

Installation and maintenance instructions

Glutz 18931 MINT SB – 2BR

Glutz 18951 MINT SB – 4BR

Glutz 18938 MINT Combi – 2BR

Glutz 18939 MINT Combi – 2SHR

Glutz 18983 MINT Combi – 4BR

Glutz 18984 MINT Combi – 2BR/2SHR

MA-10145, February 2022



IMPORTANT

The installation and maintenance instructions should be read carefully before fitting and using the product.

The installation and maintenance instructions should be retained for future reference.

The installation and maintenance instructions contain important information about the installation, commissioning, maintenance and care of the product, as well as its disposal.

Publisher

Glutz AG

Segetzstrasse 13, 4502 Solothurn, Switzerland

Tel. +41 32 625 65 20, Fax +41 32 625 65 35

info@glutz.com, www.glutz.com

Document number / Version / Issue date

MA-10145

V0222

16.02.2022

Copyright

© 2017, Glutz AG

Table of contents

1	Warnings and safety information	3
1.1	Warnings	3
1.2	Safety instructions	3
2	Product-specific warnings and safety information	4
3	General information	4
3.1	Warranty	4
3.2	Additional information	4
4	Product information	5
4.1	Target users	5
4.2	Use of the product	5
4.3	Product identification	6
4.4	Functions and versions	6
4.5	Modification of the product	8
5	Preparation of the product for use	9
5.1	Transport and storage	9
5.2	Installation	9
5.3	Initial operation	10
6	Dimensioned drawing 3-points multipoint locking device	11
7	Dimensioned drawing 5-points multipoint locking device	12
8	Milling drawing 3-points multipoint locking device	13
9	Milling drawing 5-points multipoint locking device	14
10	Operation of the product	15
10.1	Normal operation	15
10.2	Unusual situations / emergency situations	15
10.3	Troubleshooting and repair by technicians	15
11	Maintenance and service of the product	16
11.1	General	16
11.2	Service by untrained persons	16
11.3	Service by technicians	16
12	Accessories and matching components	17
12.1	Glutz striking plates	17
12.2	Lever handle sets	17
12.3	Plates / Roses	17
12.4	Locking cylinders	17
13	Disassembly, recycling, disposal	17

1 Warnings and safety information

Please note the symbols used in these installation and maintenance instructions.

1.1 Warnings

WARNINGS

Danger

Hazard with a high level of risk that if not avoided, will result in death or serious injury.



Warning

Hazard with a medium level of risk that if not avoided, could result in death or serious injury.

Caution

Hazard with a low level of risk that if not avoided, could result in minor or moderate injury.

1.2 Safety instructions

INSTRUCTIONS



Mandatory instructions

Indicates instructions for the safe use of the product that must be adhered to.



Prohibitive instructions

Indicates actions that must be avoided in order to ensure the safe use of the product.

2 Product-specific warnings and safety information

This product serves as the “lock” subsystem for a door system. The installation, commissioning, maintenance and care must therefore be carried out by the appropriate specialist personnel.

Danger



- The profile and door seal must not impair the intended use of the doors.
- Use on double swing doors is not permitted.
- The lock and striking plate / frame should be fixed and adjusted to guarantee that the latch and bolt engage and function correctly. When in their retracted position, the protruding parts of the latch and bolt must not hinder the free movement of the door.

Warning



- The doors must not exceed the maximum warpage of three millimetres (3 mm) to the rebate.
- Do not use a reduction sleeve for the follower/square spindle!
- Unsuitable doors reduce personal and burglary protection.

Caution



- When being used with a door closer, the doors must be operated easily by children, people with a disability and the elderly.

3 General information

3.1 Warranty

Generally, the statutory warranty period of 24 months from the date of dispatch from the Glutz factory applies. Details can be found in the General Terms & Conditions of Glutz AG at www.glutz.com

3.2 Additional information

The information printed in this document relates to the condition of the product upon delivery. The latest documentation for the specific product is available on our website at www.glutz.com.

4 Product information

4.1 Target users

These installation and maintenance instructions are intended for persons who are:

- Installing and commissioning the system (specialist door technicians, fitters, etc.)
- Maintaining and managing the system (owners, administrations, company technicians, etc.)

4.2 Use of the product

The mechanical locks of the MINT SB/Combi series from Glutz are intended for use together with the corresponding striking plates or frames as a closing and locking element in full-leaf doors in both interior and exterior applications.

The lock must be installed in a door element by a qualified door specialist and installed as a door system in the building. The use of the lock or door system for the intended purpose is not normally subject to any restrictions in terms of personnel or time.

