joinery. **unmatched.**

The DOMINO system user manual.

Two men. One conversation. The origin of a brilliant idea: DOMINO connecting system.

There are numerous draft designs, CAD drawings, parts lists and documentation for our DOMINO connecting system. Yet the conversation and initial drawings where the idea was formed was on something a lot less imaginative: a napkin.

But first things first. To be precise, it was initially only an informal exchange between two Festool employees over lunch. They were dreaming what the optimal domino should be capable of.

And because nothing else was readily available, they sketched a domino on a napkin to represent the demand for 'more stability'. Then a second sketch next to it for a 'larger glue surface'. And finally a third for absolute 'rotation resistance' at the first attempt. Using the simple equation: make one from three, the DOMINO DF 500 domino system was set forth.

What was missing was the fitting mortise – and thus the real challenge began. That is to say, the development of a completely new tool. With the typical southern German inventiveness, infinite passion and the concentrated expertise of our engineers, a mix of traditional vertical bore and simultaneous horizontal routing movement was created – the birth of the DOMINO pendulum router principle as the driving force for the new DOMINO DF 500.

From its origins on a simple napkin, this concept continues to evolve. The larger DOMINO XL DF 700 will create a mortise for the newly developed DOMINO Connectors. These new connectors allow for rapid assembly of flat joints or corner joints utilizing Domino fasteners for knock-down design. This allows for rapid building, moving, and reassembling of large pieces.

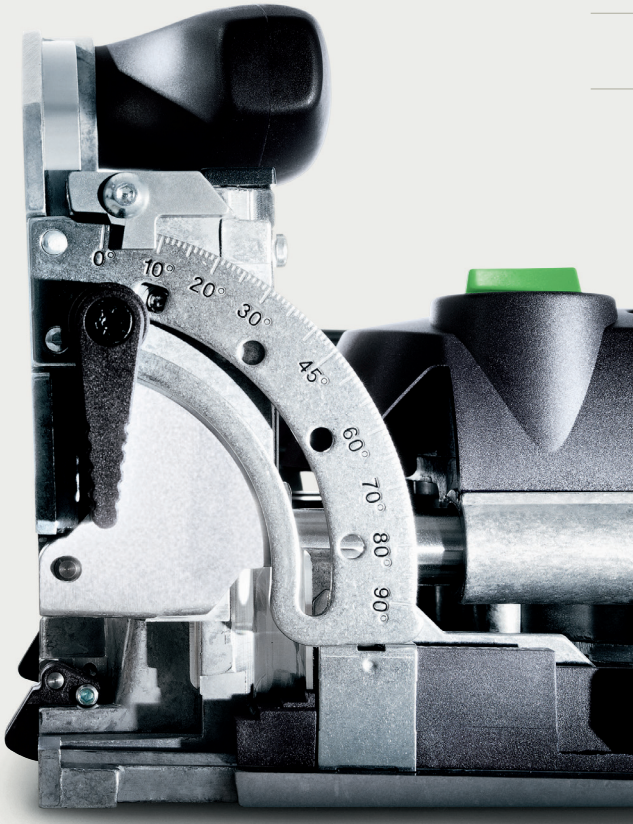

FESTOOL
DF 500 Q
FESTOOL
DF 700 EQ
FESTOOL
systainer
T-Loc

Contents

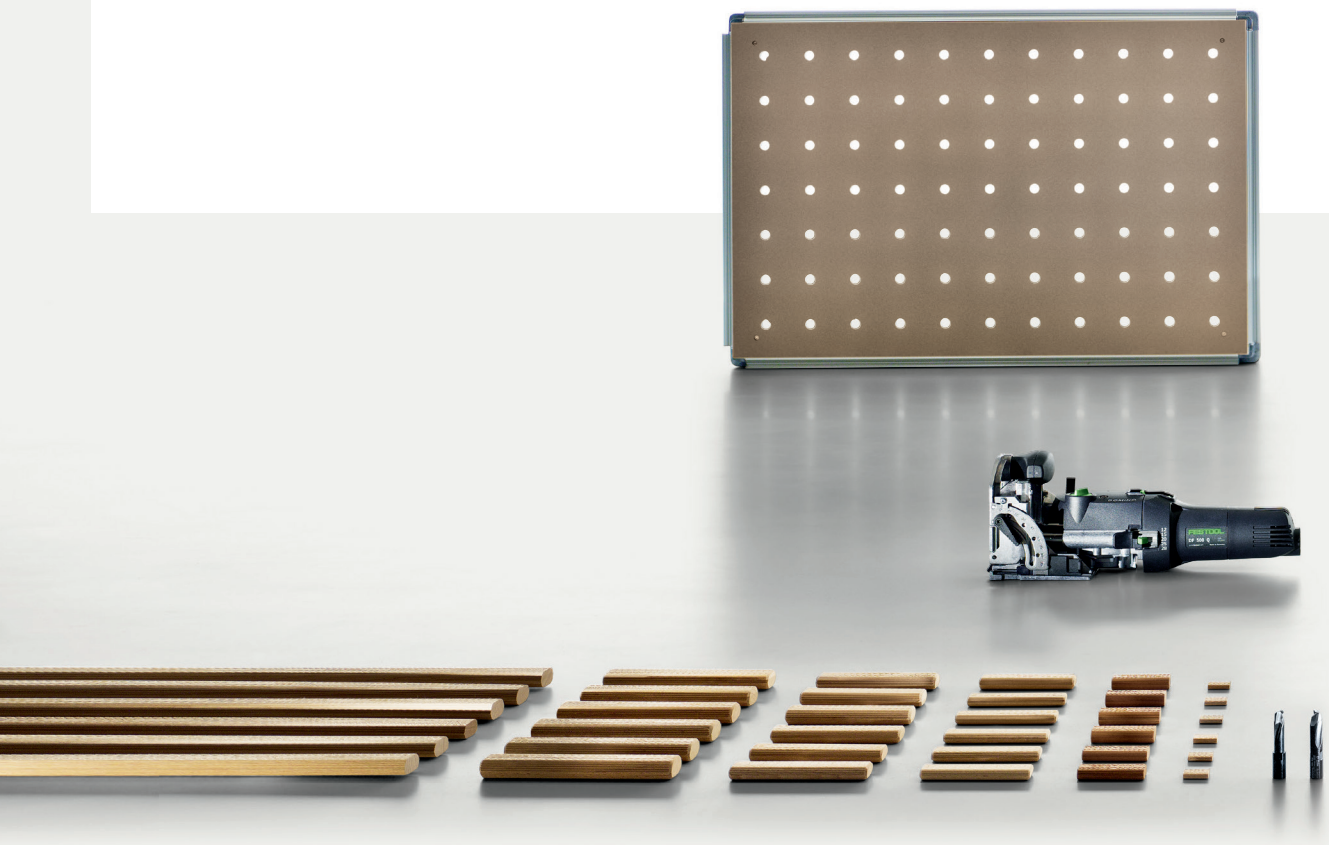
The DOMINO joint. Simply perfect.

Every wood joint has its advantages. The DOMINO connecting system unites them all. In truth, there are numerous innovations which were developed on the basis of a spontaneous idea. Such as the DOMINO connecting system. And yet it is also based just as much on the principle of thinking ahead. Thinking ahead in terms of a wood joint that unifies the benefits of all previously existing systems: the controversial stability of mortise and tenon, the flexibility of biscuits used in furniture making and the precision of the round dowel used in shelving. We found the key for this in the patented pendulum routing movement and the resulting mortises for accepting the specially formed dominos. This is a new complete wood connecting system, which assures the highest possible stability. A connecting system that works simply and with considerably shorter set-up time and can be used for tasks that were previously only accomplished on stationary machines. Many tradespeople have been converted to the DOMINO system.


DOMINO XL


0°
10°
20°
30°
45°
60°
70°
80°
90°

The DOMINO principle: Fast. Easy. Versatile.



Whether it is a small drawer or a large, solid wood door – DOMINO is the solution. With the DOMINO connecting system all the benefits of round dowels and biscuits have been united into one for the first time. Quickly and effortlessly. For board, frame and shelving joints. For narrow or wide, delicate or solid workpieces. With domino sizes ranging from 4 mm to 14 mm thickness to versatile corner and flat knock down connectors, offering several connection options. And with maximum time-saving without complex adjustments and measuring.


DOMINO XL

DOMINO joining machine fundamentals

Two machines – one principle. The DOMINO joining machine is available in two sizes: the DF 500 for domino sizes of 4 x 20 mm to 10 x 50 mm, perfectly suited for cabinet and furniture making. The DOMINO XL DF 700, allowing the use of domino sizes up to 14 x 140 mm. This means that the DOMINO XL is ideally suited for solid wood furniture, door construction and manufacturing stable solid wood connections.

1.1 **The DOMINO pendulum router principle**

The DOMINO joining machine unique routing movement is patented by Festool. The simultaneous rotating and pendulum movement of the cutter allows for smooth cutting and mortises without burn marks. Due to the pendulum movement the cutters do not overheat, leading to an extremely long service life.

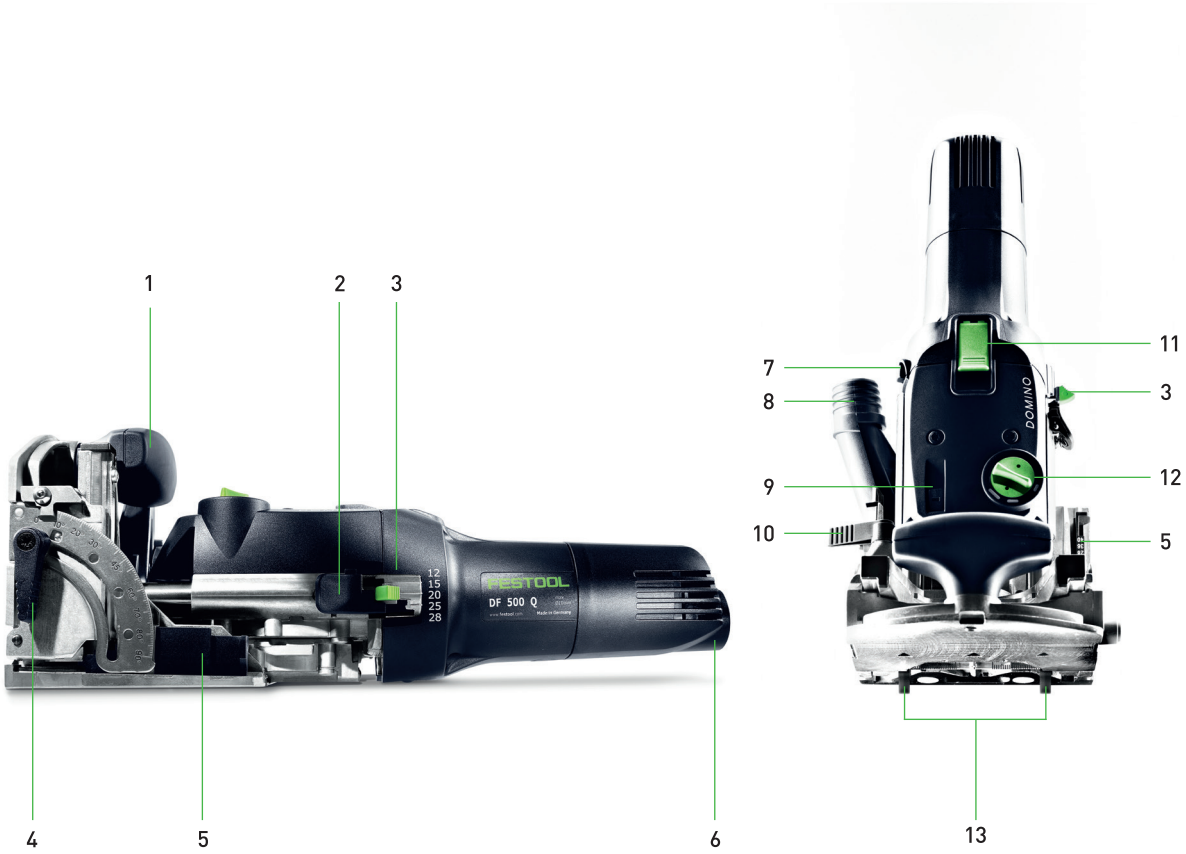
1.2 **The domino mortise principle**

The first domino tenon is positioned via an exact mortise, the subsequent tenons are inserted into wider mortises with clearance – this allows the joint to be easily aligned.

Fits exactly.
The mortise is precisely routed using the stop catches (DF 500) or stop pins (DF 700). The workpiece is aligned to the edge using this locating mortise and the connection matches up immediately.

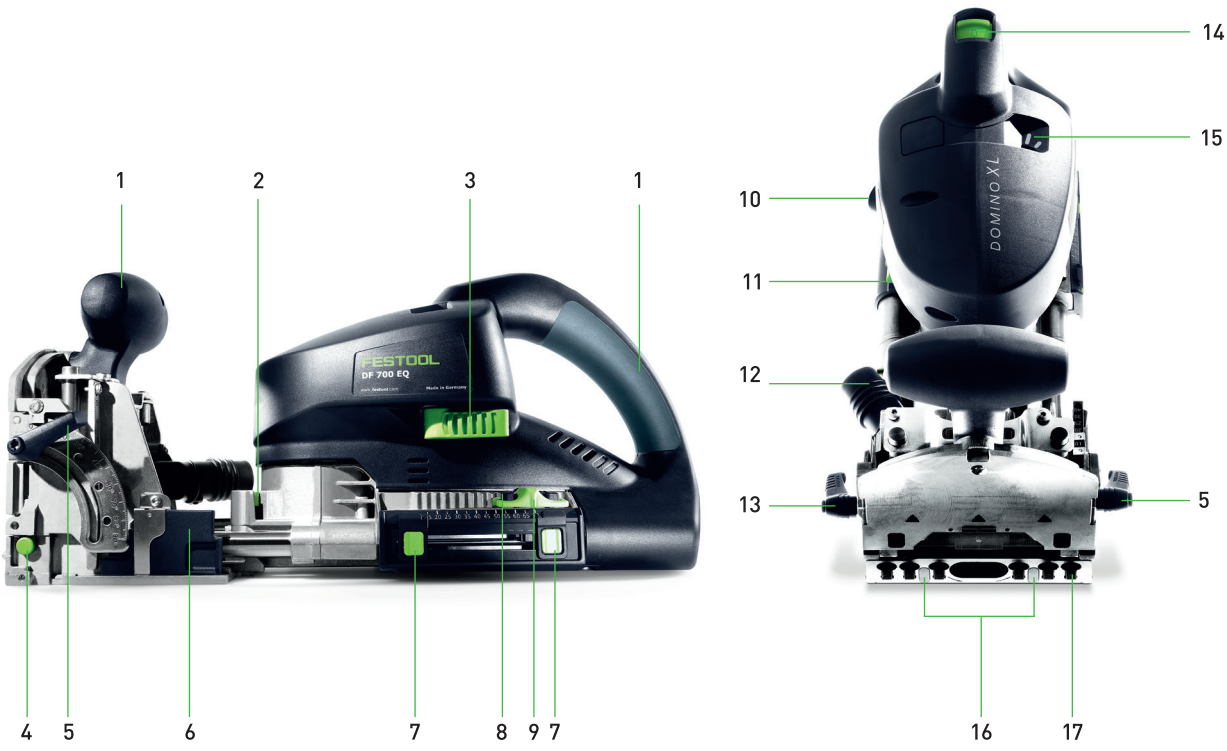
Room to move.
The remaining mortises are routed with clearance. Minor imperfections in the remaining domino mortises are compensated for by the DOMINO connecting system – allowing fast and efficient progress.

1.3 **The DOMINO joining machines: an overview**



DOMINO DF 500

1 SECONDARY HANDLE
2 DEPTH ADJUST LOCK
3 DEPTH ADJUST LEVER
4 ANGLE STOP CLAMPING LEVER
5 MATERIAL THICKNESS PRESELECT SLIDER
6 PLUG IT® POWER CORD
7 SPINDLE LOCK
8 DUST EXTRACTION PORT
9 FENCE BODY RELEASE LEVER
10 FENCE HEIGHT LOCKING LEVER
11 ON/OFF SWITCH
12 MORTISE WIDTH DIAL
13 INDEXING STOPS



DOMINO XL DF 700

1 AUXILIARY HANDLE
2 FENCE BODY RELEASE LEVER
3 MORTISE WIDTH LEVER
4 STOP PIN RELEASE BUTTON
5 FENCE ANGLE LOCKING LEVER
6 HEIGHT STOP
7 DEPTH ADJUST LIMIT STOP
8 DEPTH ADJUST SLIDE RELEASE
9 ROUTING DEPTH ADJUSTMENT SLIDER
10 PLUG IT® POWER CORD
11 SPINDLE LOCK
12 DUST EXTRACTION PORT
13 FENCE HEIGHT LOCKING LEVER
14 ON/OFF SWITCH
15 MORTISE WIDTH INDICATOR
16 RUBBER PADS
17 LOCATING PINS*

*The terms stop peg and stop pin are used synonymously on the DOMINO XL DF 700.

1.4 **Performing basic settings for the DOMINO joining machines**

The DF 500 and DF 700 DOMINO joining machines are generally similar in handling and setting options. You should be aware of these in order to fully utilize the machine's flexibility. All basic settings are explained step by step below. We refer to these basic settings where appropriate in the individual application examples.

