}$ ")

ASSEMBLY

Illustration B1

Thread the screw # 15 into the body from the inside of the extrusion, using the hex key to tighten the screw. Thread the aircraft-type hex nut #2 onto screw #15 from the front of the jig. Slip on washer #11 and screw on the knob #12. Repeat this procedure on the other end of the jig.

Attach the edge guides #3 with screws #10. As shown in illustration C1, these guides should be placed in position "U1" on the top surface of the jig, and in position "F1" on the face of the jig. (see illustration C1)

Attach the rubber feet #16 to the bottom of the jig.

Illustration B2

Attach brackets #13 to template #5 with the countersunk holes upward, using screws #14.

Illustration B3

Assemble the clamping bars #4, springs #9 and washers #8 as shown, and attach this assembly using the knobs #7.

Illustration B4

Attach the template with brackets to the jig. The template brackets # 13 should slip between the template adjustment nut #2 and the washer #11. Tighten the knob #12.

Edge guides system CMT300

Illustration C1

The edge guides are used to position the workpieces in the jig. There are four holes each in the top and face of the jig. The position of the edge guides will dictate whether a whole or partial pin will be cut on the edge of the workpiece. This is called the offset. If you wish to adjust the position of your workpiece to control the size of the first pin and make the joint symmetrical, simply make a spacer to place between the fixed edge guide and your workpiece. Note: getting the pin placement symmetrical may require some test cuts in scrap stock.

The distance between the edge guide locations marked as "U1" and "U2" on the top is 9,5mm ($\frac{3}{8}$ "). This is for rabbeted drawer fronts.

Template adjustment

Illustrations C2, C3

- 1) Depending upon the thickness of your stock, you will need to adjust the position of the template to control the depth of the pin sockets. Loosen the knobs #12, then turn the hex nut #2 to move the template in or out in relation to the jig.
- 2) Turn adjustment nut towards jig body for deeper sockets, or out for shallower sockets.
- 3) To set up the position for the template, align the setting line marked on the template with the front edge of workpiece that is secured by top clamp. This piece will be either the front or back of the drawer.
- 4) One turn of the adjustment nut equals 1mm movement.
- 5) Once the template is in position, tighten the knob.
- 6) Ensure template is always parallel to workpiece.

Mounting the jig on a workbench or work board

Illustration D1

Attach the jig body to a work board or workbench with the screws supplied.

Aligning workpiece

Illustration D2

The top surface of the horizontal workpiece (drawer front or back) must be flush with the end of the vertical workpiece (drawer side). Be sure that both pieces are snug against the underside of the template.

Clamping bars and knobs

Do not overtighten the clamping bars and clamping knobs. The clamping bar must be tightened parallel to the jig. Unless your stock is very wide (nearly 305mm , 12"), the workpiece will be set to one side of the jig. In this case, it is advisable to release the clamping knob farthest from the workpiece first.

Important notes:

All drawings show left hand edge guides being used. The same procedure is carried out for right hand edge guides

All dimensions are approximate.

All bit depths are as a guide only, make test cuts in scrap stock before routing joints in your workpiece.

Setting up the Router

- 1) Always unplug the router before making any adjustments or changing bits.
- 2) Attach the template guide to the router. Refer to the table in each appropriate section.
- 3) To insert the bit, plunge the router so the collet almost touches the template guide.
- 4) Insert the router bit into collet and tighten.
- 5) Set router bit height as shown in **illustration D3**. Refer to table in relevant section.

Illustration D4

The template guides supplied with the jig and accessories will fit most DeWalt, Elu and other routers directly. For other models of routers an optional sub-base may be required to attach the template guides. The sub-base has been designed for use with a variety of routers. It also provides concentricity between router bit and template ensuring accuracy.

The optional sub-base provides greater accuracy and concentricity of the template guide, resulting in more precise joints. We recommend the use of the sub-base with all types of routers which do not accept our template guides directly.

STANDARD 1/2" HALF BLIND DOVETAIL JOINT

Illustration E

Use the standard template . Both parts of joint are routed at same time.

Joint Description	Edge Guide Information			Ø Guide Dimensions	Router Bit	Cutting depth
	Diameter	Colour	Position			
12,7mm (1/2") Half Blind	Ø 10mm	Silver	U1	15,8mm 5/8"	Ø 1/2" x 1/2" x 14deg. Ø 12,7 x 12,7mm x 14deg.	17mm (11/16")
	Ø 10mm	Silver	F1			

Stock preparation

It is important to plan your work before you start to rout.

Always label the workpieces as shown in **Illustration E1**.

FRONT / BACK / RIGHT / LEFT .

D = BOTTOM PART

X1 = LEFT PART

Y1 = FRONT PART

X2 = RIGHT PART

Y2 = FRONT PART

X3 = RIGHT PART

Y3 = BACK PART

X4 = LEFT PART

Y4 = BACK PART

X parts will be clamped under the front clamp bar and Y parts under the top clamp bar. Even numbers are placed against left hand edge guide, odd numbers against right hand edge guide.

Note: All dimensions shown in this manual do not include production tolerances of template guides, templates and router bit. Therefore use these dimensions as a guide only and always make a trial cuts before you start routing your drawers.

Workpiece width

This 12,7mm (1/2") half blind template can be used with stock from 7/8" to 12" wide. For symmetrical pin placement, use this table as a guide:

# of whole tails:	1	2	3	4	5	6	7	8.
ideal stock width: inch	7/8"	1-11/16"	2-1/2"	3-3/8"	4-1/4"	5-1/16"	5-15/16"	6-3/4"
mm	21,5	43	64,5	86	107,5	129	150,5	172

SET UP

- Attach edge guides to the jig in the positions listed in the table above.
- Place X workpiece into front clamp bar. Tighten front clamp knobs.
- Place Y workpiece into top clamp bar.
- Push Y workpiece tightly against the edge guide and workpiece X. Tighten top clamp knobs.
- Retighten X workpiece, so that the top of front X workpiece is flush with the top of workpiece Y and snugly against edge guide.
- Tighten front clamp knobs .
- Adjust template position to align the setting line with the edge of the workpiece under the top clamp. One rotation of template adjustment nut stop equals 1mm.
- Tighten template assembly knobs.
- Attach the template guide to the router base.
- Install the dovetail bit in the router.
- Adjust the cutting depth of the dovetail bit according to table. **Note:** Recommended bit depths are approximate only, always make test cuts in scrap stock to determine the exact depth for your application!

Caution!

Ensure that both workpieces are clamped securely and that they touch the edge guides.

Always clamp only one set of workpieces . Ensure that the router bit does not touch the template brackets before and after cutting the joint.

Do not overtighten the knobs.

Tighten or loosen the joint by increasing or decreasing cutting depth of dovetail bit.

Routing

- Place the router on the template ensuring that the router bit does not touch the workpiece.
- Switch on. Make one very light cut from left to right, cutting only the front edge. This prevents breakout.
- Rout carefully from left to right following the fingers of the template with the template guide.
- Switch off the router and carefully remove from jig.
- Check that all slots are routed clean. If not, rout again.
- Remove the workpiece from the jig.
- Test joint.

ATTENTION!

Do not lift the router from the template as damage to the template and router bit will occur.

If the joint is not perfect :

- Joint too loose = increase cutting depth of router bit.
- Joint too tight = decrease cutting depth of router bit.
- Joint too shallow = move template towards the jig body.
- Joint too deep = move template away from the jig body.

STANDARD RABBETED 1/2" HALF BLIND DOVETAIL JOINT

Illustration F

Use standard template . Each part of joint is routed separately.

Note: In most cases, the rabbeted joint is used only on the drawer front. If you wish to use a standard half blind joint to connect the drawer sides to the back, make this joint using the instructions in the previous section.

Joint Description	Edge Guide Information			Ø Guide Dimensions	Router Bit	Cutting depth
	Diameter	Colour	Position			
Rabbeted 12,7mm (1/2") Half Blind	Ø 10mm	Silver	U2	15,8mm 5/8"	Ø 1/2" x 1/2" x 14deg. Ø 12,7 x 12,7mm x 14deg.	17mm (11/16")
	Ø 10mm	Silver	F1			

Set up

Attach edge guides to the jig in the positions listed in the table above.

Drawer front preparation

- Prepare workpiece about 19mm (3/4") longer and wider.
- Rout 9,5mm (3/8") wide and 11,1mm (7/16") deep rabbet into the edges of the workpiece.
- Place a 9,5mm (3/8") thick wooden spacer into front clamp and push tight against edge guide.
- Tighten the front clamp bar knobs .
- Place drawer front under the top clamp and butt against the wooden spacer and the edge guides. The top of the drawer front must be flush with the face of the spacer as shown in illustration F3.
- Tighten top clamp bar knobs.
- Remove the spacer from front clamp.
- Adjust the template position to align the setting line with the edge of drawer front. One rotation of adjustment nut equals 1mm.
- Tighten template assembly knobs.
- Attach template guide to router base.
- Install the dovetail bit in the router.
- Adjust the cutting depth of the dovetail bit according to the table.

Note: Recommended bit depths are approximate only, always make test cuts in scrap stock to determine the exact depth for your application!

Routing the drawer front

- Place the router on the template ensuring that the router bit does not touch the workpiece.
- Switch on. Make one very light cut from left to right cutting along the front edge. This prevents breakout.
- Rout carefully from left to right following the fingers of the template with the template guide.
- Switch off the router and carefully remove from jig.
- Check that all slots are routed clean. If not, rout again.
- Remove the workpiece from the jig.
- Test joint.

