
The perfect connection.

The DOMINO system user manual.

Two men. One napkin. And the origin of a brilliant idea:
the DOMINO connecting system.

There are now numerous draft designs, CAD drawings, parts lists and documentation for our DOMINO connecting system. But the paper on which the idea was actually formed could not be more ordinary: a napkin.

But first things first. To be precise, it was initially only an informal exchange between two practitioners in our canteen, pondering what the optimal dowel should be capable of.

And because nothing else was readily available, they sketched a dowel 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 foundation was laid for the DOMINO dowel.

What was missing was the fitting hole – 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 drive for the new DOMINO DF 500.

What had its origins on a simple napkin not only revolutionised the traditional wood join, but has been continuously developed since then with further dowel options: the DOMINO XL DF 700 and the newly developed corner and flat connectors, to form a holistic DOMINO connecting system. For what have always been extremely stable and are now also flexible, separable rack, board and frame joins.





Contents

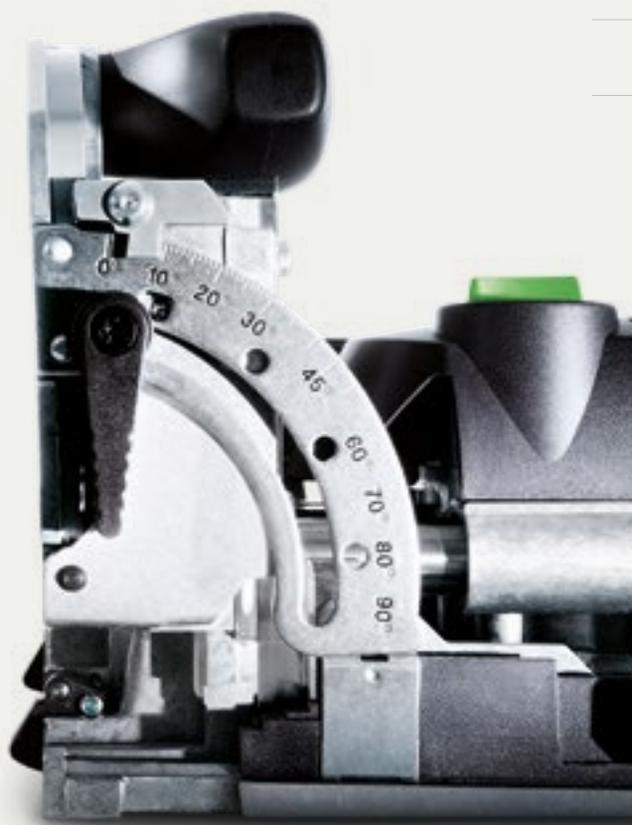
	PAGE
1 DOMINO joining machine fundamentals	11
1.1 The DOMINO pendulum router principle	12
1.2 The DOMINO slot principle	13
1.3 The DOMINO joining machines: an overview	14
1.4 Performing basic settings for the DOMINO joining machines	16
Switching on/off	16
Selecting hole width	17
Selecting dowel length and thickness	17
Cutter replacement	18
Depth adjustment range	19
Height adjustment range	21
Angle adjustment range	23
Working with the stop system	24
Working with extraction	28
2 The DOMINO dowel	31
3 DOMINO system accessories	37
4 Practical application examples	41
4.1 Overview: making joins with the DOMINO joining machine	42
4.2 Frame joins	44
Mitred frame joins	44
Butted frame joins	46
Stable frame joins with the DF 700	48
4.3 Rack joints and safe positioning of strips	50
4.4 Round profile joins	56
4.5 Stable, separable corner joins	58
4.6 Stable, separable flat joins	66
4.7 Mitred joins	74
4.8 Drawer joins	76
4.9 Butted board joins	79

5	Items included, specifications	85
6	Accessories	87
6.1	Cutters	88
6.2	Stops	89
6.3	DOMINO dowel and connector	90
	DOMINO dowel and dowel rod, beech	92
	DOMINO dowel and dowel rod, SIPO	94
	DOMINO corner and flat connector	95
7	Supplementary system accessories	97
7.1	Mobile dust extractors	98
7.2	MFT 3 multifunction table	99
	MFT 3 accessories	99
7.3	VAC SYS vacuum pump and clamping unit	100
	VAC SYS accessories	100

The DOMINO join. Simply perfect.

Each wood join 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 join that unifies the benefits of all previously existing systems: the controversial stability of mortise and tenon, the flexibility of the flat dowels used in furniture making and the precision of the round dowel used in frame and rack making. We found the key for this in the patented pendulum routing movement and the resulting slots for accepting the specially formed DOMINO dowels. For a new, holistic wood connecting system, which convinces with the highest possible stability. One that works simply and with considerably shorter set-up times and which can be used even for tasks that were previously predominantly the domain of stationary machines. How well we have done here can be seen in the fact that we have to date not only convinced many tradespeople, but have even been able to fill them with enthusiasm. About an idea that took the decisive step further. For wood joins as unique as the DOMINO connecting system itself.





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 and flat dowels have been united into one for the first time. And just as quickly as perfectly. For board, frame and rack joins. For narrow or wide, delicate or solid workpieces. With dowel sizes from 4 mm to 14 mm diameter or flexible corner and flat connectors for infinite connection options. And with maximum time-saving without complex adjustments and measuring.





DOMINO joining machine fundamentals

1



Two routers – one principle. The DOMINO joining machine is available in two sizes: as DF 500 for dowel sizes of 4 x 20 mm to 10 x 50 mm, perfectly suited for board and furniture making, as well as for lightweight frame or rack joins. Or as the DOMINO XL DF 700, allowing the use of dowel sizes up to 14 x 140 mm. This means that the DOMINO XL is ideally suited for solid wood furniture and door construction and manufacturing stable solid wood connections.

1.1 The DOMINO pendulum router principle

Unique in manually operated machines and patented by Festool: the DOMINO joining machine routing movement. The simultaneous rotating and pendulum movement of the cutter allows smooth working and holes without scorch marks. Thanks to the pendulum movement the cutters do not overheat, leading to an extremely high service life.



1.2 The DOMINO slot principle

The first DOMINO dowel is positioned via an exact slot, the subsequent dowels inserted in wider slots with clearance – this allows the join to be easily aligned. The result is a stable join, rotation-resistant from the first dowel.



Fits exactly.

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

Has room.

The remaining slots are routed with clearance. Minor imprecisions in the remaining dowel holes 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 | 6 | MAINS CONNECTION | 11 | ON/OFF SWITCH |
| 2 | LOCKING LEVER LOCK | 7 | SPINDLE LOCK | 12 | DOMINO DOWEL HOLE
WIDTH ROTARY SWITCH |
| 3 | DOMINO DOWEL HOLE
DEPTH LOCKING LEVER | 8 | EXTRACTOR STUB | 13 | STOP CATCHES |
| 4 | ANGLE STOP CLAMPING LEVER | 9 | MOTOR UNIT/GUIDE FRAME
UNLOCKING | | |
| 5 | MATERIAL THICKNESS
PRESELECT SLIDER | 10 | ROUTING HEIGHT ADJUSTMENT
CLAMPING LEVER | | |



DOMINO XL DF 700

- | | | | | | |
|---|--|----|---|----|---|
| 1 | HANDLES | 6 | ROUTING HEIGHT ADJUSTMENT
PRESELECT SLIDER | 11 | SPINDLE LOCK |
| 2 | MOTOR UNIT/GUIDE FRAME
UNLOCKING | 7 | ROUTING DEPTH ADJUSTMENT
MARKER | 12 | EXTRACTOR STUB |
| 3 | DOWEL HOLE WIDTH
ADJUSTMENT LEVER | 8 | ROUTING DEPTH ADJUSTMENT
LOCKING KNOB | 13 | ROUTING HEIGHT ADJUSTMENT
CLAMPING LEVER |
| 4 | STOP PIN UNLOCKING BUTTON | 9 | ROUTING DEPTH ADJUSTMENT
SLIDER | 14 | ON/OFF SWITCH |
| 5 | ROUTING ANGLE ADJUSTMENT
CLAMPING LEVER | 10 | MAINS CONNECTION | 15 | DOWEL HOLE WIDTH INDICATOR |
| | | | | 16 | RUBBER BUFFER |
| | | | | 17 | STOP 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 utilise the machines' 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 joining machine, connect the plug-it cable to the tool, 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 hole width

This is where the unique DOMINO slot principle comes in. The first hole, known as the locating hole, is routed appropriate to the selected DOMINO dowel diameter. Owing to the DOMINO dowel in the locating hole, the join aligns exactly with the front edge – the join is correctly positioned. The remaining holes are routed with clearance as slots. This makes aligning and joining effortless; the join is nevertheless exact, perfect and stable. On the DF 500, three different hole widths can be selected, and two on the DF 700.



DF 500

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

NOTE Please only change the hole 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 hole width with clearance (3 mm) corresponds to: **16.5 mm** plus the cutter diameter

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

1.4.3 Selecting dowel length and thickness

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

1.4.4 Cutter replacement

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



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



Separate the motor unit and guide frame.



Hold the spindle lock on the motor unit, loosen the cutter using the open ended spanner and screw off. Screw in the new cutter using the open ended spanner, keeping the spindle lock pressed. Then release the spindle lock.



Before inserting a new cutter, ensure that the machine, the guide frame and the guides are clean and free from chippings. Remove any soiling. Only use sharp, undamaged and clean cutters. Now push the guide 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 dowel lengths; in most cases half of the dowel length. The routing depth set on the joining machine corresponds to the depth of the dowel hole.

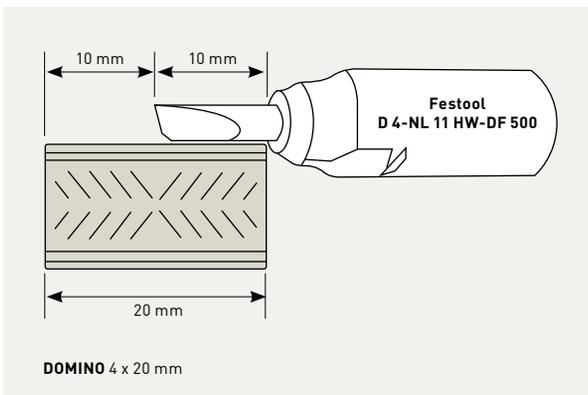


DF 500

Open the locking lever lock by pressing. Now set the required routing depth using the locking lever (possible depths are 12 mm, 15 mm, 20 mm, 25 mm, 28 mm). Now release the locking lever lock again.

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.



ATTENTION The D 4-NL 11 HW-DF 500 specialist cutter is available for the 4 x 20 mm DOMINO dowel. Please use a routing depth of 20 mm when working with this dowel and cutter. However, the true routing depth is 10 mm, because the specialist cutter has been shortened by 10 mm due to the risk of fracture. This dowel can only be positioned centrally.



