

Transport Locking System Z6043
Operating Instructions

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STRACK®
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Operating Instructions Transport Lock Z6043

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1. Explanation of symbols - intended use - important notes

Explanation of symbols



Important notes on safe use



A useful note on handling the product.
It points out possible difficulties.

Intended use

The „Z6043“Transport lock is used to lock two mould halves and thus prevent the injection mould from operating unintentionally during transport or installation and removal.

The mould half held by the transport lock must not be used for type Z6043-40-2T must not exceed 2000Kg and for the Z6043-50-10T 10000Kg.

Important notes

Surface quality:	Transport protection must be burr-free!
Corrosion Protection:	Paint finish to protect against acids and liquids
Coating and Colour:	Powder coating RAL 3001



The machine operator must ensure that these operating instructions are always available to the operating and maintenance personnel in an understandable language.

About the document:

The language of the original operating instructions is German. All other languages of these instructions are a prerequisite for the intended use and correct operation of the product. The operating instructions correspond to the design of the product and the status of the underlying safety and technical regulations and standards.

This declaration loses its validity in the event of technical modifications to the types of construction mentioned therein that have not been agreed with us or if the declarations made in the operating instructions regarding the safety of the product/personnel are disregarded. The types of transport locks are illustrated and described below.

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Improper use or use contrary to the points described in these operating instructions and the additional existing safety regulations relieves STRACK of any responsibility with regard to the safety of the elements cited here.

2. General principles for the use of this transport lock

The operating instructions must be kept in a safe place. The falling of loads caused by the failure and / or incorrect use and handling of the transport lock poses a direct risk to the life and health of persons in the danger zone of lifting operations.

These operating instructions contain information on the safe use and handling of the transport lock. Before using the transport safety device, the authorized persons must be instructed in its handling and use by a competent person.

The following always applies:

- The permissible load of the transport lock type Z6043-40-2T is designed for 2000 kg, type Z6043-50-10T for 10000 kg.



At least 2 transport locks must always be used.

- The transport lock is designed for locking two tool halves and for transporting them up to the maximum load capacity. Please note that that only moulds with guide elements must be used.
- The tools can also be turned with this transport lock.
- It is also calculated and approved for force application at 45° and 90°.
- Persons must never stand in the danger zone of the suspended load.
- The transport lock must never be modified without authorisation (e.g. grinding, welding, bending, attaching parts)!
- The transport lock must not be exposed to any unauthorised temperature influences (operating temperature +10 °C to +120 °C).
- Only original spare parts must be used.
- The transport lock must be stored in such a way that it is protected from damage and does not pose a hazard.
- In the event of faults, the transport lock must be removed from service immediately and replace it.

The transport protection device must be disposed of properly.



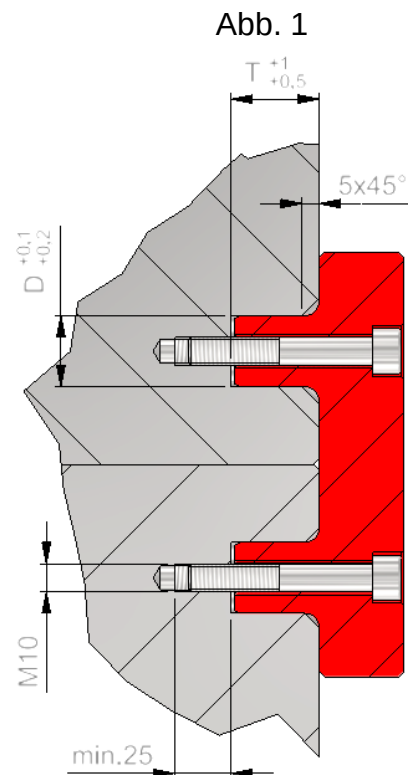
When lifting the tool, please ensure that the crane is positioned vertically above the tool so that the force is applied vertically. This is to avoid uncontrolled swinging of the lifted tool to prevent personal injury and/or damage to the transport safety device and its attachments!



The transport lock and cylinder head screw must be checked for damage when dismantled. The check should be carried out during every mould maintenance. Damaged components must be replaced. Please only use original spare parts!

3. Assembly instructions

1. insert the transport lock into the mould plates, the lock must rest on the mould plate. (Fig. 1)
2. Screw down the transport lock with cylinder head screw SN3500-M10-70 (cylinder head screw DIN EN ISO 4762-10.9)
3. The screw must be tightened to the tightening torque (70 Nm).
4. Observe the following when fastening the transport lock:
Tighten the cylinder head screw until it is flush with the contact surface.
Observe the tightening torques.



