TRANSLATION OF THE ORIGINAL VERSION

CE

SI|TEC SICHERHEITSTECHNIK

Operating Manual

Type 1570 planer bridge guard TXF / TXR

Two-part bridge guard for use on surface planing and jointing machines

Type 1570	**Two-part bridge guard** **TXF 500 | TXF 650 | TXF 850** **TXR 650 | TXR 850**

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Revisions:

Revision	Editor	Modification	Date
0	AG	Original manual translated	27.01.2025

1 Product description

The type 1570 TXF and TXR protective devices are bridge guards for covering the cutter block in front of the planer fence on surface planers & jointers and combined planer/thicknesser machines.

The bridge guard can be used universally on planers from a wide range of manufacturers. The prerequisite is that the bridge guard can be securely fastened to the machine stand.

Use is only permitted on planers that have been designed in accordance with the following standards:

- Surface planers & jointers according to EN 859
- Combined surface planing and thicknessing machines according to EN 861
- Planing tables of combined woodworking machines according to EN 940
- and in accordance with the Machinery Directive 2006/42/CE

The bridge guard is used for fixed attachment to the take-off table or machine frame The two-part design with hinged bridge enables comfortable working, even with large workpieces, as there is no interfering edge.

1.1 TXR variant

The TXR variant is a version with an additional swivelling unit that has been specially developed for combined planers with a folding table.

2 Components and operating elements

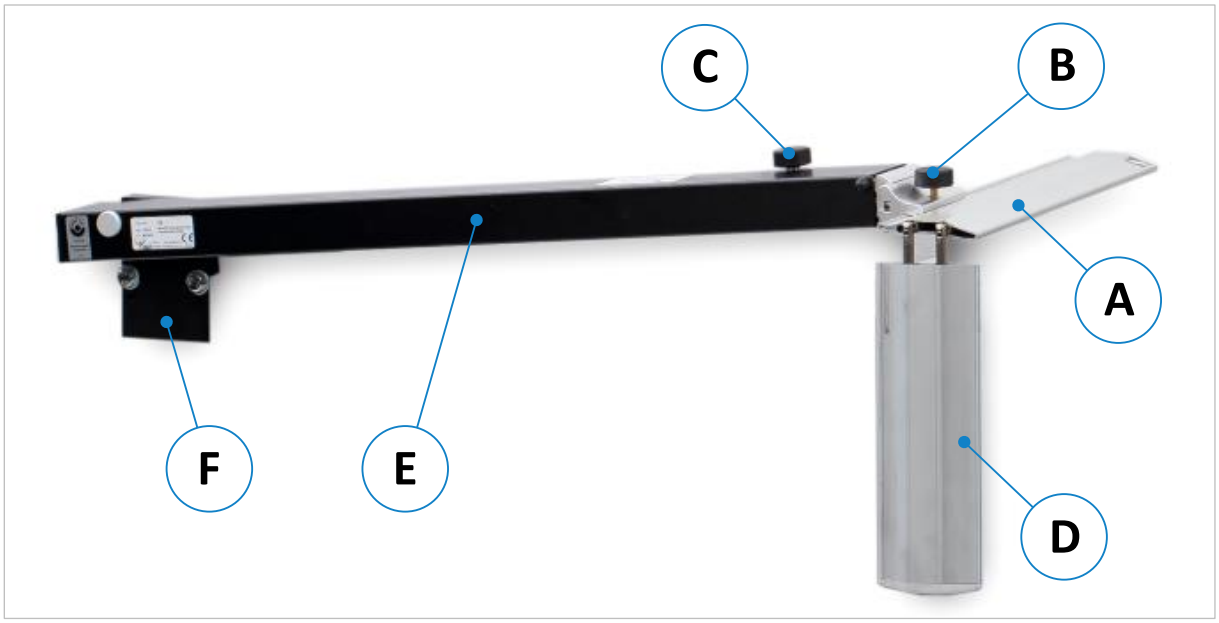

Figure 1: Planer bridge guard type 1570 TXF

Pos.	*Description*
A	Fixed part of the bridge guard
B	Clamping screw for fixing the bridge guard
C	Height adjustment screw for the bridge guard
D	Hinged part of the bridge guard
E	Height-adjustable guide arm
F	Mounting plate for attachment to the machine