DF 700

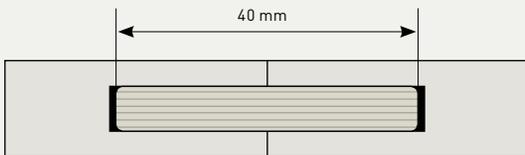
DF 700 Press one or both locking knobs to set the routing depth. Move the routing depth setting slider to the required routing depth. On the DF 700, the possible routing depth is between 15 mm and 70 mm. Now release the locking knobs – briefly check that the slider has locked in place.



DF 700

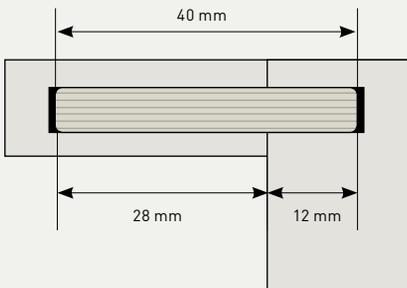
TIP You can mark two routing depths using the two green markers and easily move between the two using the slider. For example, this can be helpful when using asymmetric DOMINO dowel depth distributions as well as for repeated, identical routing depths.

DOMINO centred



TIP The dowel should generally be centred within the joint; that is, the routing depth should correspond to half of the dowel length. However, depending on the workpiece or joint type, it may be necessary to locate the dowel eccentrically. In this case, both of the holes routed in the workpieces must together correspond to the length of the dowel being used.

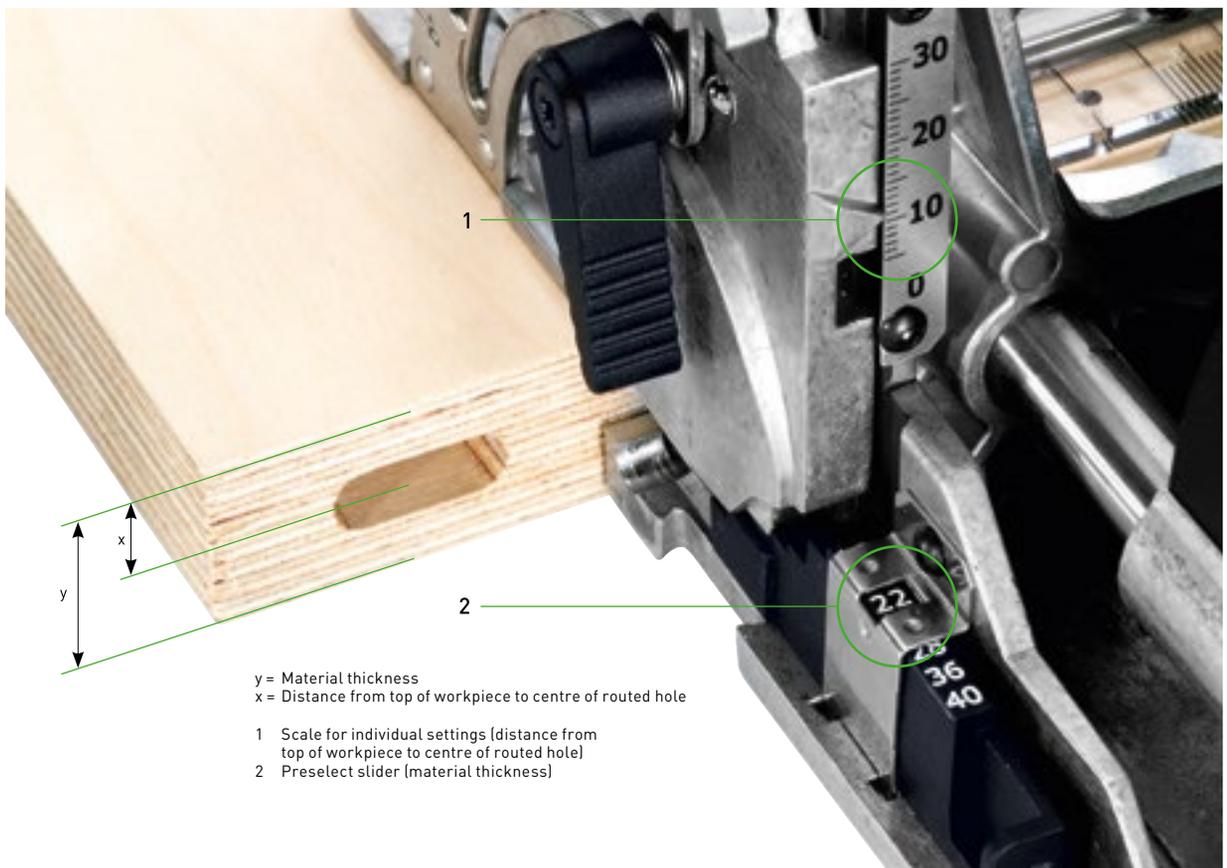
Eccentrically located DOMINO



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

1.4.6 Height adjustment range

The routing height setting on both the DOMINO DF 500 and the DF 700 is performed using the so-called preselect slider, allowing predefined heights to be used. Alternatively, any individual dimension can be set using the scale. The routing height defines the distance from the workpiece top from which the hole is routed into the workpiece. Selection of the correct routing height depends on the material worked on the one hand, and on the type of joint to be produced on the other. Here, it is not absolutely necessary for the routed hole to be in the centre of the material. You can therefore 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 preselect slider.

The dimensions set using the preselect slider designate the material thickness being worked and centre the routed hole exactly in the middle of the selected disc size – without you having to calculate the distance to the centre. Release the routing height adjustment clamping lever and lift the front section of the guide frame using the secondary handle. Now select the required disc size using the slider (16 mm, 20 mm, 22 mm, 25 mm, 28 mm, 36 mm, 40 mm). Then push the front section of the guide frame downwards until it stops and close the clamping lever.



DF 500

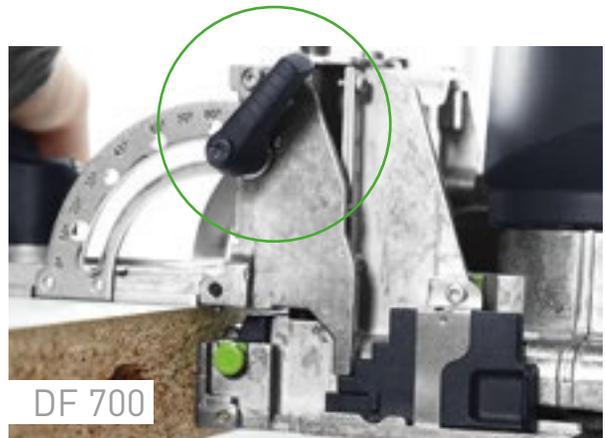
DF 500 – set any routing height

Here, the dimension given defines the distance between the underside of the leaf and the centre of the routed hole. Loosen the routing height adjustment clamping lever and, using the secondary handle, raise the front section of the guide frame. Then push the slider towards the motor unit until it stops. Set the required routing height on the scale by moving the front section of the guide frame horizontally. Now close the clamping lever.



DF 700

DF 700 The routing height is adjusted on the DF 700 analogous to the DF 500. The only difference to note: here, the preselect setting does not designate the board thickness, but instead the true distance from the top of the workpiece to the centre of the routed hole.



DF 700

NOTE The alignment of the clamping levers can be adjusted by lifting them. In the tightened state, they should not protrude past the contact surface.

1.4.7 Angle adjustment range

For mitred joints, the joining machine routing angle can be set using stepped, predefined angles or any other degree between 0° and 90°. The precisely machined dowels optimally align the workpiece and prevent the mitre from slipping when being glued.



DF 500 and DF 700: Loosen the angle stop clamping lever to adjust the routing angle. Then set the required angle, either continuously on the scale between 0° and 90° or in steps at 0°, 22.5°, 45°, 67.5°, 90°. Close the clamping lever.



TIP Routing thin workpieces with a mitre. 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 using mitre routing, set the routing 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 mitred using the 4 x 20 mm dowel.

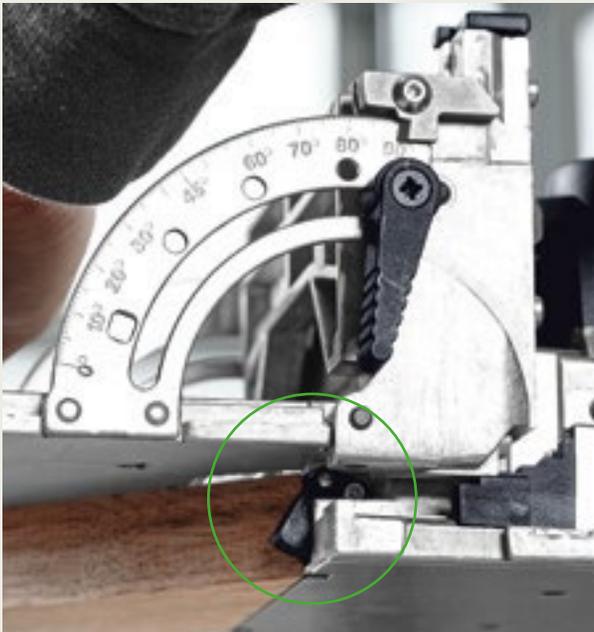
The table shows some of the most commonly used mitre angles:

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



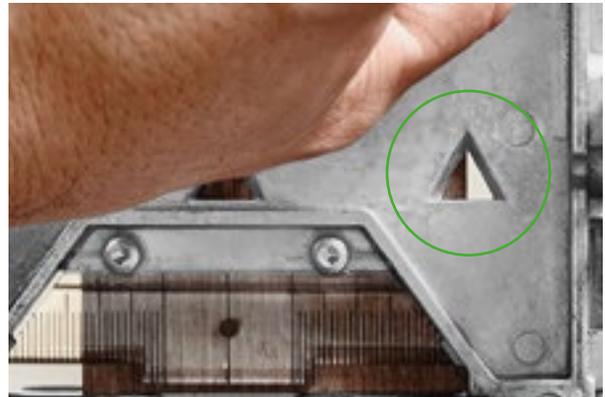
1.4.8 Working with the stop system

One of the greatest time advantages of working with DOMINO joining machines is the result of working without the need for complex measuring or marking – the machine is positioned quickly and exactly simply by using stop catches (DF 500) or stop pins (DF 700).

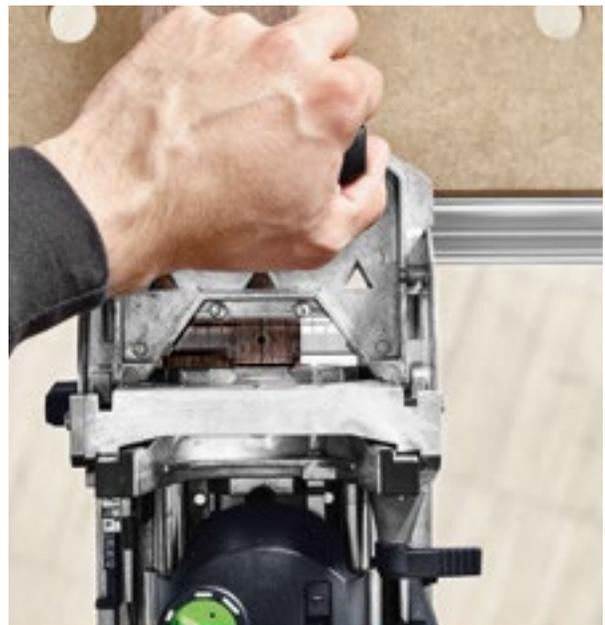


It is easiest to quickly define the positions of repetitive dowel holes by using the integral stop catches for both parts of the workpiece. The distance between the stop catch and the router centre is 37 mm. Place the DF 500 at the edge of the workpiece using a stop catch.