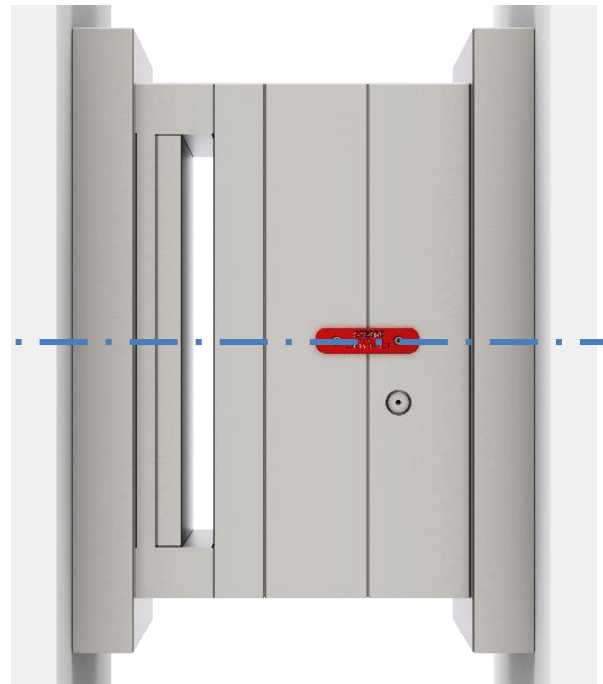
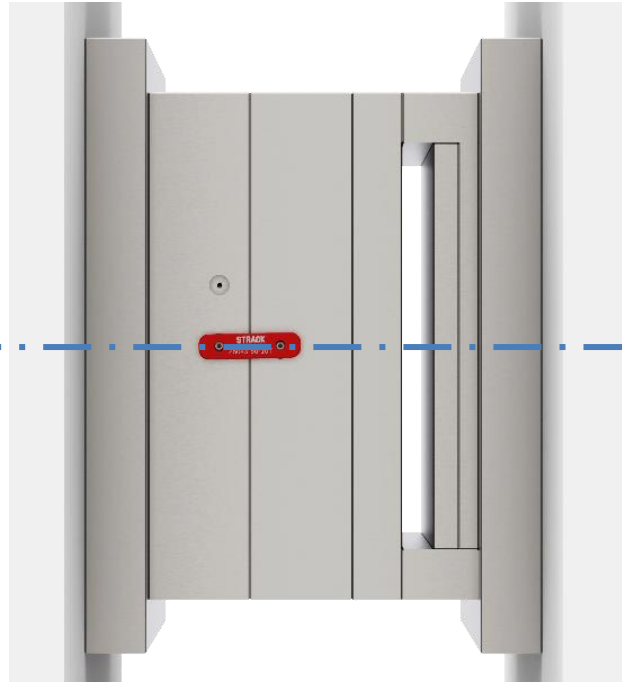
Check the correct screw size, thread size and screw-in length.
For blind holes, the thread depth must be at least 1.1-times the screw length.
The minimum screw-in length is:

- in steel $1.00 \times d$
- in cast iron $1.25 \times d$, for cast strengths $< 200 \text{ MPa}$ at least $1.50 \times d$
- in aluminium $2.00 \times d$
in aluminium-magnesium alloy $2.50 \times d$
(where d = thread size, e.g. for M 24 $d = 24 \text{ mm}$)