Drawer side preparation

- Place a 13mm (1/2") thick wooden spacer with the same width as the drawer under the top clamp.
- Place drawer sides into front clamp and push tight against edge guides. Ensure top of the drawer sides is flush with the upper surface of the wooden spacer.
- Tighten top and front clamp knobs.

Routing drawer sides

- Place the router on the template ensuring that the router bit does not touch the workpiece.
- Switch on. Make one very light cut from left to right cutting only the front edge. This prevents the breakout.
- Rout carefully from left to right following the fingers of the template with the template guide.
- Switch off the router and carefully remove from jig.
- Check that all slots are routed clean. If not, rout again.
- Remove the workpiece from the jig.
- Test joint.

If the joint is not perfect :

Joint too loose= increase cutting depth of router bit.

Joint too tight= decrease cutting depth of router bit.

Joint too shallow= move template towards the jig body.

Joint too deep= move template away from the jig body.

OPTIONAL TEMPLATES

1/4" HALF BLIND DOVETAIL TEMPLATE Illustration G

Both parts of joint are routed at the same time..

Joint Description	Edge Guide Information			Ø Guide Dimensions	Router Bit	Cutting depth
	Diameter	Colour	Position			
6,35mm (1/4") Half Blind	Top Ø 15,8mm (5/8")	Green	U1	7,8mm 7/8"	Ø 1/4" x 1/4" x 8deg. Ø 6,35 x 6,35mm x 8deg.	11mm (7/16")
	Face Ø 28,7mm (1-1/8")	Green	F2			

Stock preparation

Prepare parts using the instructions for the 1/2" Half Blind Joint, presented earlier in this manual.

Workpiece width

This 1/4" half blind template can be used with stock from 7/16" to 12" wide. For symmetrical pin placement, use this table as a guide:

# of whole tails:	1	2	3	4	5	6	7	8.
ideal stock width: inch	7/16"	7/8"	1-11/32"	1-3/4"	2-1/4"	2-5/8"	3-1/8"	3-9/16"
mm	11,3	22,6	33,9	45,2	56,5	67,8	79,1	90,4

Set up

- Attach edge guides to the jig in the positions listed in the table above.
- Place X workpiece into front clamp bar. Tighten front clamp knobs.
- Place Y workpiece into top clamp bar.
- Push Y workpiece tightly against the edge guide and workpiece X. Tighten top clamp knobs.
- Retighten X workpiece, so that the top of front X workpiece is flush with the top of workpiece Y and snugly against edge guide.
- Tighten front clamp knobs.
- Adjust template position to align the setting line with the edge of the workpiece under the top clamp. One rotation of template adjustment nut stop equals 1mm.
- Tighten template assembly knobs.
- Attach the template guide to the router base.
- Install the dovetail bit in the router.
- Adjust the cutting depth of the dovetail bit according to table.

Note: Recommended bit depths are approximate only, always make test cuts in scrap stock to determine the exact depth for your application!

Routing

- Place the router on the template ensuring that the router bit does not touch the workpiece.
- Switch on. Make one very light cut from left to right cutting only the front edge. This prevents the breakout.
- Rout carefully from left to right following the fingers of the template with the template guide.
- Switch off the router and carefully remove from jig.
- Check that all slots are routed clean. If not, rout again.
- Remove the workpiece from the jig.
- Test joint.

ATTENTION !

Do not lift the router from the template as damage to the template and router bit will occur.

If the joint is not perfect :

Joint too loose= increase cutting depth of router bit.

Joint too tight= decrease cutting depth of router bit.

Joint too shallow= move template towards the jig body.

Joint too deep= move template away from the jig body.

8mm (5/16") & 12,7mm (1/2") BOX JOINT TEMPLATES

Illustration H

Both parts of joint are routed at the same time.

Joint Description	Edge Guide Information			Ø Guide Dimensions	Router Bit
	Diameter	Colour	Position		
8 mm (5/16") Box Joint	Top Ø 14 x 6mm (9/16" x 6mm)	Blue	F1	11,1mm 7/16"	Ø 8 x 25mm Ø 5/16" x 1"
	Face Ø 21 x 25mm (13/16" x 25mm)	Blue	F2		
12,7mm (1/2") Box Joint	Top Ø 19,7 x 6mm (3/4" x 6mm)	Red	F1	15,8mm 5/8"	Ø 12,7 x 25mm Ø 1/2" x 1"
	Face Ø 17,3 x 31mm (11/16" x 31mm)	Red	F2		

Stock preparation

- Cut all pieces for box to the exact dimensions. Make sure ends are perfectly square and exact width.
- For symmetrical joints use widths of stock according to the table. Smallest width is equal to 3 times the size of the joint. For example, a 8mm (5/16") box joint has minimum width of 24mm (15/16").
- Both workpieces will be clamped together under the front clamp. The face side of one workpiece should be toward you, the face of the other piece should be toward the jig.
- Prepare a piece of scrap stock at least 6mm (1/4") thicker than your workpieces and long enough to be held securely by the top clamp. This scrap piece serves as a backer board to the workpieces and reduces the chance of tearout. See illustration H5

Set up

- Attach edge guides to the jig in the positions listed in the table above.
- Place X piece under front clamp with the inside surface towards you and push tight against edge guide.
- Tighten front clamp knobs.
- Place scrap piece into top clamp and butt against the X workpiece. Important: be sure this scrap stock is 1/4" thicker than your workpieces!
- Tighten top clamp knobs.
- Remove workpiece from front clamp.
- Turn template adjustment nuts until they are against the body.
- Tighten template assembly knobs, be sure the template is against the scrap stock.
- Place workpiece X under the front clamp with the face toward you, and piece Y under the clamp with the face toward the jig. Push tight against edge guides, and be sure the ends of workpieces are against against template.
- Tighten front clamp knobs.
- Install the template guide in the router.
- Install the router bit in the router.
- Adjust the cutting depth of the router bit to match the thickness of your stock.

Routing

- Place the router on the template ensuring that the router bit does not touch the workpiece.
- Switch on.
- Rout carefully from left to right following the fingers of the template with the template guide.
- Switch off the router and carefully remove from jig.
- Check that all slots are routed clean. If not, rout again.
- Remove the workpiece from the jig.
- Test joint.

ATTENTION !

Scrap stock must be 6mm (1/4") thicker than workpieces. Without this extra thickness severe damage may occur to your jig and router bit.

If joint is not perfect :

Joint too shallow= increase cutting depth of routerbit.

Joint too deep= decrease cutting depth of routerbit.

Adjust the template assembly according to this table and rout new joint again.

12,7mm (1/2") & 19mm (3/4") THROUGH DOVETAIL TEMPLATE Illustration I

Each part is routed separately, secured under the front clamp.

Joint Description	Edge Guide Information			Ø Guide Dimensions	Ø Dovetail bit	Ø Guide Dimensions	Ø Straight bit
	Diameter	Colour	Position				
12,7 mm (1/2") Through Dovetail	Ø 21,9 x 6mm Ø 7/8" x 6mm	Brown	F2	15,8mm 5/8"	Ø 12,7 x 20mm Ø 1/2" x 1" 8deg.	11,1mm 7/16"	Ø 8 x 25mm Ø 5/16" x 1"
19 mm (3/4") Through Dovetail	Ø 16,4 x 6	Violett	F2	22mm	Ø 19 x 22mm Ø 3/4" x 22mm 7deg.	15,8mm 5/8"	Ø 12,7 x 25mm Ø 1/2" x 1"

Stock preparation

- Cut all pieces for box to the exact dimensions. Make sure ends are perfectly square and exact width. For optimum width see table.
- Label the pieces as shown in illustration I1 & I2. Mark faces as inside and out.
- X parts will be clamped under front clamp bar and routed first with dovetail bit.
- Y parts will be clamped under front clamp bar and routed with straight bit.
- Ensure all pieces are clamped with the inside faces towards you. (Away the jig)
- Before joining the actual workpiece make a trial cut in waste scrap pieces.
- Prepare through dovetail scrap piece. Scrap piece must be 1/4" thicker than the workpiece. The waste piece reduces likelihood of breakout. **Illustration I3**

Workpiece width

This 1/2" through dovetail template can be used with stock from 1-1/4" to 12" wide. For symmetrical pin placement, use this table as a guide:

12,7 mm (1/2") Through Dovetail

# of whole tails:	1	2	3	4	5	6	7
ideal stock width: inch	1-1/4"	2-1/4"	3-1/4"	4-1/4"	5-1/4"	6-1/4"	7-1/4"
mm	31,6	57	82,4	107,8	133,2	158,6	184

19 mm (3/4") Through Dovetail

# of whole tails:	1	2	3	4	5	6	7
ideal stock width: inch							
mm	50,6	88,6	124,6	164,6	202,6	240,6	278,6

Set up

- Attach edge guides to the jig in the position indicated in the table above.
- Place X workpiece under front clamp bar, push tight against the edge guide and tighten the clamping knobs.
- Place a scrap piece under top clamp bar and butt against workpiece already installed. Scrap piece must be 6mm (1/4") thicker than workpiece. Be sure the top of front workpiece is flush with the scrap piece as shown in illustration I4 .
- Tighten top clamp bar knobs.
- With the tapered slots of the template facing toward you, adjust template adjustment nut so that the sight mark on the template aligns with the back of the workpiece, as shown in Illustration I6. Be sure template is parallel to the workpiece.
- Loosen the screws that hold the template plate to the template brackets. Remove the plate but leave the brackets attached to jig.
- Flip the template plate over so the parallel slots are towards are toward the front of the jig, then reattach the plate to the template brackets.