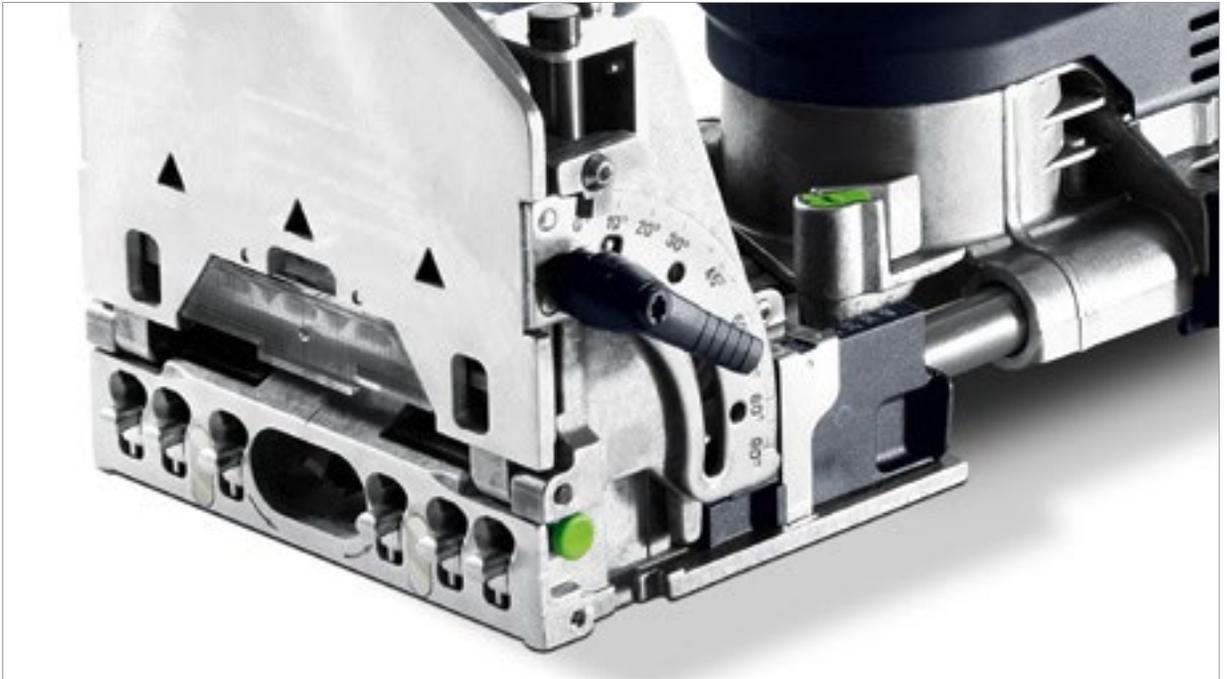
TIP With the aid of the additional stop provided with the DF 500, the lateral distance to the DOMINO centre can be reduced from 37 mm to 20 mm.



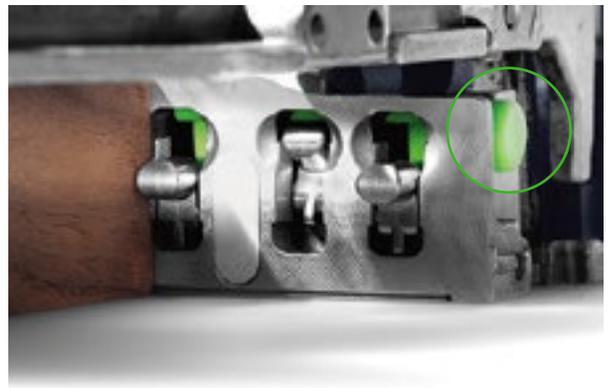
The edge of the workpiece is visible in the machine's upper triangular viewing window. If you do not need the stop catches, they are automatically pushed aside during the routing process.



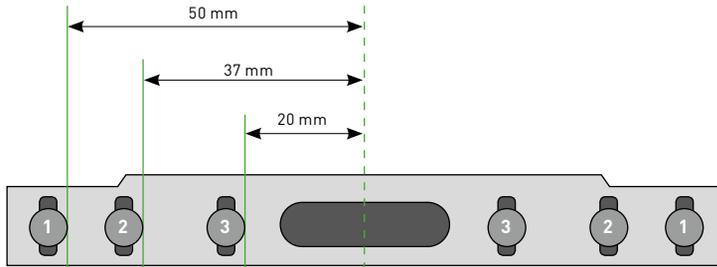
DF 500 Of course, it is possible to define the positions of the DOMINO routed holes by simply drawing and locating the machine on the scribe mark looking through the viewing window.



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

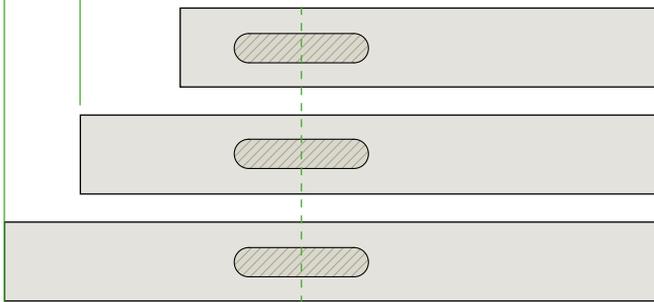


There are six stop pins on the stop side of the joining machine. Unnecessary stop pins can be pushed aside individually and lock in place, and can all be released again by pressing the button on the side of the machine (see markings in the figure).



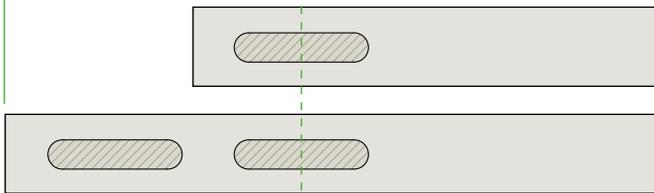
The stop pins serve as distance pieces to the router centre and can be separately located.

A



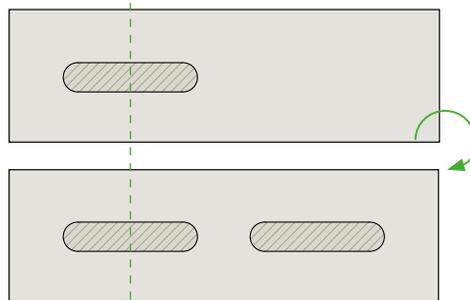
Pins (1 - 2 - 3) allow three separate distances to a reference edge.

B



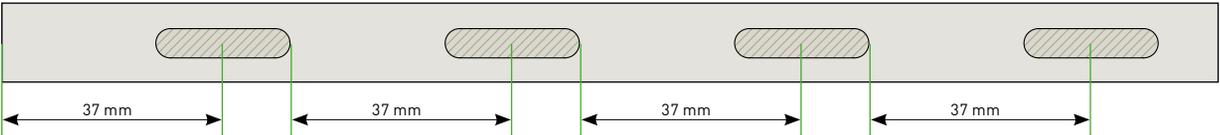
The pins allow two dowel holes to be placed adjacent to each other at a defined distance to a reference edge (1 - 3).

C



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

In addition, it is possible to insert the pin in the previously routed dowel hole and to use the edge of the dowel hole as a stop. This means you can define dowel holes 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 quantities of chippings are accrued when working with the DOMINO joining machines. To improve chip transport out of the routed hole during the routing process, but also to protect your own health, we recommend you always work with dust extraction. However, please examine all dowel holes for chips after routing and empty them if necessary.



Selecting the correct mobile dust extractor: it all depends on the dust category!

In addition to improved work progress, the mobile dust extractor also primarily ensures improved health when working with the DOMINO joining machines: because when working in dusty environments, in particular with materials such as wood, the dust produced can become a serious health risk. This has been shown by a recent meta-analysis*, which established that the relative risk of asthma amongst employees exposed to wood dust is 1.53 times higher than that of the normal population.

So do yourself a favour and make sure you have clean air in your workplace – and work with a tested and approved mobile dust extractor. You will also be complying with all the statutory regulations, too.

*Source: Perez-Rios M, Ruano-Ravina A, Etmnan M, Takkouche B. A. Meta-analysis on wood dust exposure and risk of asthma. Allergy 2010;65:467-73.

The Festool mobile dust extractors were especially developed for and coordinated with our tools, and are therefore also ideal in conjunction with the DOMINO joining machines. Whether you choose a mobile dust extractor with a volume of 26, 32 or 48 litres and with or without automatic AUTOCLEAN cleaning technology, depends entirely on your personal preferences and other use preferences.



What is important in any case is that you work with a mobile dust extractor in dust category M. This dust category is approved for all wood dusts which accrue when routing with the DOMINO joining machines, but also for dusts produced by putty, fillers and cement, concrete, tile adhesives and paints such as latex and oil paints, and also quartziferous materials such as sand and gravel.





The DOMINO dowel

2

2. The DOMINO dowel. The shape makes the difference.

Not flat. Not round. Just DOMINO.

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

Round dowels

The traditional solution for frames and racks.



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.

Flat dowels

The standard for boards for decades.



Flat dowels are quickly – and generally using manually operated machines – using scribe marks. Because the flat dowels are shorter than the routed slots, a slight offset during routing is not a problem. The joint is movable. However, this advantage demands additional alignment when gluing.

DOMINO dowels

Not flat. Not round. Just DOMINO.



The special shape, in combination with swelling glue pockets and longitudinal grooves, gives the DOMINO dowels a secure hold. For absolutely rotation-resistant connections and maximum stability. And with substantially faster working: the first dowel hole is very easily positioned and precisely routed with the aid of stop catches (DF 500) or stop pins (DF 700). It immediately aligns the workpieces being connected exactly and flush to a reference edge. However, the DOMINO system even tolerates minor imprecisions in the additional dowel holes, routed with clearance. Compared to traditional connecting elements, you always have the choice of working precisely or with clearance when working with DOMINO joining machines.

NEW The DOMINO corner and flat connectors

As stable as DOMINO dowels, but can be flexibly released again if necessary.



DOMINO dowels.

100% rotation resistant

From the very first DOMINO dowel, the joints are absolutely rotation resistant without additional workpiece alignment.

Highest stability

The special shape of the DOMINO dowel in combination with swelling glue pockets and longitudinal grooves, gives the DOMINO dowels a secure hold.

Fits perfectly

The DOMINO joining machines route the holes to an exact fit where needed. The dowel's special groove geometry ensures a perfect precision fit.

