

No. 544

Panel joint mitre cut with the DOMINO



A

Description

The DOMINO wood jointing system can be used easily and quickly to make mitred panel joints frequently required by joiners and carpenters. The DOMINO combines the properties of a biscuit dowel (flexible and non-twisting) with those of a regular round dowel (can be fixed, high strength).



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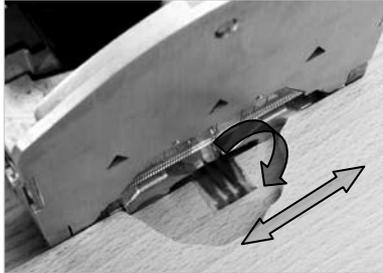


544/02

The DOMINO wood jointing system is a unique new jointing system. It consists of the DOMINO jointer DF 500 Q developed by Festool and a loose spigot in the shape of the oval DOMINO (see Fig. 544/2).

The DOMINO is available in 6 sizes:

- 4 x 20 mm
- 6 x 40 mm
- 8 x 40 mm
- 8 x 50 mm
- 10 x 50 mm



544/03

The routing movement of the DOMINO jointer DF 500 Q is unique among hand-held machines. The special feature is the simultaneous rotary and swinging movement of the cutter. This feature guarantees kickback-free and thus safe work (see Fig. 544/3).



544/04

In this application example, the DOMINO wood jointing system is used to build a dumb waiter made of three-layer panels (see Fig. 544/4). DOMINOs of size 8 x 40 mm are used.



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B

Tools/accessories

Basic equipment:

Denomination	Order no.
DOMINO jointer DF 500 Q GB 240V (see Fig. 544/5)	574 256
DOMINO 8 x 40 mm	493 298
DOMINO cutter D 8 mm (see Fig. 544/6)	493 490

The following Festool accessories can help you make a frame joint:

Multifunction table MFT 1080	490 888
Clamps MFT-SP	488 030
Suction hose plug it D 27	456 746

CTM series mobile dust extractor



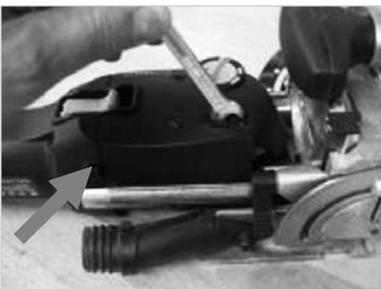
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544/07

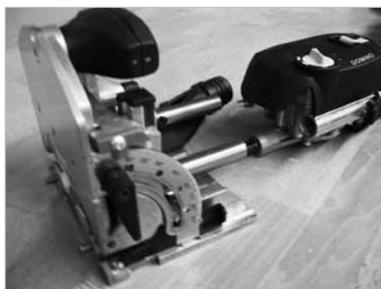
Selection and assembly of the necessary cutter:
A cutter diameter of 8 mm is used in the example.

Important: Prior to changing the tool, the Plug it cable must be removed from the machine!



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1. Raise the release lever until the machine disengages using the size 8 open-ended spanner provided for this purpose (see Fig. 544/8).
2. Disconnect the motor unit from the guide frame (see Fig. 544/9).
3. Hold in the spindle lock (see Fig. 544/8, red arrow) and use the size 8 open-ended spanner to screw the cutter onto the cutter spindle and tighten it.
4. Release the spindle lock.
5. Slide on guide frame and motor unit until they audibly engage.
6. Connect the Plug it cable and extractor hose.



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Adjusting dowel hole width:

At the DOMINO jointer, the dowel hole width can be adjusted easily (see Fig. 544/10).

This makes it possible when joining bodies to fix the first DOMINO elongated hole precisely in relation to the front edge.

The next DOMINO holes are routed with the next larger hole width. The DOMINOs then have play in the cut.

The hole width can be set with the rotary switch while the machine is running!