Routing X workpiece – Tails

- Attach the 15,8mm (5/8") template guide to the router.
- Install the dovetail bit in the router.
- Adjust the cutting depth of the dovetail bit so that it equals the thickness of the Y workpiece
- Place the router on the template ensuring that the router bit does not touch the workpiece.

- Rout carefully from left to right following the fingers of the template with the template guide.
- Switch off the router and carefully remove from jig.
- Check that all slots are routed clean. If not, rout again.
- Remove X workpiece from jig.

Scrap stock must be 6mm (¼") thicker than workpieces. Without this extra thickness severe damage may occur to your jig and router bit.

Routing Y workpiece – Pins

- Keep the scrap stock in place, it must be 6mm (¼") thicker than your stock.
- Loosen the screws that hold the template plate to the template bracket. Remove the plate but leave the brackets attached to jig.
- Flip the template plate over so the tapered slots towards are toward the front of the jig, then reattach the plate to the template brackets.
- Place Y workpiece under front clamp bar and push tight against edge guides . Tighten clamp bar knobs
- Install 7/16" template guide in router.
- Install straight bit in router.
- Adjust the cutting depth of the bit to equal the thickness of the X workpiece.
- Place the router on the template ensuring that the router bit does not touch the workpiece.
- Switch on.
- Rout carefully from right to left as shown in illustration I12.
- Switch off the router and carefully remove from jig.
- Check that all slots are routed clean. If not, rout again
- Remove Y workpiece from jig.
- Test fit joint.

If joint is not perfect :

Joint too loose = move template for pins towards the jig body.

Joint too tight = move template for pins away from the jig body.

Adjust the template assembly according to this table and rout new joint again.

SAFETY

- Before changing router bit or making any kind of adjustment, always turn off and unplug your router.
- Use protective glasses during routing.
- Use hearing protectors.
- Always use a dust-protection mask or respirator.
- Use dust collection.
- Do not wear loose clothes. Make sure that your sleeves are either rolled up or fastened and that you are not wearing a tie.
- Before starting your router remove all tools, nuts and other loose object from the work area.
- Avoid an inadvertent start of your router. Before you plug it in, verify the switch is in "off" position.
- Before you make any adjustments, wait till your router cutter completely stops.



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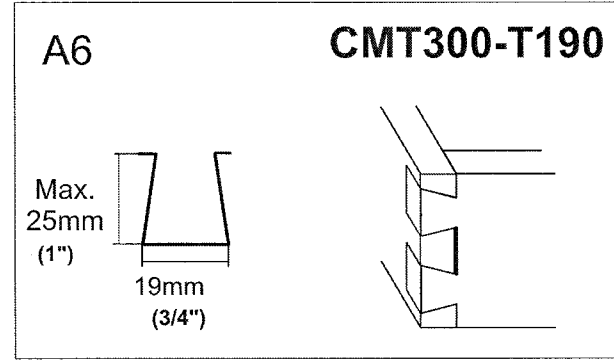
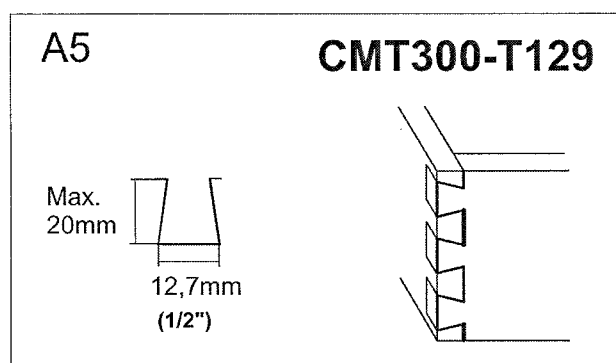
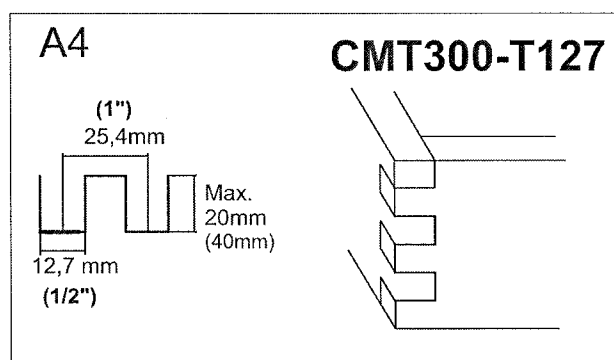
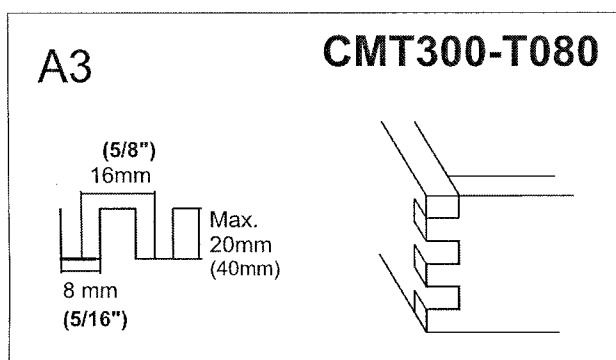
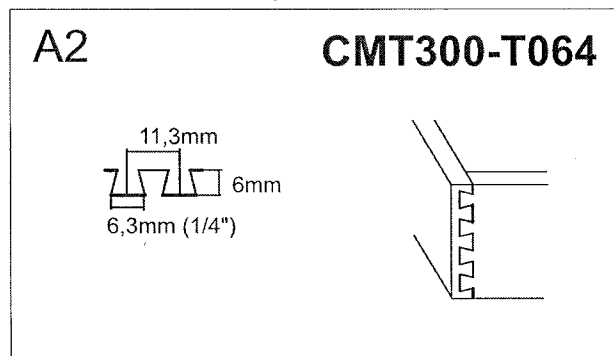
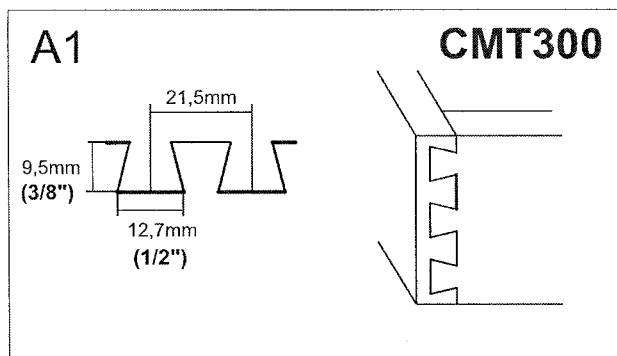
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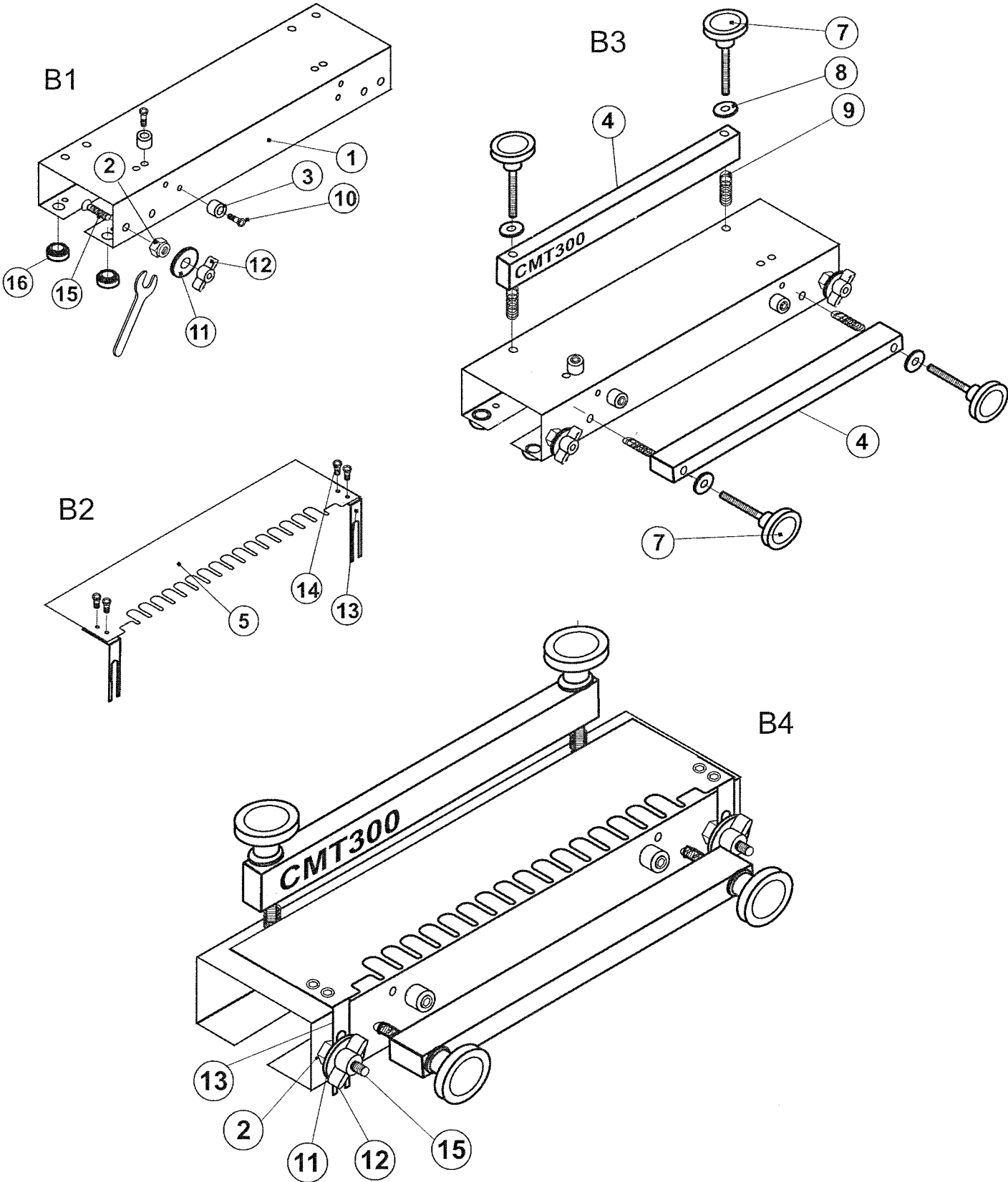
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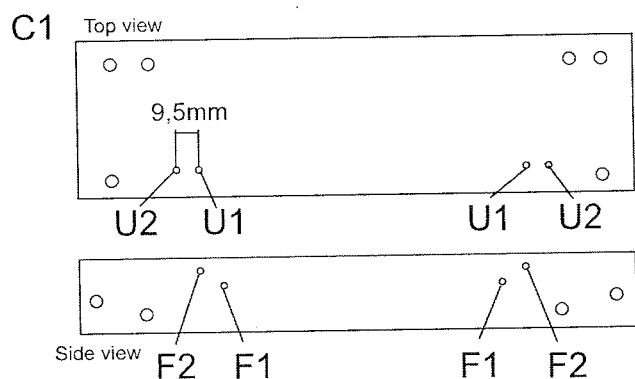
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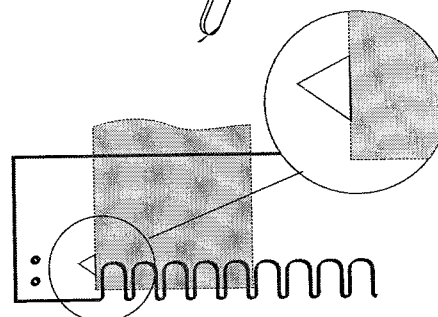
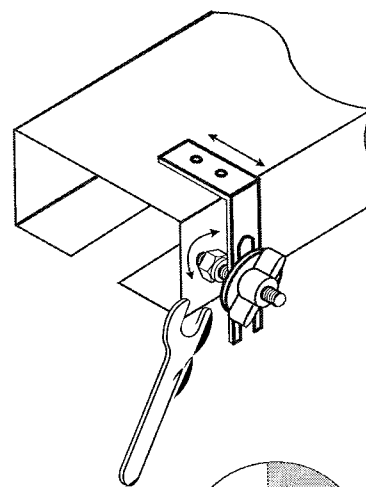
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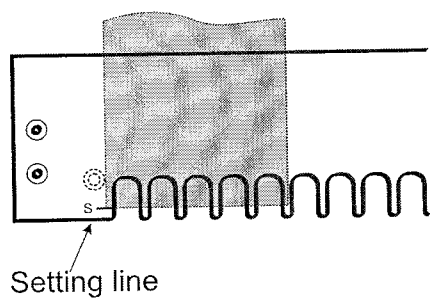