For inside and out

DOMINO dowels are available in two materials: beech for interior applications and weatherproof, insect- and mould-resistant Sipo hardwood mahogany dowels for exterior applications.

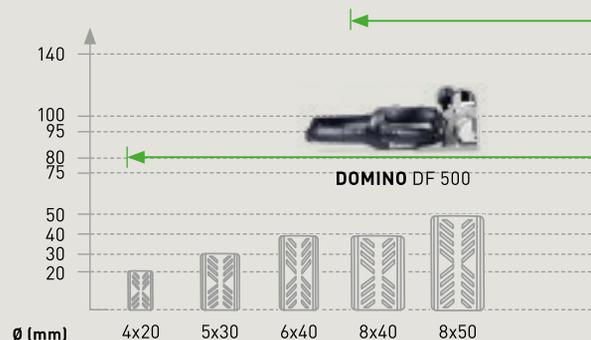
Beech DOMINO dowels are certified by the Pan European Forest Council (PEFC) for wood products from sustainable, caring and responsible forest management.

Hardwood mahogany DOMINO dowels are weatherproof, and insect- and mould-resistant, and are therefore ideally suited for exterior applications. They are manufactured from wood originating in sustainably managed and controlled forests.



Always a stable connection.

The DOMINO system provides the correct dowel for every application. With its range of sizes, two wood types for interior and exterior applications and additional, individually adaptable rods, there are practically no limits to this system's options.



The 8–14 mm diameters are also available as rods and in two types of timber for interior and exterior applications.
* Flat connectors – here with the optional enlarging clips around the transverse anchor.

Environmentally friendly

All DOMINO dowels originate from sustainable forest management. The beech dowels are certified by the Pan European Forest Council (PEFC).

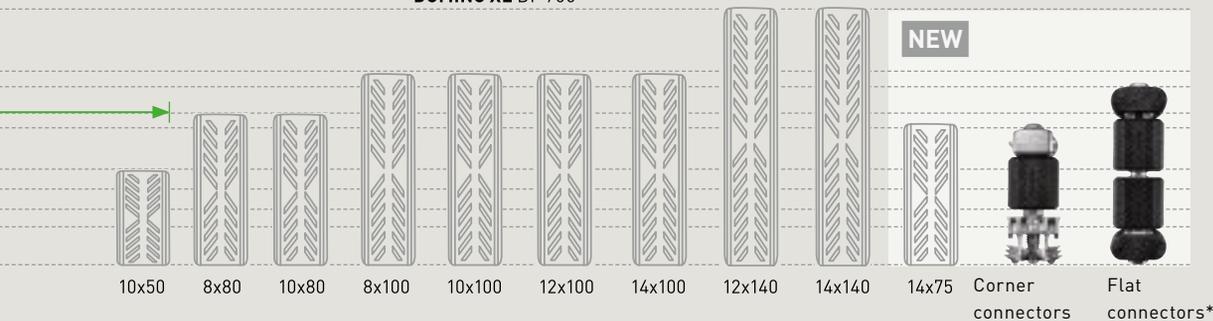


And now also flexible

Connect even faster. And release again if needed. The new corner and flat connectors for the DOMINO XL DF 700 guarantee the usual stable DOMINO connections – but can be quickly released again if needed.



DOMINO XL DF 700





DOMINO system accessories

3

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 last detail: with a variety of stops, compatible with both DOMINO joining machines, even complicated shapes can be easily connected.

Handrail fence



Wood rods in diameters from 35 – 60 mm are rotation resistantly fixed by a single DOMINO dowel: simply push on the handrail fence, precisely adjust, fit the workpiece and route.

(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

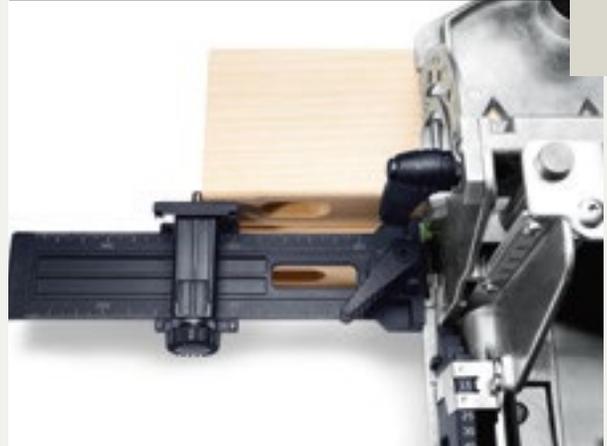


Trims of 22 – 70 mm width can be quickly positioned and fixed centrally using the trim stop – ideal for rack joins.

(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



Repetitive hole centres of 100 – 205 mm can be easily transferred using the cross stop – without scribing the 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 additional stop



The additional stop provided with the DF 500 increases the contact area and reduces the lateral distance of the stop catches to the DOMINO centre from 37 mm to 20 mm. This allows precise positioning of narrow workpieces.

DF 700 support surface extension



The support surface extension provided with the DF 700 allows the contact area to be extended for routing on the edge of the workpiece and the machine is thus more reliably guided.

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, frame and rack joins, involving narrow or wide, delicate or solid workpieces with dowel sizes ranging from 4 to 14 mm in diameter or flexible, separable corner and flat connectors. In short, the DOMINO system is perfect for realising 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 dowels, etc. Nevertheless, these examples always demonstrate the basic procedure which can be used as a reference.

Applications

Board connections

Drawers from dowel Ø 4 mm

Furniture making with dowel Ø 5 and 6 mm

Solid wood furniture with dowel Ø 8 and 10 mm

Solid wood furniture (e.g. beds) with dowel Ø 12 and 14 mm

Rack connections

Lightweight rack construction (e.g. chairs) up to dowel Ø 10 mm

Stable rack construction (e.g. tables) with dowel Ø 10 to 14 mm

Frame and stand designs

Frame joins

Furniture fronts in frame design with dowel Ø 8 and 10 mm

Solid wood furniture in frame design

Entry doors and internal doors

Additional applications

Connection of narrow trims from a width of 25 mm

Connection of rods with handrail fence

Connection of wide rails (e.g. solid wood panels)

Corner connectors from 30 mm material thickness, separable

Flat connectors from 30 mm material thickness, separable



DOMINO joining machines

DF 500

DF 700

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very suitable

suitable

4.2 Frame joins

The applications of the DOMINO connecting system are virtually unlimited, as well as uncomplicated. Just one DOMINO dowel 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 dowels 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 joins can be created in the same way, for beds, tables or internal doors, for example. Thanks to the larger possible 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 Mitred frame join



In this example, we are processing 5 x 30 mm dowels. 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 dowels per corner connector for maximum stability. Place the routing machine on the mitre cross section and carefully work with the stop catch at the side against the tip of the mitre. Route the first hole with precision.



For the second routed hole, either mark out the position or run the machine flush along the outside tip of the mitre. This routed hole can either be precisely routed like the first hole – 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 holes in all four frame rails.



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

4.2.2 Butted frame joint

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



Set the routing height to match the thickness of your workpiece. For the routing depth, select half the dowel length. Route the holes by either using the right hole width for both for extreme precision fit or routing the second hole with clearance, if desired.



The routed holes 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 routed hole is set here using the stop catch. This method makes it possible to position two dowels next to each other working from just one reference edge.

TIP When using the stop catches, 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, whereby every second frame rail is routed into the workpiece lengthwise instead of into the front.



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 dowel holes, so that the dowel is centred later despite the rebate (which then takes up part of the depth of the dowel hole).

4.2.3 Stable frame joins with the DF 700



Use the DOMINO DF 700 for stable frame joins such as for doors, where larger dowels 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 holes even after rebating, which would not be possible with a classic drill for conventional dowel 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 dowel cannot be processed despite the maximum routing depth of 70 mm for the DF 700. The maximum possible standard dowel is the 14 x 100 mm. However, if you wish to make full use of the maximum routing depth and cut the dowel itself to the correct maximum size, you can do so by cutting the dowel rods to the appropriate length and creating the perfect dowel size yourself.



1

Mark out the desired position of the dowel 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.

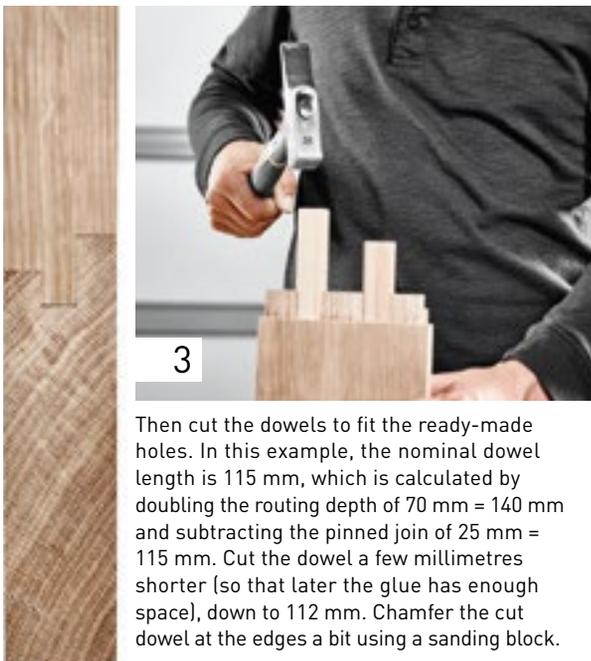
In the end grain, set both routed holes with the correct hole width – in this case the dowels are later glued and then fit in precisely. The routing height is half of the workpiece thickness (which is 40 mm in this example, so the routing height setting is 20 mm).



2

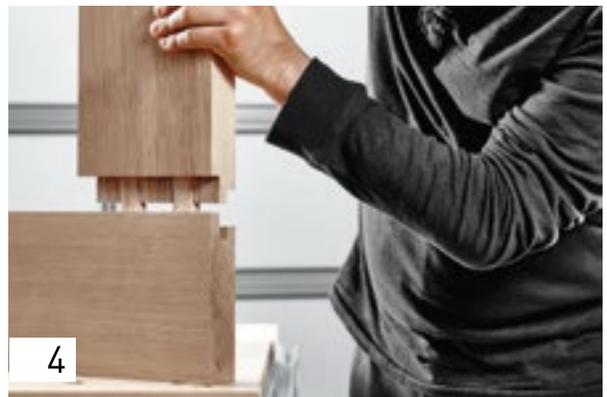
In the lengthwise rail, set the routed holes with a 70 mm routing depth as well, but route the first hole with precision and the second as a slot with clearance. Proceed likewise for the additional lengthwise and crosswise rails.

4



3

Then cut the dowels to fit the ready-made holes. In this example, the nominal dowel 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 dowel a few millimetres shorter (so that later the glue has enough space), down to 112 mm. Chamfer the cut dowel at the edges a bit using a sanding block.



4

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

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

4.3 Rack joins and secure spindle positioning

Making rack joins 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 set) is recommended for safe and precise workpiece routing. This trim stop fits both the DF 500 and the DF 700 and securely holds spindles with 22 – 70 mm 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 dowel as in this example, use the 6 mm router (6 mm dowels can only be processed with the DF 500). For details on changing the router, see chapter 1.4.4, page 18.



