TRANSLATION OF THE ORIGINAL VERSION

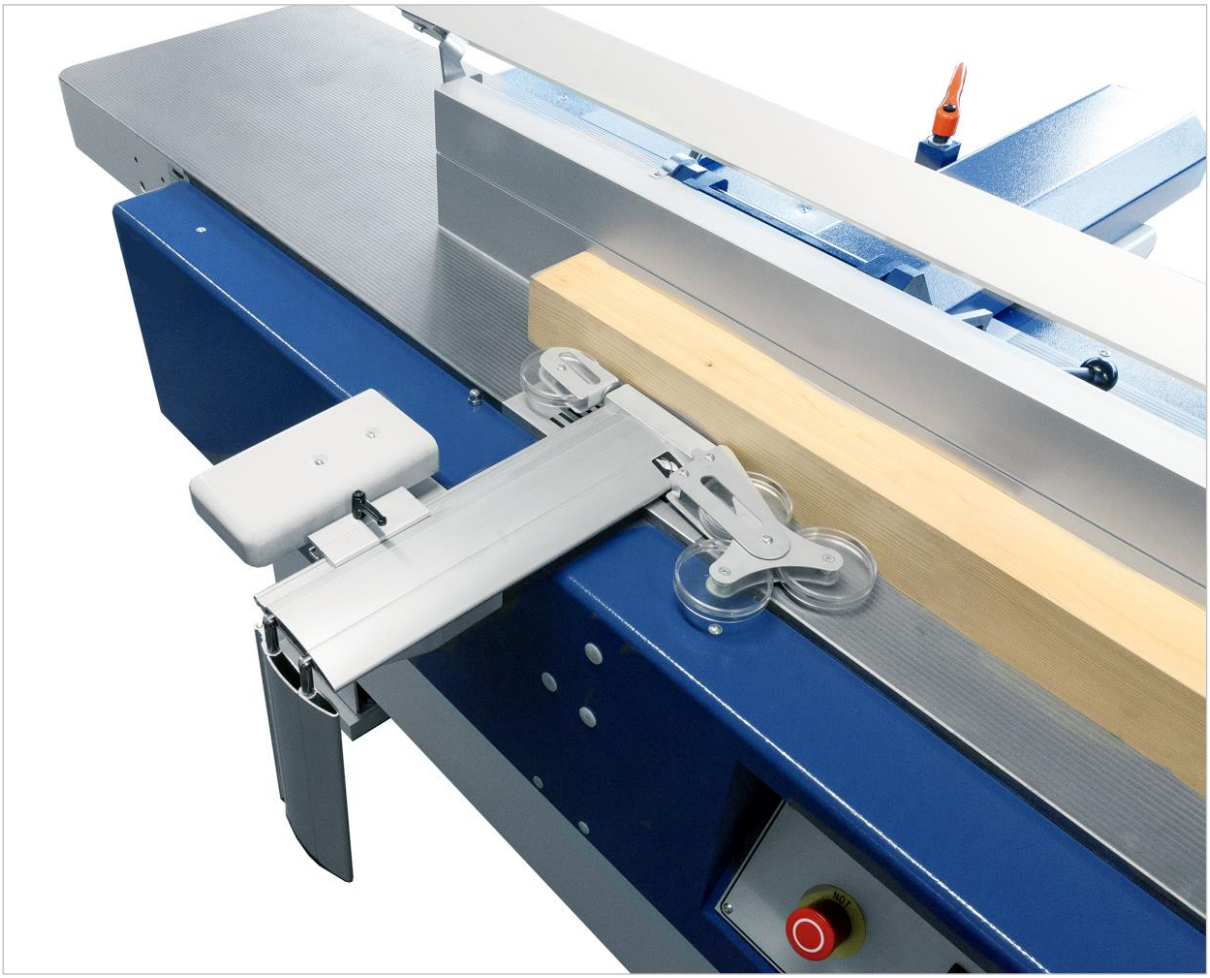
CE

SI|TEC SICHERHEITSTECHNIK

Operating Manual

Planer bridge guard TX-MATIC

For use on all surface planing and jointing machines



Type:	**TX-MATIC**

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Revisions:

Revision	Editor	Modification	Date
0	AG	Original manual translated	23.02.2022

1 General

The purpose of this operating manual is to acquaint the user with the TX-MATIC bridge guard and enable him to use it to the full extent of its intended capabilities. Observance of this manual helps to avoid dangers, to reduce repair costs and downtimes and to increase the reliability and service life of the product. Furthermore, this document serves to supplement instructions based on national regulations for accident prevention and environmental protection.

