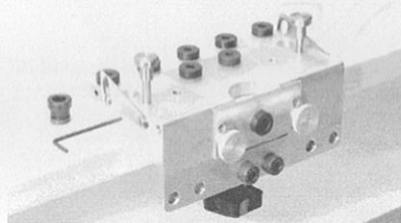


## Operating Instructions for Unitool Multi Drilling Jig



Congratulations on purchasing the "Unitool Multi" drilling jig from Häfele. With this drilling jig you purchased a handy tool that allows quick and easy drilling of various borings into your work piece. Please study these instructions carefully! You will learn how to operate this tool correctly and as a result you will prevent injuring yourself and others. The jig consists of a basic body made of aluminium. The basic body accommodates hardened drilling sleeves for drill holes with diameters of 5, 8 and

10 mm which are secured with Allen screws. A suitable Allen key is included in this packing unit. In case you lose or wear out a drilling sleeve, you can order replacement parts (see enclosed catalogue page). This also applies to the drill guides and the locating pins.

Depending on your work steps, different drill bits and depth gauges are required for the drillings which are not included and must be ordered separately. We recommend to use only drill bits specified by Häfele in combination with this tool. This applies in particular for drillings with larger diameters, e.g. for hinges. This reduces the risk of injury and guarantees a precise hole pattern.

### This drilling jig can be used for the following work steps:

1. Drilling of 32 mm series drilled holes with a distance of 37 mm and 60 mm from the edge of the panel (included in this packing unit)
2. Drilling of 32 mm series drilled pairs of holes with a distance of 37 mm from the edge of the panel (included in this packing unit)
3. Drilling of horizontal borings (central face drillings) for wood thicknesses of 15, 16, 18, 19 and 22 mm (included in this packing unit)
4. Drillings for TAB or TAB V connectors (optional in combination with Cat. No. 001.25.025)
5. Drillings for Minifix 12 connector with a drilling distance of 24 mm (optional in combination with Cat. No. 001.25.020)
6. Drillings for Minifix 12 connector with a drilling distance of 34 mm (optional in combination with Cat. No. 001.25.021)
7. Drillings for Minifix 15 connector with a drilling distance of 24 mm (optional in combination with Cat. No. 001.25.022)
8. Drillings for Minifix 15 connector with a drilling distance of 34 mm (optional in combination with Cat. No. 001.25.023)
9. Drillings for Rafix, Pushfix, Onefix, Slimfix connectors (optional in combination with Cat. No. 001.25.024)
10. Drillings for concealed hinge  $\varnothing$  35 mm (optional in combination with Cat. No. 001.25.031)
11. Drillings for concealed hinge  $\varnothing$  26 mm (optional in combination with Cat. No. 001.25.030)

Please find below a detailed description of the above listed work steps:

### 1. 32 mm series drilled holes

For this work step you need the following tools that are not included in this packing unit:

- Wood drill bit  $\varnothing$  5 mm with centring tip (Cat. No. 001.20.505)
- Stop ring for twist drill bit (Cat. No. 001.42.665)

- 1.1. With an edge distance of 37 mm: Push both locating pins into the provided holes of the jig (*fig. 1*). Slide the jig onto the work piece until both locating pins adjoin the edge of the work piece (*fig. 2*). When using lateral stop plates, the start dimension (half wood thickness) is 9.5 mm (for a panel thickness of 19 mm) (*fig. 3*). Secure the jig by tightening the clamping screw that is attached to the jig body. Now drill the hole with the appropriately adjusted stop ring.

- 1.2. With an edge distance of 60 mm: Remove both locating pins (*fig. 4*). Slide the jig onto the work piece until the edge adjoins the angle stop of the jig. (*fig. 4*). Continue as described in point 1.1
- 1.3. Series drilled holes with more than 5 drillings: Drill the holes as described in point 1.1 or 1.2. Slide the outmost hole of the jig over the last hole of the series drilled holes and secure the jig by pushing one of the locating pins through the jig into the series drilled hole (*fig. 5*). Secure the basic jig by tightening the clamping screw that is attached to the jig body.

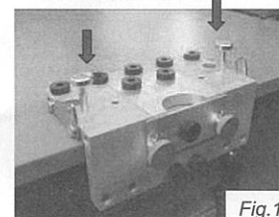


Fig. 1

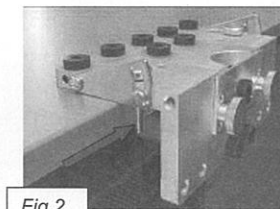


Fig. 2



Fig. 3

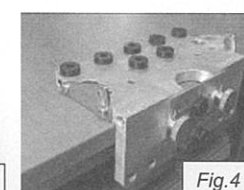


Fig. 4

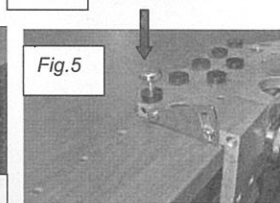


Fig. 5

### 2. Drilling of 32 mm series drilled pairs of holes

For the installation of mounting plates for concealed hinges, magnetic catches, flap and lid stays and other fittings that suit 32 mm series drilled holes.