The lock is intended to be used for the opening and locking of the door system in which it is installed. It allows those persons who are authorised as part of the corresponding identification system to access a property. Identification takes place via a mechanical access system (e.g. Glutz mAccess) and/or an electronic access system (e.g. Glutz eAccess).

The lock has been tested in a door system with the following physical parameters:

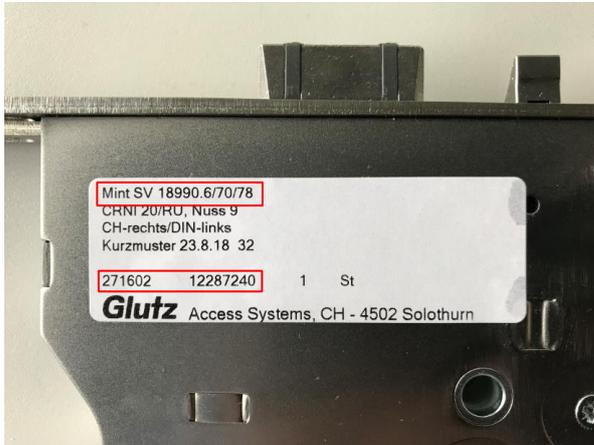
What	Range
Door weight	200 kg
Door height	2,500 mm
Door width	1,300 mm
Temperature range	-20°C to +60°C
Door gap	min. 2 – max. 5 mm

The door manufacturer may construct door systems with larger weights and dimensions. When using the 11350/11550/11800 radiused forend extensions, the door heights given above can be exceeded. In this case, the top locking point is raised by 350, 550 or 800 mm.

The fittings for the door system should be selected depending on the particular weights and dimensions.

4.3 Product identification

The lock can be identified by the Glutz label and the product number on the forend. Precise identification of the lock is possible via the serial number and/or the production number on the outside of the lock case. To do this, the lock must be removed by a qualified specialist.



4.4 Functions and versions

4.4.1 Key operated (SB) – single throw

The lock is locked and unlocked via the cylinder.

The latch can be retracted via the latch withdrawal function.

The lock has a simultaneous latch blocking and lever handle release when locked.

4.4.2 Combi (lever handle and key operated) – single throw

Simple locking and unlocking by means of the lever handle and then easy-running securing via the cylinder.

The lock has simultaneous latch and lever handle blocking when locked.

4.4.3 Versions

- Lock case compatible with Glutz protection fittings
- SB: Smooth-running latch withdrawal for drawing back the latch
- Combi: Simple locking and unlocking by means of the lever handle
- Combi: easy-running securing via the cylinder
- Dampened, reversible DIN L+R comfort latch with latch blocking

4.4.4 Available backsets

- PZ/RZ 78 mm: DM 60, 70, 80 mm
- PZ 72 / 92 mm: DM 65, 70, 80 mm
- PZ 88 mm: DM 65, 80 mm
- RZ 74 / 94 mm: 65, 70, 80 mm on demand

4.4.5 Connection dimensions

- Matt stainless steel radiused forend 20 x 3 mm
- SB: 4-part clamp follower; square 8 / 8.5 / 9 / 10 mm
- Combi: 4-part clamp follower; square 8.5 / 9 mm
- All: Hardened main bolt; project 20 mm
- 18931/38: Two additional hardened bolts; project 20 mm
- 18939: Two additional hook bolts; project 24 mm
- 18951/18983: Four additional hardened bolts; project 20 mm
- 18984: Two additional hardened and hook bolts; project 20/24 mm

4.4.6 Quality standards

			
18931 MINT SB - 2BR	X	-	X
18951 MINT SB - 4BR	X	X	X
18938 MINT Combi - 2BR	X	-	X
18939 MINT Combi - 2SHR	X	-	X
18983 MINT Combi - 4BR	X	X	X
18984 MINT Combi - 2BR/2SHR	X	X	X

4.4.7 Options

Matt stainless steel radiused forend 18 x 3 mm (only PZ/RZ 78 mm).
Prepared for forend extension with additional locking.

