FESTOOL

No. 543

Panel butt joint with the DOMINO

A Description

The DOMINO wood jointing system can be used easily and quickly to create frame and rack 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).

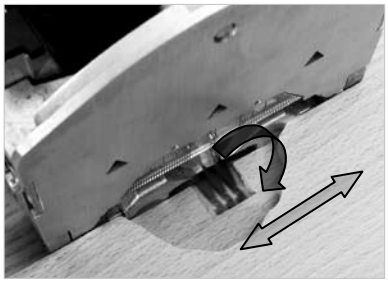
543/01

543/02

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. 543/2).

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



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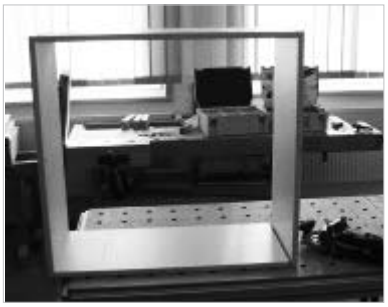
The routing movement of the DOMINO jointer DF 500 Q is unique among hand-held machines. The special feature is the simultaneous rotary and swinging movement of the cutter. This feature guarantees kickback-free and thus safe work (see Fig. 543/3).



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In this application example, the DOMINO wood jointing system is used to build a body consisting of laminated panels (see Fig. 543/4).
DOMINOs of size 5 x 30 mm are used.

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B Tools/accessories

Basic equipment:

Denomination	Order no.
DOMINO jointer DF 500 Q GB 240V (see Fig. 543/5)	574 256
DOMINO 5 x 30 mm	493 296
DOMINO cutter D 5 mm	493 490
DOMINO trim stop LA-DF 500 (see Fig. 542/6)	493 488
DOMINO extension table (see Fig. 543/8)	Scope of delivery
The following Festool accessories can help you make a frame joint:	
Multifunction table MFT 1080	490 888
Clamps MFT-SP	488 030
CTM series mobile dust extractor	

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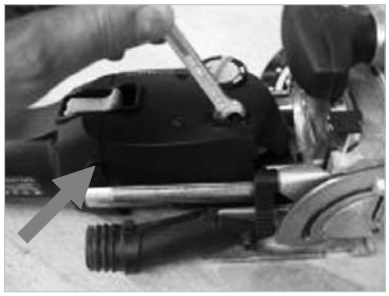

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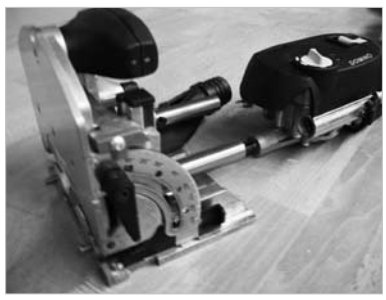

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Changing cutters:

Selection and assembly of the necessary cutter:
A cutter diameter of 5 mm is used in the example.

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

1. Raise the release lever until the machine disengages using the size 8 open-ended spanner provided for this purpose (see Fig. 543/10).

2. Disconnect the motor unit from the guide frame (see Fig. 543/11).

3. Hold in the spindle lock (see Fig. 543/10, 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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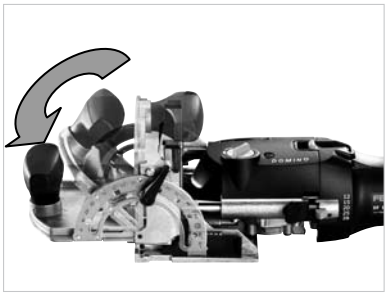
Adjusting dowel hole width:

At the DOMINO jointer, the dowel hole width can be adjusted easily (see Fig. 543/12).
With a panel joint, the first elongated hole is cut to fit the biscuit dowel exactly. As with a round dowel, alignment to the front edge is exact.
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 D5 cutter and the first setting for the DOMINO hole width (see Fig. 543/11) are used to create an elongated hole with a width of 19 mm; the middle setting then produces a displacement path of 4 mm.



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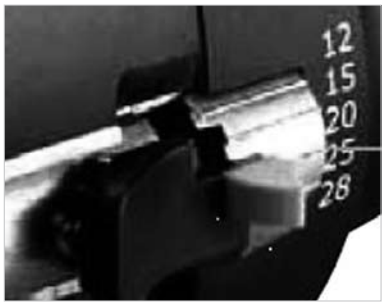
C Preparation/set-up

Set the router table to 90° (see Fig. 543/13).



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Set the routing depth of the dowel length accordingly (see Fig. 543/14).
The example uses a DOMINO 5x30 mm. The routing depth is set to 15 mm (corresponds to half the dowel length).

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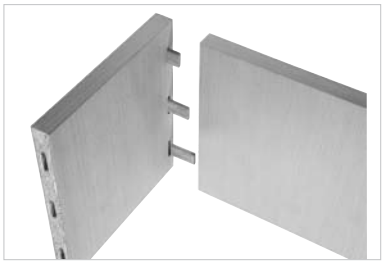
Set the routing height at the quick selection to correspond to the material thickness (see Fig. 543/15).