- 2.1. Mark the centre between the two 32 mm holes on your work piece (*fig. 6*). Slide the jig onto the work piece as far as the edge of the work piece. Make sure that the centring mark on the drill guide is in alignment with the mark you made on the work piece (*fig. 7*). Secure the jig by tightening the clamping screw that is attached to the jig body. Now drill the hole with the appropriately adjusted stop ring (*fig. 8*).

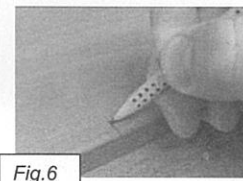


Fig. 6

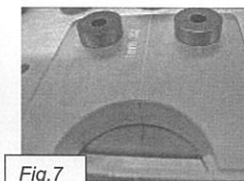


Fig. 7

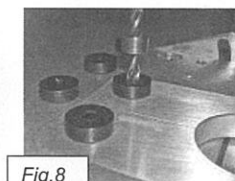


Fig. 8

### 3. Drilling horizontal holes (central face drillings) for wood thicknesses of 15,16,18,19 and 22 mm.

There are two vertical drill guides available, one for wood thicknesses of 15 mm and 18 mm and one for wood thicknesses of 16 mm, 19 mm und 22 mm. Exchanging the drilling sleeves allows you to either drill  $\varnothing$  5 mm,  $\varnothing$  8 mm or  $\varnothing$  10 mm holes. The drill guides can be adjusted or exchanged by unscrewing both knurled screws. Push the knurled screw into the hole that corresponds to the wood thickness. The drill holes on the jig body and on the drill guide are positioned in such way that the vertical drill guides can only be attached to threaded drill holes that suit the corresponding wood thickness (fig. 9 shows 19 mm for example). Secure the jig by tightening the clamping screw that is attached to the jig body. Now drill the hole with the appropriately adjusted stop ring (suitable stop rings can be found on the catalogue page "Unitool Multi").

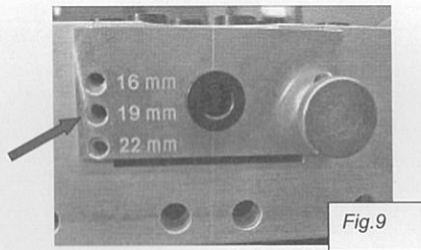


Fig.9

### 4. Drillings for TAB or TAB V connectors

For this work step you need the following tools that are not included in this packing unit:

- Tab V drill guide (Cat. No. 001.25.025)
- HW multi-spur drill bit\*  $\varnothing$  18 mm (Cat. No. 001.06.618)
- Stop ring for multi-spur drill bit\*  $\varnothing$  18 mm (Cat. No. 001.42.693)

- 4.1. Slide the drill guide into the jig body (fig. 10).
- 4.2. Secure the drill guide by screwing one of the vertical drill guides onto the jig body (fig. 11).
- 4.3. Slide the jig onto the work piece as far as the edge of the work piece (fig. 12).
- 4.4. Secure the jig by tightening the clamping screw that is attached to the jig body.
- 4.5. Now drill the hole with the appropriately adjusted stop ring (fig. 12).

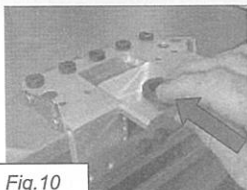


Fig.10

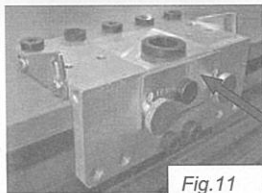


Fig.11

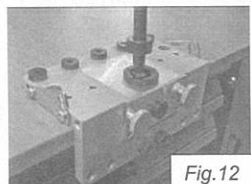


Fig.12

### 5. Drillings for Minifix 12 connector with a drilling distance of 24 mm

For this work step you need the following tools that are not included in this packing unit:

- Minifix drill guide 12/24 mm (Cat. No. 001.25.020)
- HW multi-spur drill bit\*  $\varnothing$  12 mm (Cat. No. 001.06.612)
- HS twist drill bit  $\varnothing$  8 mm (Cat. No. 001.20.508)
- Stop ring for multi-spur drill bit  $\varnothing$  12 mm \* (Cat. No. 001.42.683)
- Stop ring for twist drill bit  $\varnothing$  8 mm (Cat. No. 001.42.683)

- 5.1. Slide the Minifix drill guide 12/24 mm into the jig body (fig. 14).
- 5.2. Secure the drill guide by screwing one of the vertical drill guides onto the jig body. Make sure that you use a vertical drill guide that suits the wood thickness of the work piece (fig. 15).
- 5.3. Slide the jig onto the work piece as far as the edge of the work piece (fig. 15).
- 5.4. Secure the jig by tightening the clamping screw that is attached to the jig body.
- 5.5. Now drill the vertical hole with the appropriately adjusted stop ring (fig. 16).
- 5.6. Now drill the horizontal hole with the appropriately adjusted stop ring (fig. 17).