C2

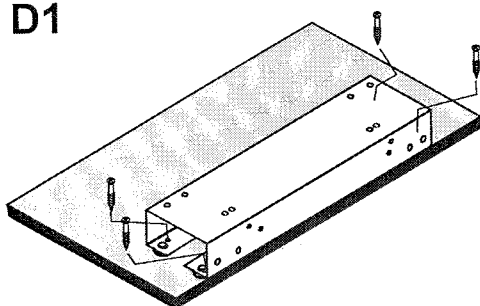


C3

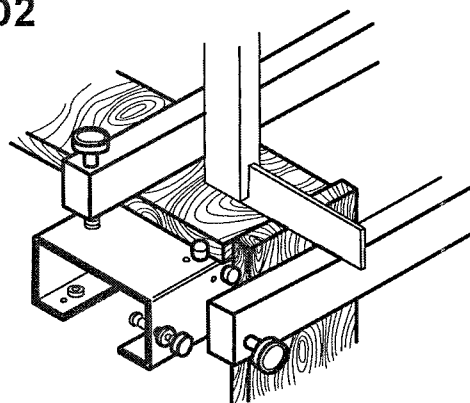


CMT300 Operating manual - Illustration D

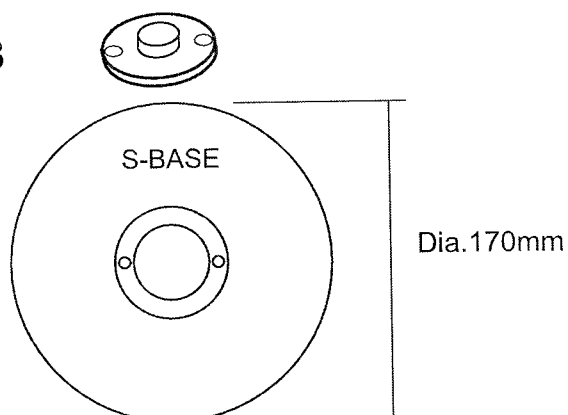
D1



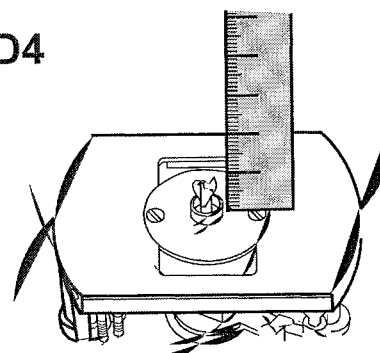
D2



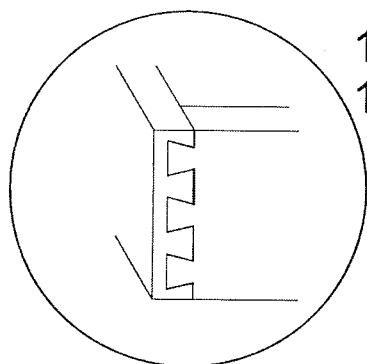
D3



D4

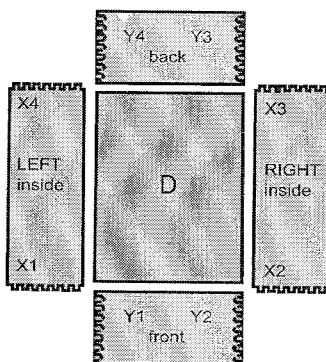


C - D

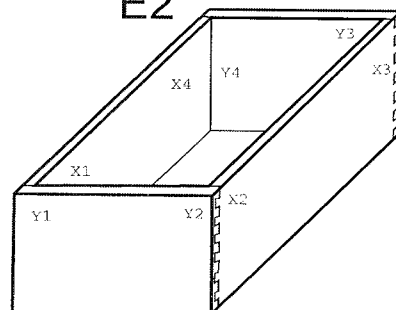


12,7mm
1/2"