3 Dimensions

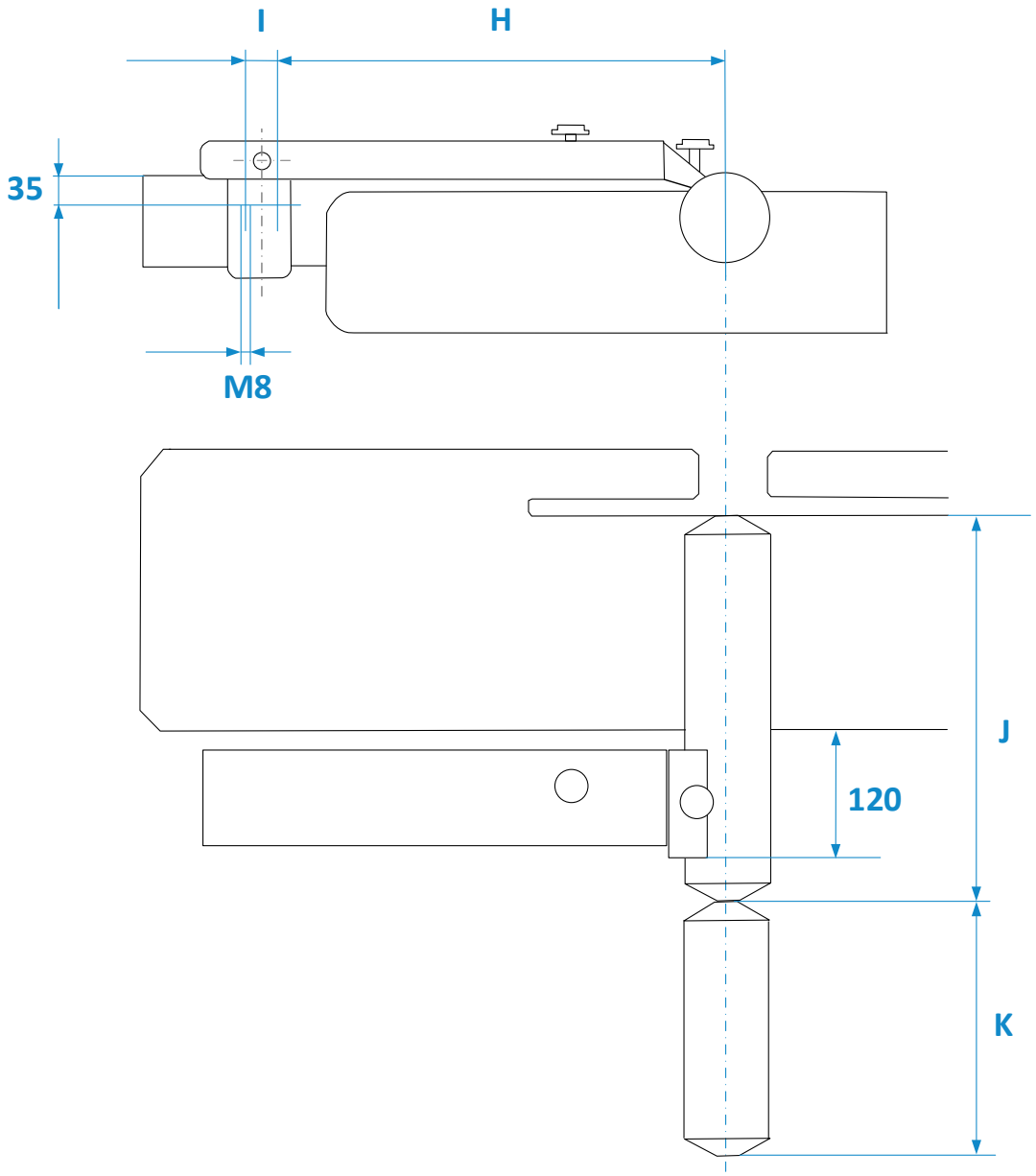

Figure 2: Dimensions

Type	H	I	J	K	Art. no.
TXF	500 mm	40 mm	400 mm	260 mm*	3406
	650 mm	40 mm	400 mm	260 mm*	3407
	850 mm	80 mm	400 mm	260 mm*	3408
TXR	650 mm	40 mm	400 mm	400 mm	3415
	850 mm	80 mm	400 mm	400 mm	3411

*) 400 mm as an option

4 Check delivery conditions

- The scope of delivery of the bridge guard includes the mounting plate for attaching it to the machine.
- The fixing screws are not included in the scope of delivery.

Check the package for completeness and possible transport damage. In case of transport damage, please keep the packaging and inform the shipping company and the manufacturer immediately! Also check whether the scope of delivery corresponds to your order. Later complaints cannot be accepted.

	***Dispose of the packaging material in an environmentally friendly manner!***

5 Safety

5.1 Obligation to read this operating manual

	***Before the bridge guard is attached to the machine, this operating manual must be carefully read and understood. The manufacturer assumes no liability for damage and malfunctions that are due to non-compliance with the operating manual or improper handling of the bridge guard.***

5.2 Obligation to read the machine operating manual

	***These operating instructions apply only in conjunction with the operating manual for the machine on which the bridge guard is to be installed. In particular, all safety instructions, notes on intended use and existing residual risks must be observed and followed.***

5.3 Area of application and intended use

⚠ The delivered protective device is a safety guard to cover the cutter block in front of the planer fence on surface planers & jointers.