5

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



NOTE You can naturally use the DF 700 to apply this method with a dowel 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.



6

The trim stop provides additional support in these cases: mark out the desired position of the spindles on the handrail, where routing will take place later. 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 router to be processed.



7

Then set the trim stop to the width of the handrail.



8

Route the holes in the handrail, positioning the joining machine on the second marking.



9

Applying a sufficient amount of glue, insert the DOMINO dowels into the routed holes and join the handrail to the spindles.



TIP Of course, bevelled joints are also possible with spindles needed especially for going up and down stairs. In this case, set the cutting angle of the spindle on the DOMINO joining machine during routing (using the routing angle adjustment) and route the DOMINO hole.



Set the routed holes in the handrail as described above. Then join the spindle and handrail together.



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



Set the routing height to the centre of the workpiece. Mark out the axis distance of the spindles on the top side of the workpiece. In this case (when simply using markings) bring the scale in the viewing window of the DOMINO over the scribe mark and set the routed holes. A second scribe mark, as in the example of the handrail above, is not necessary here.

4.4 Round profile joins



When connecting round wooden profiles, such as those used for handrails, for example, 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 35–60 mm. The following example describes how a stop is created using this handrail.



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

Set the routing depth to 20 mm.

Select the routing height so that the dowel is offset towards the inside of the mitre, preventing the routing from going through the workpiece. In our example with a round wooden profile with 40 mm diameter, set the routing height to 20 mm, for example.



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.



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



Set the routing angle on the joining machine according to your sawing angle on the workpiece. In our example, the handrail was sawed at 15°, which means the routing angle is set to 75°; this is equal to 90° minus 15°. Secure the workpiece, on the MFT multifunction table, for example. Then route the hole in both parts of the workpiece.



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

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 DOMINO dowels 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:

Dimensions for routing the DOMINO corner connector

1. Anchor bolt
 2. Self-drawing expansion bolt – for a secure hold in the workpiece.
 3. Transverse anchor including stud
 4. Dowel half-shells – clipped around double-headed or anchor bolts.
 Items included with double-headed or anchor bolts.

	Hole 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 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!



Per corner connector:

1 x anchor bolt including dowel half-shells

1 x transverse 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 routing depth of the joining machine to 25 mm – set the markers to 25 mm and 50 mm.



It is a good idea to work with the stop pins in this case. Select the pins depending on the desired hole distance. Ensure that the routing for the corner connector has a minimum distance of 37 mm from the edge of the workpiece. If you work with the stop pins, use the centre pin at least.



Route the DOMINO holes in the table or bedpost (narrow hole width) with a routing depth of 25 mm. Set one hole for the expansion bolt of the corner connector, the others for the load transfer via traditional DOMINO dowels.





Change the routing depth to 50 mm and route the holes (narrow hole width) in the frame according to the scribe mark or using the stop 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 hole is centred in the material.



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



The flip stop point, i.e. the routing height adjustment, must always be set to 40 mm. This ensures that the transverse hole always sits at the right distance to the edge of the workpiece and that the anchor bolt then catches the transverse anchor.



Then route the transverse hole 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 at the scribe mark or using the stop pins (depending on how the horizontal routed hole was set).

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



8

Insert the expansion bolt into the centre routed hole in the post.



9

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



10

Then screw the anchor bolt all the way into the expansion bolt. This expands the expansion bolt, pulling it another 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 hole 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 routed hole, even if the joint is disassembled for transport purposes.



Clip the two dowel half-shells around the anchor bolt. These are used to hold the corner connector flush against the workpiece.



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



Press the transverse anchor all the way into the routed hole using the spanner.

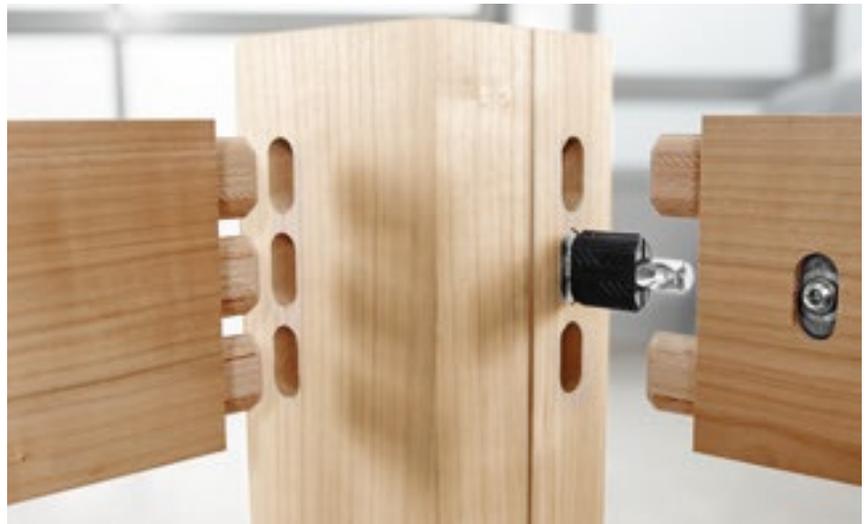


Then insert the threaded screw. Tighten it only so that the screw stays in place, but the opening remains open for the anchor bolt.



16

Then join the frame to the post by pushing the connector and dowels into their respective holes.



TIP It is usually a good idea to fit flexible connectors to one of the sides and securely glue dowels into the other side.



17

Tighten the connection using a 4 mm hexagonal socket.



18

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

4



19

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 joins



The DOMINO flat connector is ideal for creating especially stable flat joins that are separable. You can connect plates, kitchen worktops or other surfaces, for example, quickly and flexibly. This application example demonstrates how to connect a kitchen worktop.



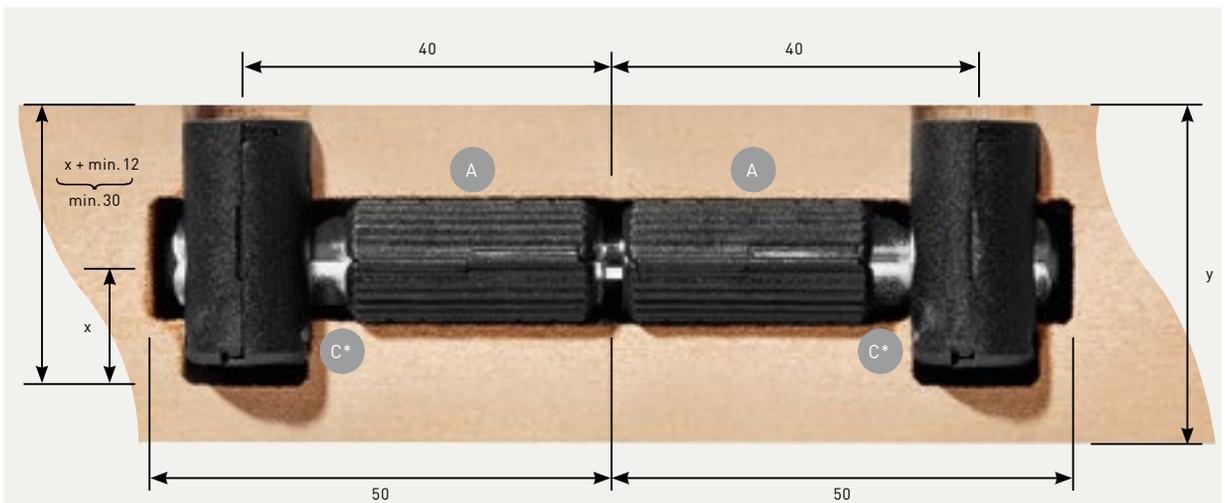
For flat joins, you need the following components from the DOMINO corner and flat connector system:



1. Transverse anchors – here with additional widening. Prevents the transverse anchor from drawing into soft materials (e.g. kitchen worktops).
2. Double-headed bolt – can be used with one or two dowel clips.
3. Dowel half-shells – clipped around double-headed or anchor bolts. Items included with double-headed or anchor bolts.

4

Flat connector with enlarging clips around the transverse anchor – specially designed for materials such as kitchen worktops.



	Hole width	Routing depth	Routing height
A			
	50 mm	50 mm	~y/2

When working without enlarging clips around the transverse anchor:

C		x + min. 10 mm; min. 25 mm in total	40 mm
---	--	--	-------

When working with enlarging clips around the transverse 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 dowel half-shells

4 x transverse anchors including studs

Optional: 8 x enlarging clips for the transverse anchors

Optional: 2 x DOMINO dowels 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 DOMINO dowels (used to ensure a flush connection).



2

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



3

Insert the 14 mm router.

4



4

Set the routing height: the distance from the flip stop to the centre of the router should be half the worktop thickness. With a worktop thickness of 38 mm, for example, set the routing height to 20 mm.



5

Then set the routing depth to 50 mm and set the markers to 50 mm and 30 mm.



Route the 50 mm deep holes with the narrow hole width into both workpieces at the markings. The joining machine is placed on the top side of the worktop in this case.



Switch the machine to the large hole width for the transverse holes; this gives the transverse anchors enough space when fitted with the enlarging clips.



Then set a routing depth of 30 mm – this dimension depends on the material. What is important to note is that the transverse hole should overlap the longitudinal hole by 5 mm in depth. If using the transverse anchors without enlarging clips, an overlap of 3 mm suffices. The routing height should be set to 40 mm – this setting is identical for each connector, because it is based on the length of the connector. Route transverse holes in both workpieces at the points where the flat connectors will be inserted.



9

The enlarging clips around the transverse anchors prevent the anchors from drawing into soft materials (e.g. kitchen worktops) when tightened. Clip the enlarging clips around the transverse anchors for this purpose.



10

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



11

Insert the transverse anchors into the routed holes.



12

If you have decided to use additional DOMINO dowels in order to ensure a flush connection and extra transverse load transmission, insert these into the other routed holes.



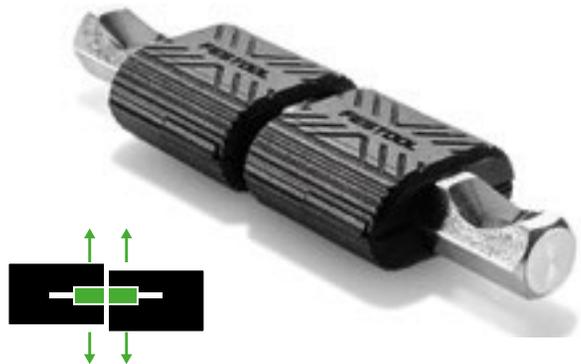
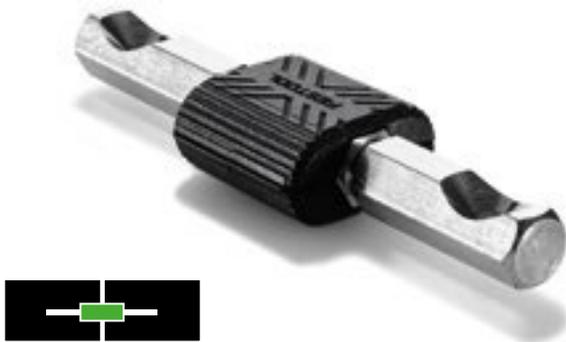
13

Clip the dowel clips around the double-headed bolt.

