Groove cutting machine NFU 50: Versatile, powerful, precise.

The NFU 50’s sheer strength and outstanding motive power permits cuts 60 mm (2 3/8 in.) wide and 50 mm (1 15/16 in.) deep.

The NFU 50 can also be used as a skew notch and tenon cutter. The online tool for calculating the setting values can be accessed using the following QR code or the link below:

www.mafell.de/berechnungstool

GUIDE L FOR NOTCHING

Timber frame construction in particular requires a large number of grooves. The NFU 50 and guide L make the perfect team for this type of work.
**Groove cutting machine NFU 50**

A wealth of different applications

With its exemplary material and build quality and intelligent practical features, the NFU 50 is a versatile all-purpose machine. It enables you to save time and energy, and invest your working resources instead in getting the job done well.

**LENGTHWISE GROOVES**

Grooves measuring 22 mm (7/8 in.) to 40 mm (1 9/16 in.) can be produced using the expanding groove cutter available as an optional accessory.

*Here’s how it’s done:* Engage the spindle lock, set the expanding groove cutter to the required width, align the F-type guide rail if using, and set to work.

**TUTORIALS:**

[https://nfu50.mafell.de/en/](https://nfu50.mafell.de/en/)

**NOTCHING WITH GUIDE L**

Accurate, quick and easy. Cross groove with guide L.

*Here’s how it’s done:* Set the angle on guide L, position the two stops on the workpiece and cut the notch.

**TENONS**

Individual tenons can be executed effortlessly with the NFU 50 and guide L.

*Here’s how it’s done:* Set the cutting depth, adjust the angle on guide L and machine the first side of the workpiece. Then complete the second side following the same work stages.

**BIRDSMOUTH JOINTS UP TO 45°**

*Here’s how it’s done:* Work out and set the angle and cutting depth, if necessary using our online calculation tool. Place the pair of adapters on the parallel fence, align the carpentry guide rail and make the cut.

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Groove cutting machine NFU 50: Perfection in every detail.

The hydraulic brake stops the tool within 3 seconds. The flashing LED lamp indicates to the user that the cutter is still turning.

The design of the NFU 50 is characterized by the use of extremely rugged, high-quality and precision-made parts, including the lightweight magnesium die-cast housing and impact-resistant, fiber glass-reinforced plastic components. It also features clever technical details to help you meet the rigors of the job.
Groove cutting machine NFU 50: Perfection in every detail.

An extensive range of accessories makes the job easier and speeds up working with the NFU 50. Teamed with the high-capacity extractor S 200, incorporating dust extraction unit S 35 M, it is the perfect partner for timber construction work.

EXPANDING GROOVE CUTTER
The groove width can be individually set from 22 mm (7/8 in.) to 40 mm (1 9/16 in.)

POSITION INDICATOR
NFU-PA
Using the position indicator, which can be set with reference to the scale, the right edge of the cutter can be indicated.

SIDE FENCE SA 625
Grooves with spacing of 62.5 cm (24 5/8 in.) can be repeated as many times as necessary without the need for time-consuming marking.

MACHINE HOLDER
Machine holder S200-MH provides a safe resting place for the NFU 50 on the high-capacity extractor.

BAYONET CATCH AND KINK PROTECTION
A vertical bayonet catch ensures a secure hose connection. Severe bending of the hose is prevented by the spiral guard.

HIGH-CAPACITY EXTRACTOR
with a maximum capacity of 200 l. The set comprises dust extractor S 35 M (Ref. No. 919701) and the container (Ref. No. 206869).

TUTORIALS:
https://nfu50.mafell.de/en/

The accessories illustrated here (with the exception of NFU-PA + SA 625) are not included in the delivery specification of the NFU 50.
Technical data and accessories.

**Technical data NFU 50**

- **Nominal voltage**: 230 V
- **Nominal power input**: 2300 W (3.1 hp)
- **Cutting depth at 0° with guide track**: 0 - 44 mm (0 in. - 1 3/4 in.)
- **Cutting depth at 0° without guide track**: 0 - 50 mm (0 in. - 1 15/16 in.)
- **Tilting range**: 0 - 45°
- **No-load-Speed**: 5900 rpm
- **Weight with guide track**: 9.4 kg (20.7 lbs)
- **Dimensions (W x L x H) with guide track**: 370 x 810 x 280 mm (14 9/16 x 31 7/8 x 11 in.)
- **Cutting length with guide track**: 370 mm (14 9/16 in.)