	***This operating manual must always be available at the place of use of the machine. It must be read and followed by every person who is assigned to work on the machine.***

The manufacturer accepts no liability for damage and malfunctions resulting from failure to observe the operating instructions or improper handling.

Apart from the operating manual and the legally binding accident prevention provisions applicable in the country and place of use, the recognized technical regulations for safe and proper work must also be observed .

1.1 Versions

The bridge guard is available in two different versions:

1. for planing width 410 + 510 mm with two-part cover 420 + 320 mm **Art. No. 3412**
2. for planing width 630 mm with two-part cover 550 + 320 mm **Art. No. 3413**

The plate required for fastening to the machine is included in the scope of delivery (without screws).

1.2 Features

- Bridge guard with two-part and fold-down cover for surface planers and combined surface planing and thicknessing machines
- With spring-loaded contact pressure onto the workpiece in height and lateral position via wheel unit
- The wheel unit raises the guard to workpiece height
- Once the workpiece has been pushed through, the guard lowers back to its original position
- Optimum cutter block coverage is guaranteed
- The wheel unit can be rotated horizontally, vertically and to 45°.
  This ensures the required pressure on the machine table and fence.

1.3 Fulfilled standards

The bridge guard, certified by the “BG-Holz” (German Wood Trade Association), is used to cover the cutter block in front of the fence for woodworking machines in accordance with the following standards:

- EN 859 Surface Planers & Jointers,
- EN861 Surface Planers & Thicknessers,
- EN4940 combined machines
- and in accordance with the Machinery Directive 2006/42/CE

2 Check delivery conditions

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!***

3 Intended use

- The 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 permits its use.
- These operating manual only applies in conjunction with the operating instructions of the machine on which this protective device is to be mounted.
- In particular, the information on intended use and the information on safe working practices given in the operating instructions for the machine must be observed.
- The machine manufacturer who intends to mount this protective device on his machine must ensure that the tests specified in EN 859, EN 861 and EN 940 in the annexes have been carried out and passed for the machine.
- Any other use is considered improper and is prohibited. The manufacturer of this bridge guard accepts no liability for damage resulting from improper use.
- This bridge guard may only be attached to the machine, used and repaired by qualified and sufficiently instructed personnel.
- In particular, both the operating manual for the bridge guard and the operating instructions for the machine must be observed and complied with.
- Only original spare parts from the manufacturer may be used. The manufacturer of the safety guard accepts no liability for damage caused by improper handling or unauthorised use of spare parts from other manufacturers.

3.1 Conversions and modifications of the guard

☝	***Conversions and modifications to the bridge guard are strictly prohibited for safety reasons. This will invalidate the CE declaration of conformity! The manufacturer is not liable for any resulting damage. The risk for this is borne solely by the operator/user.***