⚠ The safety guard may only be used on machines that comply with the specified standards. It may also only be used on machines for which the machine manufacturer expressly authorises its use.

⚠ The machine manufacturer who intends to install this safety guard on his machine must ensure that the tests specified in the annexes to EN 859, EN 861 and EN 940 have been carried out and passed.

⚠ Any other use is considered improper and is prohibited. The manufacturer of this safety guard accepts no liability for damage resulting from improper use.

⚠ This safety guard may only be installed, used and repaired by qualified and adequately trained personnel. In particular, both the operating manual for the protective device and the operating manual for the machine must be observed and adhered to.

⚠ Only original spare parts may be used. The manufacturer of the protective device does not accept any liability for damage resulting from improper handling or unauthorised use of spare parts from other manufacturers.

5.4 Conversions and modifications of the guard

	***Conversions and modifications to the bridge guard are strictly prohibited for safety reasons. The manufacturer is not liable for any resulting damage. The risk for this is borne solely by the operator/user.***

6 Attachment to the machine

☝	***Only the procedure described in this chapter may be used to attach this protective device to the planer.***

Before the bridge guard can be attached to the machine, the machine manufacturer must expressly authorise the attachment of this protective device to the intended machine.

The intended mounting position on the machine must also be discussed with the machine manufacturer. This agreement determines whether the guard must be fastened with through bolts M 8 (grade 8.8), machine screws or hexagon socket screws M 8 (grade 8.8) in the corresponding through holes resp. threaded holes M 8 to be drilled.

The dimensions required for mounting can be found in chapter ⇨ 3.

6.1 Fitting the guide arm to the machine

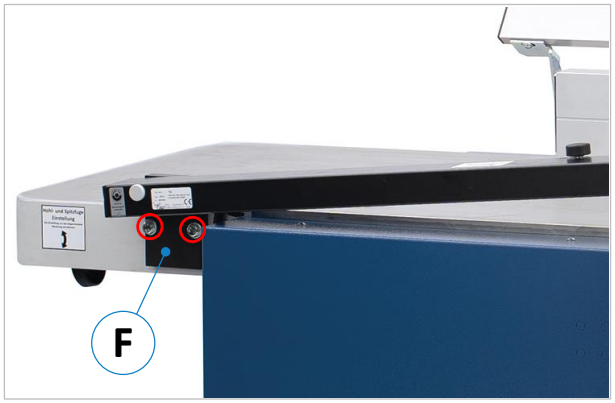

Figure 3: Fitting the guide arm

After you have determined the mounting position and made the two M8 mounting holes, attach the guide arm of the protective device (still without the hinged protective cover) to the machine body via the mounting plate (F) and with the appropriate M8 screws (see ⇨ Figure 3).

The procedure for installing the hinged protective cover can be found in the next section ⇨ 6.2.

6.2 Attaching the bridge guard

After the guide arm has been attached to the machine body, the bridge guard can be mounted. Please also watch our YouTube video on this process: 👉 https://youtube.com/shorts/V6p521QtyLg?feature=share.

Figure 4: Remove the clamping screw

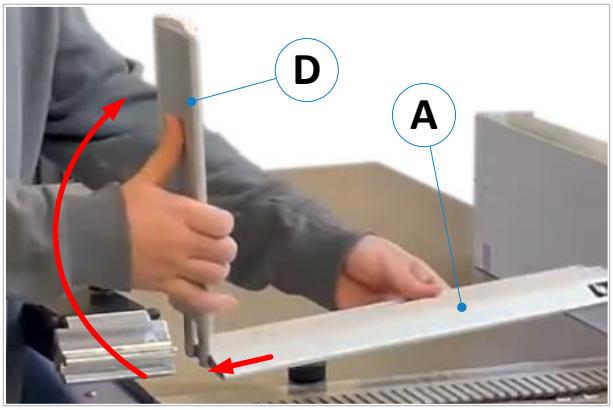

Figure 5: Pull out and fold up the hinged part

Figure 6: Brückenschutz auf Führung aufschieben

1. Remove the clamping screw (**B**) on the guide completely (see ⇨ Figure 4) so that the protective cover can be pushed on easily.
2. Before pushing it onto the guide, pull the hinged part (**D**) of the bridge guard slightly forwards out of the fixed part (**A**), fold it upwards by approx. 90° and hold it in this position (see ⇨ Figure 5).
3. Now slide the fixed part (**A**) of the bridge guard onto the guide arm from the back to the front (see ⇨ Figure 6).
4. Then turn the clamping screw (**B**) slightly back into the guide, push the bridge guard into the desired working position and finally fix it there by tightening the clamping screw (**B**).
5. Finally, check that the bridge guard is sitting straight and securely on the guide to ensure optimum coverage of the cutter block and the protective function.