**Ref. No.** 918701

**Delivery specification:**

1. **Cutter head** 091901
   - Ø 163 x 60 mm (6 7/16 x 2 3/8 in.)
2. **Position indicator** NFU-PA 207467
3. **Parallel fence** 207468
4. **Side fence SA 625** 207163
5. **Guide track L** 205310
6. **Repeat fence** 206026
7. **Allen key SW 6** 207496
8. **Screwdriver Torx T15** 093274
9. **Main cable 10 m (32.8 ft.)**

**Guide rail**

- Ref. No. 200672 037037
  - 3.0 m (9.8 ft) (one part)
  - 3.0 m (9.8 ft) (2 parts + connecting piece)
  - 1.5 m (4.9 ft) extension

**Pair of adapters**

- Ref. No. 037195
  - for parallel fence

**Angle fence F-WA**

- Ref. No. 205357
  - Designation
    - F-80: 0.80 m (2.6 ft)
    - F-110: 1.10 m (3.6 ft)
    - F-160: 1.60 m (5.2 ft)
    - F-210: 2.10 m (6.9 ft)
    - F-310: 3.10 m (10.2 ft)

**Guide rail F**

- Ref. No. 204380
  - Length in m
    - F-80: 0.80 m (2.6 ft)
    - F-110: 1.10 m (3.6 ft)
    - F-160: 1.60 m (5.2 ft)
    - F-210: 2.10 m (6.9 ft)
    - F-310: 3.10 m (10.2 ft)

**Connecting piece F-VIS**

- Ref. No. 204383
  - For joining two guide tracks

**End caps F-EK**

- Ref. No. 204381
  - 2 pieces

**Non-slip profile F-HP 6.8M**

- Ref. No. 204382
  - 6.8 m long (22.3 ft.)

**Splinter guard F-SS 3.4M**

- Ref. No. 204383
  - 3.4 m long (11.2 ft.)

**Compound miter rail**

- Ref. No. 091901
  - Ø 163 x 60 mm (6 7/16 x 2 3/8 in.)

**Lever clamp F-SZ 180MM**

- Ref. No. 207770
  - 2 pieces, for fixing rail to work piece

**Connecting piece F-VIS**

- Ref. No. 204365
  - For guide rail up to 1.6 m (5.3 ft.) long

**Guide rail set with bag**

- Ref. No. 204626
  - F 160 + F-80 + F-WS + F-SZ 180MM + guide track bag

**Connecting piece F-VIS**

- Ref. No. 204363
  - For joining two guide tracks

**Machine holder**

- Ref. No. 207164
  - S200-MH

**Parallel fence**

- K85-UA 205166

**Side fence SA 625**

- Ref. No. 207183

**Cutter head**

- Ref. No. 091901
  - Ø 163 x 60 mm (6 7/16 x 2 3/8 in.)
  - Reversible knives (12 required)

**Expanding groove cutter**

- Ref. No. 091899
  - Ø 163 x 22 bis 40 mm (6 7/16 x 1 15/16 x 1 9/16 in.)

**Reversible knife**

- Ref. No. 201927
  - 14 x 14 x 2 mm (9/16 x 9/16 x 7/32 in.)

**Roller edge guide**

- Ref. No. 205166
  - K85-UA

**Extraction hose**

- Ø 40 mm (1 1/2 in.) with hose connector 50 mm (2 in.) Ø 60 mm (2 3/8 in.) bayonet catch, static dissipative 5 m (16.4 ft.)

- Ref. No. 093730

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4. **Side fence SA 625** 207163
5. **Guide track L** 205310
6. **Repeat fence** 206026
7. **Allen key SW 6** 207496
8. **Screwdriver Torx T15** 093274
9. **Main cable 10 m (32.8 ft.)**