



SILENT1

**HIGH SPEED
OVERHEAD DOOR**

USER MANUAL SILENT1

FAST

SILENT

**ENERGY
SAVING**

SUSTAINABLE

SAFE

The probably fastest and most silent high-speed overhead door on the market



ATTENTION! GENERAL WARNINGS!

To use, operate and service this overhead door safely, a number of precautions must be taken. For the safety of all concerned pay heed to the warnings and instructions given below! If in doubt, contact your supplier.

- ! This manual only describes the operation and servicing of an industrial overhead door. Probably it has to be supplemented with instructions for any additional components.
- ! Before starting, read this manual carefully.
- ! Certain components may be sharp or have jagged edges. As such you are advised to wear safety gloves.
- ! All the components which have been supplied are designed for use with this specific overhead door. Including additional components may have an adverse effect on the safety of, and the guarantee on, the door.
- ! Do not let children or other not-qualified persons operate this door. They can encounter severe danger during operation.
- ! All rights derived from this manual are reserved. Technical information is subject to change without notice.
- ! Your supplier has the obligation to “hand-over” this door conforming the local laws and demands. Check yourself if the needed CE-marks are placed on the door and if you have received the needed documents (CE-declarations).
- ! **AN OVERHEAD DOOR IS A HEAVY AND BIG MOVING OBJECT. FAULTY OPERATION, MALFUNCTIONING OR NON-CAREFULL TREATMENT CAN CAUSE SEVERE INJURIES OR DANGER!! IF SUBJECTS ARE NOT CLEARLY SPECIFIED IN THIS MANUAL, PLEASE CONTACT YOUR SUPPLIER! BE CAREFULL AT ALL TIMES WHEN USING THIS OVERHEAD DOOR.**

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ENTRAPMENT DANGER!

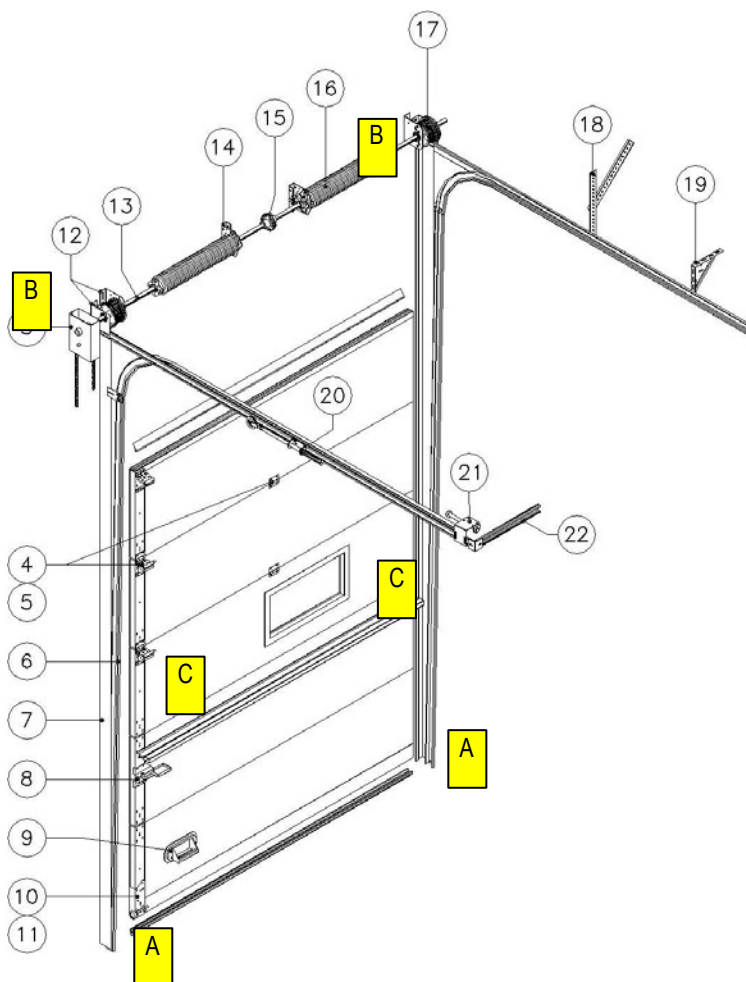


CUTTING DANGER!