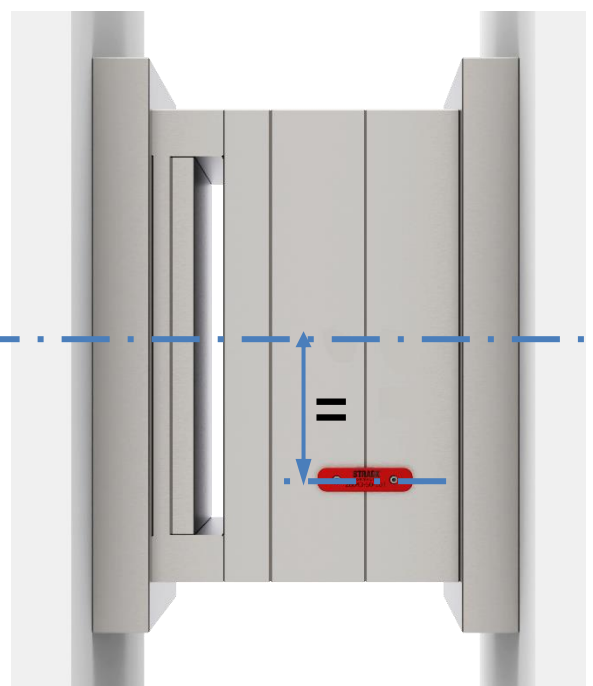
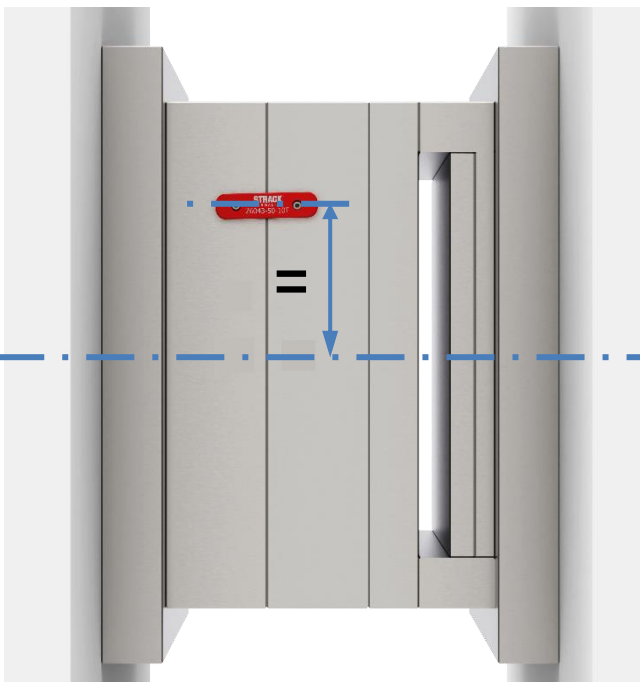
For central and off-center installation of the transport lock, please note that at least two transport elements are used per mould and are mounted as are mounted as shown.

Operator side

Opposite operator side



Central position on both sides (preferred position)



If no central position is possible, the distance to the axis must be kept the same on both sides and alternately offset.

The load capacities (Z1) in kg listed in the table below must not be exceeded.

Anschlagart Attachment types		
Anzahl der Anschlagpunkte min./ Number of lifting points min./		2
Tragfähigkeit / Loading capacity		Z1 max. / kg
Z6043-40-2T		2000
Z6043-50-10T		10000

4. Operation

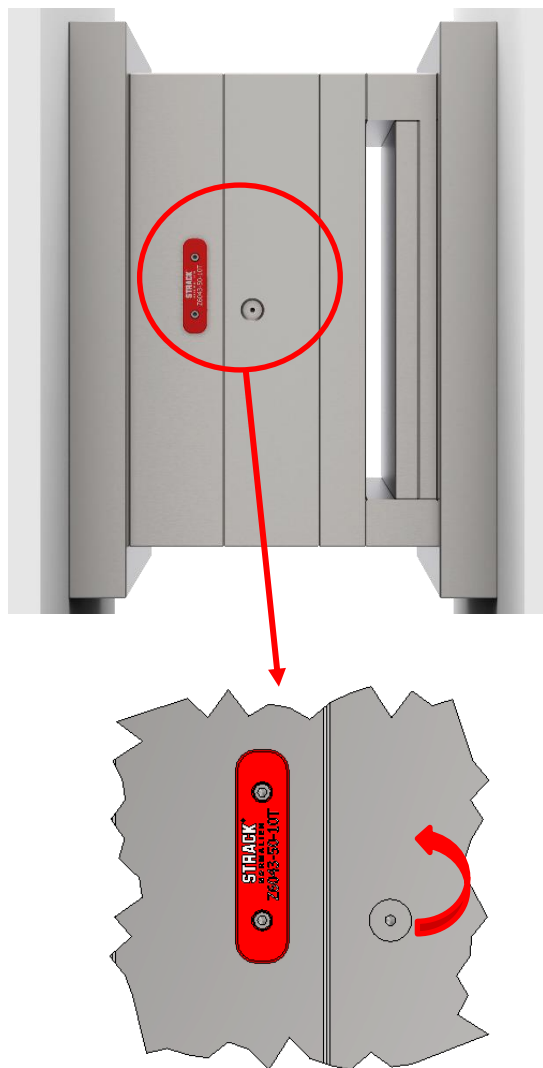


After installing the locked mould in the machine, the transport lock must be installed in the rest position before opening the mould! (see Fig. 1)

After completion of the work process, the tool is locked back into the machine by the transport lock and then removed.