1.4.1 **Switching on/off**

To switch on the DOMINO DF 500, connect the plug-it cable to the tool. Make sure to rotate the cord a full quarter turn to lock. Attach the extractor hose and then push the on/off switch on the top of the tool forwards and down until it locks in position.

To switch off, press the on/off switch at the rear to unlock.

1.4.2 **Selecting mortise width**

This is where the unique domino mortise principle comes in. The first mortise, known as the locating mortise, is routed appropriately to the selected domino diameter. Pairing the domino in the locating mortise, the joint aligns exactly with the front edge – the joint is correctly positioned. The remaining mortises are routed with clearance. This makes aligning and joining effortless; the joint is nevertheless exact, perfect and stable. On the DF 500, three different mortise widths can be selected, and two on the DF 700.

DF 500

1 The standard width, corresponding exactly to the domino width: **13 mm** plus the cutter diameter
2 The average mortise width, giving the domino some clearance (6 mm): **19 mm** plus the cutter diameter
3 The largest mortise width, providing a lot of clearance (10 mm): **23 mm** plus the cutter diameter

NOTE Please only change the mortise width by turning the rotary switch with the motor running, but never while actually routing.

DF 700

1 The standard width for precise routing is: **13.5 mm** plus the cutter diameter
2 The mortise width with clearance (3 mm) corresponds to: **16.5 mm** plus the cutter diameter

NOTE On the DF 700 the corresponding mortise width is set using the adjusting lever on the left of the machine – the specified mortise width can be seen on the display on the top of the machine.

1.4.3 **Selecting domino length and thickness**

Because selection of the domino thickness determines the selection of the cutter used, you first decide on the domino size and then employ the correct cutter (see section 1.4.4).

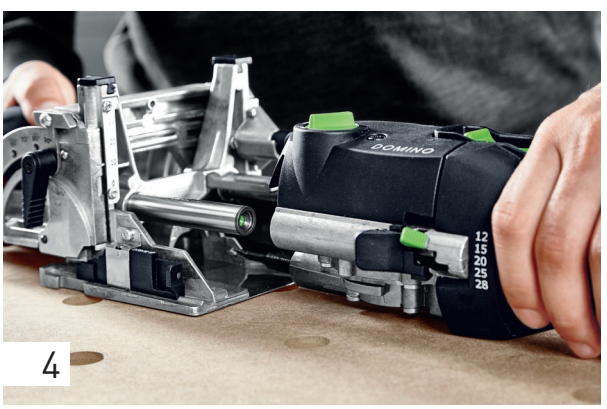
1.4.4 **Cutter replacement**

After selecting the domino, use the appropriate cutter to make the mortise. For example, if you would like to use an 8 mm diameter domino, you also use the 8 mm cutter.

Always disconnect from the power to change the cutter. Then raise the unlocking lever using an open ended spanner (included) until it noticeably locks in place.

Separate the motor unit and fence body.

Hold the spindle lock on the motor unit, loosen the cutter using the open ended spanner and screw off. Screw on the new cutter using the open ended spanner, keeping the spindle lock pressed. Then release the spindle lock. Only use sharp, undamaged and clean cutters.



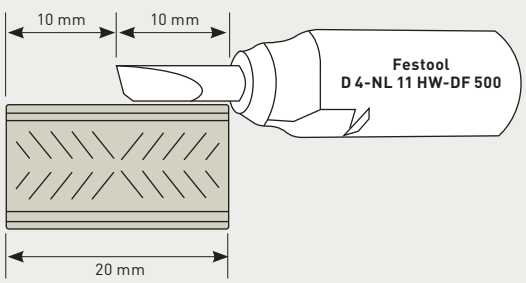
Before reattaching the motor unit to the fence body, ensure that the machine, the guide frame and the guides are clean and free from wood chips. Remove any soiling. Then push the fence body frame onto the motor unit until it audibly locks in place.

1.4.5 **Depth adjustment range**

The routing depth determines how deep the cutter cuts into the workpiece. The appropriate routing depth must be set for the different domino lengths; in most cases half of the domino length. The routing depth set on the joining machine corresponds to the depth of the domino mortise.

DF 500
To move the depth adjust lever push down the depth lock. Now set the required routing depth using the depth adjust lever (possible depths are 12 mm,15 mm, 20 mm, 25 mm, 28 mm). Now release the depth adjust lock.

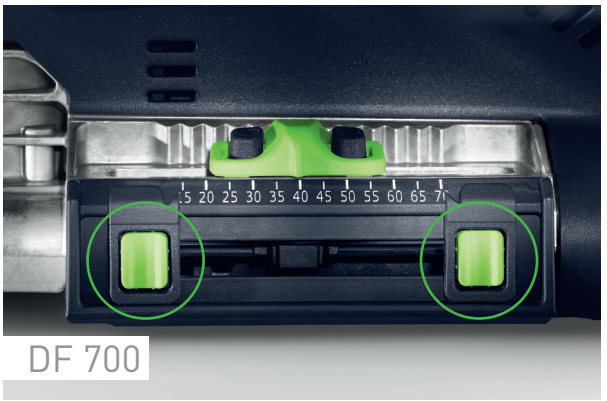
ATTENTION
Due to the short shaft length only the depths 12 mm, 15 mm and 20 mm are allowed when using the 5 mm diameter cutter.



Domino 4 x 20 mm

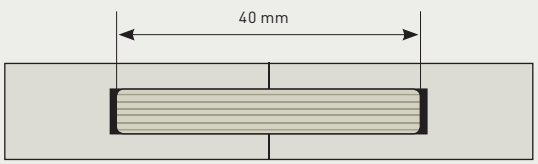
ATTENTION The D 4-NL 11 HW-DF 500 specialist cutter is available for the 4 x 20 mm dominos. Please use a mortise depth of 20 mm when working with this domino and cutter. However, the true mortise depth is 10 mm, because the cutter has been shortened by 10 mm due to the risk of breaking. This domino can not be used in offset mortises.

DF 700 Press one or both locking switch to set the plunge depth. Move the depth adjust slide to the required routing depth. On the DF 700, the possible routing depth is between 15 mm and 70 mm. Now release the locking switch– briefly check that the slider has locked in to position.



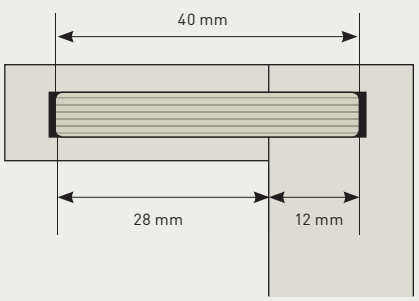
TIP You can mark two routing depths using the depth adjust limit stops and easily move between the two using the slider. For example, this can be helpful when using a domino depth for spacing as well as for repeated, identical routing depths.

Domino centered



TIP The domino should generally be centered within the joint; that is, the routing depth should correspond to half of the domino length. However, depending on the workpiece or joint type, it may be necessary to offest the Domino randomly. In this case, both of the mortises routed in the workpieces must correspond together to the length of the domino being used.

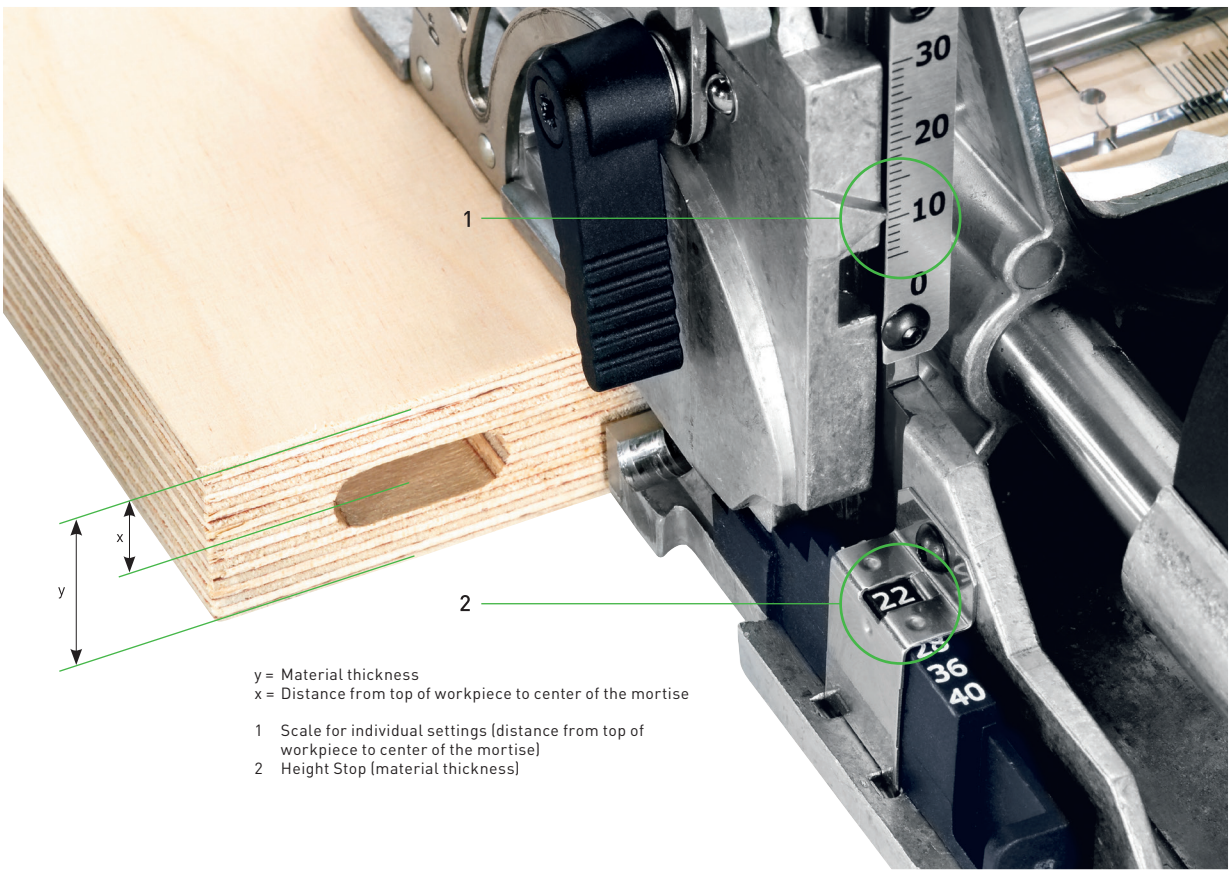
Offset domino



Example: The domino being used is 40 mm long; the left mortise is 28 mm deep, the right mortise 12 mm – that is, together 40 mm.

1.4.6 **Height adjustment range**

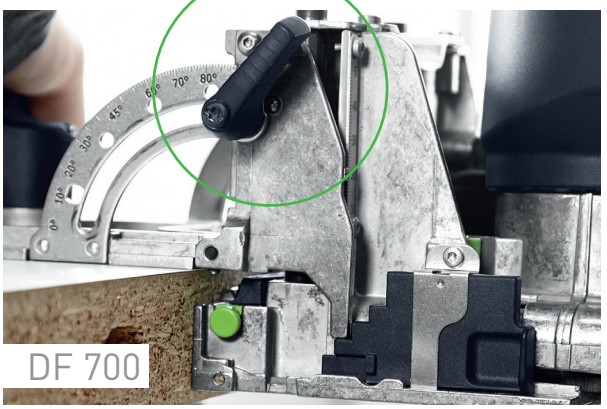
The mortise height setting on both the DOMINO DF 500 and the DF 700 is performed using the height stop, allowing predefined heights to be used. Alternatively, any individual dimension can be set using the scale. The mortise height is the distance from the top of the workpiece to the center of the mortise. Selection of the routing height depends on the thickness of material being used and the type of joint being produced. Here, it is not absolutely necessary for the routed mortise to be in the center of the material. You can find more information on the topic of routing height in the description of the individual applications in section 4.



DF 500 – set routing height using the board thickness gauge.
The dimension selected with the board thickness gauge will place the mortise in the center of the selected measurement on the gauge. Release the fence height locking lever and raise the fence using the auxiliary handle. Now select the required board thickness using the gauge. (16 mm, 20 mm, 22 mm, 25 mm, 28 mm, 36 mm, 40 mm). Then push the fence downwards until it stops and tighten the fence height locking lever.

DF 500 – set any mortise height
The dimension shown on the fence height gauge is the distance from the center of the mortise to the underside of the fence. Release the fence height locking lever and raise the fence using the auxiliary handle. Then push the board thickness guage towards the back of the machine until it stops. Set the required mortise height on the scale by moving the fence up or down to the required height. Now tighten the fence height locking lever.

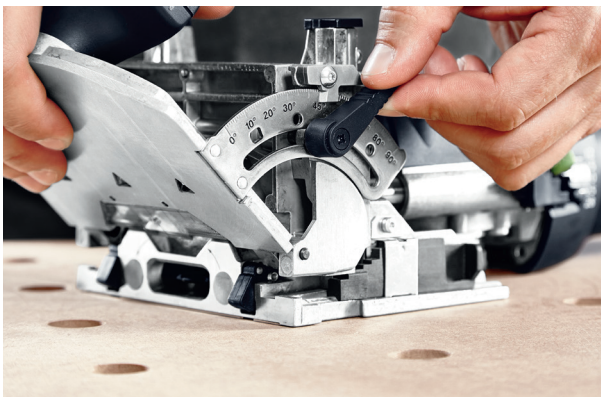
DF 700 The mortise height on the DF700 is set in the same way other than how the measurements on the step gauge are labeled. The height step gauge on the DF 700 does not designate the board thickness, but instead it is the actual distance from the center of the mortise to the underside of the fence.



NOTE The alignment of the clamping levers can be adjusted by pulling them away from the fence and re-indexing them so that when they are in the locked position they do not go past the fence itself.

1.4.7 **Angle adjustment range**

For mitered joints, the Domino mortise angle can be set using detents or any angle between 0° and 90°. The precisely machined dominos optimally align the workpiece and prevent the miter from slipping when being glued.



DF 500 and DF 700: Loosen the fence angle locking lever to adjust the mortise angle. This can be anywhere between 0° and 90° or by using the detents at 0°, 22.5°, 45°, 67.5° ,90°. Tighten the fence angle locking lever.

TIP Route thin workpiece with a miter. Set the required angle. Loosen routing height adjustment clamping lever, push the slider towards the motor unit until it stops and then push the angle stop all the way down. Close the clamping lever.

ATTENTION When mortising at an angle, set the mortise height and depth as low as possible, otherwise there is a danger that the cutter will penetrate through the opposite side of the workpiece.

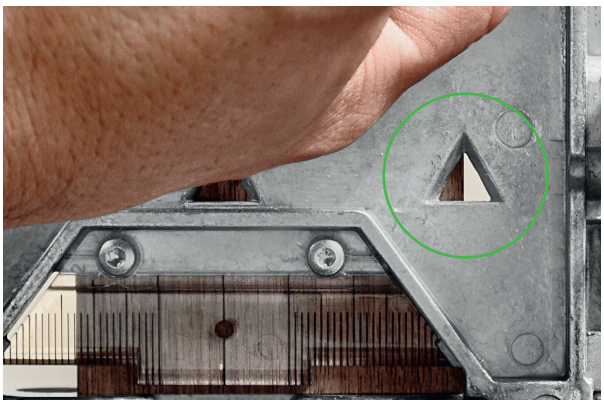
TIP Material thicknesses from 15 mm can be mitered using the 4 x 20 mm domino.

The table shows some of the most commonly used miter angles:

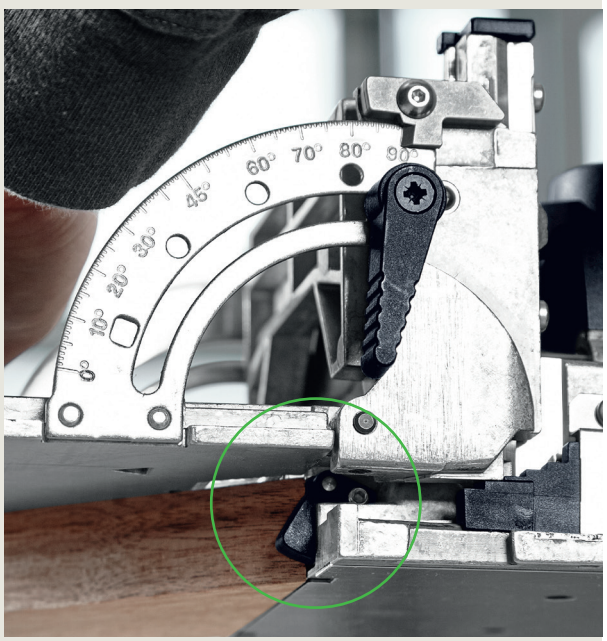
Number of equal sides	Cutting angle	DOMINO angle
3 Triangle	60	30
4 Square	45	45
5 Pentagon	36	54
6 Hexagon	30	60
7 Heptagon	25.7	64.3
8 Octagon	22.5	67.5

1.4.8 **Working with the stop system**

One of the greatest time savings of working with DOMINO joining machines is the result of working without the need for complex measuring or marking – the machine can be positioned quickly and accurately by using the indexing stops (DF 500) or locating pins (DF 700).