4.5 Modification of the product

4.5.1 Adapt de comfort latch

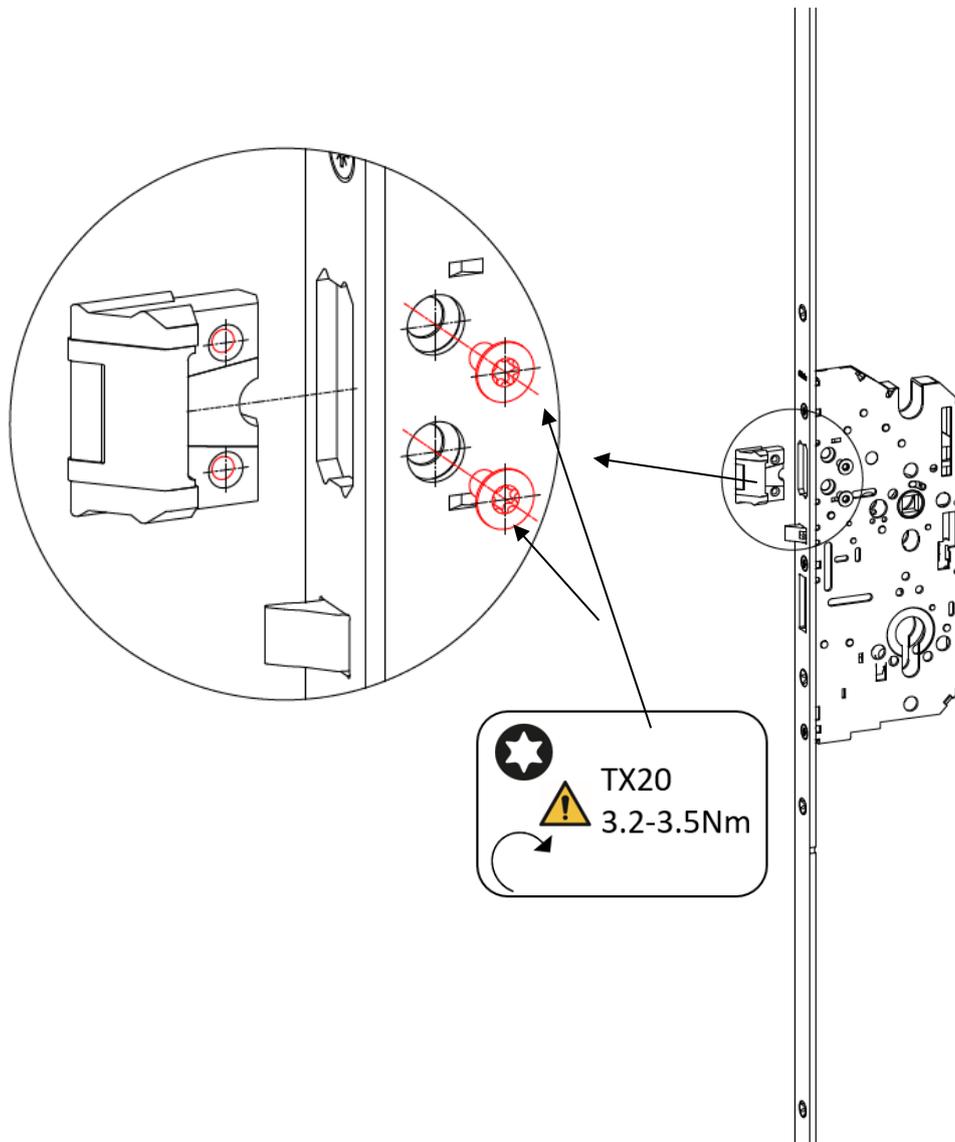
The lock is equipped with a reversible comfort latch and continuous lock follower. The latch can thus be adjusted for DIN right-hand or left-hand.

4.5.1.1 Required tools

- Allen key
- Torque wrench or torque screwdriver with TX20 bit insert.

4.5.1.2 Procedure

- Ensure that the latch screws are positioned precisely over the openings in the lock case. Remove the two latch screws.
- Extraction, rotation and insertion of the latch.
- Fasten the latch with the two latch screws tightened to **3.2-3.5 Nm**.
- Perform a function check on the lock.



5 Preparation of the product for use

5.1 Transport and storage

Information about transport and storage



- **Protection for transport and storage**
Do not remove the protection for transport and storage until the time of installation.
- **Transport during installation**
Transport the lock in vertical or horizontal position so that the forend does not bend.



- **Transport in the installed state**
The door leaf must not be lifted and transported by the fittings.