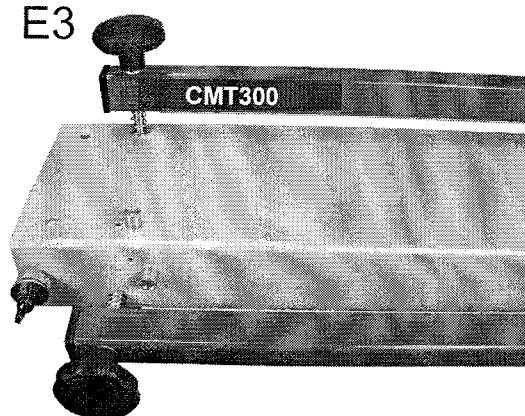
E1



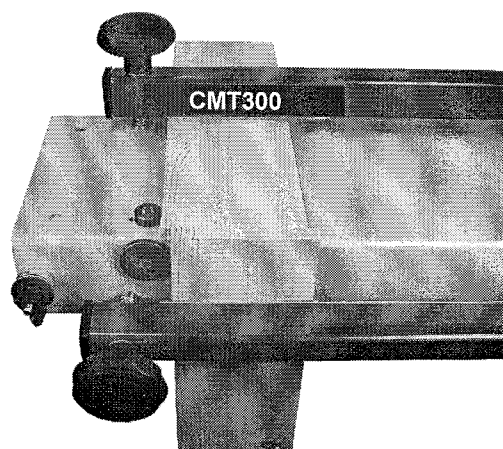
E2



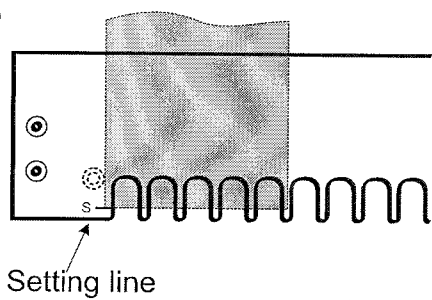
E3



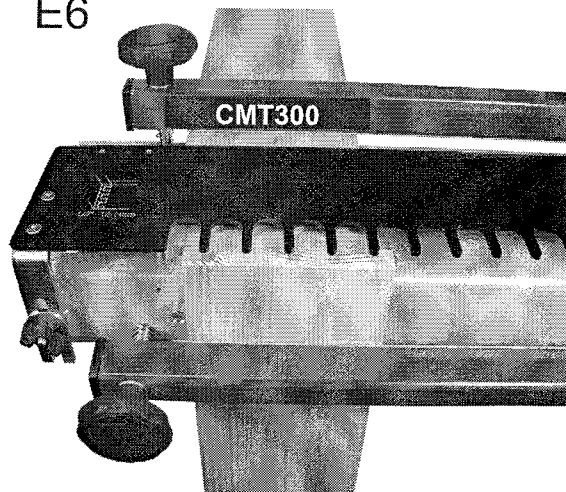
E4



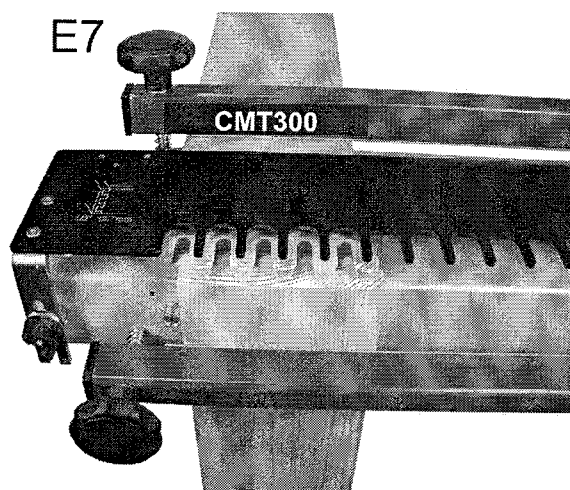
E5



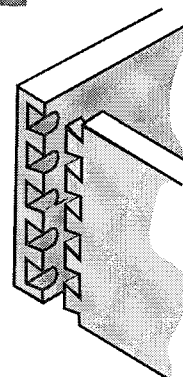
E6

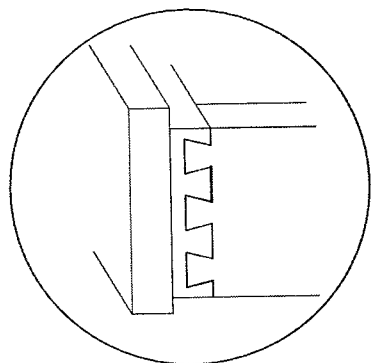


E7



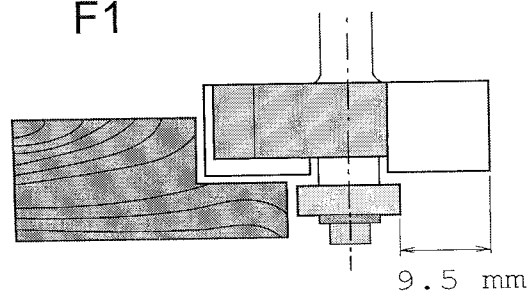
E8



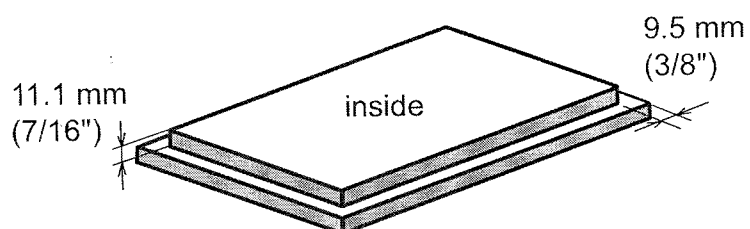


12,7mm
1/2"

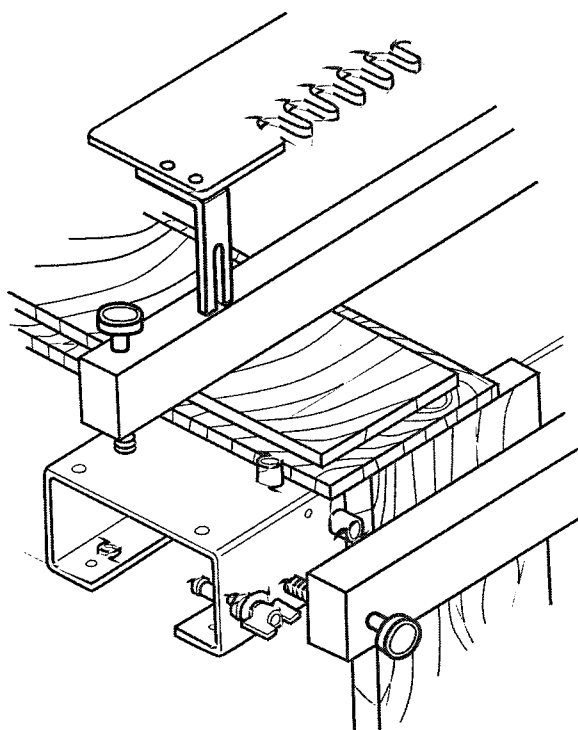
F1



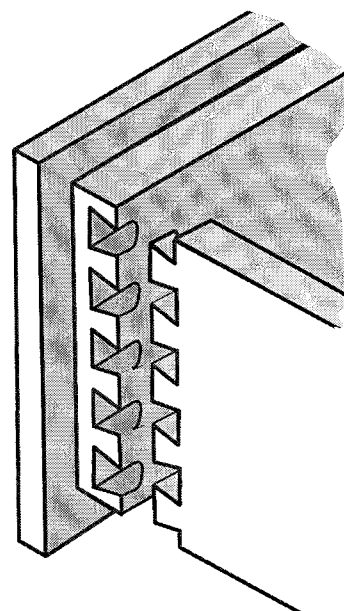
F2

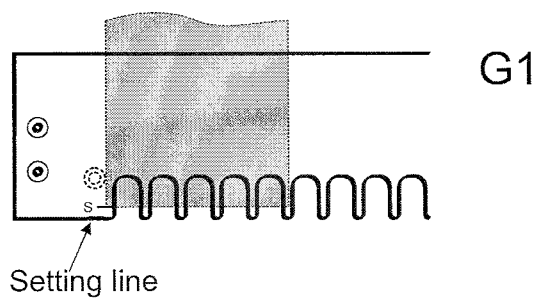
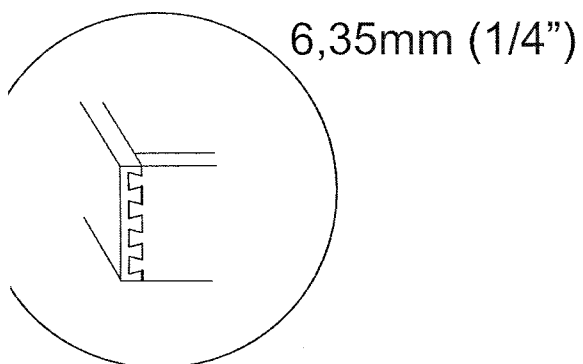