DOMINO hole widths:

Setting 1: 14 mm plus cutter diameter

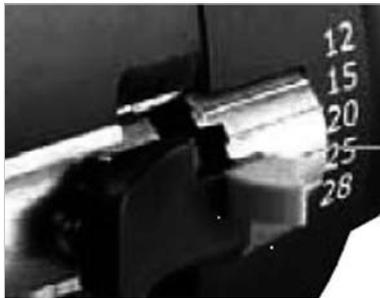
Setting 2: 20 mm plus cutter diameter

Setting 3: 24 mm plus cutter diameter

The D8 cutter and the first setting for the DOMINO hole width (see Fig. 544/10) are used to create an elongated hole with a width of 22 mm; the middle setting then produces a displacement path of 4 mm.

C

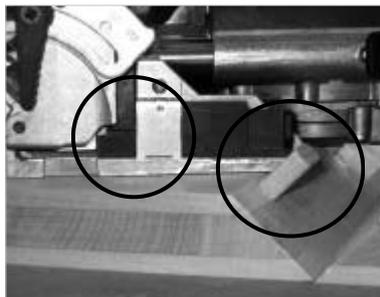
Preparation/set-up



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Set the routing depth of the dowel length accordingly (see Fig. 544/11).

The example uses a DOMINO 8 x 40 mm. The routing depth is set to 20 mm (corresponds to half the dowel length).



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Set the table to 45 degrees and the routing height to the lowest setting at the level stop (see Fig. 544/12).

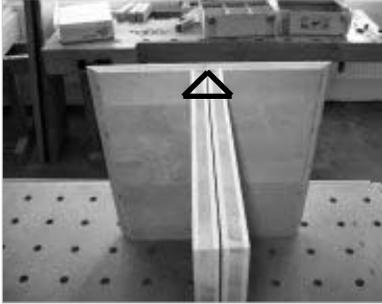
- Important: This setting (see Fig. 544/12 left circle) must be selected for all mitre joints; the DOMINO is placed further inside at the mitre (see Fig. 544/12 right circle) and is thus more secure and stable.



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E

Procedure



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Arrange the parts in the pairs in which they are subsequently assembled.

Tip: Making a mark on the body edges (joiner's triangle, see Fig. 544/14) helps during subsequent processing to find the correct contact point for the DOMINO joiner quickly and reliably. When routing, always ensure the machine is placed flush against the joiner's triangle at the outside (closed side of the triangle). This ensures that the joint is also exact and flush with the outside edge.



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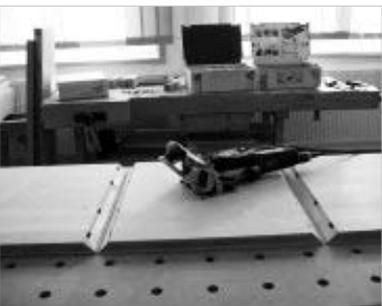
Divide and mark the DOMINOs equally.

Attach via the stop pin at the front edge and cut the fixing hole with setting 1 (accurately fit DOMINO elongated hole) (see Fig. 544/15).



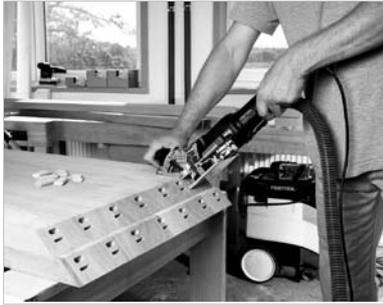
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The remaining DOMINO cuts are made via a scribe mark on the body parts and positioned via the viewing window in the DOMINO joiner table; the cut is made in the centre position (DOMINO can be moved, setting 2) (see Fig. 544/16).



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After all DOMINO cuts have been made, the panel joint can be joined and glued.



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Tip:

- In the case of thick panel joints, two of the DOMINOs can be placed one above the other (inner 8 x 50 mm, outer 6 x 40 mm). This provides the wood joint with even more stability.



544/19

The DOMINO Assortment Systainer contains a clear arrangement of all DOMINO sizes (see Fig. 544/19).



Detailed information on the DOMINO jointing system is also available on CD-ROM.

FESTOOL

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