5.2 Installation

Caution

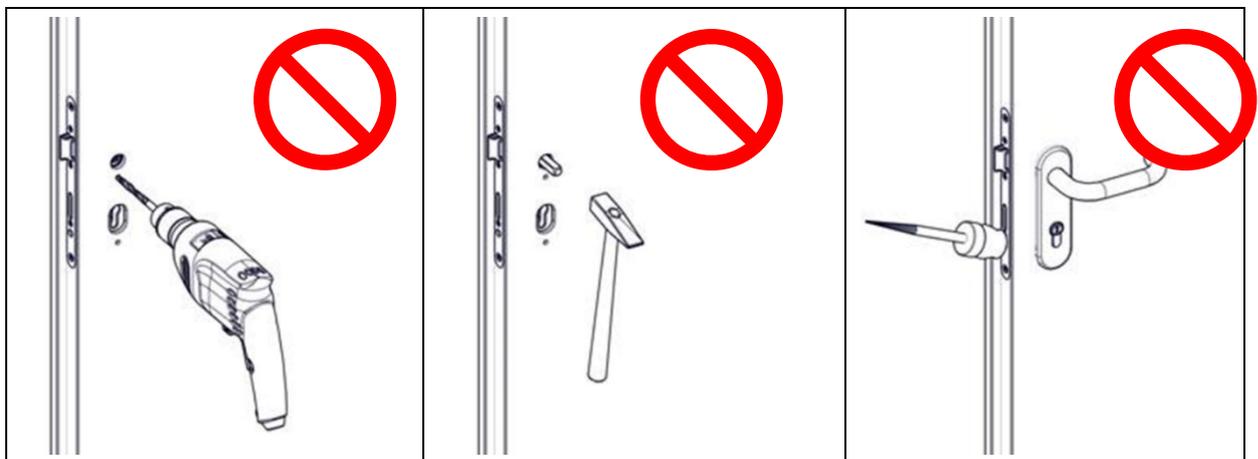


- **Risk of injury due to sharp edges and chips**
There is a risk of injury due to sharp edges and chips associated with cutting work.

Installation advice



- **Cutting work**
Wear protective equipment such as protective goggles, gloves, etc. as protection against injury associated with cutting work.
- **Inspection of the door**
Check whether the door is attached correctly before installation.
- **Use suitable screws for installation of the lock and the fittings.**
- **It is recommended to pre-drill screw holes.**



Do not drill into the door leaf while the lock is installed.

Do not use force to strike the square spindle through the lock follower.

Do not paint or apply a coating to the latch and bolt.

5.2.1 Milling of lock pockets

- Fix the position of the lever handle height as a basis for all subsequent machining and measurements (see Marking the handle height on the forend).
- Make all necessary millings in the door leaf for the lock in accordance with the drawings in chapter 8 onwards.
- Drill the holes for the lock fittings (only with the lock removed).
- Clean the lock pocket and all holes by blowing them out or vacuuming.

5.3 Initial operation

Warnung



- Chips and dirt can impair the function of the locking mechanism! This fault can also occur some time after the installation.
- Deformation of the lock due to the cylinder fixing screws being screwed too tightly can impair the function of the locking mechanism!
- Deformation of the lock due to a poorly fitting milling can impair the function of the locking mechanism!
- Fittings that are not correctly aligned with the lock and door leaf can impair the function of the lock mechanism.

5.3.1 Installation of the lock

Before installing the lock, perform a mechanical functional check with the lock standing vertically.

- Install the lock in the door leaf.
- Fasten the forend in the door leaf using suitable screws.
- Ensure that the screws do not impair any other components of the lock or the fittings.