7 Adjustment of the bridge guard on the machine

After installation, the bridge guard must be adjusted in accordance with the safety requirements:

7.1 Adjusting the distance to the workpiece

In the initial position and over the entire adjustment range, the longitudinal edge of the bridge guard may be a **maximum of 2 mm** above the upper workpiece surface on the infeed table side and a **maximum of 3 mm** above the upper workpiece surface on the removal side.

The two adjustment screws (**L**) can be used for this setting (on the front and back, see ⇨ Figure 7) , after removing the two protective caps.

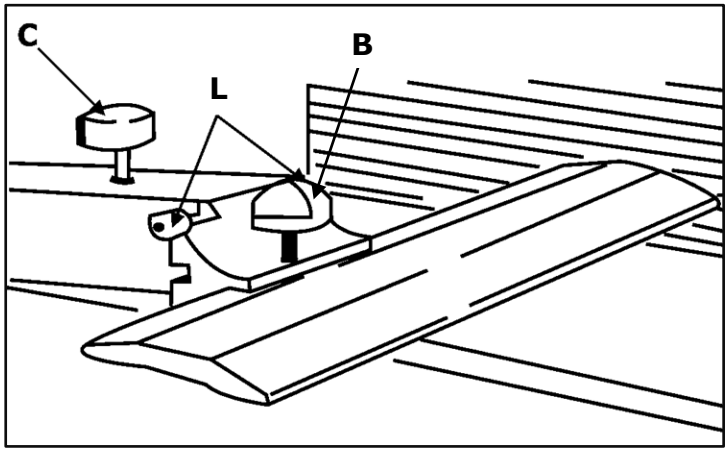

Figure 7: Adjust bridge guard

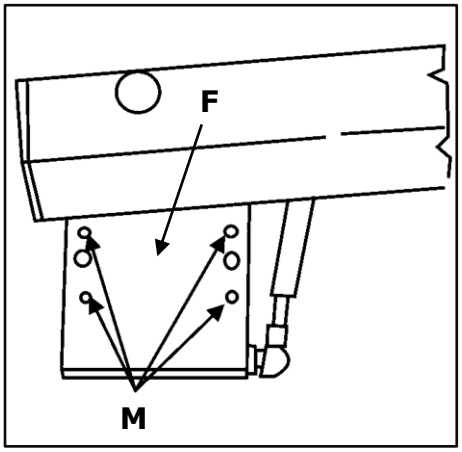

Figure 8: Adjusting screws (mounting plate)

7.2 Adjust parallelism to the cutter block

Once the bridge guard is fixed with the clamping screw (**B**), it must be aligned parallel to the cutter block.

- To adjust, loosen the two fixing screws of the mounting plate (**F**) that attaches the bridge guard to the machine body, and adjust the bridge guard with the four adjusting screws (**M**) so that it is parallel to the cutter block (see ⇨ Figure 8).
- Then tighten the two fixing screws again.
- The planer guard is now installed and adjusted.

8 Safe operation

8.1 Surface planing and jointing of workpieces up to 75 mm thick

8.1.1 Preparation for surface planing up to 75 mm thickness

With the left hand, the guard remaining on the outfeed table is set horizontally up to the planer fence and then raised according to the thickness of the workpiece. The workpiece is pushed just a few millimetres under the guard with the right hand and the guard is lowered onto the workpiece.

8.1.2 Surface planing of workpieces up to 75 mm thick

With the hands lying flat on the workpiece, the workpiece is pushed forward on the infeed table, and then one hand after the other slides alternately over the bridge guard. As soon as the situation permits, the workpiece is pushed further on the removal table with both hands (see ⇨ Figure 9 and ⇨ Figure 10).