3.2 Dimensions

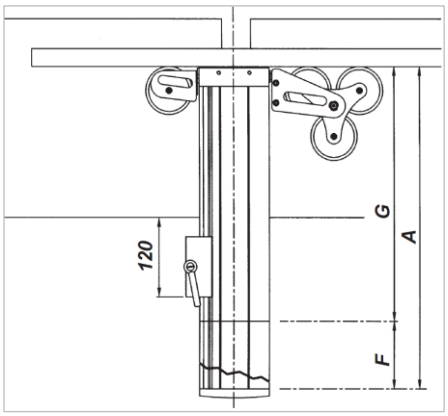

Figure 1: Dimensions

A = F + G	*F*	*G*
520	260	260
660	260	400
800	400	400

4 Fixing on the machine

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

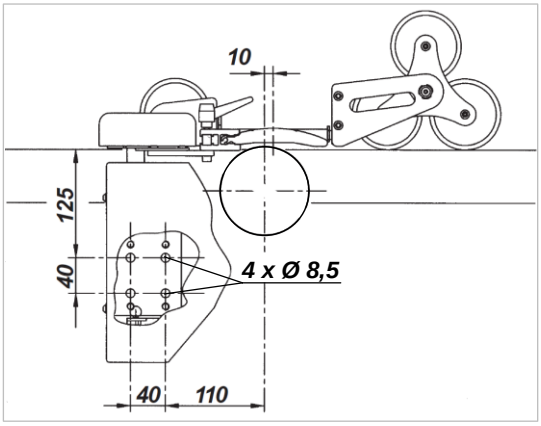

Figure 2: Fixing dimensions and drilling diameters

In addition, the intended fixing point of the bridge guard on the machine must be discussed with the manufacturer.

Depending on the fixing point specified by the machine manufacturer, the guard must be fixed as follows:

With M8 through bolts or bolts supplied with the machine or M8 hexagonal bolts screwed into appropriately drilled threaded or through holes. For required drilling diameters see ⇨ Figure 2.

5 Adjusting the bridge guard

After mounting, the bridge guard must be adjusted according to the safety requirements.

Distance to workpiece via grub screws (K):

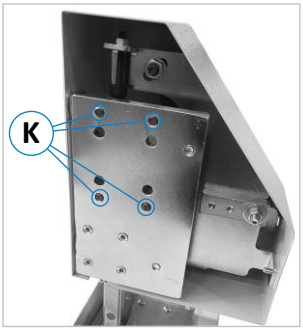

Figure 3: Adjustment (K)

In the initial position and over the entire adjustment range, the long side of the guard must not be more than 2 mm from the upper workpiece surface on the infeed table side and 3 mm on the outfeed side. This adjustment is made using the screws (**K**).

Parallelism to cutter block via fixing screws (H):

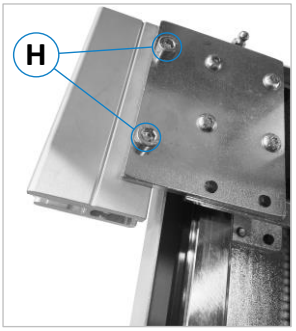

Figure 4: Adjustment (H)

Use an SW5 Allen key to tighten the two M8 fixing screws (**H**) for the bridge support on the underside. The bridge must be parallel to the cutter block. Otherwise, loosen both screws (**H**), correct the parallelism and tighten the screws again.

Bend compensation via grub screws (K):

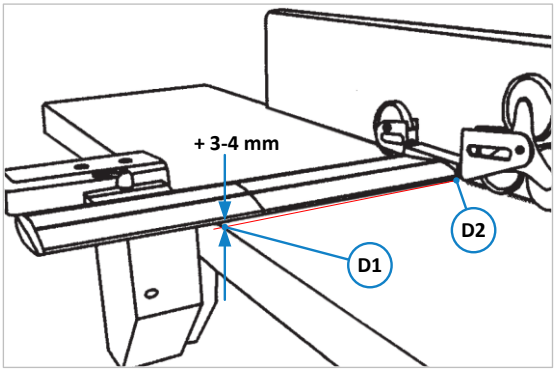

Figure 5: Bend compensation

- Adjust the fence to the maximum working width so that the bridge rests against the fence and the wheels are in a vertical position. Then lock the bridge in its support.
- In this state, the front area (**D1**) of the bridge must be 3 - 4 millimetres higher to the table than the rear area (**D2**) at the wheels (see ⇨ Figure 5). The adjustment for this is also made using the grub screws (**K**) shown in ⇨ Figure 3.

This is necessary to compensate for the bending of the bridge during lifting when feeding the workpiece forward.

Stroke and damping via screws (M) and (N):

- The stroke adjustment (up to a maximum of 75 mm) of the bridge in relation to the table is done with the screw (**M**) shown in ⇨ Figure 6.