5.3.2 Functional check in the installed state

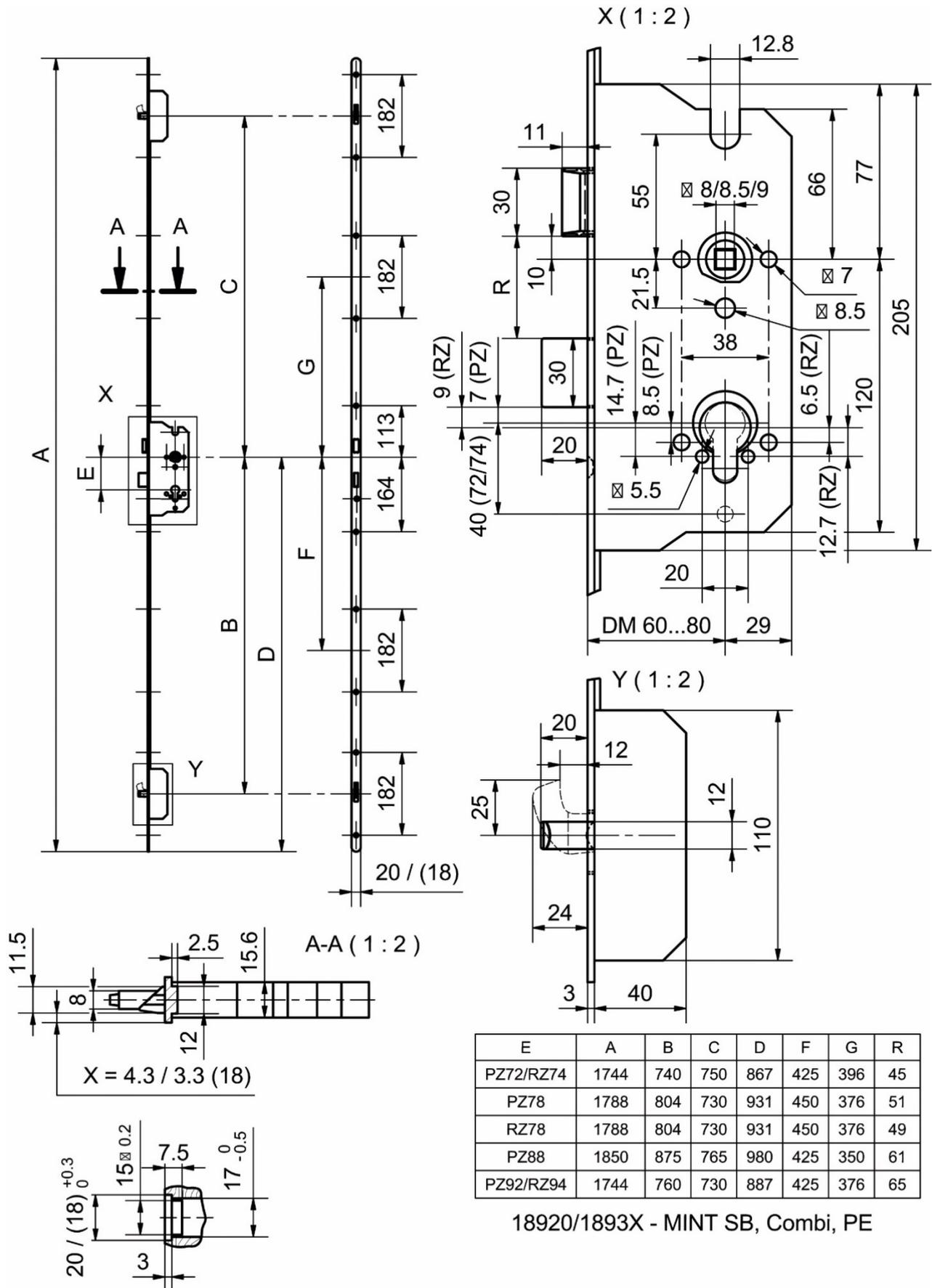
Perform a mechanical functional check on the lock when installed.

- Bring the door system into the intended end position as intended during operation.
- Test the function of the door system in this position. Ensure the following, in particular:
 - Correct adjustment of the hinges.
 - Correct adjustment of the rebate gap and check the warping (max. 2-5 mm).
 - Correct installation of the door seal and adjustment of the door seal pressure.
 - Check the function of the striking plates and the mechanical function of the lock (the bolt must be freely retractable under preload!).
 - Correct installation of the fittings (square spindle, lever handle, plates/roses).