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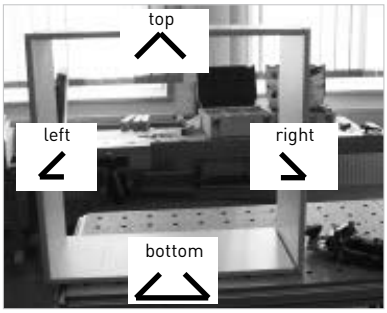
E Procedure



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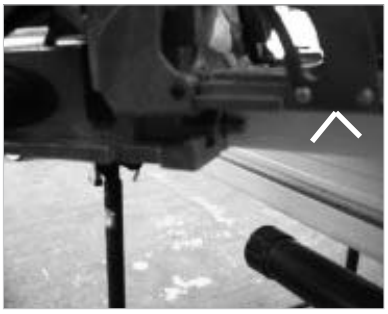
The parts are arranged in the pairs in which they are subsequently assembled.

Tip: Making a mark on the body edges (joiner's triangle, see Fig. 543/17) helps during subsequent processing to find the correct contact point for the DOMINO jointer 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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Secure the upper base on the multifunction table and the DOMINO jointer in position (observe the joiner's triangle!).

Attach via the stop pin at the front edge and cut the fixing hole (accurately fit DOMINO cut) (see Fig. 543/18).

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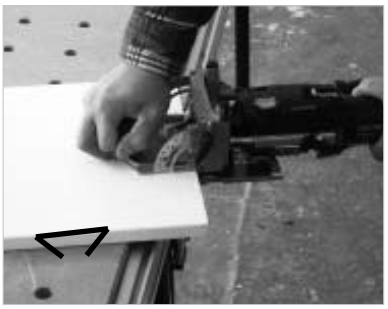
The remaining DOMINO cuts are made via a scribe mark on the body base and positioned via the viewing window in the supporting table; cutting is in the centre position (DOMINO can be moved) (see Fig. 543/19).

543/20

Position the DOMINO jointer DF 500 Q with the help of the centre line in the viewing window and make the remaining DOMINO cuts (see Fig. 543/20).



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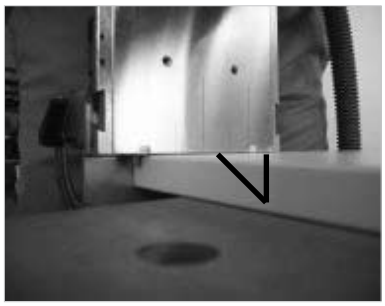
Cut the bottom base as described above.



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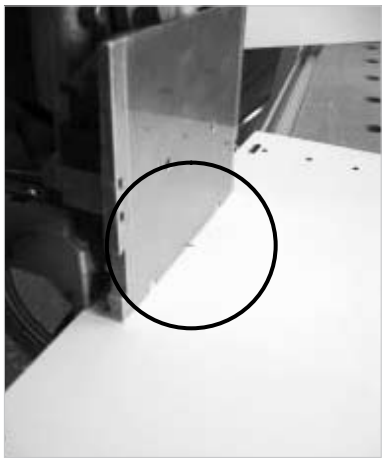
Secure the left side on the multifunction table and position the DOMINO jointer (observe the joiner's triangle!).

Attach via the stop pin at the front edge and cut the fixing hole (accurately fit DOMINO cut) (see Fig. 543/21).



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The remaining DOMINO cuts are made via a scribe mark on the body base and positioned via the centre marking in the supporting table; cutting is in the centre position (DOMINO can be moved) (see Fig. 543/22).

Cut the right side of the body as described above.

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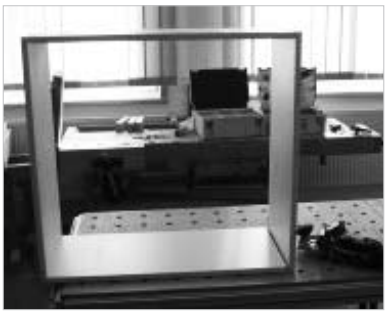
Glue the DOMINOs in the bases.

543/25

Join the body (see Fig. 543/25) and glue it.



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The DOMINO fixing dowel is very helpful during gluing. The body parts fit one another and do not have to be aligned.

Tip:

The side stops can be used to cut DOMINO holes with uniform spacing without marking (see Fig. 543/27).

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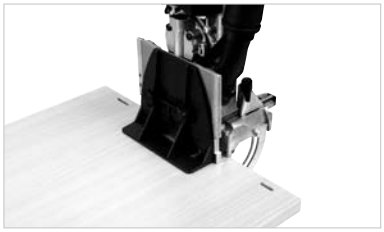

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The extension table provides even more support and more safety when positioning the DOMINO jointer.

The DOMINO Assortment Systainer contains a clear arrangement of all DOMINO sizes (see Fig. 543/29).

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

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