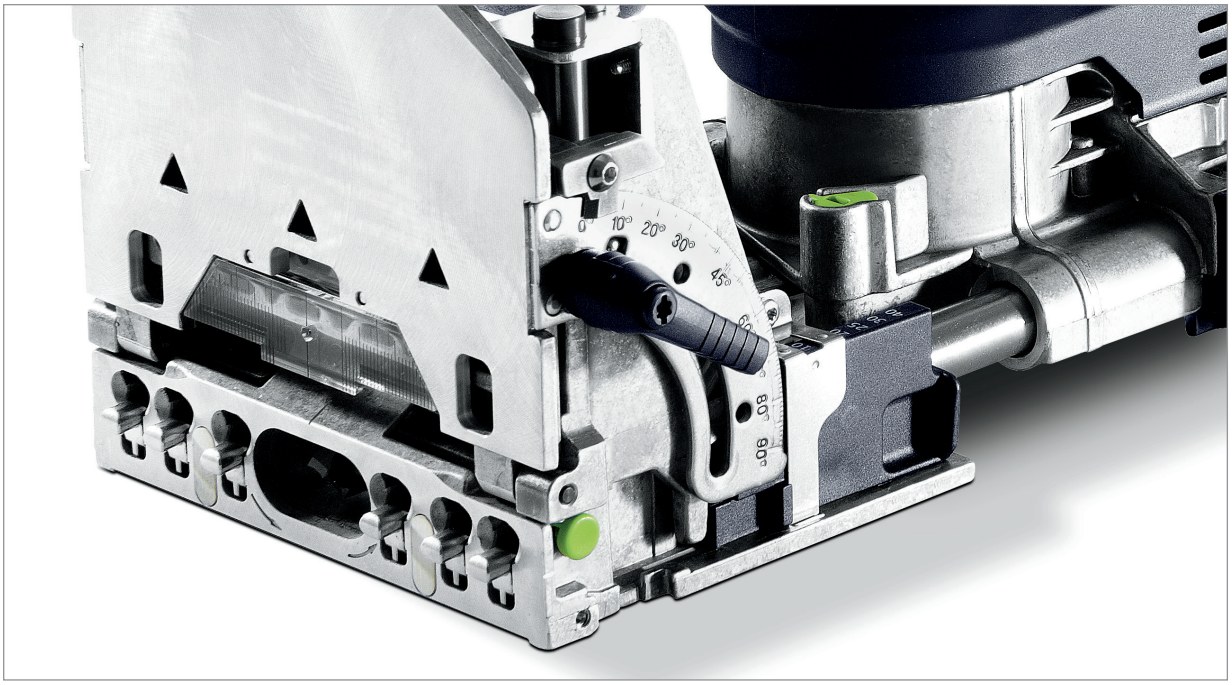
The edge of the workpiece is visible in the machine's upper triangular viewing window. If you do not need the stop catches, they can be automatically pushed in during the routing process.



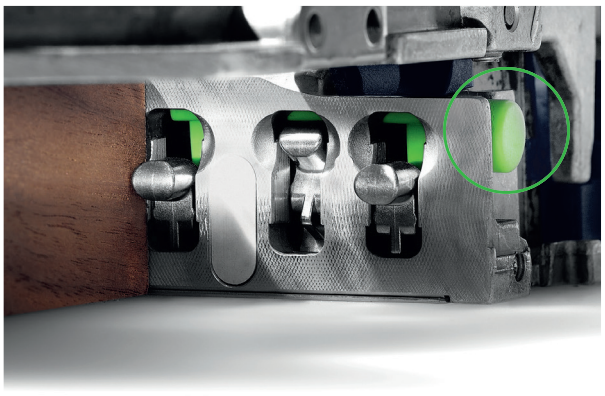
Quickly and easily set the position of the Domino for repetitive mortises by using the edge stops on both pieces of material. The distance between the stops to the center of the bit is 37mm.

TIP When using the base support bracket supplied with the DF500, the distance to the center of the mortise can be reduced to 20mm by using the additional stops.

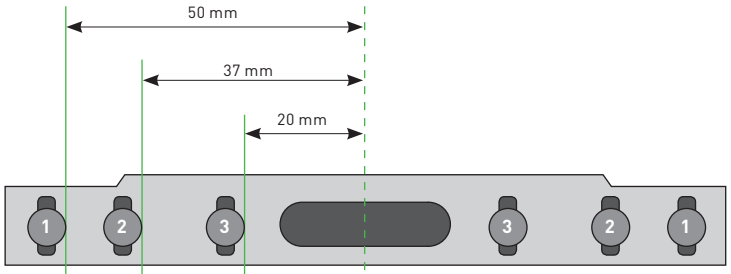
DF 500 The mortise can also be positioned by drawing a scribe mark and aligning the machine by using the clear horizontal position gauge.



The **DF 700** possesses an innovative stop system, allowing even domino groups to be quickly and precisely positioned in relation to a reference edge using the integral locating pins.

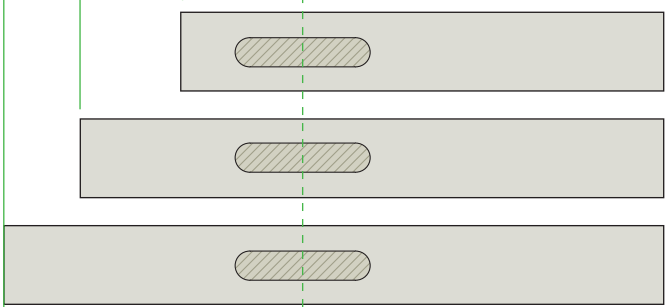


There are six locating pins on the front of the base of the Domino. Unnecessary locating pins can be pushed aside individually and locked in place, and can all be released again by pressing the button on the side of the machine (see markings in the figure).



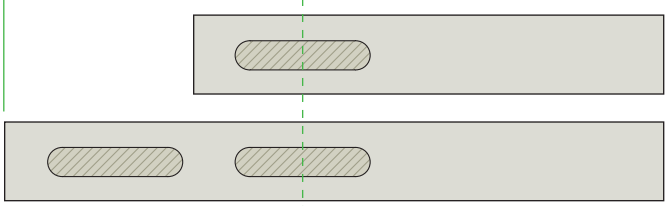
The indexing pins locate the mortise center precisely at 3 different dimensions.

A



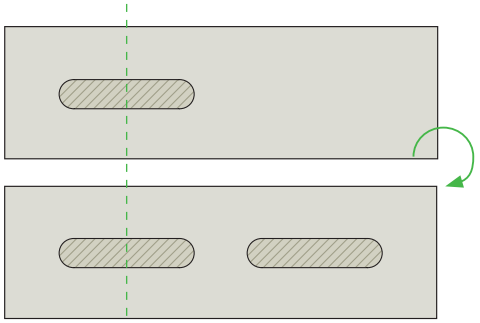
Pins (1 – 2 – 3) allow three separate distances to a reference edge.

B



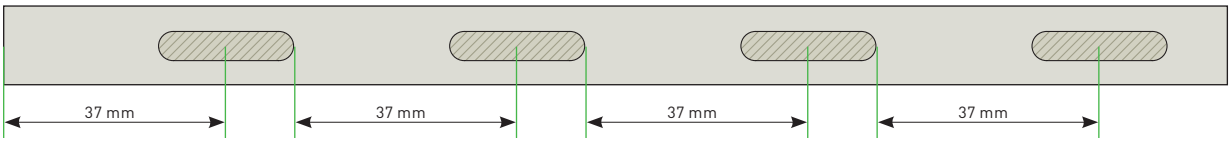
The pins allow two domino mortises to be placed adjacent to each other at a defined distance to a reference edge (1 – 3).

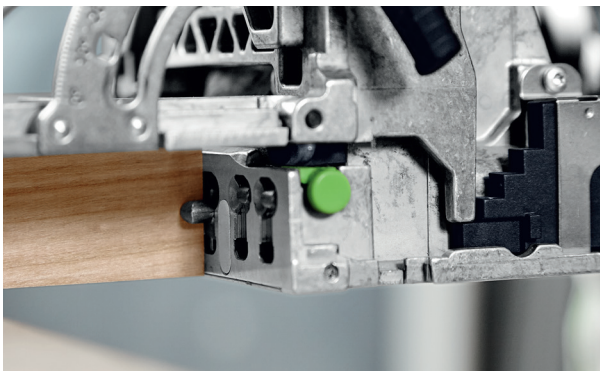
C



The pins allow two domino mortises to be placed by rotating the workpiece, e.g. for the same moulding cross-section.

Additionally, it is possible to insert the pin in the previous mortise and to use the edge of the domino mortise as a stop. This means you can place mortises over larger, uniform distances independent of the edge of the workpiece and without marking. (In the example using pin 2 in the drawing.)





1.4.9 **Working with extraction**

Large amounts of debris are created when working with the Domino. To improve removal of the debris from the mortises, we recommend always working with one of our CT Dust Extractors. We still advise examination of the mortise for debris that was not removed by the Dust Extractor.

Selecting the correct mobile dust extractor:
In addition to improving the progress of your work, the mobile dust extractor also primarily ensures a cleaner work environment when working with the DOMINO joining machines: because when working in dusty environments, in particular with materials such as wood, the dust produced can be a nuisance in the work space affecting finish quality as well as getting into other machines and equipment.

So do yourself a favor and make sure you have clean air in your workplace – and work with a mobile dust extractor.

The Festool CT Dust Extractors were designed to connect effortlessly with our tools and capture fine particles at the source.

CERTIFIED FULL UNIT
HEPA
DUST EXTRACTORS

The CT 26, CT 36, and CT 48 are Festool's most capable and versatile mobile Dust Extractors. These units can easily negotiate obstacles in the shop or on the worksite. A great companion to either the DF 500 or DF 700. All three units carry Full Unit HEPA Certification.


TOOLSTOOL
TOOLSTOOL
TOOLSTOOL
TOOLSTOOL

The domino

2

2. **The domino. The shape makes the difference.**

Not flat. Not round. Just domino.

The difference is in the detail. More precisely: in the shape. Dominos unify all of the benefits of round dowels and biscuits. And are therefore as stable as mortise and tenon construction. They are available in 14 fixed sizes or as rods (750mm length) – for both inside and outside, and for delicate and solid workpieces.

Round dowels

The traditional solution for frames and shelving.

Round dowels are one of the most important connecting elements in furniture making, allowing wood connections to be quickly and reliably aligned. Because round dowels do not allow offsets, exact drilling is generally performed on stationary or semi-stationary machines.

Biscuits

The standard for boards for decades.

Biscuits are generally used with a machine that is aligned with a scribe mark. Because the biscuits are shorter then the slot that is cut, the slot does not have to be precise. This requires more alignment during glue up.

Dominos

Not flat. Not round. Just domino.

The special shape with the longitudinal grooves, when combined with glue, gives the dominos a secure hold resulting in rotation-resistant connections and maximum stability. Working much faster: the first domino mortise is very easily positioned and precisely cut with the aid of indexing stops (DF 500) or locating pins (DF 700). It immediately aligns the workpieces, being connected precisely and flush to a reference edge. The width of the mortise can also be increased to permit some side-to-side flexibility in the tenon position.

NEW The domino corner and flat connectors

As stable as dominos, but can be quickly disassembled if needed.

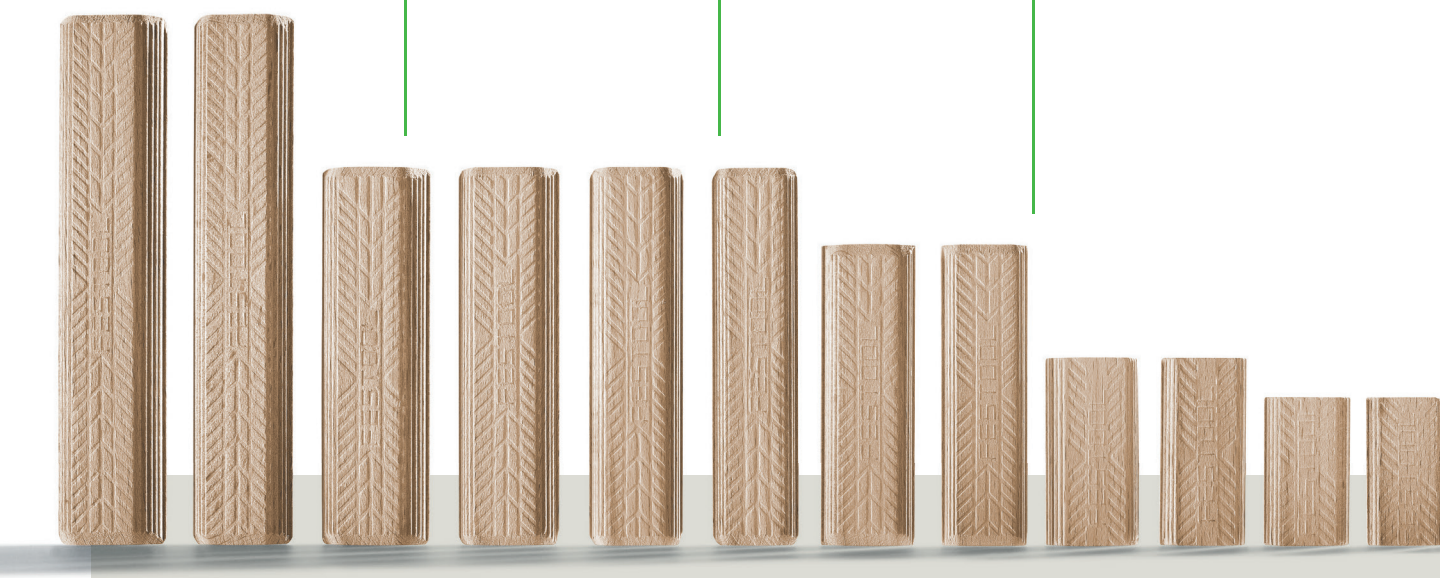
Dominos.

100 % rotation resistant
From the very first domino, the joints are absolutely rotation resistant.

Highest stability
The unique shape of the domino in combination with longitudinal grooves, gives the dominos a secure hold.

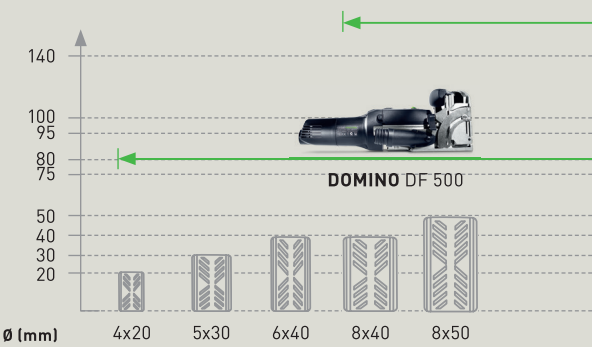
Fits perfectly
The DOMINO joining machines cut the mortises to an exact fit where needed. The domino's special groove geometry ensures a perfect precision fit.

For inside and out
Dominos are available in two materials: Beech for interior applications and Sipo dominos for outside applications.



Always a stable connection.

The DOMINO system provides the correct dominos for every application. With its range of sizes, two wood types for inside and outside applications and additional, individually adaptable rods (750mm), there are practically no limits to this system's options.

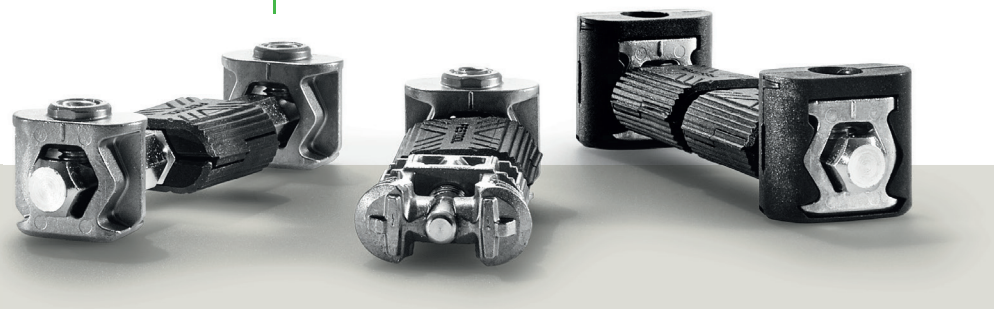


The 8–14 mm diameters are also available as rods (750mm) and in two types of wood for interior and exterior applications.
* Flat connectors – here with the optional extension shells around the cross anchor.

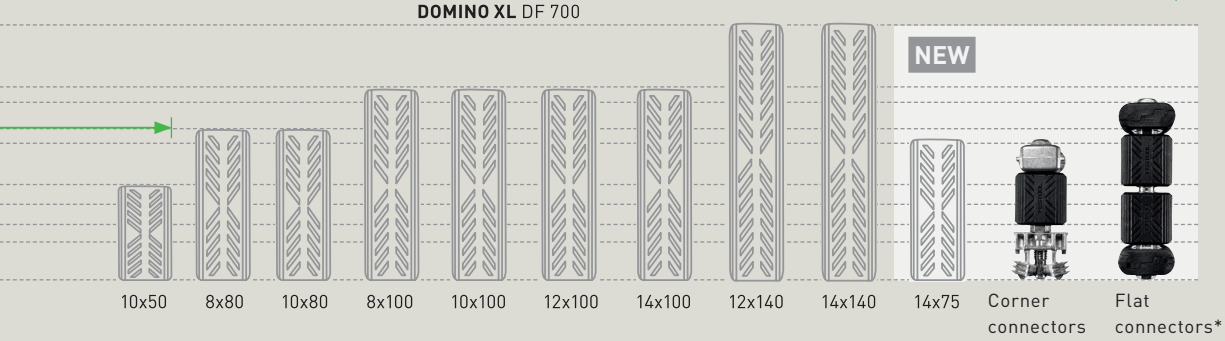
Environmentally friendly
All dominos originate from sustainable forest management.