TIP The double-headed bolt can be fitted with one or two dowel clips.

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

With two dowel clips, the double-headed bolt has some clearance later for the alignment, because the clips each sit in a half of the workpiece .





14

Then push the double-headed bolt into the workpiece...



15

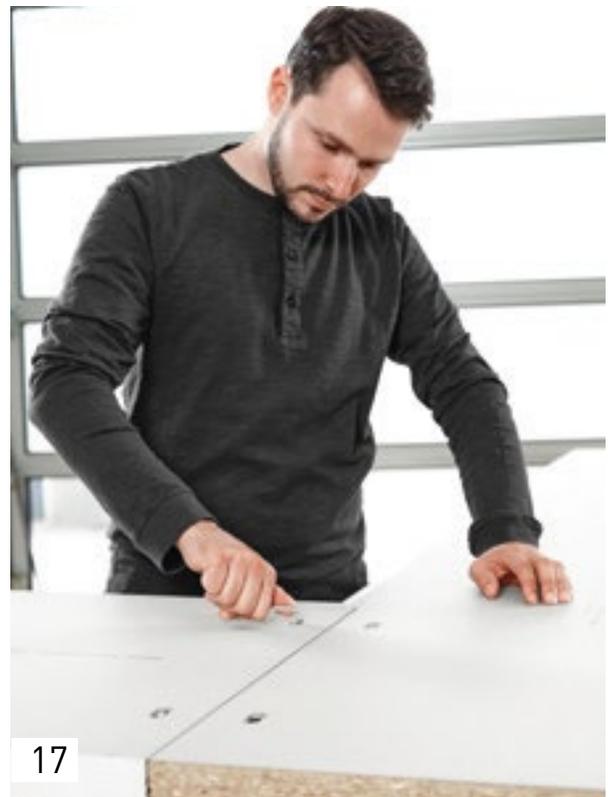
... and tighten the stud in the first transverse anchor.

4



16

Push both workpieces together...



17

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



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 transverse holes with cover caps.

4.7 Mitred joins



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



Our workpiece is 30 mm thick. We are processing dowels with 8 x 40 mm thickness. The mitre angle is 45°. This requires the following settings on the joining machine: adjust the routing height to the smallest setting, 10 mm. The routing angle is 45° and the routing depth is half of the dowel length, i.e. 20 mm.



Use the stop pin system to select the hole distance based on the individual workpiece. In this example, we are working with the two centre pins, to create a hole distance of 37 mm.



After routing the first hole (the pin is positioned at the edge of the workpiece in this case), the pin goes into the routed hole, thus setting the next stop. Route the first hole with precision, and all other holes as slots with clearance.



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



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

4.8 Drawer connections

Even thin cross-sections from 12 mm can be joined perfectly with the DF 500, using the small 4 x 20 mm DOMINO dowels and the appropriate 4 mm router. The 4 x 20 mm dowel is suitable for right-angle connections in thin workpieces or mitred joints from a 15 mm thickness.





1

To process the smallest DOMINO dowel (4 x 20 mm), insert the 4 mm router into the DOMINO DF 500. This router is unique in that it is shortened by 10 mm. Therefore, at the maximum routing depth of 20 mm, the routed hole is only 10 mm deep.



2

Set the additional stop on the DOMINO DF 500. This uses the additional stop pins to reduce the lateral distance to the centre of the DOMINO router from 37 mm to 20 mm.

4



3

Set the routing depth to 20 mm, the routing height to the minimum and the routing angle to 45°.



4

Flip the additional stop pin from the additional stop and place the joining machine on the workpiece – the routed holes will be further offset from the edge of the workpiece, which is beneficial with such narrow workpieces.



Insert the dowels into the routed holes, glue them ...



... and join the workpiece together.



NOTE Of course, butted joints are also possible using the smallest DOMINO dowel. Proceed as described above and route the dowel holes 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 join



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



1

With larger workpiece widths and larger hole distances, the cross stop can be used to work easily with the stop pin system instead of marking out holes.

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



2

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).



3

Mount the cross stop onto the joining machine according to the operating instructions. In this example, we are processing 6 x 40 mm dowels.

Due to the material thickness of 19 mm, the dowel cannot be inserted into both workpiece parts (front and surface) with 20 mm on each side.



4

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

Place the joining machine at the front edge of the workpiece with the stop pin for the first routed hole, and route the hole with the appropriate hole width.



5

For the other routed holes, set the desired hole distance on the cross stop and position the pin in the first routed hole. Route the other holes as slots.



6

Use the same process to create the routed holes for the side wall of the cabinet. Set the first hole with the stop pin of the DOMINO joining machine...

4



7

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



8

Then create the routed holes 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 centre shelf will be. Mark the top and bottom edge of the shelf (material thickness), not the centre.



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

TIP If the centre shelf will be reset at the end, keep this in mind even when clamping.



In our example, the centre shelf and side part are flush at the front and are clamped accordingly. Adjust the angle of the joining machine to 0° and the routing depth to 15 mm. Then route the first dowel hole with the narrow hole width with the stop pin in the horizontal side part.



For the other dowel holes, switch the hole width to the slot and mark out the dowel positions with a simple scribe mark on the horizontal centre shelf. Then place the joining machine on the scribe mark. Use the markings placed on the bottom of the joining machine by positioning the centre marking on the machine at the scribe mark on the shelf.



Switch the routing depth to 25 mm and route the dowel holes in the centre shelf, again using the stop pin for the first routed hole (narrow hole width).



13

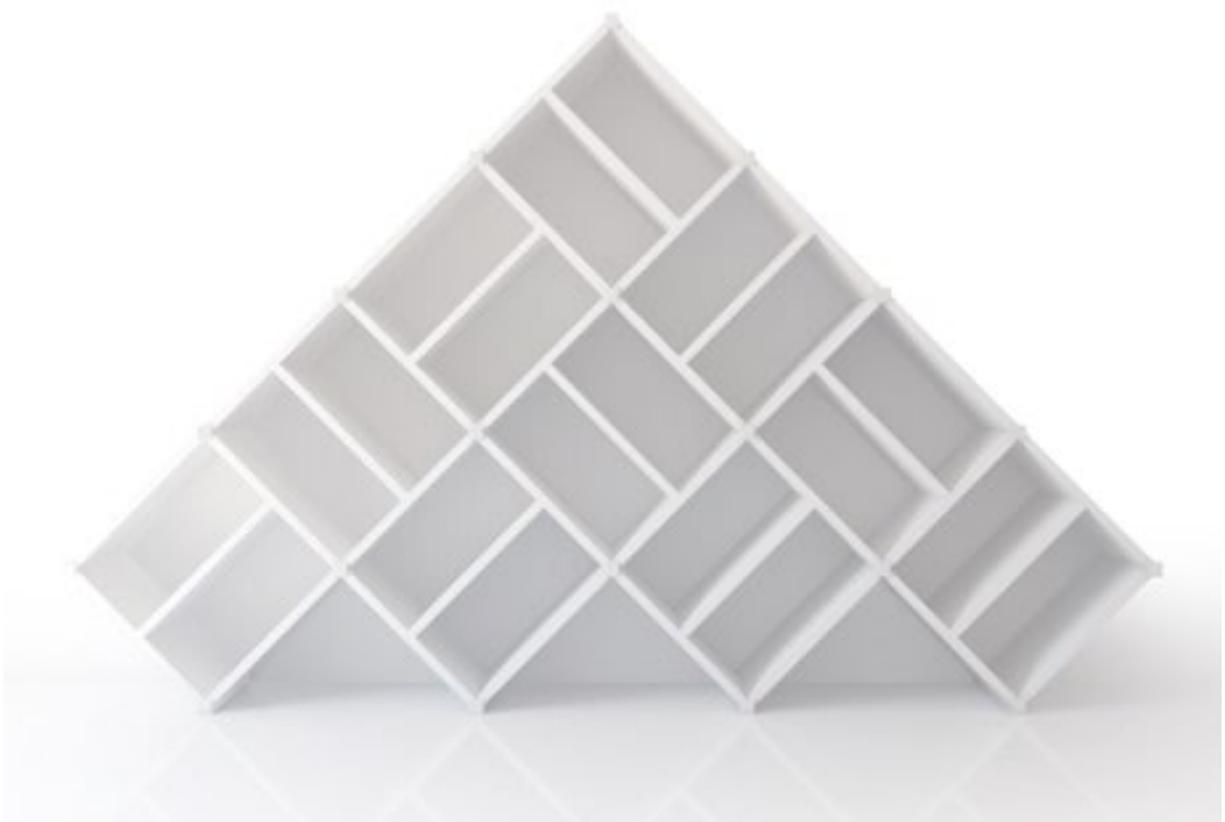
Set the other holes using the scale in the viewing window, which you align with the scribe marks. Set all holes here in the panel edge with the narrow hole width – the dowels will be glued here first and will then fit in precisely.



14

Proceed likewise for the second side part. Then insert the DOMINO dowels in the routed holes and join your workpiece together, applying glue to the joint.

4





Items included, specifications

5



5. Items included, specifications



DOMINO DF 500 Items included

DF 500 Q-Plus 574328

DOMINO D 5 cutter, support bracket, in a SYS 2 T-LOC SYSTAINER

DOMINO DF 700 Items included

DF 700 EQ-Plus 574423

DOMINO D 12 cutter, support bracket, in a SYS 5 T-LOC SYSTAINER

DF 500 Q-Set 574430

DOMINO D 5 cutter, support bracket, trim stop, cross stop, in a SYS 2 T-LOC SYSTAINER

Specifications

	DOMINO DF 500	DOMINO DF 700
Power consumption (W)	420	720
Idle engine speed (min ⁻¹)	25,500	21,000
Depth stop for routing depth (mm)	12, 15, 20, 25, 28	15–70
Max. routing depth (mm)	28	70
DOMINO slot cutter Ø (mm)	4, 5, 6, 8, 10	8, 10, 12, 14
Routing height adjustment (mm)	5–30	10–50
Mitre routing (°)	0–90	0–90
Dust extractor connection Ø (mm)	27	27
Weight (kg)	3.2	5.2

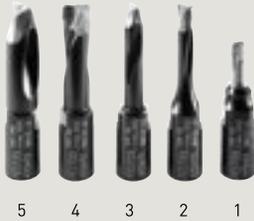
Accessories

6

6. Accessories

6.1 Cutters

Cutters for DOMINO DF 500 joining machine



1	D 4-NL 11 HW-DF 500 cutter D 4 mm, NL 11 mm, in self-service display pack	495663
2	D 5-NL 20 HW-DF 500 cutter D 5 mm, NL 20 mm, in self-service display pack	493490
3	D 6-NL 28 HW-DF 500 cutter D 6 mm, NL 28 mm, in self-service display pack	493491
4	D 8-NL 28 HW-DF 500 cutter D 8 mm, NL 28 mm, in self-service display pack	493492
5	D 10-NL 28 HW-DF 500 cutter D 10 mm, NL 28 mm, in self-service display pack	493493