**ATTENTION!
DANGER!**

USE OF TERMS AND WARNING SIGNS



- 3 Electrical operator
- 4 Side- and intermediate hinges
- 6 Running track (guidance)
- 7 Vertical angle
- 8 N.a.
- 9 N.a
- 10 Bottom bracket or cable break device
- 12 Bearing plates (shaft system)
- 13 Shaft (axle)
- 14 Balancing torsion springs
- 15 Coupler
- 16 Balancing torsion springs
- 17 Cable drums with lifting cable
- 18 Suspension to ceiling
- 19 Suspension to ceiling
- 20 Horizontal running track
- 21 Spring bumpers
- 22 Connection between hor. tracks

C



ATTENTION! SAFETY INSTRUCTIONS FOR THIS DOOR

Unsafe installation, service or use of this overhead door can cause serious danger or injuries.
Make sure this door is CE-marked!

For safety follow these instructions:

- A. Installation, maintenance or repairs can only be done by qualified and experienced overhead door mechanics!
- B. Before installing, repairing or servicing this door, the mechanic should read the installation manual. If there is no manual at the site, do not install, repair or service this door!
- C. Keep away from a moving door. A moving door is a large, heavy object and can cause serious danger or injuries!
- D. Children should not be allowed to operate this door!
- E. Always keep the door in sight when you operate it with use of a remote control system. People (children) or objects may stand in the way!
- F. Keep fingers away from the panels, tracks and other moving objects on this door!
Only use available handles to move the door manually!
- G. Make sure this door is inspected and maintained regularly.

B



DANGER!
TORSION SPRINGS
ARE UNDER EXTREME
TENSION!
DO NOT TRY TO
ADJUST, REPAIR OR
REMOVE THE
SPRINGS.
This can cause serious
danger and injuries.
Qualified mechanics:
Read the manual before
installation or repairs!

A



DANGER!
This bottom bracket is
under extreme
tension!
DO NOT TRY TO
REPAIR, REMOVE
OR ADJUST!
While this can cause
serious danger or
injuries, contact a
qualified mechanic!



1. USER APPLICATION

The overhead door is intended for the closure of an opening in a building. The overhead door may not be used for other purposes.

The overhead door is not intended for access by persons.

! Before carrying out work on the overhead door read this user handbook carefully!

The supplier is not responsible for any damage caused by improper use of the overhead door.

2. FUNCTIONAL PRINCIPLE

On each side of the door panels there are tracks to provide guidance. Above the door panel there is the transmission shaft with balancing springs, cable drums and spring breaking devices. The door panel is suspended from steel cables that wrap around the cable drums when the door is opened. The balancing springs ensure that the door panel can remain stationary in any position with manual power. The balancing springs are at maximum tension when the door is closed.



UNDER NO CIRCUMSTANCES DISASSEMBLE THE CABLE, CABLE DRUM OR BALANCING SPRINGS. THIS MUST BE DONE ONLY BY PROPERLY QUALIFIED PERSONNEL!

3. OPENING AND CLOSING



MAINTAIN WHEN OPENING AND CLOSING THE DOOR AT ALL TIMES THE DOOR IN SIGHT AND ENSURE THAT NO PERSONS OR OBJECTS ARE LOCATED IN THE DOOR OPENING OR IN THE VICINITY OF THE GUIDANCE SYSTEM!



UNDER NO CIRCUMSTANCES PLACE ANYTHING UNDER A POORLY BALANCED DOOR TO KEEP IT OPEN!

The opening and closing of the door is depending on the operating system with which the door is provided With an electrical operator

OPENING

Take the door by the handgrip and pull up. Raise the door with sufficient force that it can still be stopped by hand; do not « throw » it open.

CLOSING

Take the door by the handgrip or cord and pull it down.

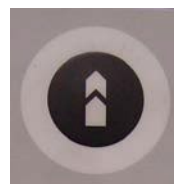


OPERATE THE DOOR ONLY BY THE HAND GRIP OR ROPE. OTHER PARTS ARE NOT SUITABLE FOR OPERATING THE DOOR!

3.1 Opening and closing with E-power operation

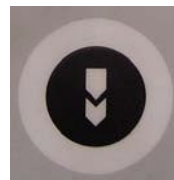
In this mode the shaft of the door (and therefore the door itself) is driven by an electric motor. The lifting cables are in this mode either rolled up or off, causing the door panel to be raised or lowered. Here is an abridged user instruction, while for more extensive instructions you are referred to user instructions for the electrical transmission.

3.1.1 Operation with button panel



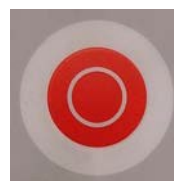
OPENING

Depressing the button on the operating panel will cause the door to open (move upward).