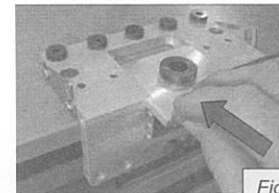


Fig.14

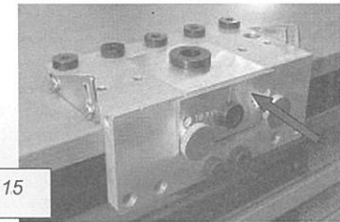


Fig.15

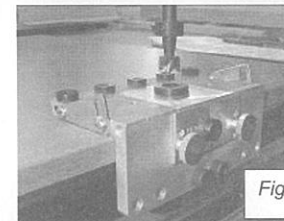


Fig.16

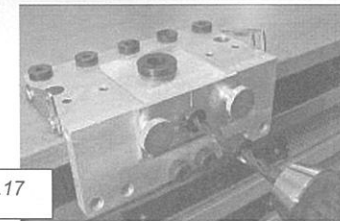


Fig.17

### 6. Drillings for Minifix 12 connector with a drilling distance of 34 mm

For this work step you need the following tools that are not included in this packing unit:

- Minifix drill guide 12/34 mm (Cat. No. 001.25.021)
- HW multi-spur drill bit\*  $\varnothing$  12 mm (Cat. No. 001.06.612)
- HS twist drill bit  $\varnothing$  8 mm (Cat. No. 001.20.508)
- Stop ring for multi-spur drill bit  $\varnothing$  12 mm \* (Cat. No. 001.42.683)
- Stop ring for twist drill bit  $\varnothing$  8 mm (Cat. No. 001.42.683)

- 6.1. Slide the Minifix drill guide 12/34 mm into the jig body (fig. 14).
- 6.2. Continue with the next steps as described in points 5.2 to 5.6

## 7. Drillings for Minifix 15 connector with a drilling distance of 24 mm

For this work step you need the following tools that are not included in this packing unit:

- Minifix drill guide 15/24 mm (Cat. No. 001.25.022)
- HW multi-spur drill bit\*  $\varnothing$  15 mm (Cat. No. 001.06.615)
- HS twist drill bit  $\varnothing$  8 mm (Cat. No. 001.20.508)
- Stop ring for multi-spur drill bit  $\varnothing$  15 mm \* (Cat. No. 001.42.693)
- Stop ring for twist drill bit  $\varnothing$  8 mm (Cat. No. 001.42.683)

- 7.1. Slide the Minifix drill guide 15/24 mm into the jig body (fig. 14).
- 7.2. Continue with the next steps as described in points 5.2 to 5.6

## 8. Drillings for Minifix 15 connector with a drilling distance of 34 mm

For this work step you need the following tools that are not included in this packing unit:

- Minifix drill guide 15/34 mm (Cat. No. 001.25.023)
- HW multi-spur drill bit\*  $\varnothing$  15 mm (Cat. No. 001.06.615)
- HS twist drill bit  $\varnothing$  8 mm (Cat. No. 001.20.508)
- Stop ring for multi-spur drill bit  $\varnothing$  15 mm\* (Cat. No. 001.42.693)
- Stop ring for twist drill bit  $\varnothing$  8 mm (Cat. No. 001.42.683)

- 8.1. Slide the Minifix drill guide 15/34 mm into the jig body (fig. 14).
- 8.2. Continue with the next steps as described in points 5.2 to 5.6

## 9. Drillings for the Rafix SE, Pushfix, Onefix, Slimfix connectors

For this work step you need the following tools that are not included in this packing unit:

- Rafix-Pushfix-Onefix-Slimfix drill guide (Cat. No. 001.25.024)
- HW multi-spur drill bit\*  $\varnothing$  20 mm (Cat. No. 001.06.620)
- Twist drill bit  $\varnothing$  10 mm (Cat. No. 001.20.510) **only for Rafix SE 32**
- Stop ring (Cat. No. 001.42.693)

- 9.1. Slide the Rafix-Pushfix-Onefix-Slimfix drill guide into the jig body (fig. 18).
- 9.2. Secure the drill guide by screwing one of the vertical drill guides onto the jig body (fig. 19).
- 9.3. Slide the jig onto the work piece as far as the edge of the work piece (fig. 20).
- 9.4. Secure the jig by tightening the clamping screw that is attached to the jig body.
- 9.5. Now drill the vertical hole with the appropriately adjusted stop ring (fig. 20).