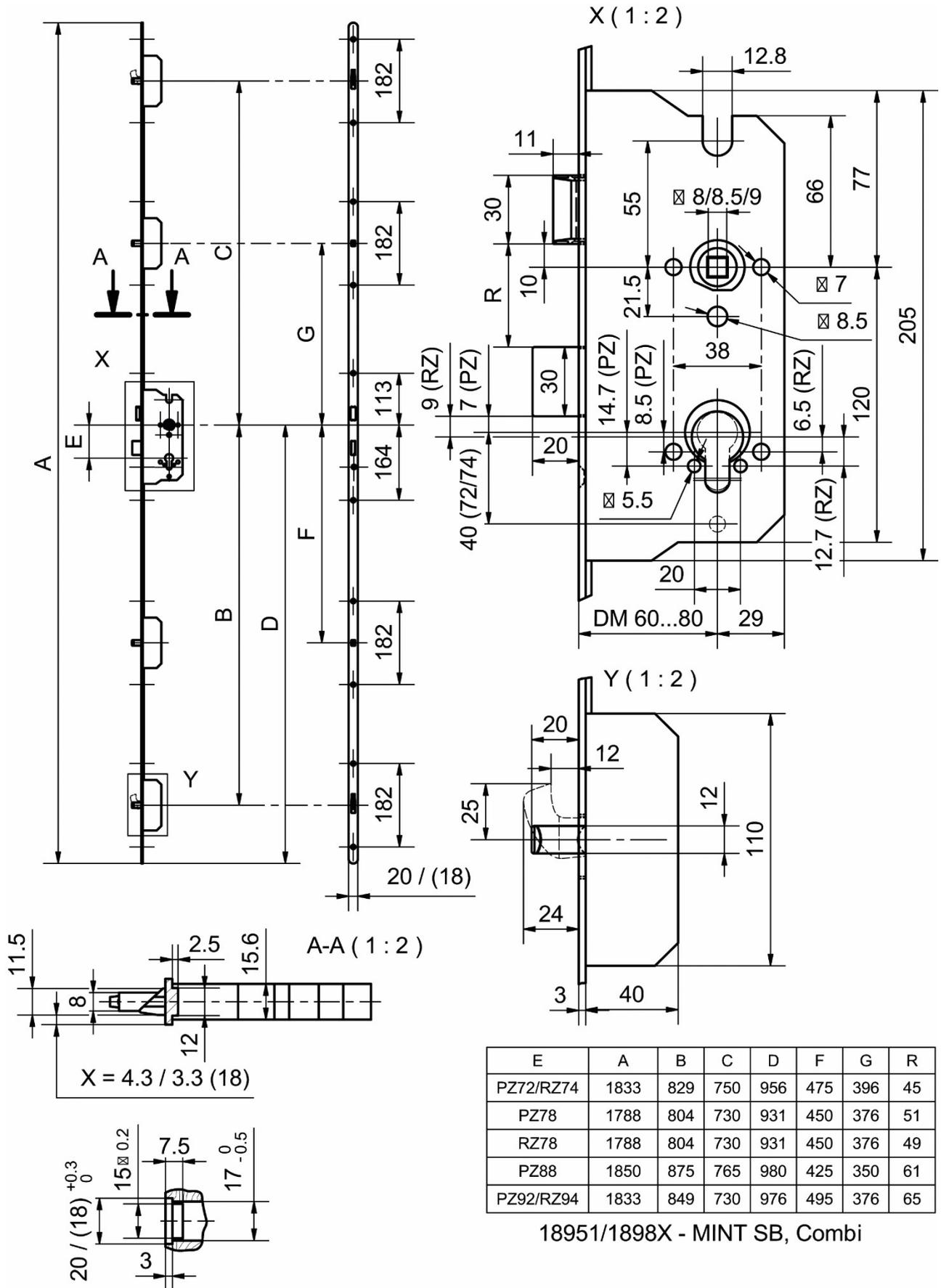
5.3.3 Functional check of door system

- Carry out a function test under preload of the door. The lever handle must be easy to operate. This ensures that the bolt can be retracted without lateral pressure.