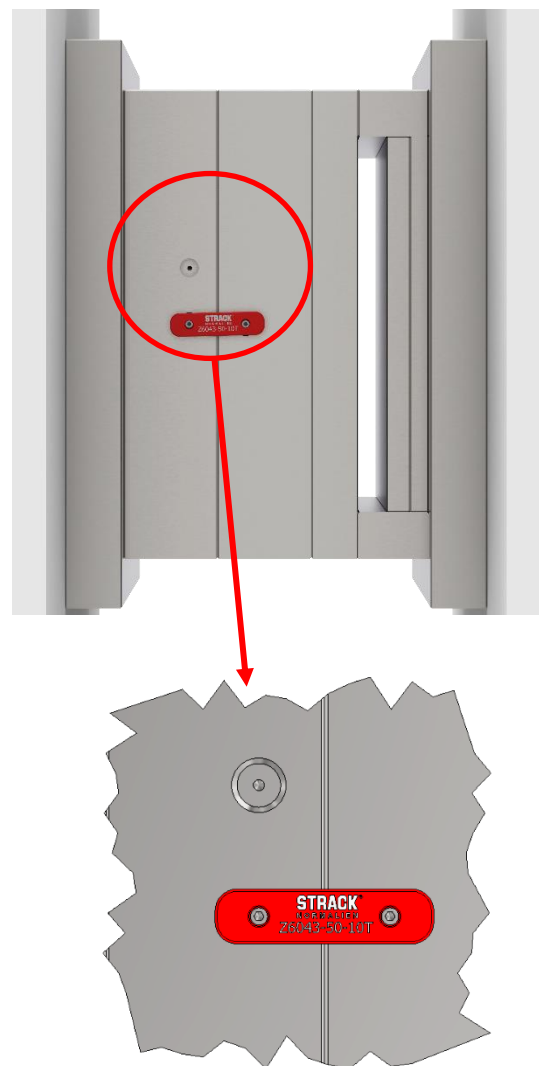
Before lifting the tool, make sure that the transport lock is in the secured transport position (both tool halves locked) (see Fig. 2)

Fig. 1



Z6043 in Operating position

Fig. 2



Z6043 in secured transport position

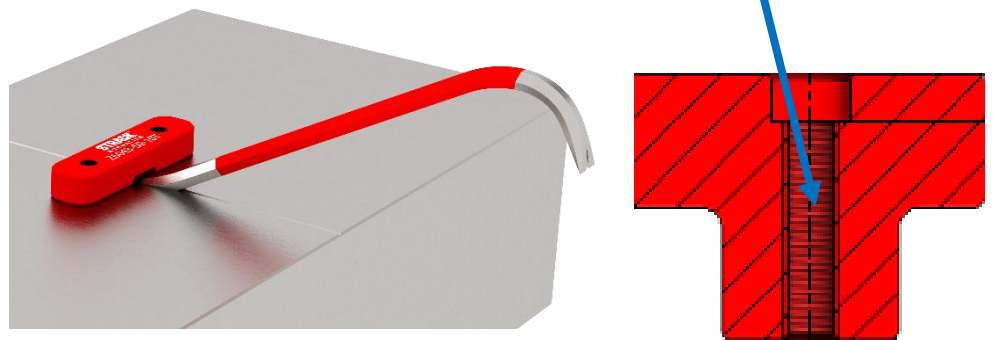
5. Disassembly

1. Loosen the cylinder head screw
2. remove the transport lock
3. Troggle levers can be used to support disassembly. (Fig. 1)
Cut-Outs facilitate handling.
4. The screw holes have a pull-out thread, which can be used to support disassembly. (Fig. 2)

Abb. 1



Abb. 2



6. Safety instructions

1. Read the complete operating instructions before using.
2. It must be ensured that the transport lock is fully in place and screwed on during use.
3. Persons must never stand in the danger zone of suspended loads.
4. The transport lock must never be modified without authorisation.
5. The transport lock must be stored in such a way that it does not pose a hazard.

7. Inspection and maintenance

To ensure the technical functionality of the transport lock, it must be ensured that the transport lock is not exposed to weather influences such as rain, snow, etc. or splash water, as the part is made of steel and oxidized surfaces may impair its function and safety.

The transport lock should be checked for damage or cracks before each use. If any damage is found on the base body, the transport lock must be retracted immediately and disposed of properly. The tool must then be secured against unsecured lifting.

The transport lock may only be screwed into undamaged mounting threads of the tool to be attached. Damaged threaded holes must no longer be used!

If wear or a malfunction is detected on the cylinder head screw or the transport lock, the transport lock must be serviced.

The parts must be checked in the disassembled state during every tool maintenance.



The transport lock and cylinder head screws must be checked for damage when disassembled. The check should be carried out during every mould maintenance. Damaged components must be replaced. Only use original spare parts.

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