Adjust the damping of the bridge with the screw (**N**):

- To do this, lift the bridge manually from the table and let it fall. If it drops too abruptly or stops before it is at table height, adjust the balance spring setting with screw (**N**). The screw is accessed through the opening (**5**) shown in ⇨ Figure 7.

  - Turn screw (N) clockwise less →Spring thrust decreases
  - Counterclockwise → Spring thrust increases (more damping)

  Note: This setting may also be necessary in the event of major changes or fluctuations in the room temperature.

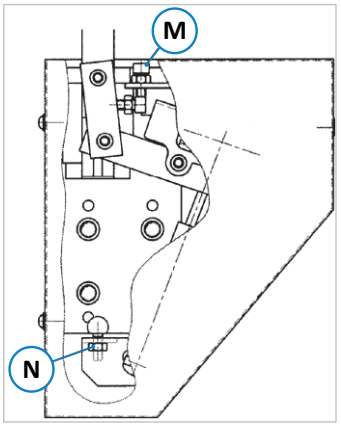

Figure 6: Stroke and damping

6 Components and controls

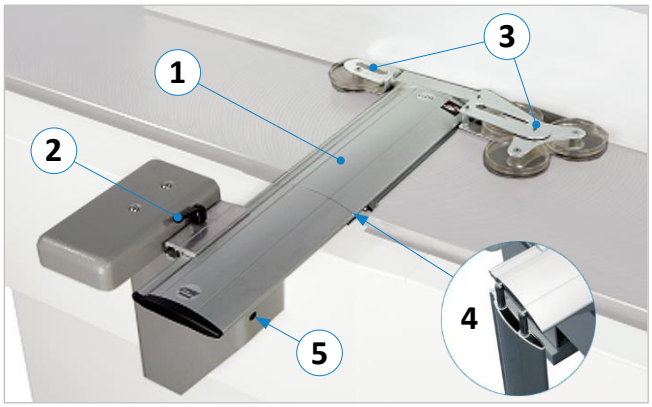

Figure 7: Components & controls

TX-MATIC - Components:

(1) Protection bridge

(2) Lever for locking

(3) Wheel unit

(4) Hinge for bridge joint

(5) Opening to the balance spring adjustment screw for lowering

7 Safety

⚠	***The following safety instructions refer explicitly to the TX-MATIC planer bridge guard. For safe working with the bridge guard, all safety instructions in the operating manual of your machine must also be observed.***

7.1 Residual risks

The TX-MATIC bridge guard corresponds to the latest state of the art and has been manufactured in accordance with the recognised technical safety regulations. Nevertheless, due to the design determined by the intended use of the machine/protective equipment, the following residual risks can still occur even when used as intended and despite compliance with all relevant safety regulations:

	Danger of clothing being drawn in by moving and rotating machine parts or tools.
	Danger of crushing on workpiece guides and moving machine parts.
	Risk of injury from flying tool parts in the event of tool breakage. Therefore, generally wear protective goggles.
	Risk of injury from flying workpiece parts and chips, splinters and dust coming out of the machine. Therefore, generally wear protective goggles.
	Increased noise emission. Therefore always wear hearing protection.
	Increased dust emission. Use an extraction unit and/or wear a dust mask.

7.2 Safe operation

The TX-MATIC bridge guard automatically adapts to the conditions of the respective workpiece machining and is also very easy to operate.

The wheel unit (**3**) at the end of the aluminium bridge (see⇨ Figure 7) can be turned into the vertical, horizontal and 45° position. In the horizontal position, it can also be folded down by 180°.

Vertical position:

- By positioning the wheels in the vertical position (see ⇨ Figure 8) the bridge stroke is carried out automatically up to a maximum height of 75 mm by the workpiece feed.
- After machining, the bridge automatically reaches the level of the tabletop.

Horizontal position:

The four sides of a workpiece up to a maximum of 100 x 100 mm can be machined by placing the workpiece against the fence with the wheels in horizontal position without pre-setting.