And now also flexible
Create ,build, and finish full-sized constructed pieces, then quickly disassemble, move, and then reassemble.

The new corner and flat connectors for the DF 700 XL will produce the same strong joints with the added flexibility of knock down connectors.



DOMINO XL DF 700



DOMINO

DOMINO system accessories

3. **DOMINO system accessories. For even greater application versatility.**

The Festool system stands for application versatility and simplifies your work with accessories thought through to the finest detail: with a variety of stops, compatible with both DOMINO joining machines, even the most complicated of shapes can be easily connected.

Handrail fence

Wood rods in diameters from 1-3/8"- 2-3/8"can be connected by a single Domino tenon to form a rotation resistant joint. Simply attach the handrail fence, adjust for the specific material and cut the mortise. (For DOMINO DF 500 and DOMINO XL DF 700)

DETAILS on working with the handrail fence can be found in the example applications on page 56.

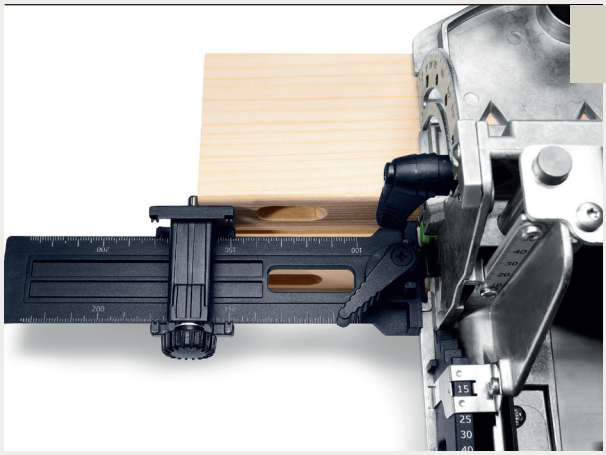
Trim stop

Material 7/8" to 2-3/4" wide can be quickly positioned and fixed centrally using the trim stop – ideal for shelving joints.

(For DOMINO DF 500 and DOMINO XL DF 700)

DETAILS on working with the trim stop can be found in the example applications on page 50.

Cross stop



For repeat hole spacing between 3-7/8" and 8-1/16". The Cross Stop enables precise and repeatable mortise placement across the surface or edge of a workpiece.

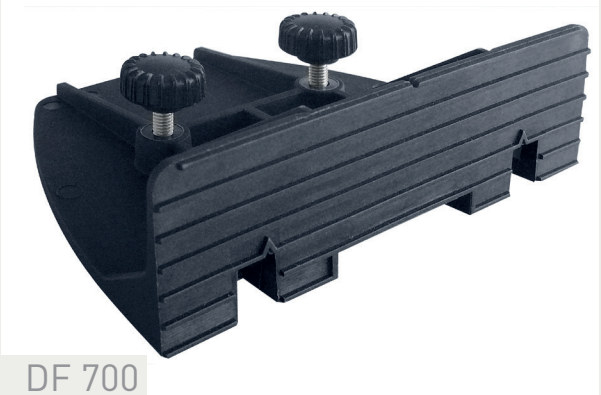
(For DOMINO DF 500 and DOMINO XL DF 700)

DETAILS on working with the cross stop can be found in the example applications on pages 74 and 79.

DF 500 Support Bracket

The support bracket supplied with the DF 500 will help balance the fence for the Domino on narrow stock or when used in vertical plunging for increased accuracy in placement of mortises. Integrated flip stops provided reference points at 20mm from the edge.

DF 700 Support Bracket



The support bracket supplied with DF 700 will balance the fence for the Domino on narrow stock or when used in vertical plunging for increased accuracy in placement of mortises.

DETAILS on working with the additional stop and the support surface extension can be found in the example applications on page 76.

Practical application examples

4

4.1 **Overview: connections with DOMINO joining machines**

The DOMINO system is ideally suited for board, rail and stile joints, involving narrow or wide, delicate or solid workpieces with dominos ranging from 4 to 14 mm in diameter or flexible, separable corner and flat connectors. In short, the DOMINO system is perfect for realizing infinite connection possibilities.

The following chapter showcases examples of how to work with these various connection types. Naturally all of these examples are variable in terms of size, material, and the size and number of dominos, etc. Nevertheless, these examples always demonstrate the basic procedure which can be used as a reference.

Applications

Board connections

- Drawers from 4 mm dominos
- Furniture making with 5 mm and 6 mm dominos
- Solid timber furniture with 8 mm and 10 mm dominos
- Solid timber furniture (e.g. beds) with 12 mm and 14 mm dominos

Rail and Stile connections

- Lightweight rack construction (e.g. chairs) up to 10 mm dominos
- Stable rack construction (e.g. tables) with 10 mm to 14 mm dominos
- Frame and stand designs

Frame joints

- Furniture fronts in frame design with 8 mm and 10 mm dominos
- Solid timber furniture in frame design
- Entrance doors and internal doors

Additional applications

- Connection of narrow pieces from 20mm wide
- Connection of rods with handrail fence
- Connection of wide rails (e.g. solid timber panels)
- Corner connectors from 30 mm material thickness, separable
- Flat connectors from 30 mm material thickness, separable

DOMINO joining machines	DF 500	DF 700
	●	●
	●	●
	●	●
	●	○
	●	●
	●	●
	●	●
	○	●
	●	●
	●	○
	●	●
	●	●
	●	●

● very suitable ○ suitable

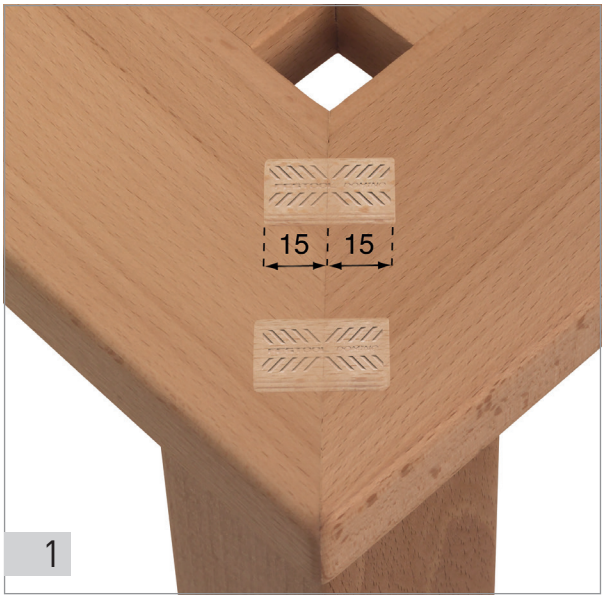
4.2 **Frame joints**

The applications of the DOMINO connecting system are virtually unlimited, as well as uncomplicated. Just one domino is enough to connect a frame corner securely and ensure it will not twist – so attractive furniture fronts can be quickly and easily achieved.

With the DF 500, very small dominos can be used even for furniture joints, making it possible to process very small spindles or narrow frame rails.

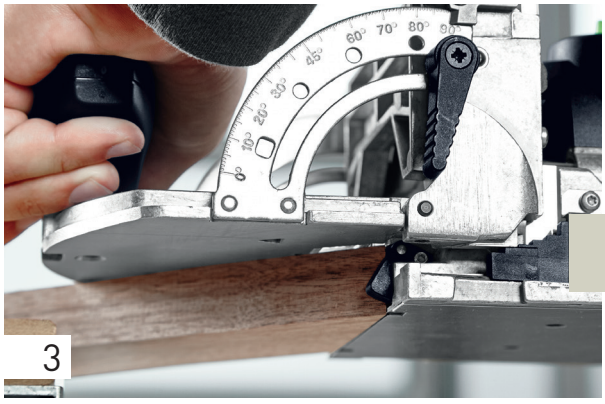
With the DF 700 in contrast, stable frame joints can be created in the same way, for example, for beds, tables or internal doors. Thanks to the larger routing depth, the DF 700 is also suitable for pinned joints. Some of these connection options are demonstrated in the following examples.

4.2.1 **Mitered frame joint**



In this example, we are processing 5 x 30 mm dominos.
Set the routing depth to 15 mm for this.

Select the routing height based on the workpiece; in this example, the frame is 20 mm thick. Set the routing height on the DF 500 to 20 mm in this case. The width of the frame in this example is 60 mm.



We are using two dominos per corner connection for maximum stability. Place the machine on the miter and carefully place the indexing stop against the tip of the miter. Route this first mortise on the tight setting.

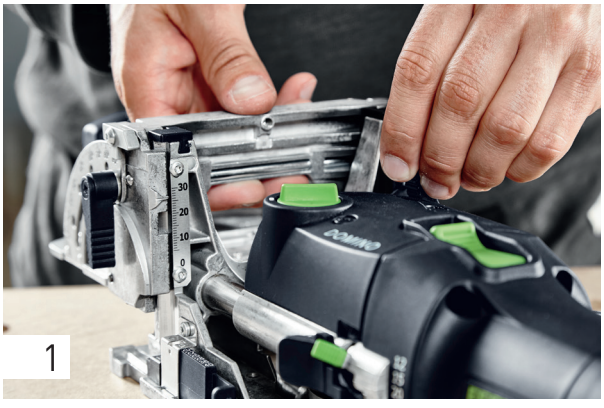
For the second routed mortise, either mark out the position or run the machine flush along the outside tip of the miter. This routed mortise can either be precisely routed like the first mortise – which increases the stability of the joint but requires more precision – or it can be routed with clearance – but then you must use a sufficient amount of glue for the joint.

Use this method to route the mortises in all four frame rails.

Insert the dominos, using a sufficient amount of glue, join the frame rails and brace them with clamps.

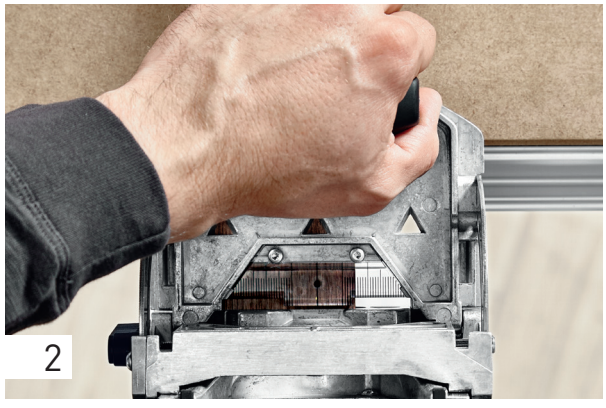
4.2.2 **Butted frame joint**

When connecting frame rails without mitering, i.e. butted joints, proceed as you normally would. This example shows another option for using the DOMINO joining machine on the workpiece.



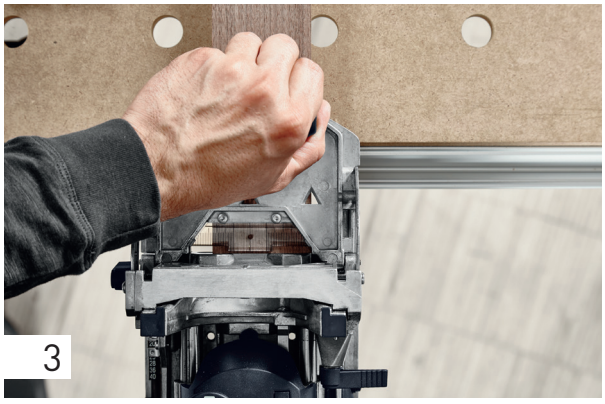
1

Set the routing height to match the thickness of your workpiece. For the routing depth, select half the domino length. Route both mortises using the tight setting for a precise fit or route the second mortise with clearance for adjustment, if needed.



2

The routed mortises can be set by marking them out as usual or using the stop system with the scale in the viewing window – in this example, 15 mm from the outside edge. For this option, place the scale with the 15 mm marking at the edge of the workpiece.



The second mortise is set here using the indexing stop. This method makes it possible to position two dominos next to each other working from just one reference edge.

TIP When using the indexing stops, the edge of the workpiece can be seen in the triangular viewing window of the DOMINO joining machine.

Use this method to carry out routing for all four frame rails.

Then glue the frame rail and brace with pads and clamps, if necessary.

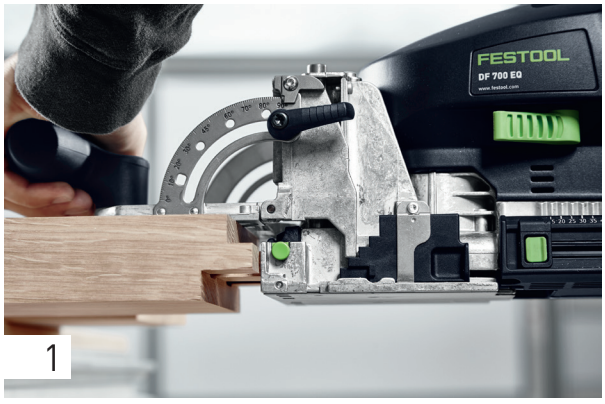
TIP If the frame rail needs to be rebated or grooved, the rebating depth must be added in advance when routing the domino mortises, so that the domino is centered later despite the rebate (which then takes up part of the depth of the domino mortise).

4.2.3 **Stable frame joints with the DF 700**

Use the DOMINO DF 700 for stable frame joints such as for doors, where larger dominos can be processed for even greater stability. In this example, a panel door is created with a pinned internal rebate and additional tenon.

The DOMINO joining machines are unique in that you can set the routed mortises even after rebating, which would not be possible with a classic drill for conventional domino joints, for example, due to the lack of support surface. This 'pinned joint' requires small deviations in the routing depth setting, which are explained in the following.

TIP Due to the pinned joint, the 14 x 140 mm domino cannot be processed despite the maximum routing depth of 70 mm for the DF 700. The maximum possible standard domino is the 14 x 100 mm. However, if you wish to make full use of the maximum routing depth and cut the domino itself to the correct maximum size, you can do so by cutting the domino to the appropriate length and creating the perfect domino size yourself.



1

Mark out the desired position of the domino and work using the viewing window. Route into both parts of the workpiece at the maximum routing depth (70 mm each) with the 14 mm router.

In the end grain, set both routed mortises with the correct mortise width – in this case the dominos are later glued and then fit in precisely. The routing height is half of the workpiece thickness (which is 40 mm in this example, so the routing height setting is 20 mm).

2

In the lengthwise rail, set the routed mortises with a 70 mm routing depth as well, but route the first mortise with precision and the second as a slot with clearance. Proceed likewise for the additional lengthwise and crosswise rails.

3

Then cut the dominos to fit the ready-made mortises. In this example, the nominal domino length is 115 mm, which is calculated by doubling the routing depth of 70 mm = 140 mm and subtracting the pinned joint of 25 mm = 115 mm. Cut the domino a few millimeters shorter (so that later the glue has enough space), down to 112 mm. Chamfer the cut domino at the edges using a sanding block.

4

Then drive the dominos all the way into the routed mortises in the end grain, adding glue to the joint.

Join the lengthwise and crosswise rails using fastening clamps and glue the joint.

4.3 **Rail and Stile joints and secure spindle positioning**

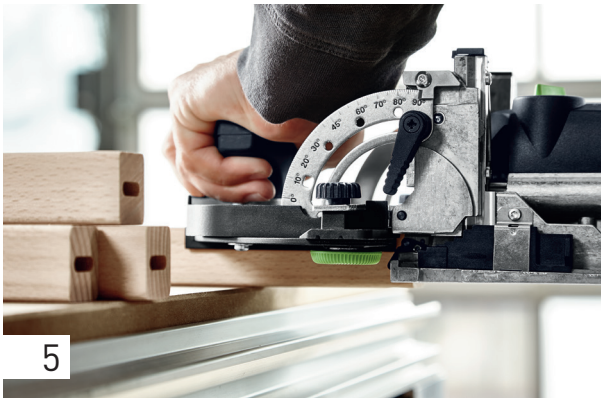
Making rail and stile joints with the DOMINO joining machine saves an incredible amount of time. Especially when relatively narrow spindles are being processed, working with the trim stop (available as an accessory or included in the DF 500 and DF 700 set) is recommended for safe and precise workpiece mortising. This trim stop fits both the DF 500 and the DF 700 and securely holds spindles with 7/8" - 2-3/4" thickness.

Mount the trim stop onto the DOMINO joining machine according to the operating instructions.

Set the width of the trim stop to the thickness of your spindle by adjusting the guide in the parallel side fence to the correct dimension using the scale and the green rotary wheels. In this example, we are working with 30 x 30 mm rectangular spindles.

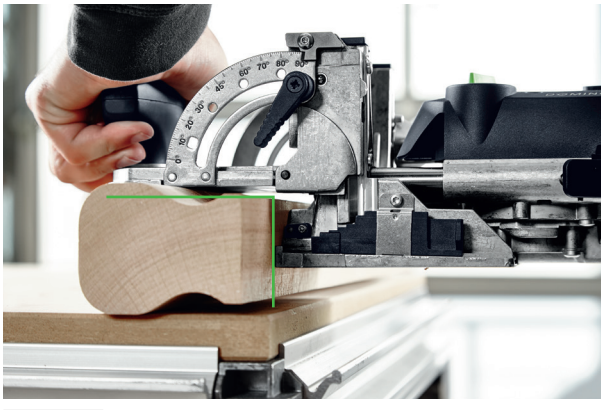
Using the spindle as a guide, ensure that the trim stop dimension fits perfectly; make further adjustments if necessary.