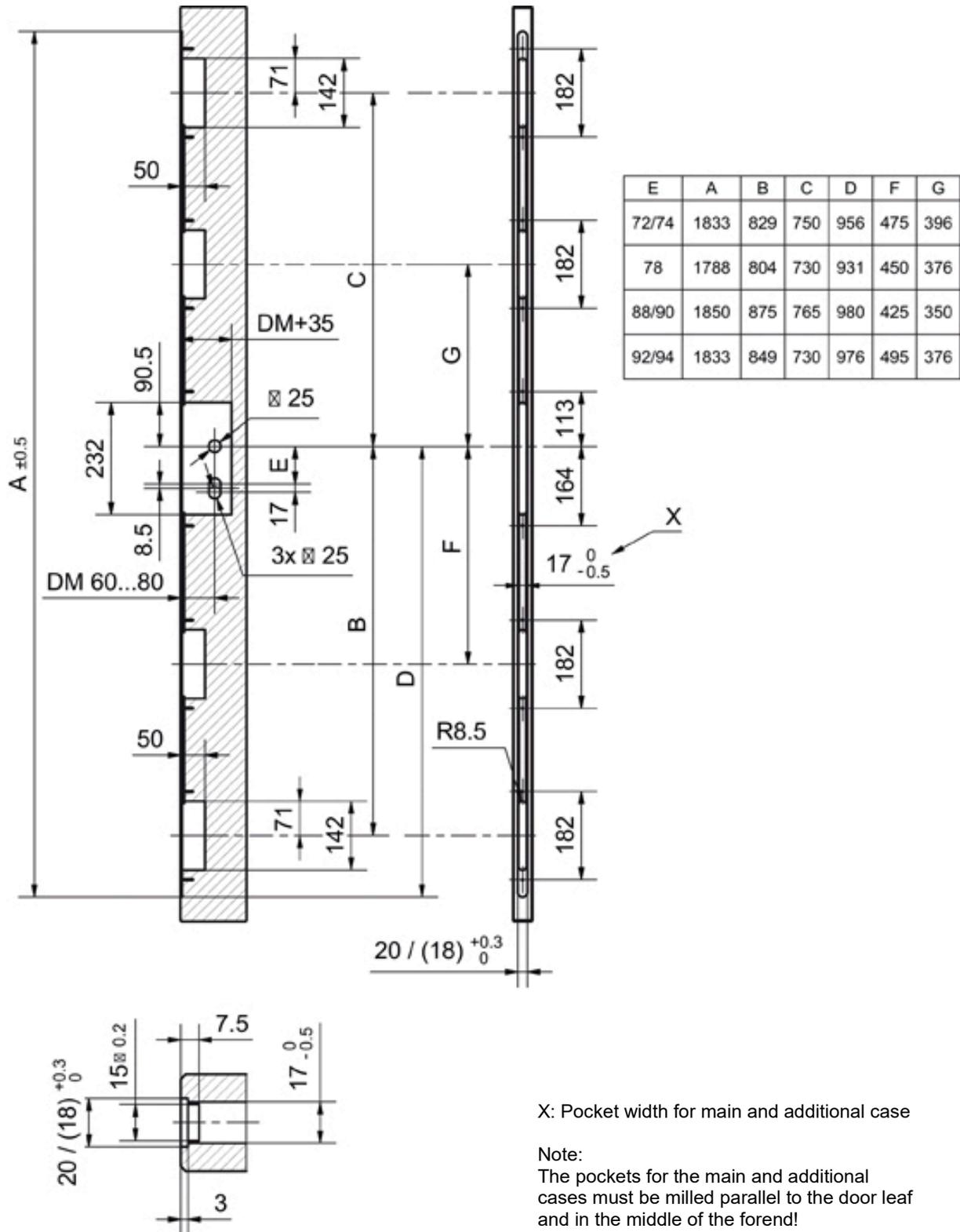
6 Dimensioned drawing 3-points multipoint locking device



7 Dimensioned drawing 5-points multipoint locking device



9 Milling drawing 5-points multipoint locking device



10 Operation of the product

10.1 Normal operation

See chapter 4.4 onwards.

10.2 Unusual situations / emergency situations

The following cases relate to a correctly installed motorised lock and thus apply to malfunctions that can occur during operation.

Behaviour	Possible cause	Solution
The lock is generally very difficult to operate.	Forend not correctly fitted or forend screws overtightened.	Check fastening of forend screws and tighten correctly.
Cylinder is difficult to operate.	Cylinder bore not drilled at right angles to the lock case.	Rework the cylinder bore or correctly align the lock in the milled recess.
Retracting the latch using the lever handle only works partially.	Square spindle with reduction bush used. The reduction bush does not reach over both follower parts.	Use a lever handle set with a square spindle equal to the square of the lock.
The lock cannot be unlocked via the cylinder.	Door leaf distortion due to difficult climatic conditions.	Consult door leaf manufacturer.
	Door sealing pressure too high.	Adjust the door seal or adjust the hinges and striking plates.
The lever handles hang down	The fitting set was screwed with pressure on the lock follower.	Align the fitting set flush with the lock so that the square spindle does not exert pressure on the lock follower and the handle bearing runs smoothly.

If the malfunction cannot be remedied, please contact the door fitter who installed the system.

10.3 Troubleshooting and repair by technicians

If the door fitter is unable to solve the problem, please contact our field staff using the telephone number on the last page.

11 Maintenance and service of the product

11.1 General

Lubrication of the lock



The lock is provided with lifetime lubrication from the factory. Re-lubrication of the internal lock mechanics is not permitted.

11.2 Service by untrained persons

Service work should not be carried out by untrained persons.

11.3 Service by technicians

To ensure suitability for use in accordance with this document, the following routine service checks should be performed by the operator or an authorised third party at intervals not exceeding twelve months.

- Check and ensure that the latch, deadbolt and locking rods are not blocked.
- The door must be tested for correct, smooth, and unimpeded opening and must not show any signs of warpage (max. 3 mm deformation toward the rebate).
- Ensure that all screws are tightened.
- Ensure that all locking elements engage completely and that the contact surfaces of the latch and striking plate and the locking bolts in the locking elements are well greased.
- Check to ensure that no additional (temporary or permanent) locking devices have been retrofitted on the door.