- When feeding the workpiece against the fence, the bridge moves away from the fence up to max. 100 mm (see ⇨ Figure 9). After machining, the bridge automatically returns to its initial position.

Inclined 45° position:

In addition, the 45° position of the wheels at the 45° inclined fence can be used for bevelling and chamfering (see ⇨ Figure 13).

7.2.1 Safe position of the hands when feeding the workpiece

The following figures show the correct position of the hands for the respective machining operations:

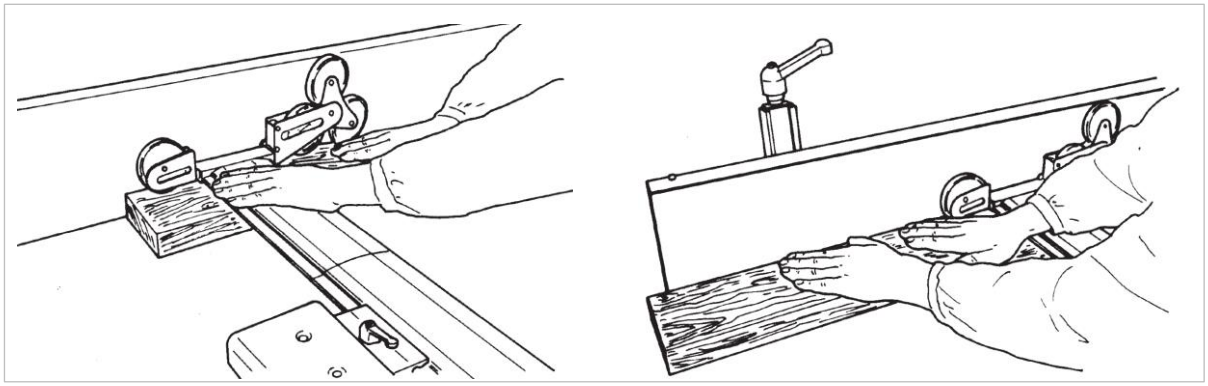

Figure 8: Planing of flat and wide workpieces

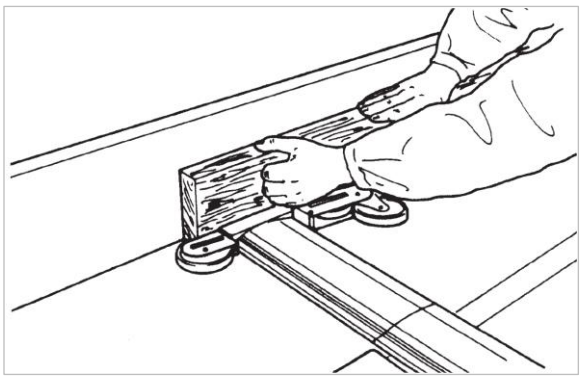

Figure 9: Edge planing of workpiece heights < 75 mm

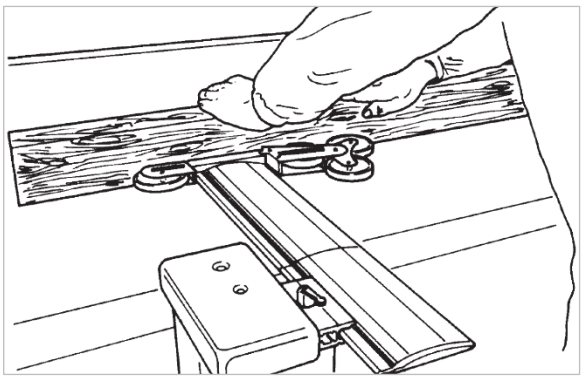

Figure 10: Planing workpiece sides

Continuation see ⇨ next page

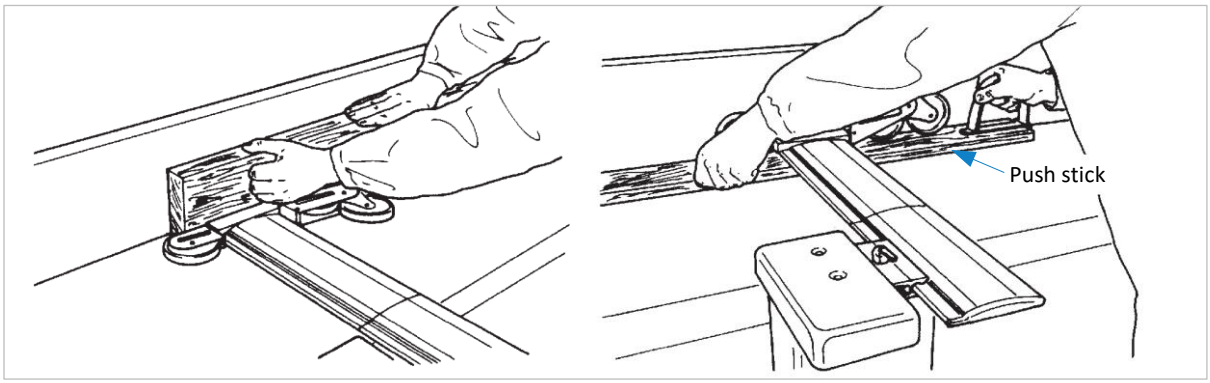

Figure 11: Planing of workpieces with small cross-sections and planing of workpiece sides

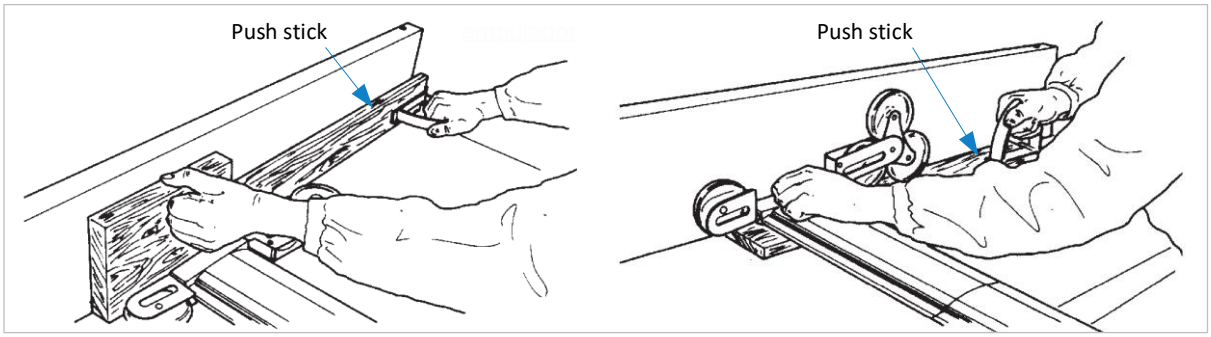

Figure 12: Planing short parts

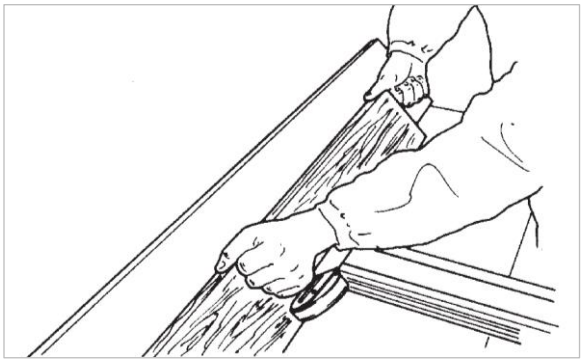

Figure 13: Bevelling along the dressing fence

8 Handling during knife change

⚠	***The knife change must generally be carried out in accordance with the operating instructions of your machine. With regard to the bridge guard, please also follow the instructions below***

8.1 Changing the knives from above

Pull the TX-MATIC 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.

8.2 Changing the knives from the front

Set the TX-MATIC 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.

8.3 After changing the knives

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

9 Maintenance and care

	***Switch off the machine during maintenance and repair work and secure the main switch against unauthorised restarting (e.g. with a padlock)!***

- 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.

10 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.***