To process a 6 x 40 mm domino as in this example, use the 6 mm cutter (6 mm dominos can only be processed with the DF 500). For details on changing the router, see chapter 1.4.4, page 18.



Set the routing height to 15 mm, so that the domino is centered on the spindle later. Set the routing depth to 20 mm, so that the 40 mm domino is later positioned evenly between the spindle and the handrail. Route the mortise in the spindles using the narrow mortise setting.

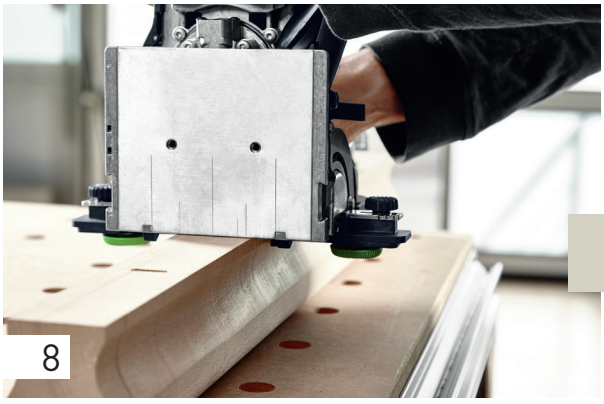
NOTE You can also use the DF 700 to apply this method with a domino diameter of 8 mm or greater.



CAUTION Especially with handrails, it is often not possible to position the joining machine securely on the side of the workpiece due to the handrail design; the round shape prevents the DOMINO joining machine from having a secure support surface.

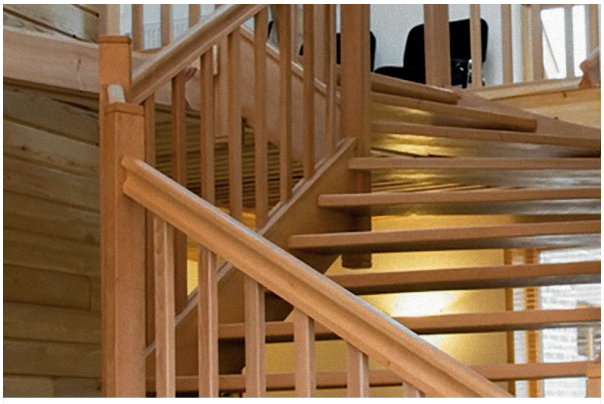
The trim stop provides additional support in these cases: mark out the desired position of the spindles on the handrail, where the mortise will be cut. From this marking, set an additional marking 10 mm away (or 15 mm when using the DF 700) – this is where the joining machine will be placed later. Then set the routing angle to 90° so that you can route vertically into the handrail from the top. The routing depth is 20 mm again, as with the spindles, with the 6 x 40 mm cutter to be processed.

Then set the trim stop to the width of the handrail and centered on the handrail.



Cut the mortise in the handrail, positioning the Domino on the second mark referenced above.

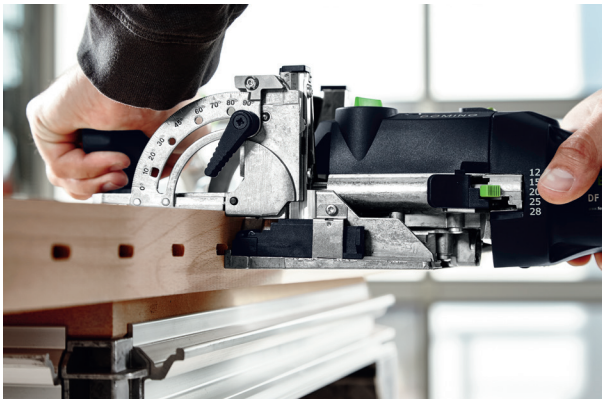
Applying a sufficient amount of glue, insert the dominos into the mortises and join the handrail to the spindles.



TIP Beveled joints are also possible with spindles that are being installed on stair cases. Set the angle of the spindle on the domino fence and cut the mortise.

Cut the angled mortises in the handrail as described above. Then join the spindle and handrail.

TIP For workpieces where a secure support surface is possible for the joining machine, simply marking out the mortises or central axis of the spindles is sufficient (in this case you do not have to work with the trim stop).



Set the mortise height to the center of the workpiece. Mark out the center point of the spindles on the top side of the workpiece. In this application (when only using scribe marks) align the center mark on the viewing window of the Domino with the scribe mark and cut the mortises.

Notes

4.4 **Round profile joints**

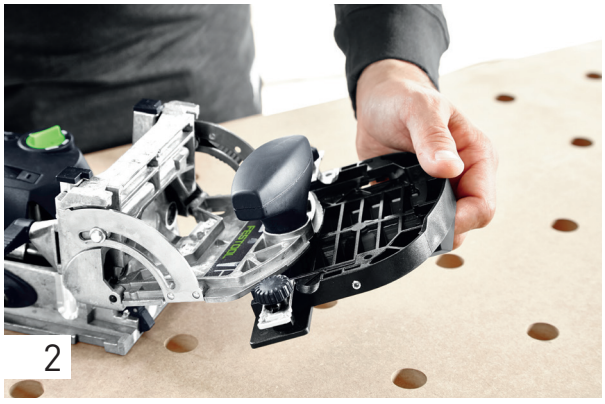
When connecting round timber profiles, such as those used for handrails, the handrail fence is available as an accessory to ensure a secure workpiece hold. This part fits both the DF 500 and the DF 700 for diameters from 1-3/8" - 2-3/8". The following example describes how a stop is created using this handrail.

1

Before starting, ensure that the correct cutter is used. In this example, we are processing an 8 x 40 mm domino, so the 8mm cutter must be used

Set the mortise depth to 20 mm.

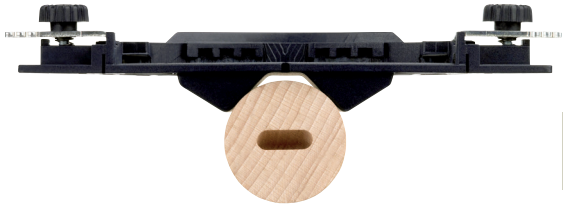
Select the mortise height so that the domino is offset towards the inside of the miter, preventing the cutter from going through the workpiece. In our example with a round timber profile with 40 mm diameter, set the routing height to 20 mm.



2

Mount the handrail fence onto the DOMINO DF 500 or DF 700 according to the operating instructions.

TIP Before processing your workpiece, it is important to create a sample piece and make fine adjustments to the handrail fence according to the operating instructions.



3

The handrail fence holds the workpiece securely and centers it automatically thanks to the prism-shaped contact surfaces.

4

Set the fence angle on the Domino to match the cut angle on the workpiece. In our example, the handrail was sawed at 15°, which means the fence angle is set to 75°; this is equal to 90° minus 15°. Secure the workpiece, on the MFT multifunction table. Then cut the mortise in both pieces of material.

5

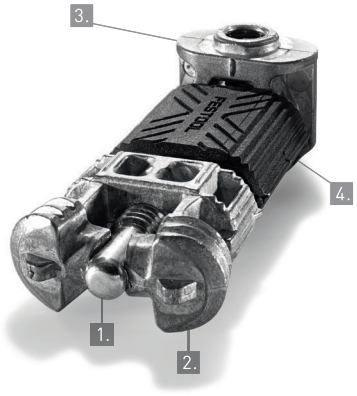
Insert the 8 x 40 mm domino into the mortise, applying glue to the joint. Then join the two workpiece parts together – the joint is secured from twisting with just one domino!

4.5 **Stable, separable corner connectors**

The separable corner connectors provide even more flexibility, especially with large, solid workpieces like tables or beds. These connectors allow for quick and easy assembly and disassembly of furniture pieces, making transport a breeze. In terms of how they are processed, the connectors are very similar to the securely glued dominos to a great extent and can be easily mounted thanks to the large pulling and tightening distance.

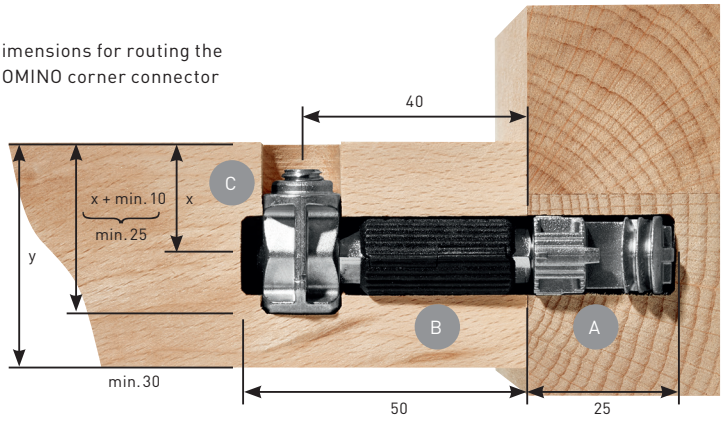
The example provided here demonstrates how to create a table or bedpost.

For corner connectors, you need the following components from the DOMINO corner and flat connector system:



1. Anchor bolt
2. Self-drawing expansion anchor – for a secure hold in the workpiece.
3. Cross Anchor including stud
4. DOMINO connector covers – clipped around double-headed or anchor bolts. Items included with double-headed or anchor bolts.

Dimensions for routing the DOMINO corner connector



	Mortise width	Routing depth	Routing height
A		25 mm	~y/2
B		50 mm	~y/2
C		x + min. 10 mm; min. 25 mm in total	40 mm

Only suitable for joining timber or timber-like materials in furniture construction (no lightweight building materials!) The DOMINO connector is only a connecting element, not a load-bearing element. Observe minimum routing depths and edge distances! For indoor use only!

Per corner connector:

1 x anchor bolt including DOMINO connector cover

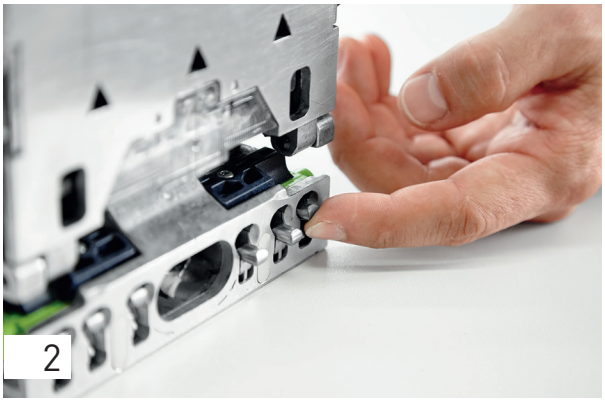
1 x cross anchor including stud

1 x expansion bolt

Optional: 1 x cover cap in silver, light brown or dark brown

The corner and flat connectors are always processed with the 14 mm router on the DF 700.

Set the mortise depth to 25 mm – set the limit stops to 25 mm and 50 mm.



It is a good idea to work with the locating pins in this case. Select the pins depending on the desired mortise placement. Ensure that the mortise for the corner connector has a minimum distance of 37 mm from the edge of the workpiece. If you work with the locating pins use the middle pin for 37mm from the edge.

Route the mortises in the table or bedpost (narrow mortise width) with a mortise depth of 25 mm. Set one mortise for the expansion bolt of the corner connector, the others for alignment of the work piece from the standard Domino tenons.

4

Change the mortise depth to 50 mm and cut the mortises (narrow mortise width) in the frame according to the scribe mark or using the locating pin system. The routing height is determined by the material thickness, using the usual method you already know from working with your DOMINO DF 700. In this example, the frame has a material thickness of 30 mm. Set the routing height to 15 mm so that the routed mortise is centerd in the material.

5

Then set the routing depth to 25 mm for routing the cross mortise. (This dimension depends on the workpiece; see dimensional drawing. What is important to note is that the cross mortise should overlap the longitudinal mortise by 3 mm in depth.)

6

To ensure that the cross mortise always sits at the right distance from the edge of the workpiece, the fence height should be set at 40mm. This will ensure that the cross anchor catches the anchor bolt.

7

Then route the cross mortise into the frame, where the connector will be inserted. Flip the handle down at the front of the edge of the workpiece and align the machine with the scribe mark or using the stop pins (depending on how the horizontal cut mortise was set).

TIP For a bigger and therefore safer support surface, it is possible and would be beneficial during this mortising process to mount the support bracket onto the DF 700.

8

Insert the expansion anchor into the center mortise in the post.

9

It is important to ensure that the expansion anchor is flush with the workpiece surface.

10

Then screw the anchor bolt all the way into the expansion anchor (making sure to bottom out the anchor bolt). This expands the expansion anchor approx.1 mm into the workpiece thanks to the self-drawing property of the bolt and locking it securely into place. A 10 mm open ended spanner is used for this.

TIP Alternatively, a 4 mm hexagonal socket can be inserted through the mortise or a ratchet with a 10 mm socket can be used.

11

Then unscrew the bolt just enough so that the countersink is facing the right direction. The expansion bolt is now sitting securely in the workpiece and cannot fall out of the mortise, even if the joint is disassembled for transport purposes.

Clip the two DOMINO connector covers around the anchor bolt. These are used to hold the corner connector flush against the workpiece.

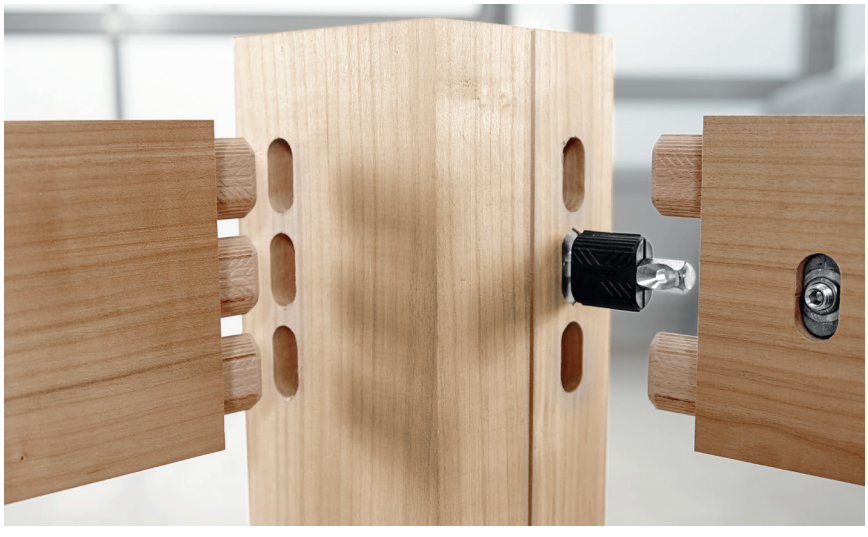
The cross anchor is then inserted into the cross mortise in the side wall, with the screw mortise facing upwards.

Press the cross anchor all the way into the mortise using the spanner.

Then insert the threaded screw. Tighten it only so that the screw stays in place, but the opening remains open for the anchor bolt.

16

Then join the frame to the post by pushing the connector and dominos into their respective mortises.



TIP It is usually a good idea to install knock down connectors to one of the sides and securely glue dominos into the other side.

Tighten the connection using a 4 mm hex wrench.

Optionally, you can cover the mortise with a cover cap, available in one of three colors depending on the material: silver, light brown or dark brown.

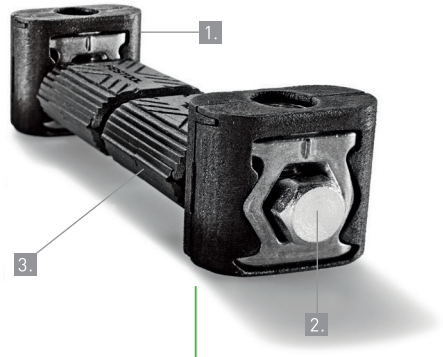
This is a quick way to create a stable joint that can be quickly disassembled if necessary, without time-consuming measuring or marking.

4.6 **Stable, separable flat joints**

The DOMINO flat connector is ideal for creating stable flat joints that can be dissembled. You can connect table tops, kitchen counters or other surfaces accurately and efficiently.

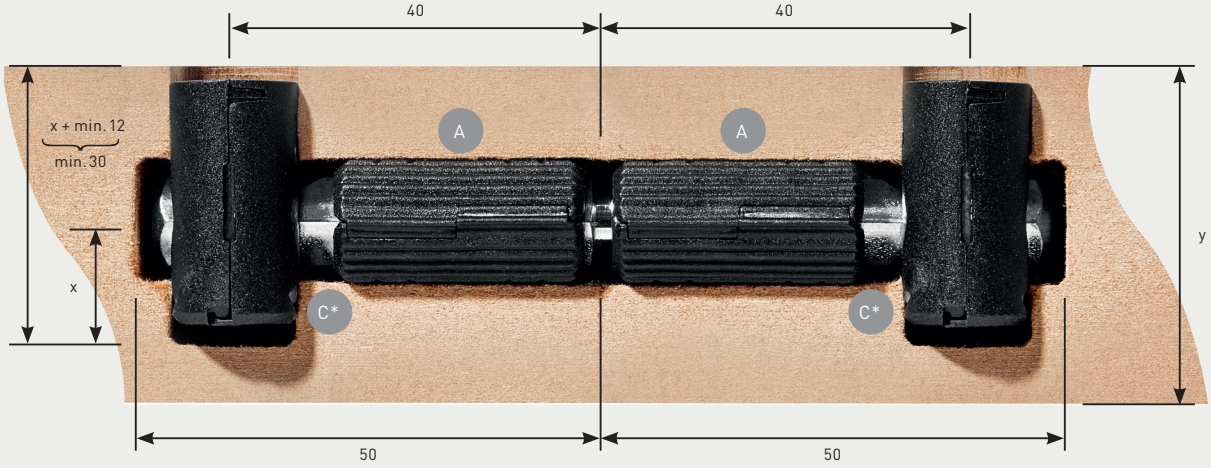
This application example demonstrates how to connect a kitchen countertop.