12 Accessories and matching components

12.1 Glutz striking plates

Product-#	Description	Area of application
B-1151.711.20	Milled in striking plate 21mm	Main striking plate
16020	Adjustable milled in striking plate 21 mm	Main striking plate
E-1151	Milled in striking plate for electric strikes 21 mm	Main striking plate
B-1153.720.20	Milled in striking plate BR 21 mm	Additional striking plate
B-1130	Boxed striking plate 20 mm	Main striking plate
16630	Adjustable boxed striking plate 20 mm	Main striking plate
E-1130	Boxed striking plate for electric strikes 20 mm	Main striking plate
B-1131	Boxed striking plate BR 20 mm	Additional striking plate
B-1132	Boxed striking plate BR/SHR 20 mm	Additional striking plate
B-1133	Boxed striking plate 24 mm	Main striking plate
16610	Adjustable boxed striking plate 24 mm	Main striking plate
16600	Boxed striking plate for electric strikes 24 mm	Main striking plate
B-1134	Boxed striking plate BR/SHR 24 mm	Additional striking plate
B-1138	Lip striking plate 24 mm	Main striking plate
16010	Adjustable lip striking plate 24 mm	Main striking plate
16000	Lip striking plate for electric strikes 24 mm	Main striking plate
B-1137	Lip striking plate BR/SHR 24 mm	Additional striking plate

12.2 Lever handle sets

There are no restrictions regarding lever handle sets, except that no reduction bushes are permitted for the lock follower/ square spindle.

12.3 Plates / Roses

Plates / Roses
<p>Round roses, oval roses, long plates, short plates, security plates (SECAPORT)</p> <p>With friction bearing or needle bearing, standard or twin version, as required</p> <p>Also, optionally available as flush-mounted version</p>

12.4 Locking cylinders

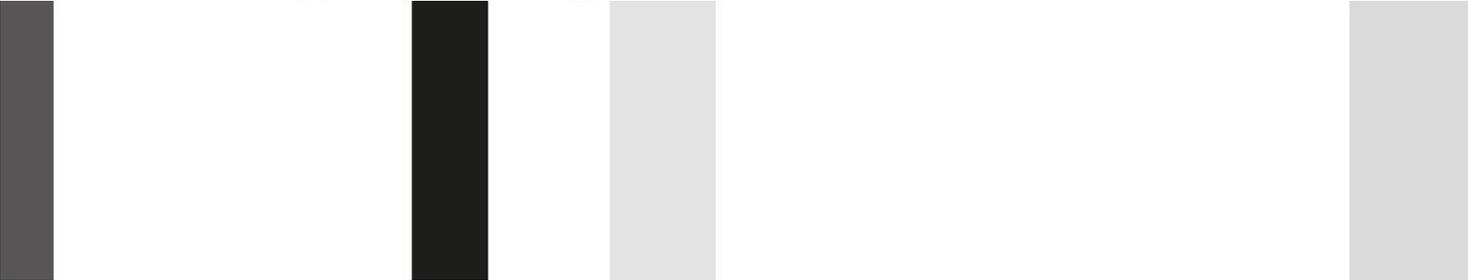
Locking cylinders with/without override function and dimensions in accordance with DIN 18252 and Swiss round cylinders in accordance with SN EN 1303 are suitable.

13 Disassembly, recycling, disposal

The materials in used in this product fulfil the RoHS guidelines.

The product packaging must be recycled and/or disposed of correctly.

The product must be disassembled and recycled correctly after its service life is over. Alternatively, you can return the product to Glutz.



Glutz AG

Segetzstrasse 13, 4502 Solothurn, Schweiz

Tel. +41 32 625 65 20, Fax +41 32 625 65 35

info@glutz.com, www.glutz.com

Glutz Deutschland GmbH

Schmalenhofer Strasse 61, 42551 Velbert, Deutschland

Tel. +49 2051 8013 51-0, Fax +49 2051 8013 51-15

info-de@glutz.com, www.glutz.com

Glutz GmbH Österreich

St. Oswaldstrasse 5c, 4293 Gutau, Österreich

Tel. +43 7946 20506, Fax +43 7946 20506-10

info-at@glutz.com, www.glutz.com

Glutz UK Ltd.

11 Finch Drive, Springwood Industrial Estate

Braintree CM7 2SF, United Kingdom

Tel. +44 1376 348 808, Fax +44 1376 348 848

info-uk@glutz.com, www.glutz.com