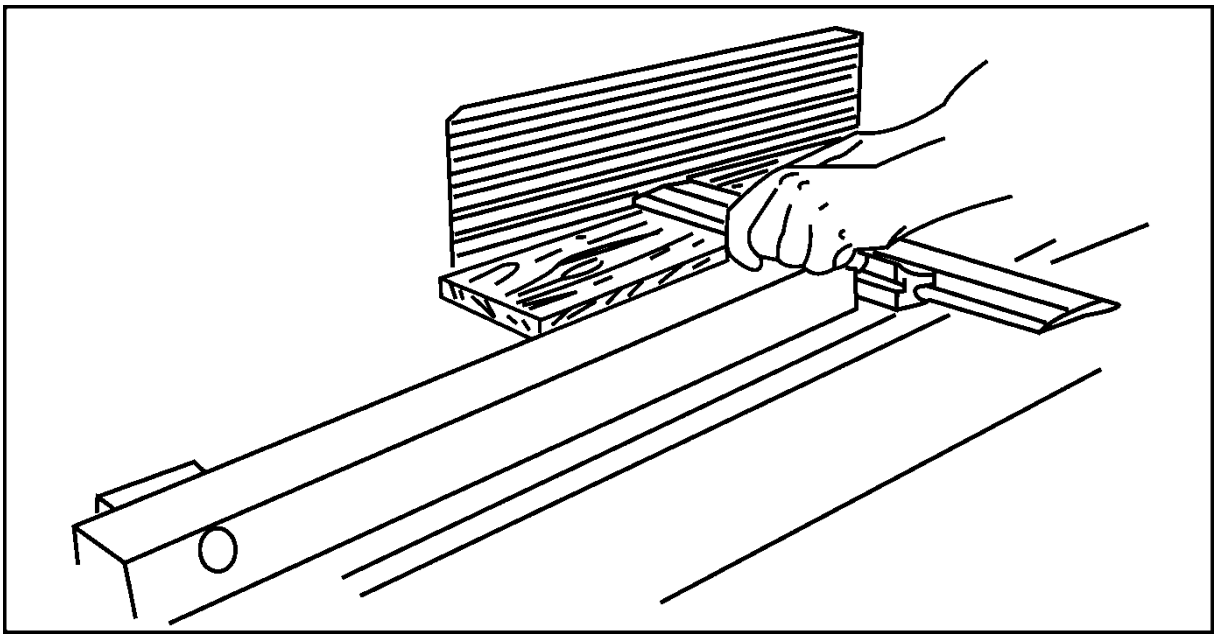

Figure 9: Surface planing

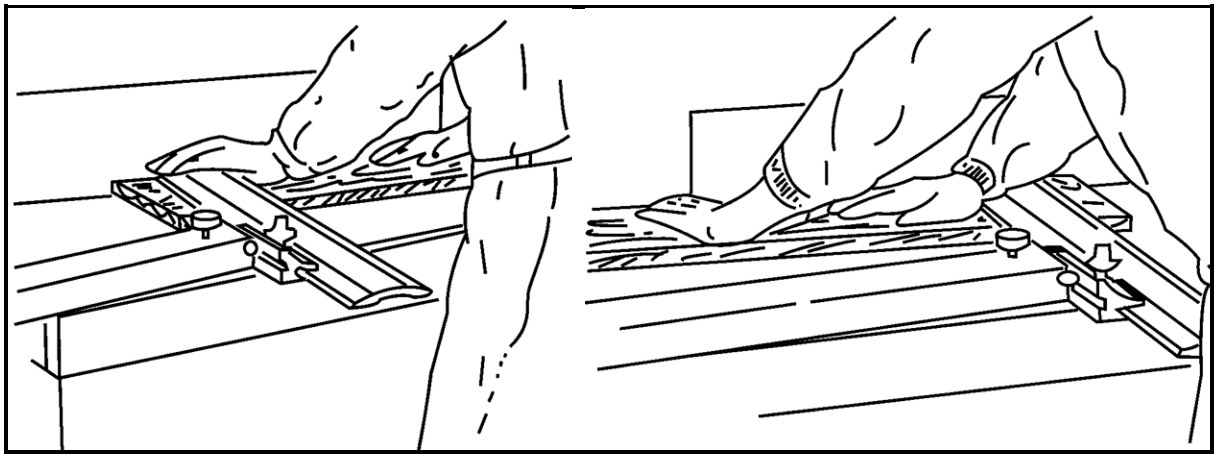

Figure 10: Surface planing process

8.1.3 Preparation for jointing up to 75 mm thickness

The workpiece is placed against the planer fence and pushed up to the front edge of the infeed table lip with the right hand. With the left hand, the guard is pushed up to the workpiece. The bridge guard should rest on the removal table.

8.1.4 Jointing of workpieces up to 75 mm thick

The workpiece is pressed against the planer fence and the outfeed table with the left hand, e.g. with a closed fist, thumb on the workpiece. The workpiece is fed consistently with the right hand, e.g. with a closed fist, thumb on the workpiece (see ⇨ Figure 11).