F3

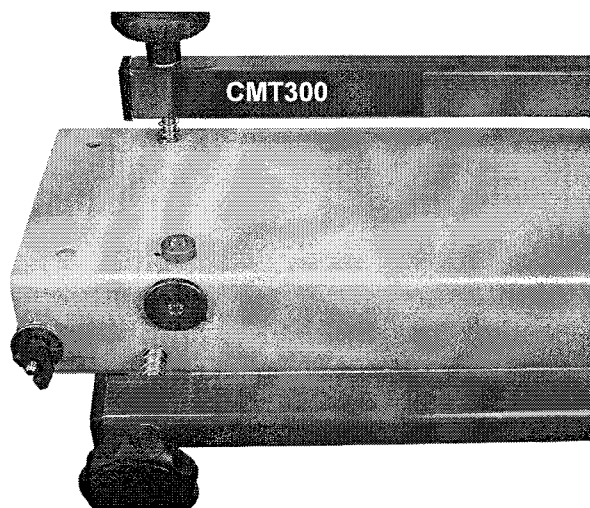


F4

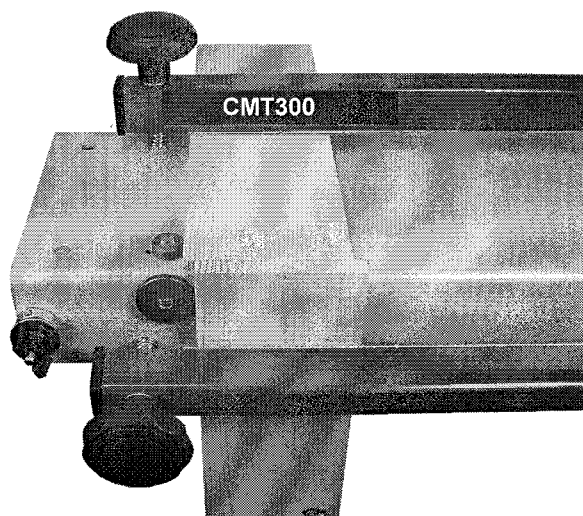




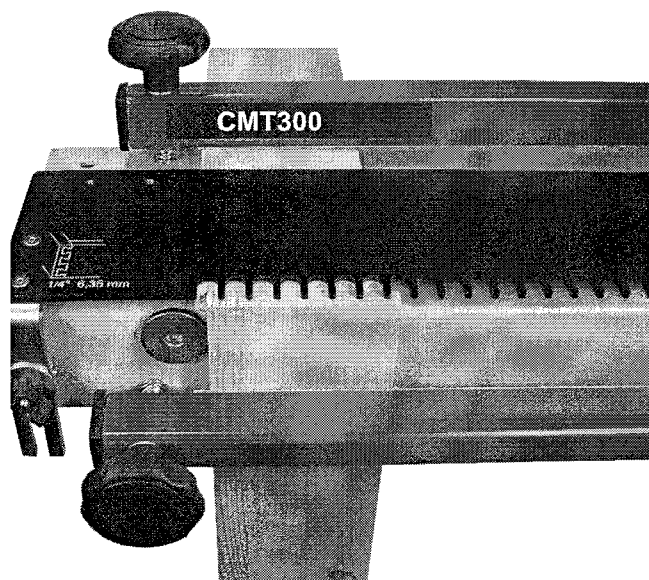
G2



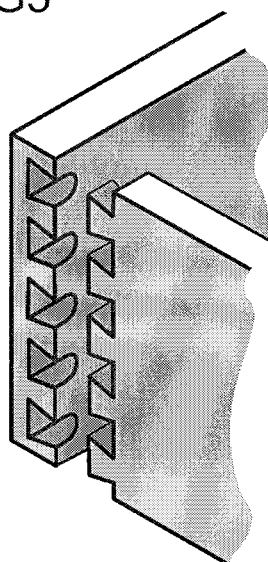
G3

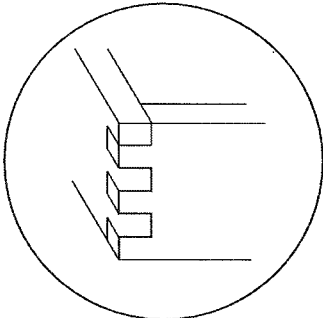


G4

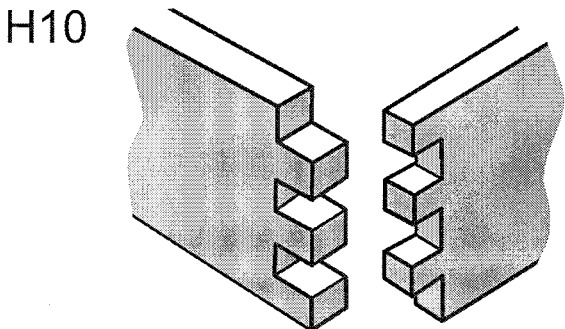
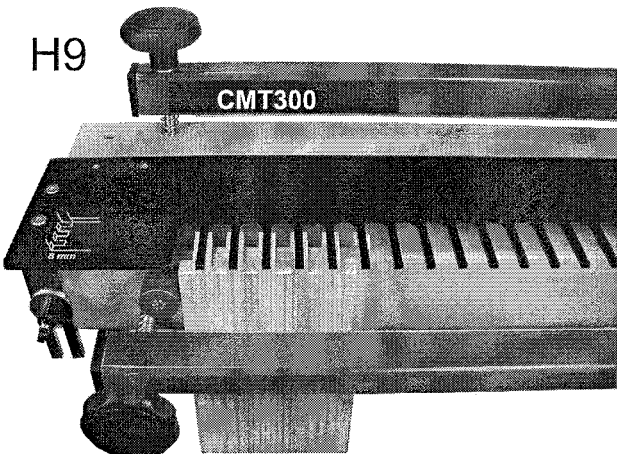
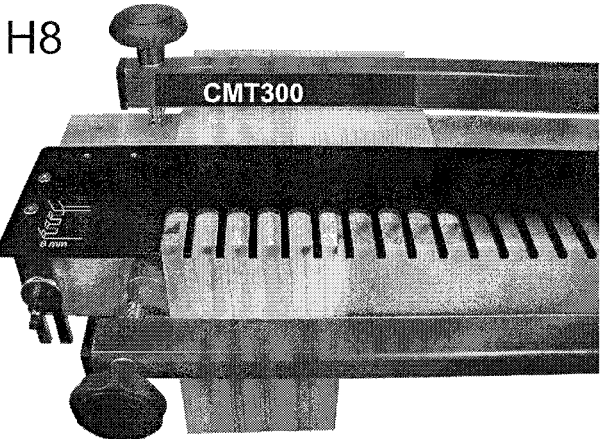
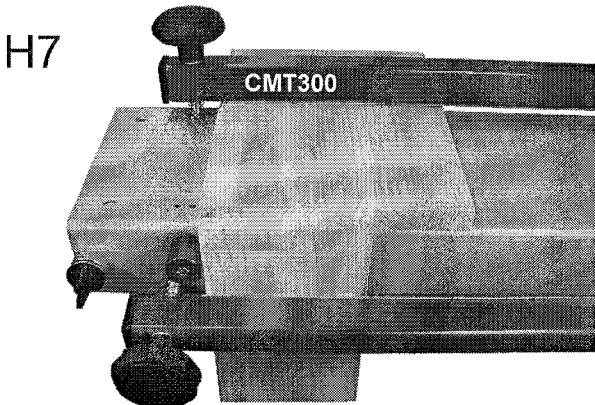
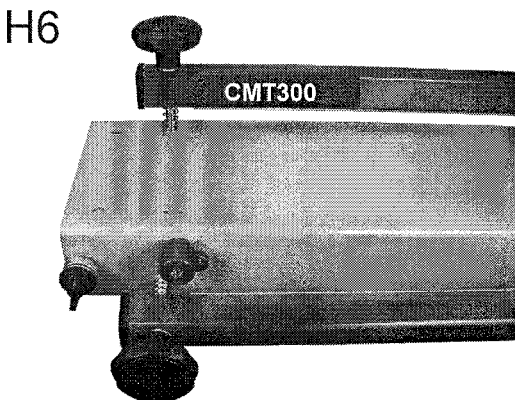
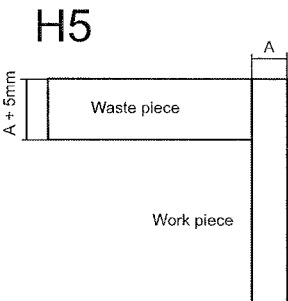
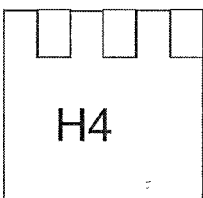
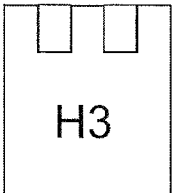
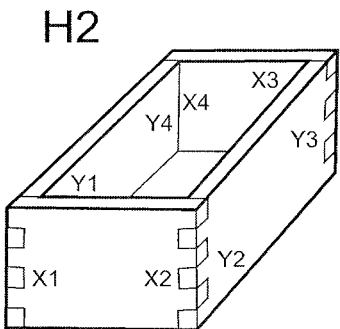
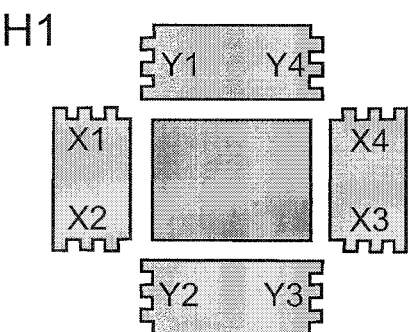


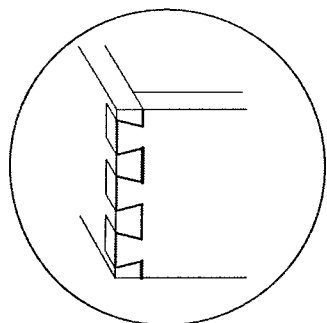
G5





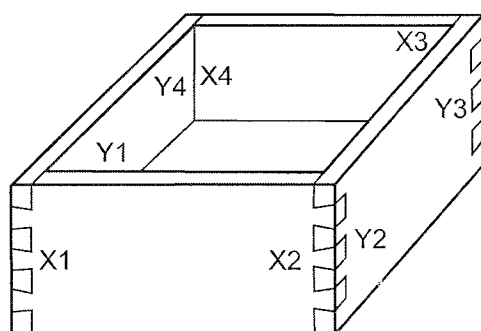
8 mm
12,7 mm



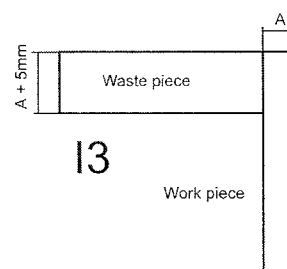
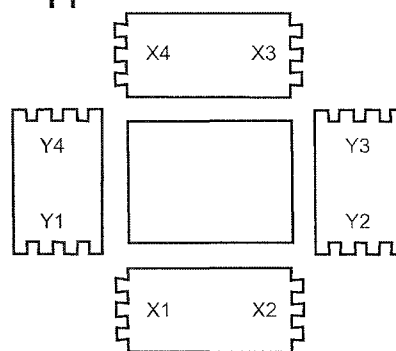