For flat joints, you need the following components from the DOMINO corner and flat connector system:



1. Cross anchors – here with additional extension shells. Prevents the cross anchor from drawing into soft materials (e.g. kitchen countertops).
2. Double-headed bolt – can be used with one or two domino clips.
3. DOMINO connector covers – clipped around double-headed or anchor bolts. Items included with double-headed or anchor bolts.

Flat connector with extension shells around the cross anchor – specially designed for materials such as MDF or particle board.



		Mortise width	Routing depth	Routing height
A			50 mm	~y/2
When working without extension shells around the cross anchor:				
C			x + min. 10 mm; min. 25 mm in total	40 mm
When working with extension shells around the cross anchor:				
C*			x + min. 12 mm; min. 30 mm in total	40 mm

Only suitable for joining wood or wood-like materials in furniture construction (no lightweight building materials!) The DOMINO connector is only a connecting element, not a load-bearing element. Observe minimum routing depths and edge distances! For indoor use only!

For this connection, you need at least two flat connectors and the following components from the DOMINO corner and flat connector system:

2 x double-headed bolts including DOMINO connector covers

4 x cross anchors including studs

Optional: 8 x extension shells for the cross anchors

Optional: 2 x dominos D14 x 75

Optional: 4 x cover caps in silver, light brown or dark brown

1

Mark out the connector position on the surface of the worktop at the desired point. Also mark the positions for additional dominos (used to ensure a flush connection).

Transfer the markings to the joining surfaces of the worktop. It is sufficient to do this where you later want to insert the flat connectors.

Insert the 14 mm cutter.

Set the mortise height: the distance from the fence to the center should be half the material thickness. With a material thickness of 38 mm, set the routing height to 20 mm.

Then set the mortise depth to 50 mm and set the limit stops to 50 mm and 30 mm.

6

Cut the 50 mm deep mortises with the narrow mortise width into both workpieces. The domino fence is placed on the top side of the worktop in this case.

7

Switch the machine to the large mortise width for the cross anchor; this gives the cross anchors enough space when fitted with the extension shells.

8

Then set a mortise depth of 30 mm – this dimension depends on the material. What is important to note is that the cross anchor mortise should overlap the longitudinal mortise by 5 mm in depth. If using the cross anchors without extension shells, an overlap of 3 mm suffices. The fence height should be set to 40 mm – this setting is identical for each connector, because it is based on the length of the connector. Cut cross mortises in both workpieces at the points where the flat connectors will be inserted.

The extension shells around the cross anchors prevent the anchors from drawing into soft materials when tightened. Clip the extension shells around the cross anchors for this purpose.

Tighten the studs in the cross anchor only so that the studs stay in place, but the opening remains clear for the double-headed bolt.

Insert the cross anchors into the routed mortises.

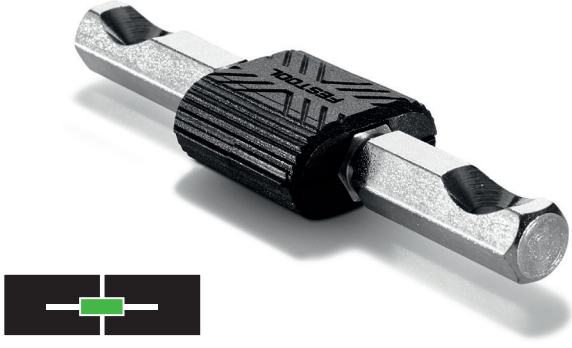
If you have decided to use additional dominos in order to ensure a flush connection, insert these into the other routed mortises.

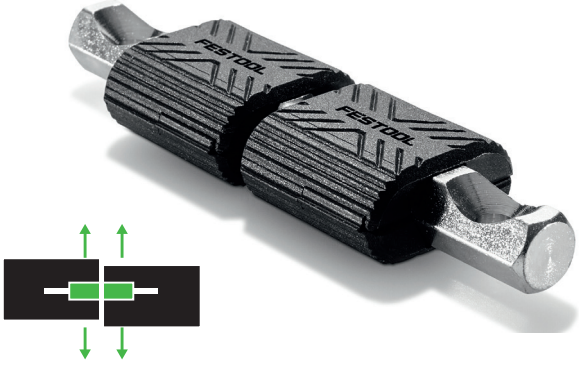
Clip the half shells around the double-headed bolt.

TIP The double-headed bolt can be fitted with two to four half shells.

With one domino clip, the clip sits flush and neatly between both workpieces.

With two half shells, the double-headed bolt has some clearance later for the alignment.





Then push the double-headed bolt into the workpiece …

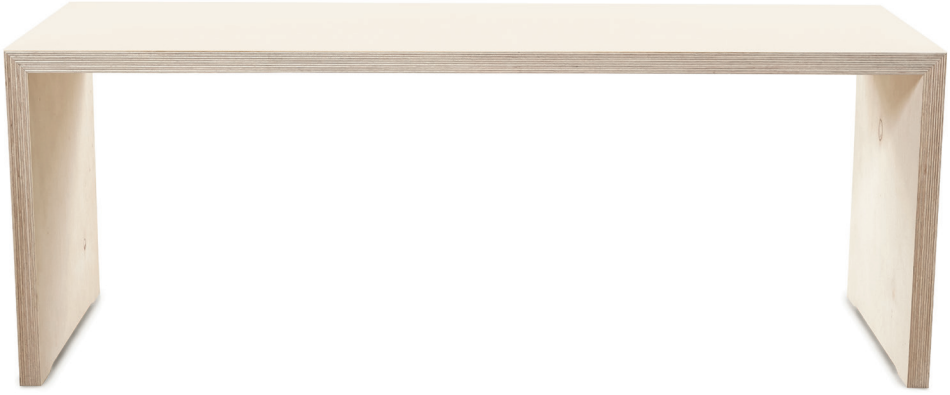
… and tighten the stud in the first cross anchor.

Push both workpieces together …

TIP In general, these connections are located on the bottom of tabletops and kitchen worktops, i.e. outside of visible area. Nevertheless it is possible, of course, to cover the cross mortises with cover caps.

… and clamp the connectors by tightening the stud on the second workpiece side.

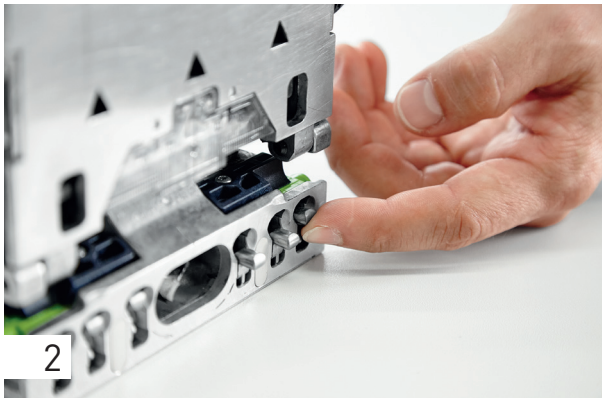
4.7 **Mitered joints**



Mitered joints are not just possible for smaller workpieces and frames – naturally they can also be used for more stable connections of solid workpieces thanks to the DF 700. The following example uses a bench to show how these types of joints are quickly and easily created using the DOMINO locating pins of the DF 700.

1

Our workpiece is 30 mm thick. We will be using 8 x 40mm tenons. The miter angle is 45°. This requires the following settings on the Domino: adjust the mortise height to the lowest setting, 10 mm. The mortise angle is 45° and the mortise depth is half of the domino length, i.e. 20 mm.



Use the locating pins to select the mortise distance based on the individual workpiece. In this example, we are working with the two center pins, to create a mortise distance of 37 mm.

After cutting the first mortise (the pin is positioned at the edge of the workpiece in this case), the pin goes into the mortise, thus setting the next stop. Cut the mortise in the tight setting and all of the other in the loose setting.

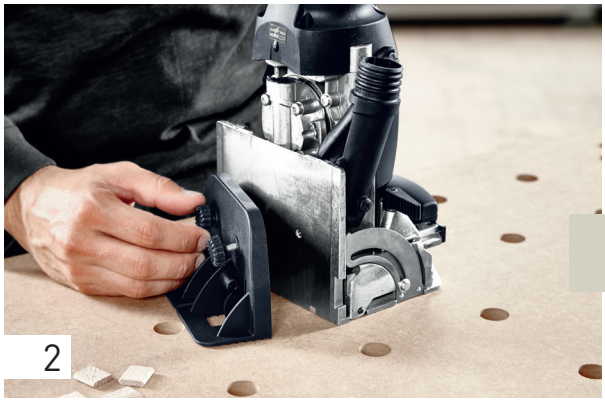
Then join the workpiece parts together, gluing the dominos carefully in the process.

TIP For larger mortise distances, you can work with the cross stop (available as an accessory or included in the DF 500 and DF 700 set) both with the DF 500 and the DF 700.

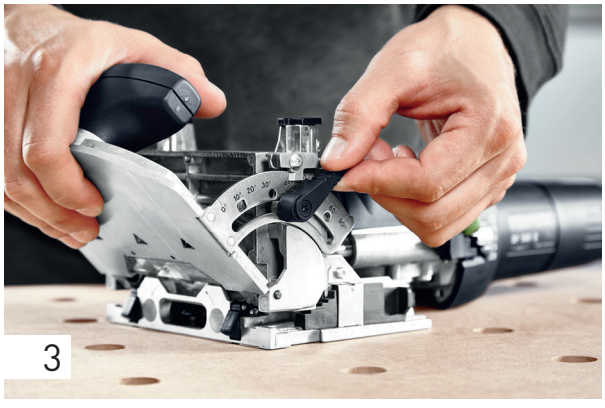
4.8 **Drawer connections**

Even thin 1/2" material can be joined perfectly with the DF 500, using the small 4 x 20 mm dominos and the appropriate 4 mm cutter. The 4 x 20 mm domino is suitable for right-angle connections in 5/8" thick material.

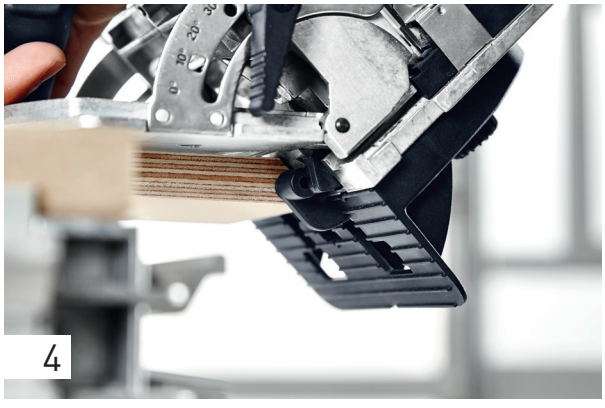
To process the smallest domino (4 x 20 mm), insert the 4 mm cutter into the DOMINO DF 500. This cutter is unique in that it is shortened by 10 mm. Therefore, at the maximum cutting depth of 20 mm, the mortise is only 10 mm deep.



Set the additional base support bracket on the DOMINO DF 500. This uses the additional stop pins to reduce the lateral distance to the center of the DOMINO cutter from 37 mm to 20 mm.



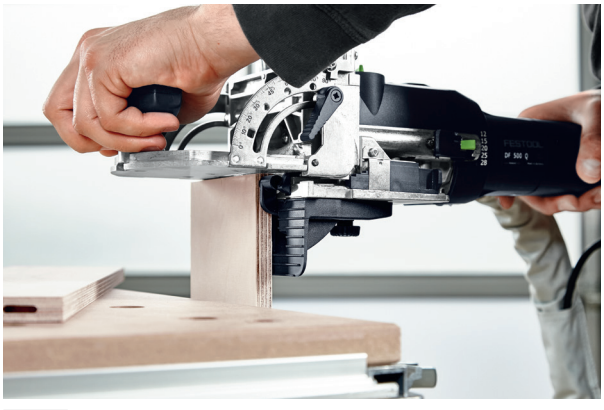
Set the mortise depth to 20 mm, the mortise height to the minimum and the mortise angle to 45°. To achieve the minimum mortise height pull back on the thickness gauge all the way and then drop the fence all the way down.



Flip the additional stop pin on the base support bracket and place the Domino on the workpiece. The mortises will be offset further from the edge of the workpieces, which is beneficial when working with narrow material.

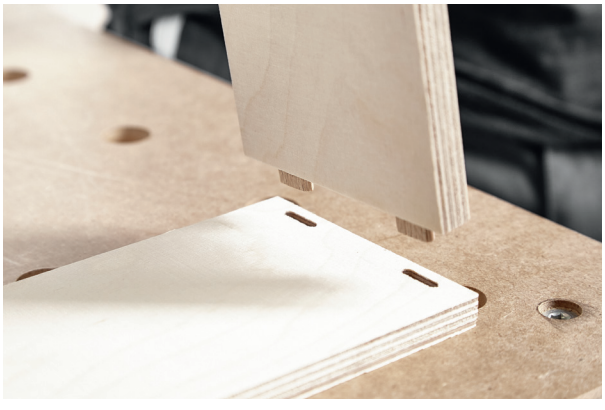
Insert the dominos into the mortises, glue them …

… and join the workpiece together.



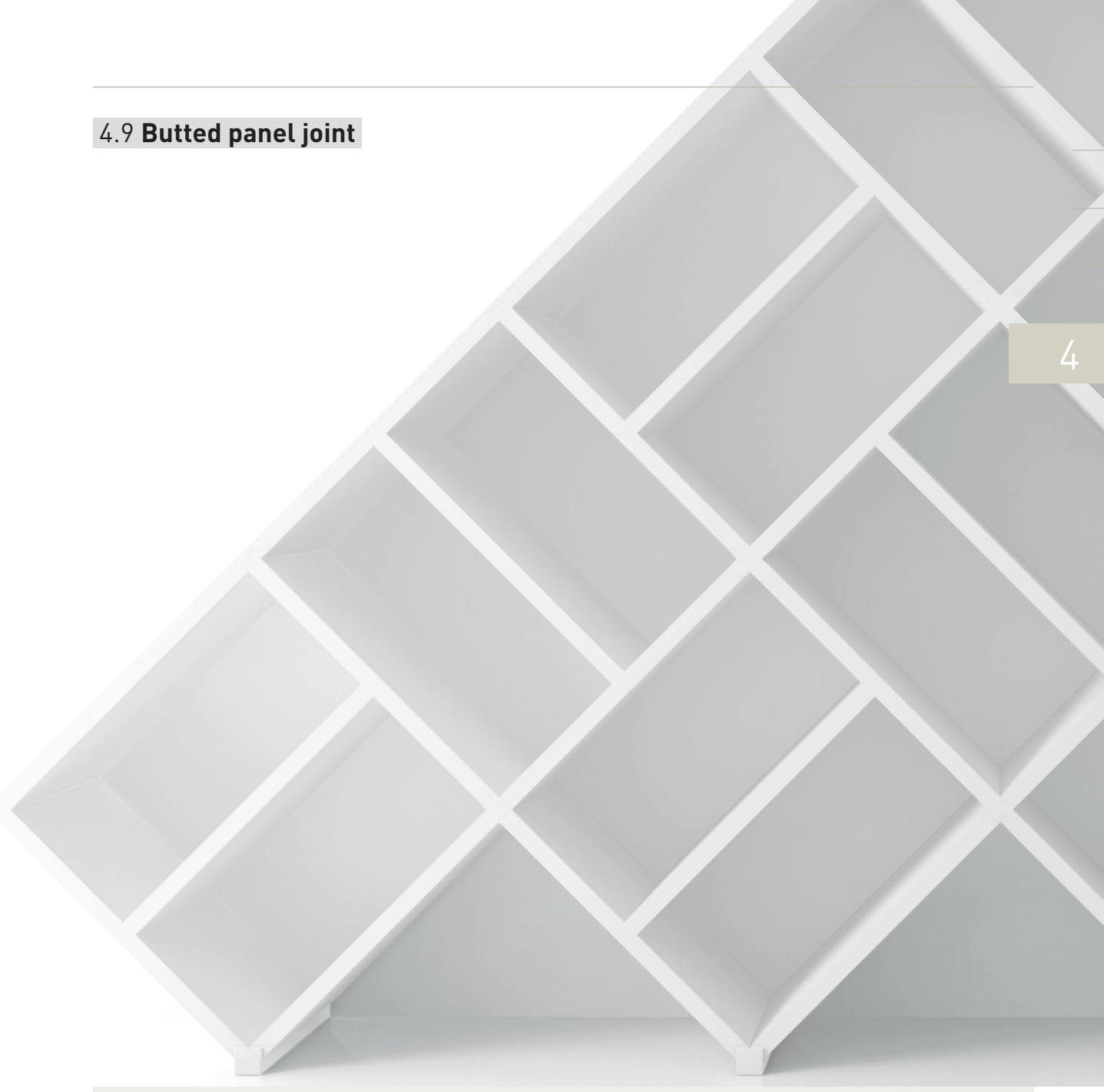
NOTE Butt joints are also possible using the smallest domino. Proceed as described above and cut the domino mortises on the front side using the additional stop.

The additional stop also provides a secure support surface when clamped vertically.