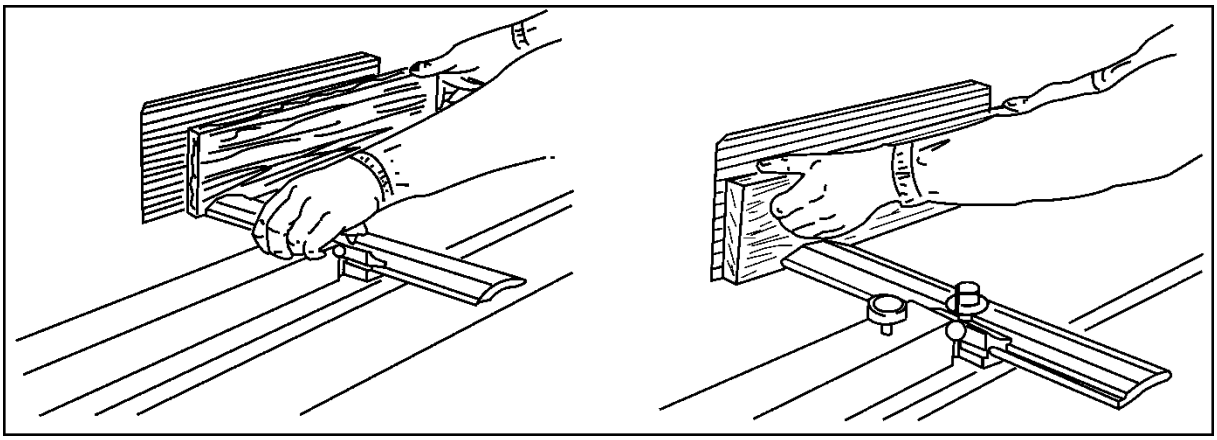

Figure 11: Jointing

8.2 Surface planing and jointing of workpieces over 75 mm thick

8.2.1 Surface planing of workpieces over 75 mm thick

The bridge guard is lowered onto the table and pushed horizontally up to the workpiece. The workpiece is surface planed with the hands flat along the planer fence next to the guard.

8.2.2 Jointing of workpieces over 75 mm thick

The workpiece is fed using both hands. The left hand presses the workpiece, e.g. with a closed fist, against the planer fence and the removal table. The right hand lies flat on the workpiece. The right hand is placed on the workpiece as it is fed forward on the removal table (see ⇨ Figure 12).

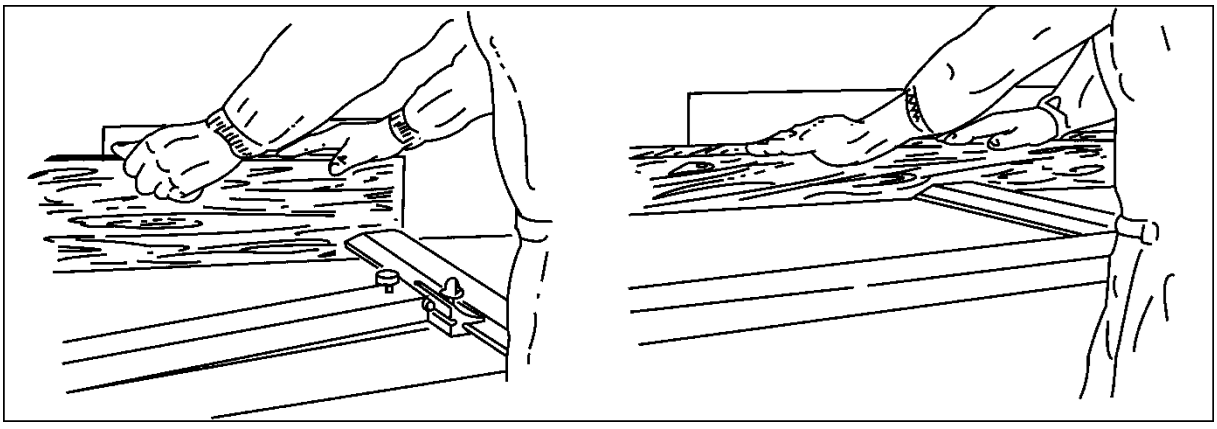

Figure 12: Machining of workpieces > 75 mm thick

8.3 Surface planing and jointing of small cross-section workpieces

8.3.1 Surface planing of workpieces with a small cross-section

As with workpieces up to 75 mm thick, the workpiece is fed forward with hands resting flat on it.

8.3.2 Jointing of workpieces with a small cross-section

The workpiece is pressed against the planer fence and the table with both hands, e.g. with a closed fist, and pushed forwards. The bridge guard is positioned horizontally up to the planer fence and rests on the workpiece (see ⇨ Figure 13).