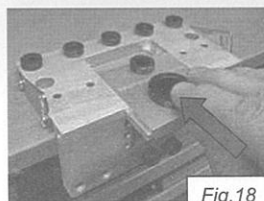


Fig. 18

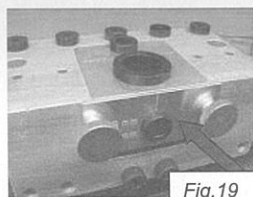


Fig. 19

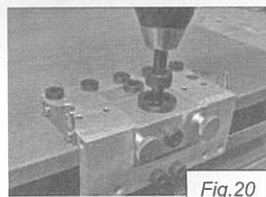


Fig. 20

## 10. Drillings for concealed hinges with a diameter of 35 mm

Generally the drilling jig is set to Tab distance of 4 mm and cannot be adjusted.

For this work step you need the following tools that are not included in this packing unit:

- Hinge drill guide 35 mm (Cat. No. 001.25.031)
- HW multi-spur drill bit\*  $\varnothing$  35mm (Cat. No. 001.06.635)
- HS twist drill bit  $\varnothing$  2 mm (Cat. No. 001.41.024) for marking the hole pattern
- Depth gauge (Cat. No. 001.06.454)

The 6 drill holes with  $\varnothing$  2 mm on the ring of the drill guide allow marking the required hole pattern for screwing on the concealed hinges (fig. 21).

- 10.1. Slide the Hinge drill guide 35 mm into the jig body (fig. 22).
- 10.2. Secure the drill guide by screwing one of the vertical drill guides onto the jig body (fig. 23).
- 10.3. Slide the jig onto the work piece as far as the edge of the work piece (fig. 24).
- 10.4. **Important:** Secure the jig by tightening the clamping screw that is attached to the jig body (fig. 25) in order to prevent injuries which may occur by using drill bits with large diameters!
- 10.5. Now drill the vertical hole with the appropriately adjusted depth gauge (fig. 26).

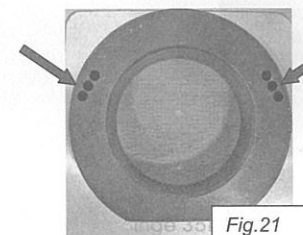


Fig. 21

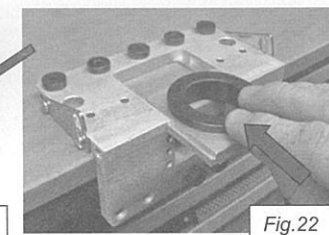


Fig. 22



Fig. 23

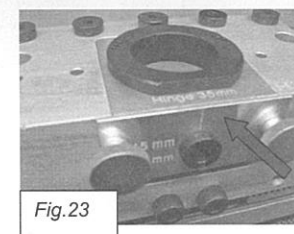


Fig. 24

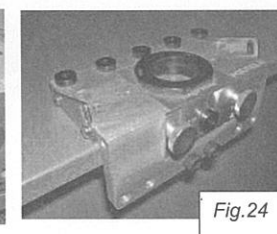


Fig. 25

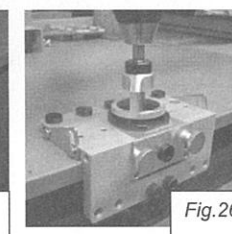


Fig. 26

**11. Drillings for concealed hinges with a diameter of 26 mm**

Generally the drilling jig is set to Tab distance of 4 mm and cannot be adjusted.

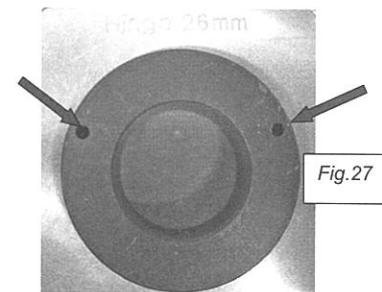
For this work step you need the following tools that are not included in this packing unit:

- Hinge drill guide 26 mm (Cat. No. 001.25.030)
- HW multi-spur drill bit\*  $\varnothing$  26 mm (Cat. No. 001.06.626)
- HS twist drill bit  $\varnothing$  2 mm (Cat. No. 001.41.024) for marking the drilling pattern
- Depth gauge (Cat. No. 001.06.454)

The 2 drill holes with  $\varnothing$  2 mm on the ring of the drill guide allow marking the required hole pattern for screwing on the concealed hinges (*fig.27*).

11.1. Slide the Hinge drill guide 26 mm into the jig body (*fig.22*).

11.2. Continue with the next steps as described in points 10.2 to 10.5



*\*Alternatively to the HW multi-spur drill bit a WS forstner drill bit can be used. Please refer to catalogue page for the Unitool Multi drilling jig.*