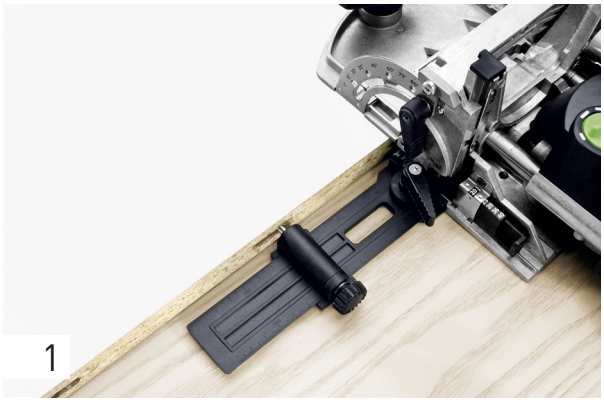


Join the workpiece and glue it together.

4.9 **Butted panel joint**



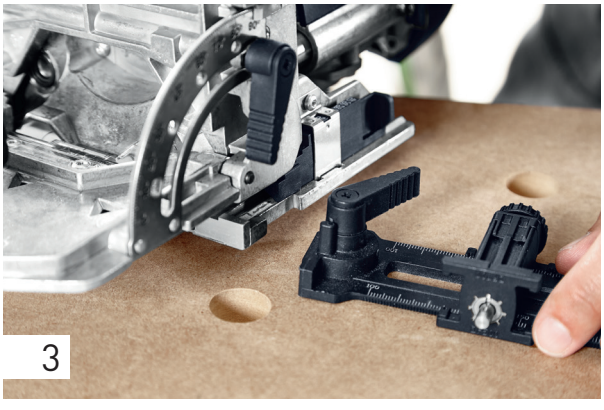
Panel joints like those for cupboard or shelving units can be ideally created with the DOMINO. The following example shows how to create a unit with the DF 500.



With larger material and more distance in between mortises, the cross stop can be used to work with the locating pin instead of making the mortise locations.

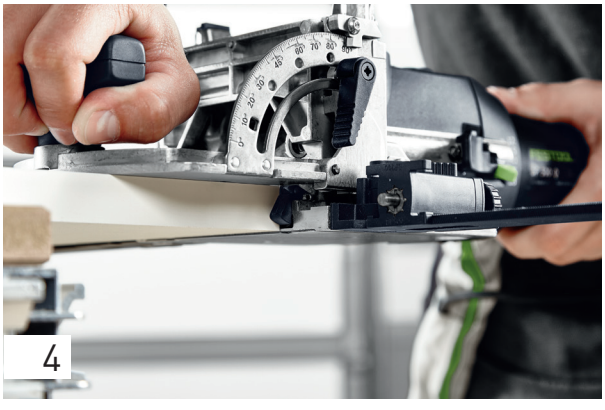
TIP The cross stop can be used both for the DF 500 and the DF 700 and allows for larger mortise distances beyond the stop pin system. Ensure that the stop is fitted onto the machine in use.

To fit the cross stop on the machine in question, turn the clamp jaw on the stop pin so that it is set to the DF 500 or DF 700 position (each machine is marked accordingly on the front of the pin).



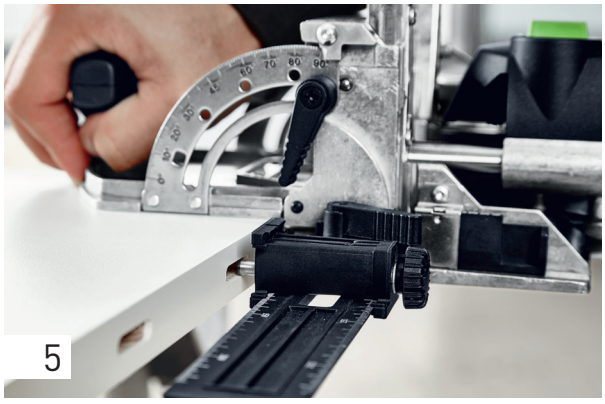
Mount the cross stop onto the Domino base according to the operating instructions. In this example, we are processing 6 x 40 mm dominos.

Due to the material thickness of 19 mm, the Domino cannot be inserted into both work pieces the same depth of 20mm.



For this reason, a mortise with a depth of 25 mm is created (on the front side) for this butt joint. The other mortise (on the surface) is 15 mm deep, so that the total domino length of 40 mm is processed.

Place the Domino at the front edge of the workpiece with the indexing stop for the first mortise, and cut the appropriate mortise width.

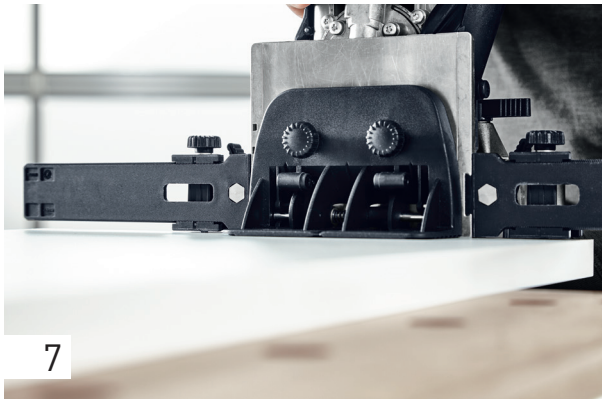


5

For the other mortises, set the desired mortise distance on the cross stop and position the pin in the first mortise.

6

Use the same process to create the mortises for the side wall of the cabinet. Set the first mortise with the indexing stop of the Domino.



7

... and create the others using the cross stop pins. Using the additional stop, along with the cross stop – is beneficial here, because the Domino has a sturdy support surface on the panel.

8

Then create the mortises for the shelves (this process is similar for carcass sides etc).

Place both side parts on top of each other and mark out the position where the center shelf will be. Mark the top and bottom edge of the shelf (material thickness), not the center.

9

Place the top side to one side. Position the center shelf at the marked point and lay it over towards the right or left, so that the top or bottom edge of the center shelf is aligned with the corresponding marking. Clamp both workpieces (center shelf and side).

10

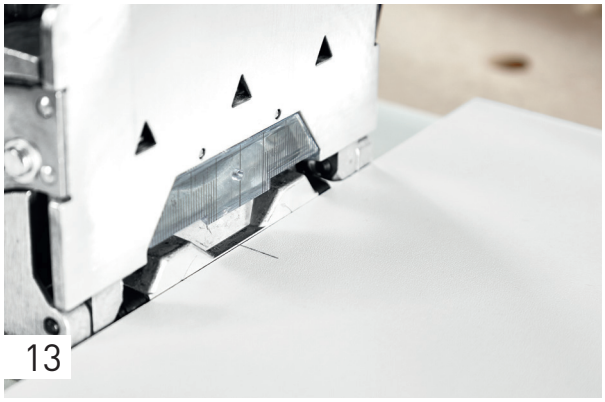
In our example, the center shelf and side part are flush at the front and are clamped accordingly. Adjust the angle of the Domino to 0° and the mortise depth to 15 mm. Then cut the first mortise in the narrow setting.

11

For the other domino mortises, switch the mortise width to the loose setting and mark out the domino positions with a simple scribe mark on the horizontal center shelf. Then place the Domino on the scribe mark. Use the etched markings placed on the base of the Domino by positioning the center marking on the base at the scribe mark on the shelf.

12

Switch the mortise depth to 25 mm and cut the mortises in the center of the shelf, again using the stop pin for the first mortise (narrow mortise width).

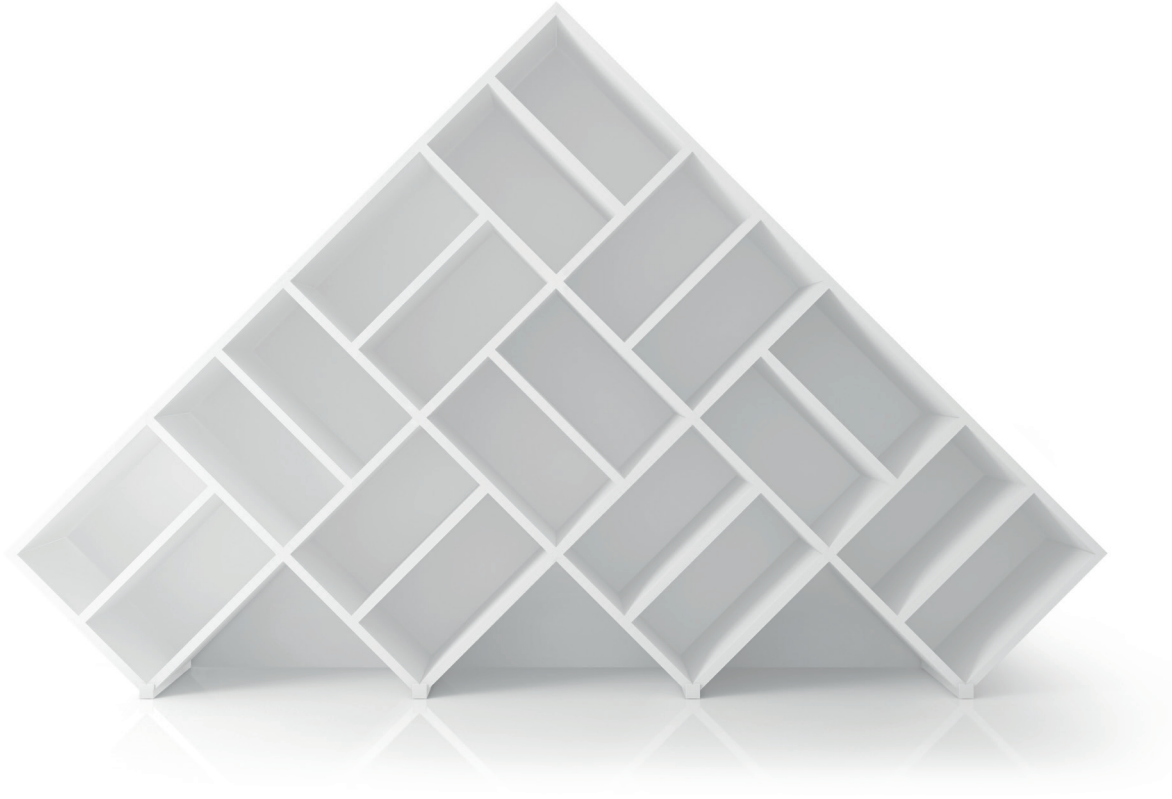


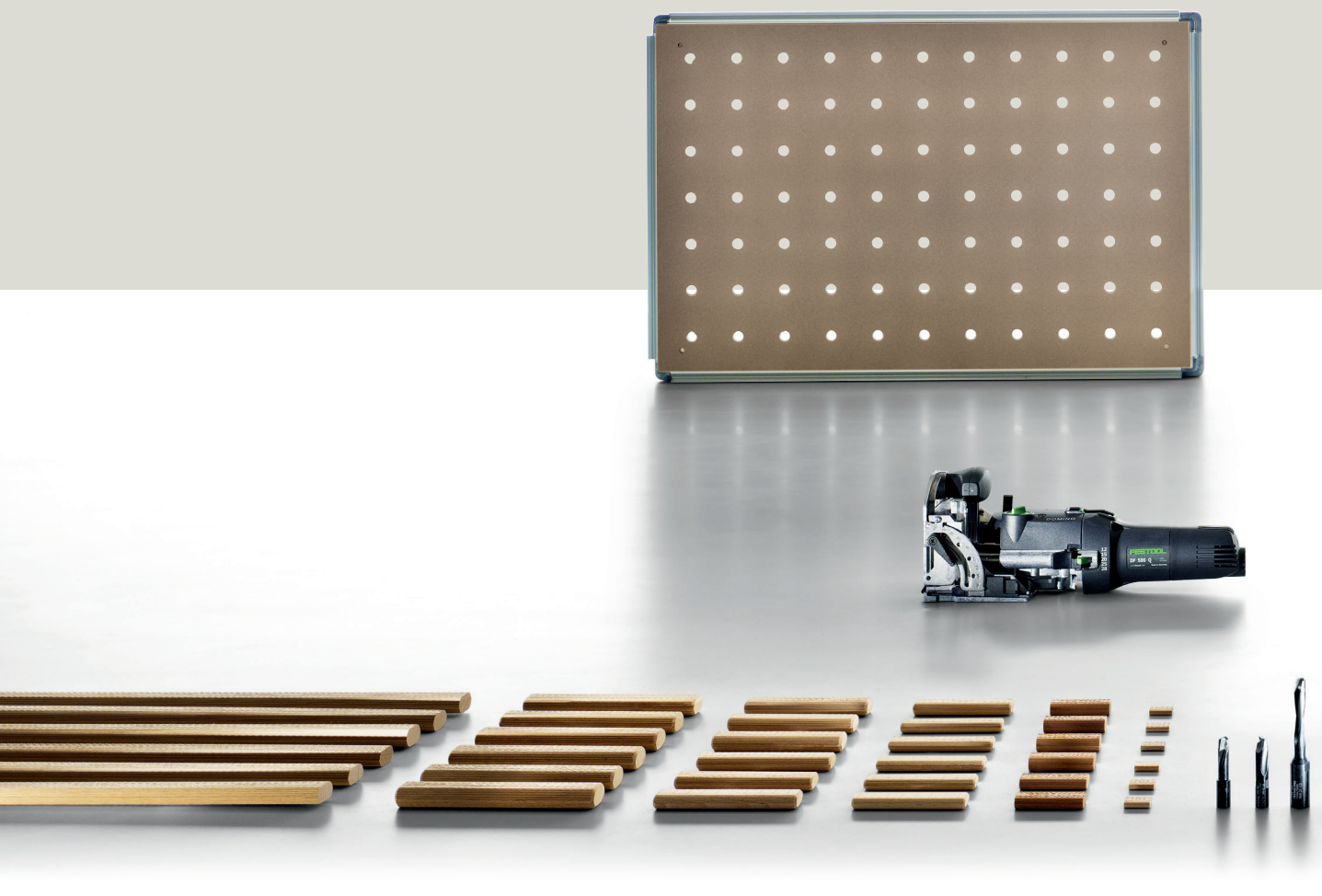
13

Cut the other mortises using the scale in the viewing window, which you align with the scribe marks. Cut all the mortises in the panel edge in the tight mortise width. Glue and insert the tenons in this panel first.

14

Follow the same procedure with the second side. Then insert the Domino tenons into the mortises and join the two pieces together with glue.




FESTOOL
DF 500 Q

specifications 5

5. **specifications**

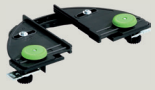
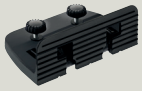
	Domino® DF 500 Q Set	Domino DF 500 Q	Domino DF 700 EQ Set	Domino DF 700 EQ
	574 432	574 332	574 447	574 422
STANDARD PACKAGE INCLUDES				
Domino Cutter (1 piece)	5 mm included	5 mm included	12 mm included	12 mm included
Support Bracket	●	●	●	●
Wrench	●	●	●	●
Trim Stop	●		●	
Cross Stop	●		●	
Plug-It Power Cord	●	●	●	●
Systainer	SYS 2 TL	SYS 2 TL	SYS 5 TL	SYS 5 TL
SPECIFICATIONS				
Power Consumption	420 watts 3.5 amps, 120 V AC	420 watts 3.5 amps, 120 V AC	720 watts 6 amps, 120 V AC	720 watts 6 amps, 120 V AC
Cutter Spindle Speed	24,300 rpm	24,300 rpm	21,000 rpm	21,000 rpm
Routing Depth-Stop	12 / 15 / 20 / 25 / 28 mm	12 / 15 / 20 / 25 / 28 mm	15–70 mm, 5 mm increments	15–70 mm, 5 mm increments
Tenon Slot Cutter Dia.	4 / 5 / 6 / 8 / 10 mm	4 / 5 / 6 / 8 / 10 mm	8 / 10 / 12 / 14 mm	8 / 10 / 12 / 14 mm
Movable Stepped Stop	16 / 20 / 22 / 25 / 28 / 36 / 40 mm	16 / 20 / 22 / 25 / 28 / 36 / 40 mm	15 / 20 / 25 / 30 / 35 / 40 / 45 / 50 mm	15 / 20 / 25 / 30 / 35 / 40 / 45 / 50 mm
Miter Routing	0-90°; stop positions at 0°, 22.5°, 45°, 67.5°, 90°	0-90°; stop positions at 0°, 22.5°, 45°, 67.5°, 90°	0-90°; stop positions at 0°, 22.5°, 45°, 67.5°, 90°	0-90°; stop positions at 0°, 22.5°, 45°, 67.5°, 90°
Weight	7 lbs (3.2 kg)	7 lbs (3.2 kg)	11.4 lbs (5.2 kg)	11.4 lbs (5.2 kg)

Metric dimensions binding.