12,7mm (1/2")
19mm (3/4")

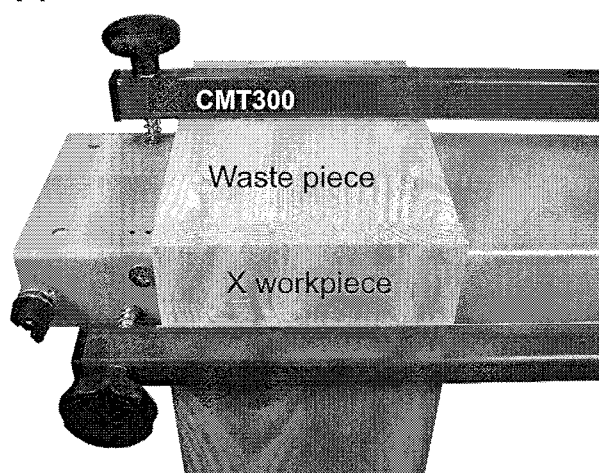
I2



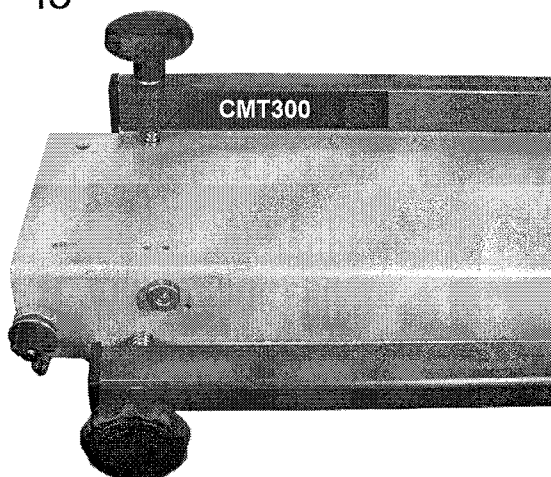
I1



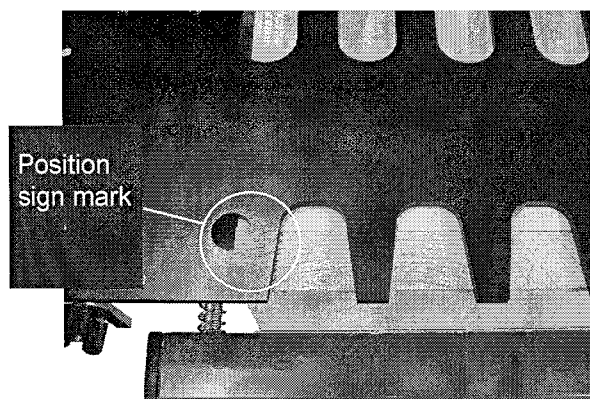
I4



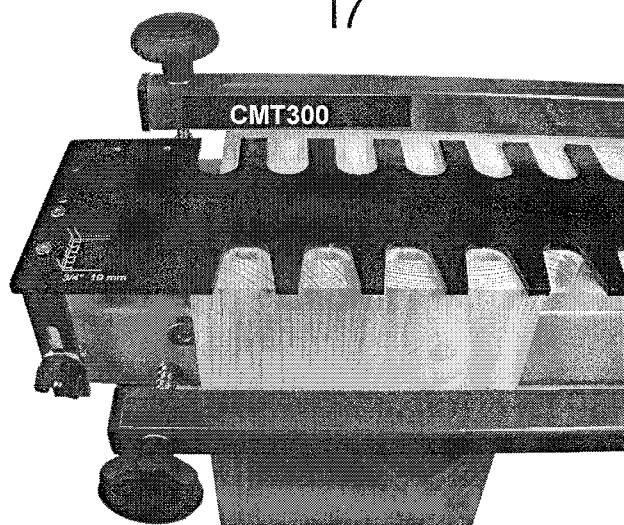
I5



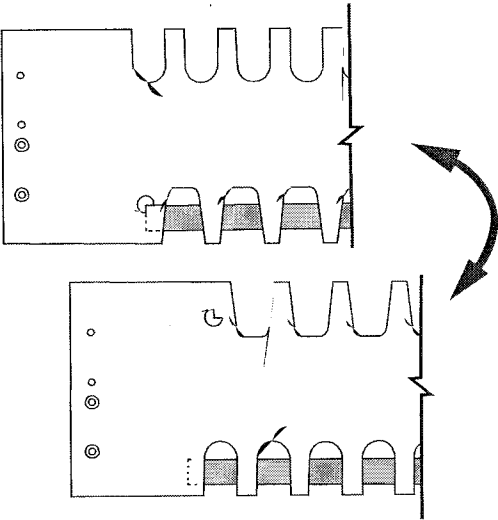
I6



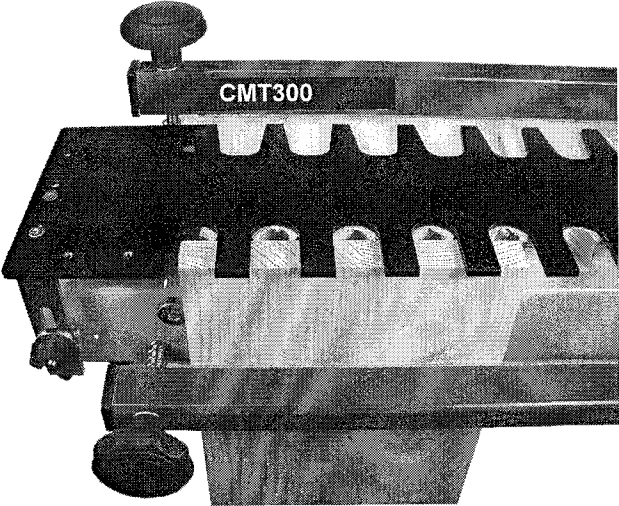
I7



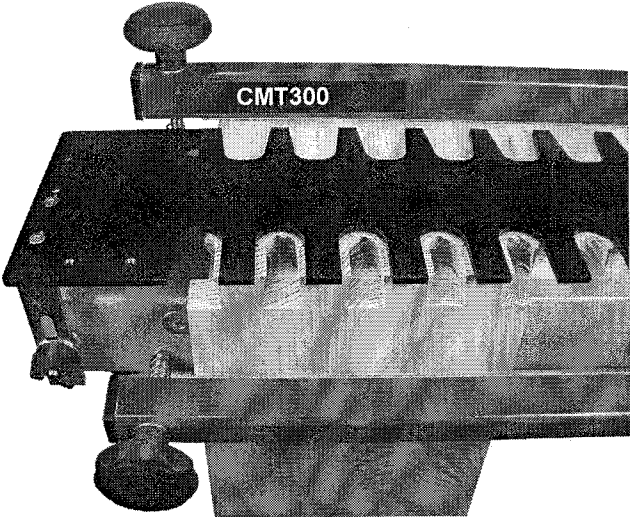
I8



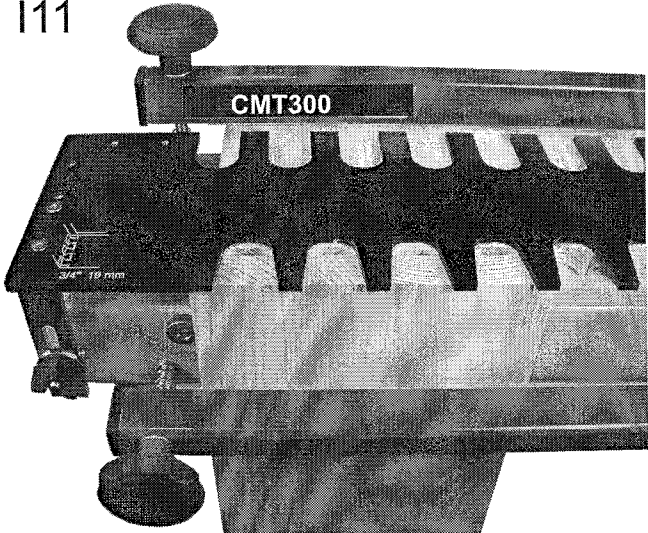
I9