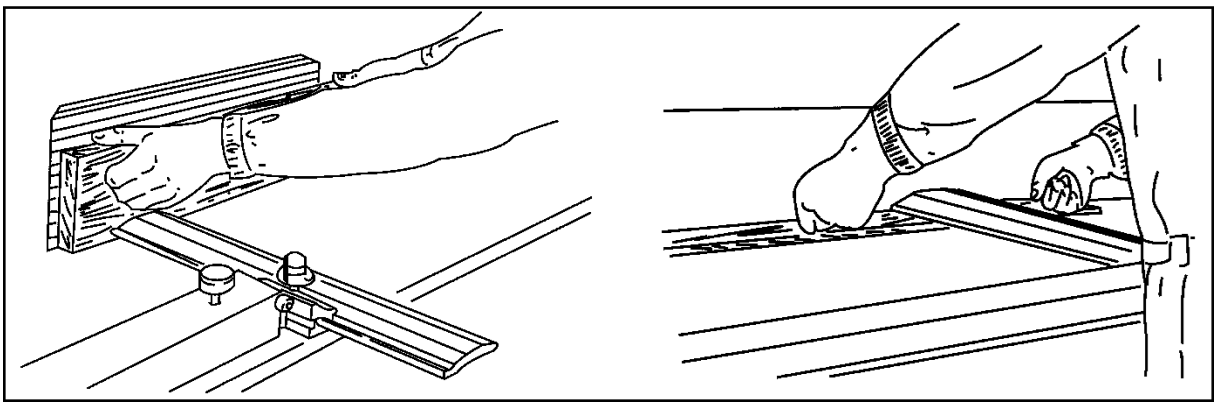

Figure 13: Working with narrow workpieces

8.4 Surface planing and jointing of short workpieces

8.4.1 Surface planing of workpieces with a small cross-section

The workpiece is pressed onto the infeed table with a flat left hand and pushed forward with a push stick guided by the right hand. The left hand slides over the bridge guard, as soon as the workpiece is also on the removal table, the pressure is switched to the removal table with the left hand.

Ensure that the push stick is not thicker than the workpiece (see ⇨ Figure 14).

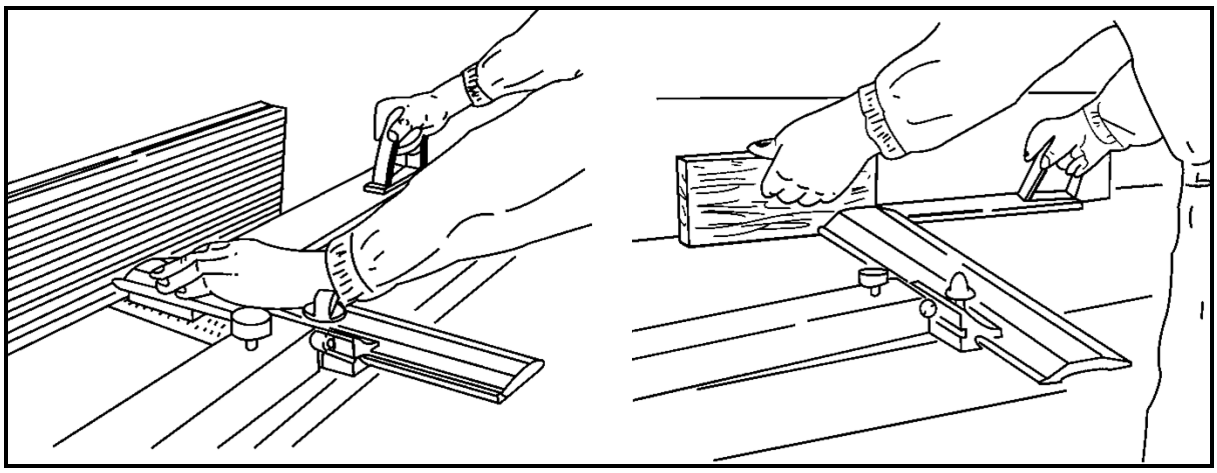

Figure 14: Surface planing of short workpieces

8.4.2 Jointing of workpieces with a small cross-section

The workpiece is pressed against the fence with the left hand, e.g. with a closed fist, and pushed forward with a push stick (see ⇨ Figure 15).

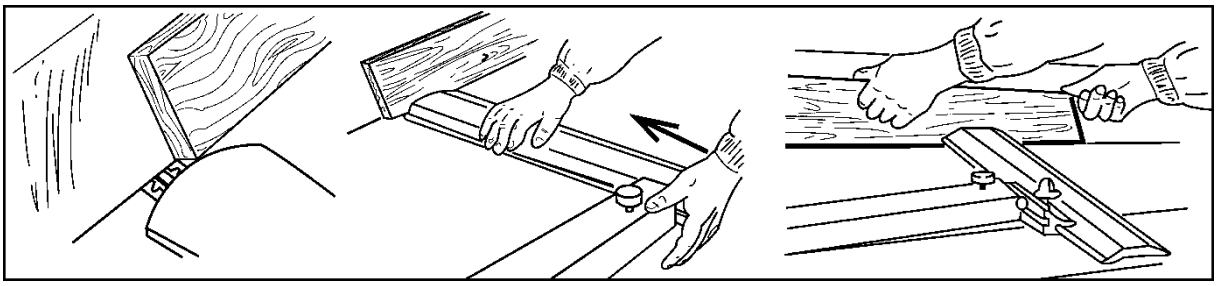

Figure 15: Jointing of short workpieces

8.4.3 Bevelling or chamfering on the planer fence

Place the workpiece against the inclined fence with your right hand. Position the workpiece and guard as shown in ⇨ Figure 15.