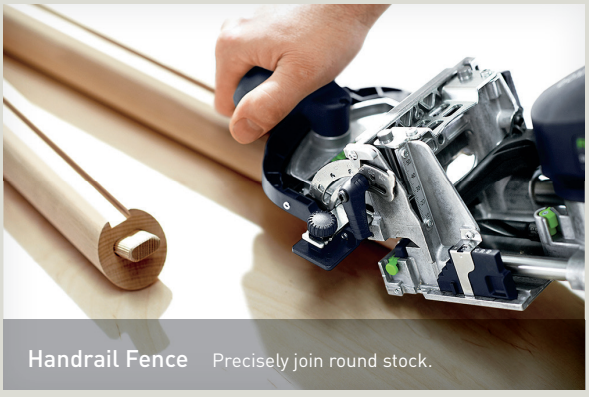
accessories 6

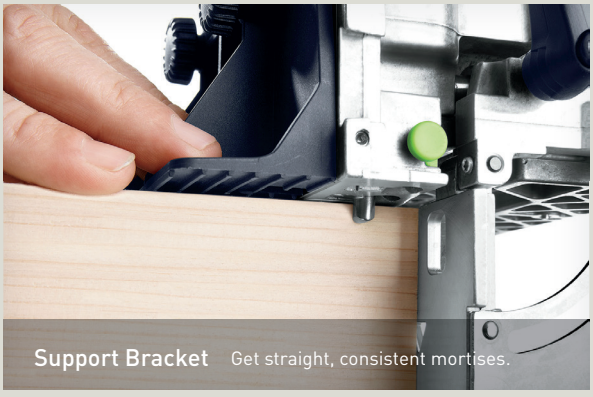
6.1 **accessories**

Extend the range of the Domino® joining system with attachments that deliver precise repeatability, consistent spacing, secure and accurate centering, and more. Since applications range from small to large, a full assortment of tenon types and sizes are also available, with color-coded cutters to match.

			DF 500 Q	DF 700 EQ
ACCESSORIES				
	1	**Cross Stop** For repeat hole spacing between 3-7/8" and 8-1/16" (100 mm and 205 mm). The Cross Stop enables precise and repeatable mortise placement across the surface or edge of a workpiece. Increase efficiency by eliminating the need for witness or scribe marks. Adjustable-spaced pins register against the starting edge of the material or in the previous mortise for accurate and consistent spacing of mortises.	498 590	498 590
	2	**Trim Stop** For narrow material between 7/8" and 2-3/4" (22 mm and 70 mm) in width. The Domino Trim Stop enables precise and repeatable mortise placement in ends of narrow workpieces, such as rails or spindles. Sides adjust independently for centered or off-center mortising.	493 487	493 487
	3	**Handrail Fence** For centering on round stock between 1-3/8" and 2-3/8" (35 mm and 60 mm) in diameter. The Domino Handrail Fence securely joins round workpieces, such as handrails. Attaches quickly and easily to the Domino Joiner without the need for tools.	494 847	494 847
	4	**Support Bracket** Easily balance the fence of the Domino Joiner on narrow stock or when used in vertical plunging for increased accuracy in placement of mortises. Integrated flip stops provide reference points at 20mm from the edge.	495666	

Metric dimensions binding.





6.2 **DF 500 Tenon Assortments**

ASSORTMENT SYSTAINER		
Assortment Systainer Includes:	Qty.	498 899
Beech 4 x 17 x 20 mm	450	
Beech 5 x 19 x 30 mm	225	
Beech 6 x 20 x 40 mm	150	
Beech 8 x 22 x 40 mm	100	
Beech 8 x 22 x 50 mm	75	
Beech 10 x 24 x 50 mm	60	
Cutter 4 mm	1	
Cutter 5 mm	1	
Cutter 6 mm	1	
Cutter 8 mm	1	
Cutter 10 mm	1	
SYS 2 Systainer	1	
SYS 2 TL with dividers With dividers and labels for storing, organizing, and transporting Domino tenons. No tenons included.		498 889

Description	Qty.	Item #
DF 500 Q CUTTERS		
Cutter 4 mm	1	495 663
Cutter 5 mm	1	493 490
Cutter 6 mm	1	493 491
Cutter 8 mm	1	493 492
Cutter 10 mm	1	493 493

Beech Tenons

Made from solid hardwood stock, Domino Beech tenons form the basis of strong joints that will last a lifetime and beyond.

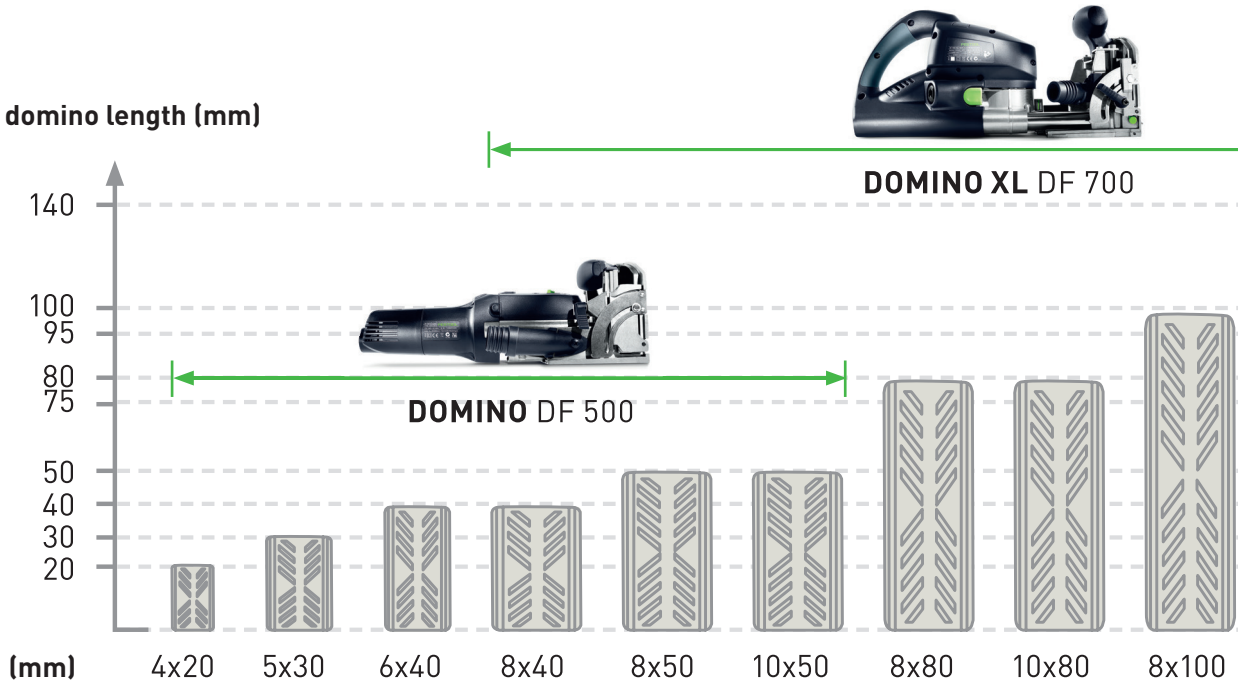
Sipo Tenons

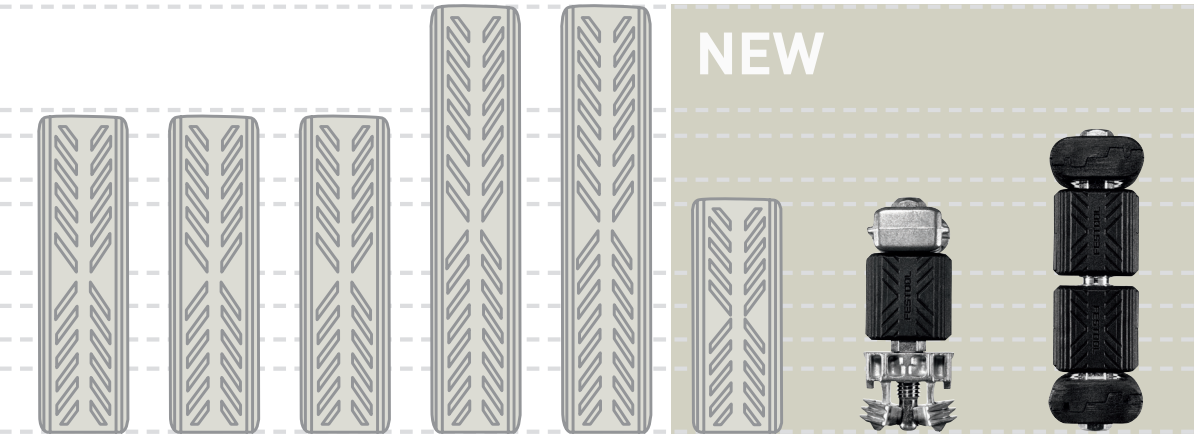
Made from African Mahogany, Domino Sipo tenons are rot–resistant, making them ideal for outdoor applications.

DF 500 Q Domino Tenons

Description	Qty.	Item #
4 MM		
Beech 4 x 17 x 20 mm	450	495 661
5 MM		
Beech 5 x 19 x 30 mm	300	494 938
Beech 5 x 19 x 30 mm	1,800	493 296
Sipo 5 x 19 x 30 mm	300	494 869
Sipo 5 x 19 x 30 mm	900	494 859
6 MM		
Beech 6 x 20 x 40 mm	190	494 939
Beech 6 x 20 x 40 mm	1,140	493 297
Sipo 6 x 20 x 40 mm	190	494 870
Sipo 6 x 20 x 40 mm	570	494 860
8 MM		
Beech 8 x 22 x 40 mm	130	494 940
Beech 8 x 22 x 40 mm	780	493 298
Beech 8 x 22 x 50 mm	100	494 941
Beech 8 x 22 x 50 mm	600	493 299
Beech Stock 8 x 750 mm	36	498 686
Sipo 8 x 22 x 40 mm	130	494 871
Sipo 8 x 22 x 40 mm	390	494 861
Sipo 8 x 22 x 50 mm	100	494 872
Sipo 8 x 22 x 50 mm	300	494 862
Sipo Stock 8 x 750 mm	36	498 690
10 MM		
Beech 10 x 24 x 50 mm	85	494 942
Beech 10 x 24 x 50 mm	510	493 300
Beech Stock 10 x 750 mm	28	498 687
Sipo 10 x 24 x 50 mm	85	494 873
Sipo 10 x 24 x 50 mm	255	494 863
Sipo Stock 10 x 750 mm	28	498 691

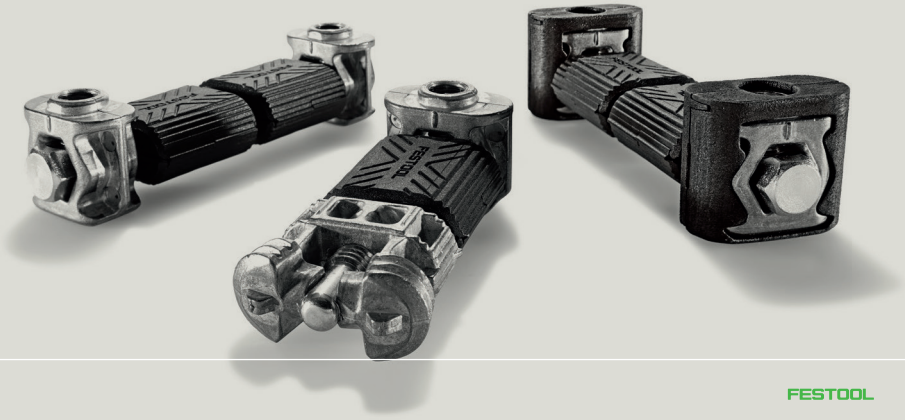
6.3 **Dominos and connectors**





10x100 | 12x100 | 14x100 | 12x140 | 14x140 | 14x75 | Corner connectors | Flat connectors*

*Flat connectors – here with the optional extension shells around the cross anchor.



6.4 **DF 700 Tenon Assortments**

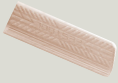
ASSORTMENT SYSTAINERS		
Assortment Systainer 8/10 mm		
Includes:	Qty.	
Beech 8 x 22 x 50 mm	48	
Beech 8 x 22 x 80 mm	38	
Beech 8 x 22 x 100 mm	36	
Beech 10 x 24 x 50 mm	82	498 204
Beech 10 x 24 x 80 mm	52	
Beech 10 x 24 x 100 mm	52	
Cutter 8 mm	1	
Cutter 10 mm	1	
SYS 2 Systainer	1	
Assortment Systainer 12/14 mm		
Includes:	Qty.	
Beech 12 x 26 x 100 mm	40	
Beech 12 x 26 x 140 mm	40	
Beech 14 x 28 x 100 mm	16	498 205
Beech 14 x 28 x 140 mm	32	
Cutter 14 mm	1	
SYS 2 Systainer	1	

Description	Qty.	Item #
DF 700 EQ CUTTERS		
Cutter 8 mm	1	497 868
Cutter 10 mm	1	497 869
Cutter 12 mm	1	497 870
Cutter 14 mm	1	497 871

DF 700 EQ Domino XL Tenons

Description	Qty.	Item #
8 MM		
Beech 8 x 22 x 40 mm	130	494 940
Beech 8 x 22 x 40 mm	780	493 298
Beech 8 x 22 x 50 mm	100	494 941
Beech 8 x 22 x 50 mm	600	493 299
Beech 8 x 22 x 80 mm	190	498 212
Beech 8 x 22 x 100 mm	150	498 213
Beech Stock 8 x 750 mm	36	498 686
Sipo Stock 8 x 750 mm	36	498 690
10 MM		
Beech 10 x 24 x 50 mm	85	494 942
Beech 10 x 24 x 50 mm	510	493 300
Beech 10 x 24 x 80 mm	150	498 214
Beech 10 x 24 x 100 mm	120	498 215
Beech Stock 10 x 750 mm	28	498 687
Sipo Stock 10 x 750 mm	28	498 691
12 MM		
Beech 12 x 26 x 100 mm	100	498 216
Beech 12 x 26 x 140 mm	90	498 217
Beech Stock 12 x 750 mm	22	498 688
Sipo Stock 12 x 750 mm	22	498 692
14 MM		
Beech 14 x 28 x 100 mm	80	498 218
Beech 14 x 28 x 140 mm	70	498 219
Beech Stock 14 x 750 mm	18	498689
Sipo Stock 14 x 750 mm	18	498693

6.5 **connectors**

DOMINO Connectors and Accessories			
	1	**DOMINO Connector Set SV-SYS** 32 Anchor Bolts SV-AB D14, 16 Connector Double Bolts SV-DB D14, 128 Half-Shells for the Anchor Bolts and Connector Double Bolts, 32 Expansion Anchors SV-SA D14, 64 transverse anchors SV-QA D14 including studs, hex wrench 4 mm for tightening screws, 64 Half-Shells SV-V D14 for widening 32 cross anchors, 32 cover caps each in silver, dark brown and light brown (SV-AK D14 slr, SV-AK D14 brn1 and SV-AK D14 brn2), 32 Domino Tenons D14x75 beech.	201353
	2	**DOMINO Connector Expansion Anchor SV-SA D14/32** 32 Expansion Anchors for permanent placement.	201349
	3	**DOMINO Connector Anchor Bolt SV-AB D14/32x** 32 Anchor Bolts for corner connections, including 64 Half-Shells	201350
	4	**DOMINO Connector Cross Anchor SV-QA D14/32x** 32 Cross Anchors including screws for locking Anchors or Double Bolts	201351
	5	**DOMINO Connector Double Bolt SV-DB D14/16x** 16 double-headed bolts for flat connections, including 64 Half-Shells. The double-headed bolts can be clipped using 2 Half-Shells or (as shown) with 4 Half-Shells –depending on the required alignment	201352
	6	**DOMINO Connector Cap Silver SV-AK D14 slr/32x** Cosmetic plastic cover cap for exposed mortise holes. 32 pieces.	201354
	7	**DOMINO Connector Cap Dark Brown SV-AK D14/32x** Cosmetic plastic cover cap for exposed mortise holes. 32 pieces.	201355
	8	**DOMINO Connector Cap Light Brown SV-AK D14/32x** Cosmetic plastic cover cap for exposed mortise holes. 32 pieces.	201356
	9	**Domino D14x75/104 BU** 104 DOMINO tenons, D14x75, exactly matched to the dimensions of the corner and flat connectors. Serves to provide alignment – in addition to the connectors.	201499
	10	**DOMINO Connector Extension Shells SV-V D14/32x** 64 Half-Shells for widening 32 Cross Anchors. For widening and pressure distribution when using Cross Anchors (201351) in materials such as particleboard and MDF.	201498
	11	**DOMINO Connector Corner EV/32x Set** 32 Anchor Bolts SV-AB D14, 32 Connector Cross Anchors SV-QA D14, 32 Expansion Anchors SV-SA D14	201827
	12	**DOMINO Connector Surface FV/16x Set** 16 Double Bolts SV-DB D14, 32 Cross Anchors SV-QA D14, 64 Half-Shells SV-V D14 for widening. Used for corner connection applications.	201828
	13	**DF 700 EQ 14mm Cutter** 14 mm cutter for use with Domino fastener system features durable carbide-tipped design for quick and precise mortises.	497871

Notes

Notes

SERVICE all-inclusive

The Best Tools Deserve the Best Support.

36-Month Comprehensive Warranty

The most comprehensive warranty in the industry provides coverage for 36 months from the date of purchase.

30-Day Money Back Guarantee

Customers are provided with a no-risk, 30-day money back guarantee. If they are not completely satisfied, they can return the tool for a refund.

10-Year Parts Availability

Spare parts availability is guaranteed for 10 years, ensuring long-term support for your investment.

48-Hour Standard Repair

Most tools are repaired and ready to ship back to the customer within 48 hours of the tool being received by the service department.

3-Year Free Shipping

Festool will cover the cost of shipping tools to the service department and back to the customer for the first three years.

Dedicated Service Hotline

Factory-trained service professionals are available for troubleshooting and questions about repairs.

24/7 Online Service Hub

Access spare parts catalogs and product manuals, fill out repair forms and mailing labels, and review video content online anytime.

Instructional Videos

A comprehensive library of troubleshooting and how-to videos are available online anytime.