Cutters for DOMINO XL DF 700 joining machine



1	D 8-NL 50 HW-DF 700 DOMINO cutter Cutter with thread inserts for the DOMINO XL DF 700 joining machine, D 8 mm, NL 50 mm, in self-service display pack	497868
2	D 10-NL 70 HW-DF 700 DOMINO cutter Cutter with thread inserts for the DOMINO XL DF 700 joining machine, D 10 mm, NL 70 mm, in self-service display pack	497869
3	D 12-NL 70 HW-DF 700 DOMINO cutter Cutter with thread inserts for the DOMINO XL DF 700 joining machine, D 12 mm, NL 70 mm, in self-service display pack	497870
4	D 14-NL 70 HW-DF 700 DOMINO cutter Cutter with thread inserts for the DOMINO XL DF 700 joining machine, D 14 mm, NL 70 mm, in self-service display pack	497871

6.2 Stops

Stops for **DOMINO DF 500 joining machine** and **DOMINO XL DF 700**



QA-DF 500/700 cross stop

for DF 500 and DF 700, items included: a left and a right cross stop, for repeated hole centres of 100–205 mm, for exact positioning of routing with edge distances of 100–205 mm, in self-service display pack

498590



LA-DF 500/700 trim stop

for DF 500 and DF 700, for 22–70 mm wide trims, qty. in pack 1 pc., in self-service display pack

493487



RA-DF 500/700 handrail fence

for DF 500 and DF 700, for wood rods of 35–60 mm, for precisely routing rods \varnothing 35–60 mm, in self-service display pack

494847

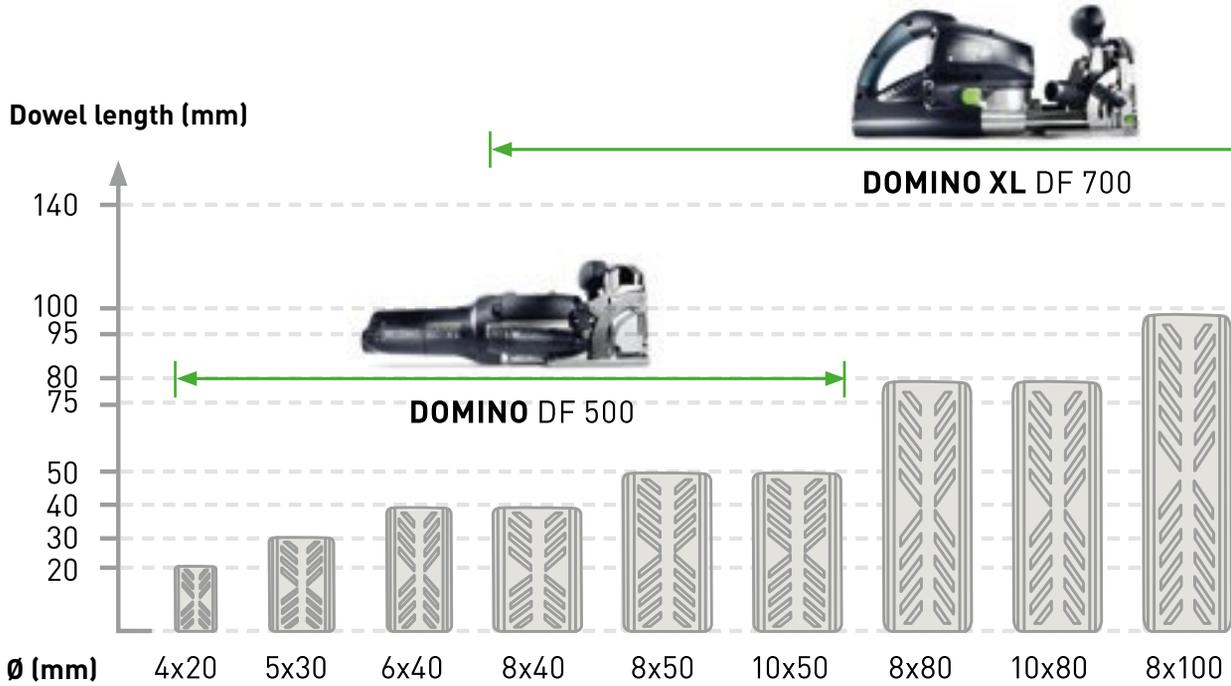


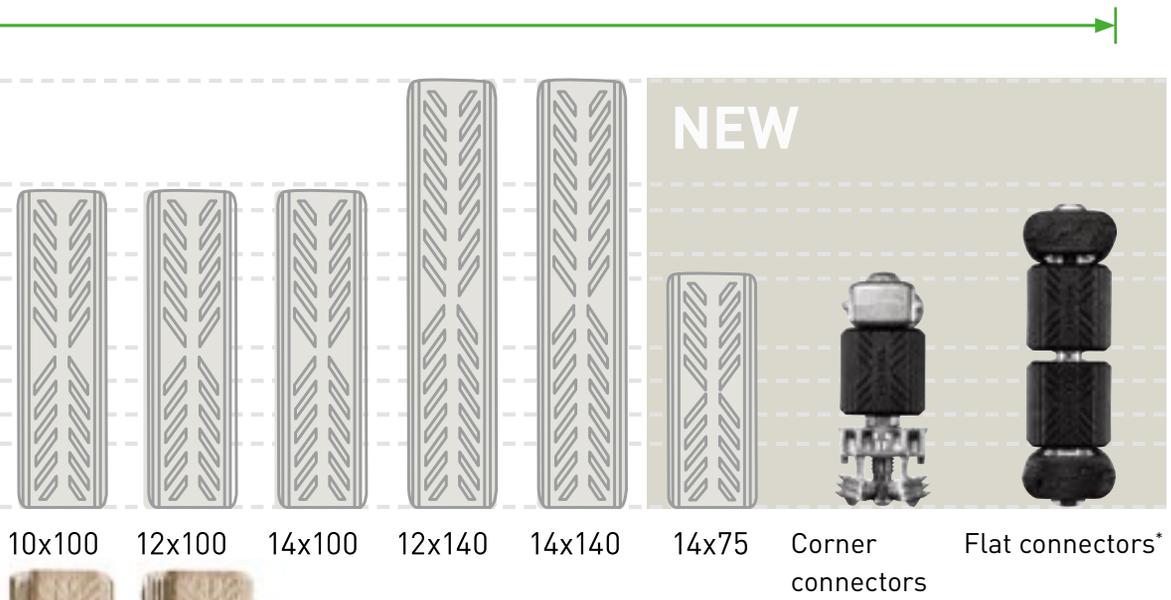
ZA-DF 500 additional stop for DF 500 only

Support surface extension and parallel side fence for reducing the dowel centre from 37 mm to 20 mm, for safely locating the router, in self-service display pack

495666

6.3 DOMINO dowels and connectors





*Flat connectors - here with the optional enlarging clips around the transverse anchor.



6.3.1 DOMINO dowels and dowel rods Beech



Dowel, beech D 4 x 20/450 BU Dimensions 4 x 20 mm, qty. in pack 450 pcs, in self-service display pack	495661
Dowel, beech D 5 x 30/300 BU Dimensions 5 x 30 mm, qty. in pack 300 pcs, in self-service display pack	494938
Dowel, beech D 5 x 30/1800 BU Dimensions 5 x 30 mm, qty. in pack 1800 pcs, in carton	493296
Dowel, beech D 6 x 40/190 BU Dimensions 6 x 40 mm, qty. in pack 190 pcs, in self-service display pack	494939
Dowel, beech D 6 x 40/1140 BU Dimensions 6 x 40 mm, qty. in pack 1140 pcs, in carton	493297
Dowel, beech D 8 x 40/130 BU Dimensions 8 x 40 mm, qty. in pack 130 pcs, in self-service display pack	494940
Dowel, beech D 8 x 40/780 BU Dimensions 8 x 40 mm, qty. in pack 780 pcs, in carton	493298
Dowel, beech D 8 x 50/100 BU Dimensions 8 x 50 mm, qty. in pack 100 pcs, in self-service display pack	494941
Dowel, beech D 8 x 50/600 BU Dimensions 8 x 50 mm, qty. in pack 600 pcs, in carton	493299
Dowel, beech D 10 x 50/85 BU Dimensions 10 x 50 mm, qty. in pack 85 pcs, in self-service display pack	494942
Dowel, beech D 10 x 50/510 BU Dimensions 10 x 50 mm, qty. in pack 510 pcs, in carton	493300

DOMINO, beech D 8 x 80/190 BU Dimensions 8 x 80 mm, qty. in pack 190 pcs, in carton	498212
DOMINO, beech D 8 x 100/150 BU Dimensions 8 x 100 mm, qty. in pack 150 pcs, in carton	498213
DOMINO, beech D 10 x 80/150 BU Dimensions 10 x 80 mm, qty. in pack 150 pcs, in carton	498214
DOMINO, beech D 10 x 100/120 BU Dimensions 10 x 100 mm, qty. in pack 120 pcs, in carton	498215
DOMINO, beech D 12 x 100/100 BU Dimensions 12 x 100 mm, qty. in pack 100 pcs, in carton	498216
DOMINO, beech D 12 x 140/90 BU Dimensions 12 x 140 mm, qty. in pack 90 pcs, in carton	498217
DOMINO, beech D 14 x 100/80 BU Dimensions 14 x 100 mm, qty. in pack 80 pcs, in carton	498218
DOMINO, beech D 14 x 140/70 BU Dimensions 14 x 140 mm, qty. in pack 70 pcs, in carton	498219



T-LOC SORT-SYS DOMINO

Empty SYS 2 T-LOC systainer contains 3 boxes with flexible compartments for individual filling with DOMINO dowels, SYS 2 T-LOC SYSTAINER

498889



DOMINO dowel rod, beech D 8 x 750/36 BU	498686
Dimensions 10 x 750 mm, qty. in pack 36 pcs, in carton	
DOMINO dowel rod, beech D 10 x 750/28 BU	498687
Dimensions 10 x 750 mm, qty. in pack 28 pcs, in carton	
DOMINO dowel rod, beech D 12 x 750/22 BU	498688
Dimensions 12 x 750 mm, qty. in pack 22 pcs, in carton	
DOMINO dowel rod, beech D 14 x 750/18 BU	498689
Dimensions 14 x 750 mm, qty. in pack 18 pcs, in carton	



Dowel, beech assortment DS 4/5/6/8/10 1060x BU 498899
 DOMINO dowel assortment 4 x 20, 5 x 30, 6 x 40, 8 x 40, 8 x 50, 10 x 50 mm and DOMINO router for sizes 4, 5, 6, 8 and 10, dimensions 396 x 296 x 157.5 mm, qty. in pack 1,060 pcs, in SYS 2 T-LOC SYSTEMAINER