The guard is moved horizontally with the left hand so that it just touches the workpiece and then the clamping screw is tightened with the right hand. This fixes the guard in a horizontal position and prevents the workpiece from slipping away from the fence.

Das Werkstück wird mit der linken Hand bei geschlossener Faust gegen den Anschlag und den Abnahmetisch gedrückt und mit geschlossener rechter Hand vorgeschoben (siehe ⇨ Figure 15).

8.4.4 Preparation for bevelling or chamfering with template

A template is essential when bevelling short edges. It can also be used for bevelling long edges. The template is attached to the fence. The guard is placed horizontally against the template and locked by tightening the clamping screw.

8.4.5 Bevelling or chamfering short edges

The workpiece is advanced using a push stick suitable for bevelling.

8.4.6 Bevelling or chamfering long edges

The workpiece is pressed on with the hands with a closed fist and pushed forwards (see ⇨ Figure 16).

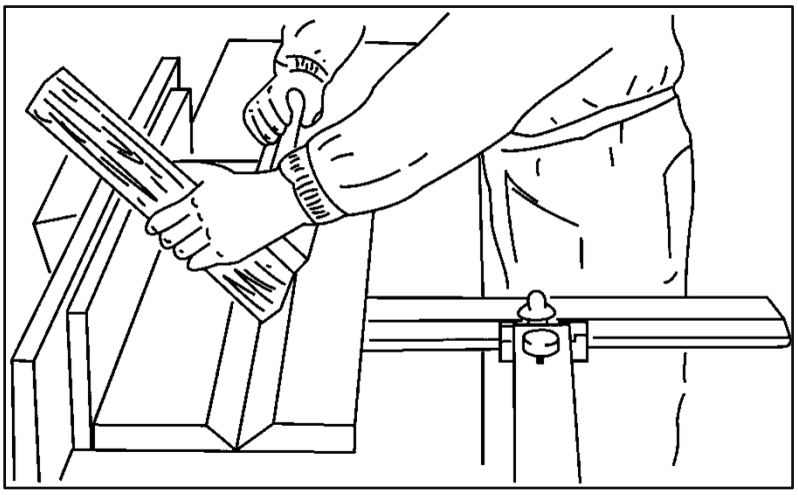

Figure 16: Chamfering with template

9 Handling during knife change

	***Disconnect the machine from the power supply during maintenance and repair work and secure it against unauthorised restarting!***

	***The knife change must generally be carried out in accordance with the operating instructions of your machine. Pay particular attention to the maximum cutting edge protrusion of the knives and the permissible tightening torque for the screws used to secure the planing knives.*** ***With regard to the TXF / TXR bridge guard, please also follow the instructions below:***

9.1.1 Changing the knives from above

Pull the TXF / TXR bridge guard forward as far as it will go and change the planing knives according to the manufacturer's instructions and the operating instructions for your machine.

9.1.2 Changing the knives from the front

Set the TXF / TXR bridge guard to its uppermost position (75 mm above the table) and change the planing knives according to the manufacturer's instructions and the operating instructions of your machine.

9.1.3 After changing the knives

After changing the knife, return the guard to its protective position so that the entire cutter block is covered.

10 Maintenance and care

	***Disconnect the machine from the power supply during maintenance and repair work and secure it against unauthorised restarting!***

- Always make sure that the bridge guard is fully functional.
- Always keep the moving parts running smoothly.
- Clean the bridge guard regularly.
- Replace any damaged parts immediately.
- Regularly check the tightness of the fastening screws to the guard.
- Always completely cover the cutter block with the bridge guard after work.

11 Scrapping and disposal

When scrapping the bridge guard, the current EU regulations or the respective regulations and laws of the country of operation, which are prescribed for proper dismantling and disposal, must be complied with. The aim is to dismantle all materials and components properly, to recycle recyclable parts and to dispose of non-recyclable components in the most environmentally friendly way possible.

	• ***Plastic parts and other non-metal components must be dismantled and recycled or disposed of separately.*** • ***Dismantle all metal parts of the guard and sort them according to material type (steel, aluminium). Metals can be melted down and recycled.***