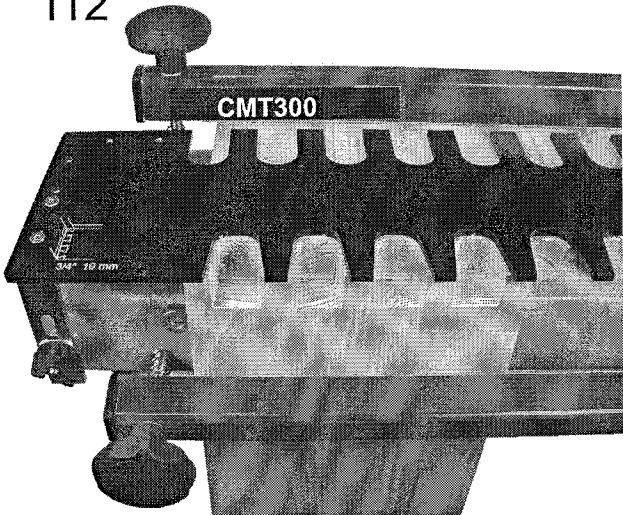
I10



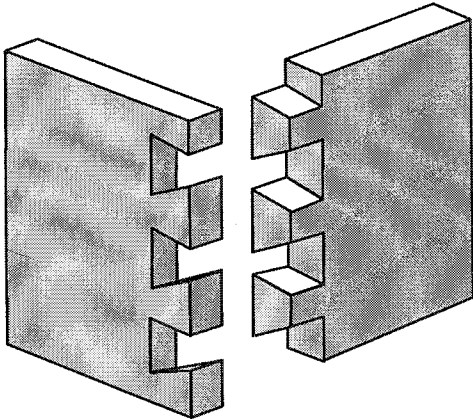
I11



I12

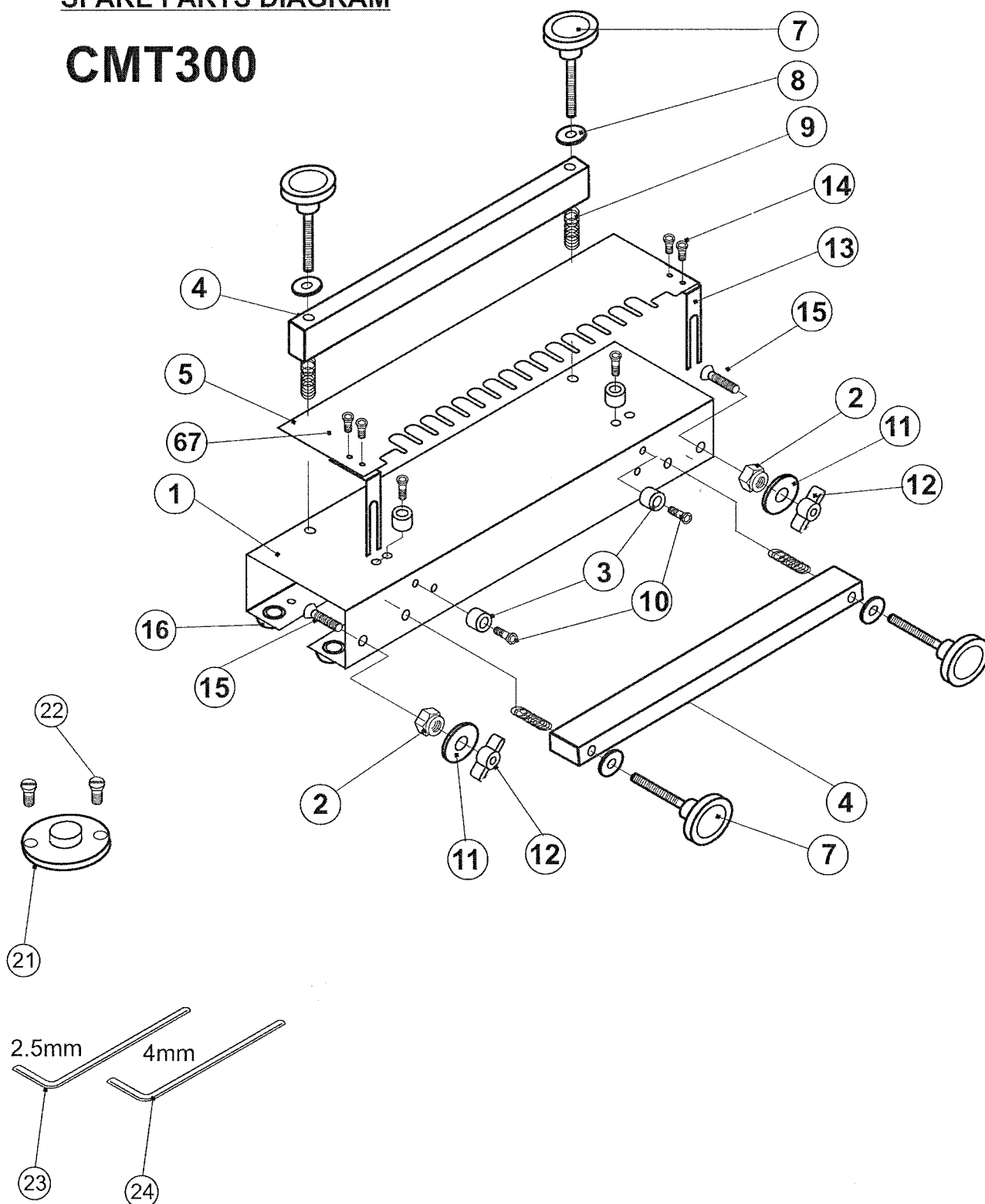


I13

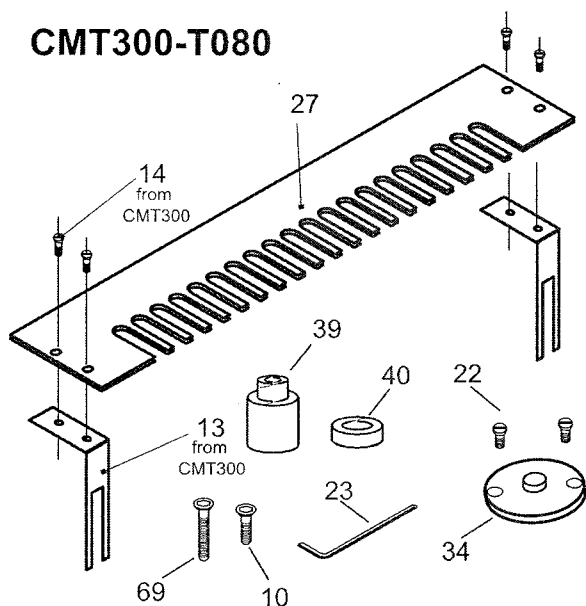


SPARE PARTS DIAGRAM

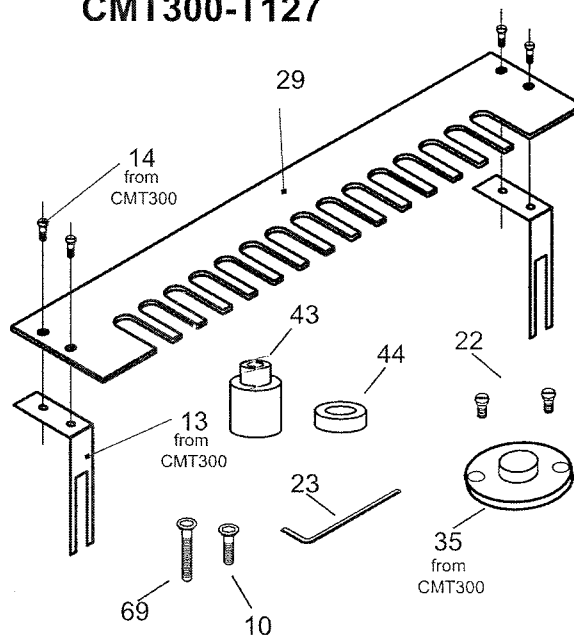
CMT300



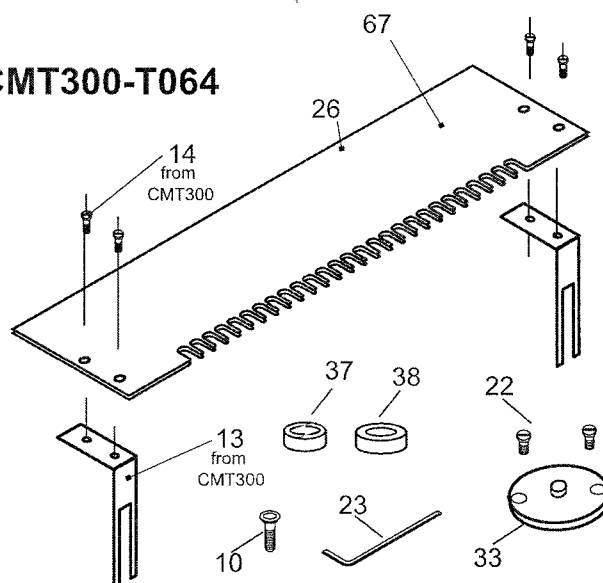
CMT300-T080



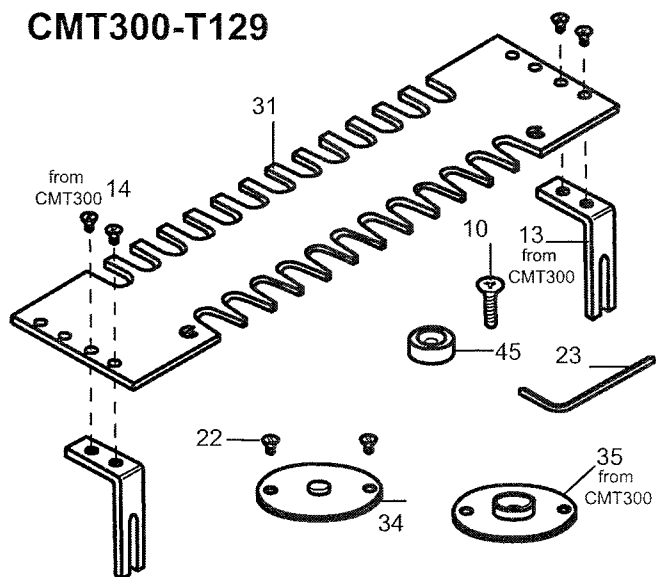
CMT300-T127



CMT300-T064



CMT300-T129



CMT300-T190