6



DOMINO XL beech assortment DS/XL D8/D10 306x BU 498204
 for DOMINO XL, dowel assortment, DOMINO dowels 8 x 50, 8 x 80, 8 x 100, 10 x 50, 10 x 80, 10 x 100 mm and DOMINO XL router for sizes 8 and 10, qty. in pack 306 pcs, in SYS 2 T-LOC SYSTEMAINER



DOMINO XL beech assortment DS/XL D12/D14 128x BU 498205
 for DOMINO XL, dowel assortment, DOMINO dowels 12 x 100, 12 x 140, 14 x 100, 14 x 140 mm and DOMINO XL router for size 14, qty. in pack 128 pcs, in SYS 2 T-LOC SYSTEMAINER

6.3.2 DOMINO dowel and dowel rods SIPO



Dowel, Sipo D 5 x 30/300 MAU Dimensions 5 x 30 mm, qty. in pack 300 pcs, in self-service display pack	494869	DOMINO dowel rod, Sipo D 8 x 750/36 MAU Dimensions 8 x 750 mm, qty. in pack 36 pcs, in carton	498690
Dowel, Sipo D 5 x 30/900 MAU Dimensions 5 x 30 mm, qty. in pack 900 pcs, in carton	494859	DOMINO dowel rod, Sipo D 10 x 750/28 MAU Dimensions 10 x 750 mm, qty. in pack 28 pcs, in carton	498691
Dowel, Sipo D 6 x 40/190 MAU Dimensions 6 x 40 mm, qty. in pack 190 pcs, in self-service display pack	494870	DOMINO dowel rod, Sipo D 12 x 750/22 MAU Dimensions 12 x 750 mm, qty. in pack 22 pcs, in carton	498692
Dowel, Sipo D 6 x 40/570 MAU Dimensions 6 x 40 mm, qty. in pack 570 pcs, in carton	494860	DOMINO dowel rod, Sipo D 14 x 750/18 MAU Dimensions 14 x 750 mm, qty. in pack 18 pcs, in carton	498693
Dowel, Sipo D 8 x 40/130 MAU Dimensions 8 x 40 mm, qty. in pack 130 pcs, in self-service display pack	494871		
Dowel, Sipo D 8 x 40/390 MAU Dimensions 8 x 40 mm, qty. in pack 390 pcs, in carton	494861		
Dowel, Sipo D 8 x 50/100 MAU Dimensions 8 x 50 mm, qty. in pack 100 pcs, in self-service display pack	494872		
Dowel, Sipo D 8 x 50/300 MAU Dimensions 8 x 50 mm, qty. in pack 300 pcs, in carton	494862		
Dowel, Sipo D 10 x 50/85 MAU Dimensions 10 x 50 mm, qty. in pack 85 pcs, in self-service display pack	494873		
Dowel, Sipo D 10 x 50/255 MAU Dimensions 10 x 50 mm, qty. in pack 255 pcs, in carton	494863		

6.3.3 DOMINO corner and flat connectors

			Corner connectors	Flat connectors
	Anchor bolt SV-AB D14/32 32 anchor bolts for corner connections, including 64 dowel half-shells for transferring transverse loads.	201350	<input type="radio"/>	
	Expansion bolt SV-SA D14/32 32 expansion bolts for secure locking.	201349	<input type="radio"/>	
	Transverse anchor SV-QA D14/32 32 transverse anchors including studs for locking anchors or double-headed bolts.	201351	<input type="radio"/>	
	Enlarger SV-V D14/32 64 half-shells for widening 32 transverse anchors. For widening and pressure distribution when using transverse anchors in materials such as kitchen worktops.	201498		<input type="radio"/> (optional)
	Double-headed bolt SV-DB D14/16 16 double-headed bolts for flat connections, including 64 dowel half-shells. The double-headed bolts can be clipped using 2 dowel half-shells or (as shown) with 4 dowel half-shells – depending on the required alignment and transverse load transmission.	201352		<input type="radio"/>
	Connector set EV/32-Set For 32 corner connectors, 32 SV-AB D14 anchor bolts, 32 SV-QA D14 transverse anchors, 32 SV-SA D14 expansion bolts.	201827	<input type="radio"/>	
	Connector set FV/16-Set For 16 flat connectors, 16 SV-DB D14 double-headed bolts, 32 SV-QA D14 transverse anchors, SV-V D14 enlargers for 32 transverse anchors.	201828		<input type="radio"/>

6

6.3.3 DOMINO corner and flat connectors



DOMINO dowel, birch, Domino D 14 x 75/104 BU

104 DOMINO dowel, birch D 14 x 75, exactly matched to the dimensions of the corner connectors. Serves to transfer loads – in addition to the connectors.

201499



Cover cap SV-AK D14 str/32

32 cover caps, silver. For covering DOMINO milled holes.

201354



Cover cap SV-AK D14 brn1/32

32 cover caps, dark brown. For covering DOMINO milled holes.

201355



Cover cap SV-AK D14 brn2/32

32 cover caps, light brown. For covering DOMINO milled holes.

201356



DOMINO connector Systainer DominoVerb Sort SV-SYS D14

32 anchor bolts SV-AB D14, 16 double-headed bolts SV-DB D14, 128 dowel half-shells for increasing transverse load transfer from the anchor bolts and double-headed bolts, 32 expansion bolts SV-SA D14, 64 transverse anchors SV-QA D14 including studs, 4 mm stud spanner for tightening studs, 64 half-shells SV-V D14 for widening 32 transverse anchors, 32 cover caps each in the colours silver, dark brown and light brown (SV-AK D14 str, SV-AK D14 brn1 and SV-AK D14 brn2), 32 dowels D14 x 75, beech.

201353

Supplementary system accessories

7

7.1 Mobile dust extractors

Any Festool mobile dust extractor with an extractor hose diameter of 27 mm can be attached to the DOMINO joining machine. The Festool system offers numerous mobile dust extractors with a wide variety of volumes, with or without automatic AUTOCLEAN cleaning technology and in different dust categories. We therefore only present a small selection of our range here. Your specialist retailer can give you all the information you need on mobile dust extractors, items included and dust categories, or go to www.festool.com



CT 26 | 36 | 48

The all-rounder.

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CT 26 E AC | CT 36 E AC | CT 48 E AC

With AUTOCLEAN technology

With automatic, infinitely variable AUTOCLEAN filter dedusting for constant extraction performance: perfect for large quantities of fine dust.



CT 48 E LE EC

For continuous operation.

With a durable, brushless EC-TEC drive concept: for tough continuous operation and work in quasi-stationary mode at the energy box.

7.2 MFT 3 multifunction table

When working with the DOMINO joining machines, it is extremely important that the workpieces are securely clamped and fixed to facilitate safe and precise working. To this end, the Festool system includes the MFT multifunction table, offering workpieces maximum hold thanks to flexible and reliable clamping using specially designed fixed clamps. In addition, at a working height of 90 cm, it also allows working which is easy on your back, even for taller users.



MFT 3 multifunction table 495315

Table with perforated top and foldaway legs, swivel unit, support unit, angle stop, adjustable stop, FS 1080/2 guide rail, FS-AW deflector, additional clamp, in carton

- ▶ Extreme precision – with aluminium profile for accepting a guide rail and the angle stop
- ▶ Maximum hold – flexible and reliable clamping using specially designed fixed clamps
- ▶ Easy on your back – the 90 cm working height is pleasant for taller users
- ▶ Ideal for mobile use – the MFT 3 can be easily folded away

Specifications

Table dimensions (mm)	1,157 x 773
Table height, legs folded away (mm)	180
Table height, legs unfolded (mm)	900
Max. workpiece thickness (mm)	78
Max. workpiece width (mm)	700
Load capacity (kg)	120
Weight (kg)	28

7

[MFT 3] Accessories



MFT 3-QT cross brace 495502
for additional stabilisation of the MFT 3, qty. in pack 2 pcs, diameter 20 mm, length 675 mm, in carton



MFT-SP fixed clamps 488030
for reliable and exact workpiece fixing (sawing, sanding, routing, drilling, etc.), qty. in pack 2 pcs, in self-service display pack



FSZ 120 fastening clamp 489570
All-steel design, clamping width 120 mm, qty. in pack 2 pcs, in self-service display pack



FSZ 300 fastening clamp 489571
All-steel design, clamping width 300 mm, qty. in pack 2 pcs, in self-service display pack



VS connecting piece 484455
for connecting the FST 660/85 or MFT 800 to Basis Plus, for connecting several MFT 3, in self-service display pack



VAC SYS AD MFT 3 adapter 494977
for VAC SYS SE 1, VAC SYS SE 2, for connecting the VAC SYS clamping unit with the MFT 3, in carton

7.3 VAC SYS vacuum pump and clamping unit

The VAC SYS vacuum clamping system provides even more clamping options and the possibility of working from all sides, in addition to the MFT. It allows workpieces to be rotated through 360° and swivelled through 90°. The clamping pads are of soft and flexible plastic and are therefore also suitable for sensitive surfaces. Workpieces up to 30 kg and 1 x 1 m can be clamped per clamping unit.



VAC SYS Set SE 1 201655

VAC SYS VP vacuum pump in the SYS 3 SYSTAINER, VAC SYS SE 1 vacuum clamping unit with VAC SYS VT D 215 mm vacuum pad, vacuum hose and foot valve in SYS 4 SYSTAINER

VAC SYS SE 2 580062

VAC SYS VT 275 x 100 mm vacuum pad, connecting piece, vacuum hose, in SYS 4 SYSTAINER

Specifications

Power consumption at 50 Hz (W)	160 – 200
Power consumption at 60 Hz (W)	200 – 230
Pump capacity at 50 Hz (m ³ /h)	2.7
Pump capacity at 60 Hz (m ³ /h)	3.5
Minimum vacuum (mbar)	≥ 81%/≥ 810
Weight (kg)	8

[VAC SYS] Accessories



VAC SYS VT 200 x 60 vacuum pad 580064

for VAC SYS SE 1, VAC SYS SE 2, pad dimensions 200 x 60 mm, in carton



VAC SYS VT 275 x 100 vacuum pad 680066

for VAC SYS SE 1, VAC SYS SE 2, pad dimensions 275 x 100 mm, in carton



VAC SYS VT 277 x 32 vacuum pad 580065

for VAC SYS SE 1, VAC SYS SE 2, pad dimensions 277 x 32 mm, in carton



VAC SYS VT D 215 vacuum pad 580067

for VAC SYS SE 1, VAC SYS SE 2, diameter 215 mm, in carton



VAC SYS AD MFT 3 adapter 494977

for VAC SYS SE 1, VAC SYS SE 2, for connecting the VAC SYS clamping unit with the MFT 3, in carton



VAC SYS VT Sort accessories SYSTAINER 495294

VAC SYS VT 200 x 60, VAC SYS VT 277 x 32, VAC SYS VT 275 x 100, also provides space for VAC SYS VT D 215, in SYS 3 SYSTAINER

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