CLOSING

Depressing the button on the operating panel will cause the door to close (move downward).



STOPPING

Depressing the button on the operating panel will cause the door to stop (stay in position).

Depressing once more one of the buttons above will cause the door to move in the corresponding direction.

3.1.2 Disconnecting with emergency manual chain:

The manual chain of the electric motor is intended only for manual opening and closing of the door in the event of power failure or defective transmission. Switch off the mains power with the main switch.

Pull right on the chain : Door shut.

Pull left on the chain : Door open.

The emergency manual chain will return after use automatically to the neutral position.



AFTER POWER FAILURES OR RE-ENGAGEMENT OF THE CONTROLS THE DOOR SHOULD BE OPENED COMPLETELY ONCE!

3.2.2 Operation with hand transmitter (remote control)



THE HANDHELD TRANSMITTER CANNOT STOP THE DOOR, WHICH WILL COMPLETE THE MOVEMENT PROGRAMMED COMPLETELY NEVER OPERATE A DOOR WHEN THE DOOR IS NOT IN YOUR SIGHT! ! THERE CAN BE OBSTACLES OR PERSONS LOCATED IN THE DOOR OPENING!

OPENING

Depressing one of the programmed buttons of the handheld transmitter will cause the door to open.

CLOSING

Depressing one of the programmed buttons of the handheld transmitter will cause the door to close.

3.2 Opening and closing with chain hoist operation

In this mode the shaft of the door is driven by a chain hoist. The lifting cables are in this mode either rolled up or off, causing the door panel to be raised or lowered.

OPENING

Grip one side of the chain with both hands and pull down smoothly and the door will open. During movement alternate between left and right hand.

HOLD THE CHAIN SECURELY AT ALL TIMES WITH AT LEAST ONE HAND IN ORDER TO BE ABLE TO CONTROL THE MOVEMENT PROPERLY.
SECURE THE CHAIN AT ALL TIMES AFTER MOVEMENT IN THE CHAIN STOP.

CLOSING

Grip one side of the chain with both hands and pull down smoothly and the door will close. During movement alternate between left and right hand.

HOLD THE CHAIN SECURELY AT ALL TIMES WITH AT LEAST ONE HAND IN ORDER TO BE ABLE TO CONTROL THE MOVEMENT PROPERLY.

SECURE THE CHAIN AT ALL TIMES AFTER MOVEMENT IN THE CHAIN STOP.



THE CHAIN STOP IS NOT SUITABLE FOR SECURING AN UNBALANCED DOOR. WHEN THE DOOR IS OUT OF BALANCE IT REQUIRES THE ATTENTION OF A QUALIFIED FITTER TO CORRECT THIS PROBLEM!



A DOOR WITH A CHAIN TRANSMISSION MAY NOT BE OPERATED IN ANY OTHER WAY BECAUSE THE MOVING CHAIN MAY PRESENT A HAZARD!

4. LOCKING

When locking an overhead door with a shot bolt or a lock, please keep following recommendations in mind.

A locking device in combination with electrical operation should be fitted with a switch to prevent the transmission engaging when the door is locked. This will prevent damaging the operator or track system, and thus dangerous situations.

In order to close the door more easily you may place your foot in the handgrip and push the door downwards.

4.1 Lock bolt

A locking device allows the door to be locked from the inside.

4.2 External lock

An exterior lock allows the door to be locked both from inside and outside.

5. REPAIRS, MAINTENANCE, BREAKDOWNS

• General



It is wise and in Europe demanded by law to have your door serviced and inspected regularly (minimal 1x a year). As the Silent 1 is a high speed door 2 x a year is recommended. For your own safety, arrange a maintenance contract with

your qualified supplier or overhead door Maintenance Company.

Contact in the event of breakdowns your maintenance company. When annual maintenance is not carried out by a qualified company using original parts every entitlement to warranty will lapse.



REPARATION AND MAINTENANCE TO AN OVERHEAD DOOR, ESPECIALLY TO TORSION SPRINGS, CABLES, SAFETY DEVICES, OPERATOR AND DRUMS CAN ONLY BE DONE BY QUALIFIED MECHANICS!

Minor maintenance activities and inspections that you may carry out yourself:

- Check all nuts and bolts of the door panel and where necessary tighten them lightly.
- Lubricate bearings and bearing rollers with oil (SAE 20).
- Check the bearing rollers, the bearing roller spindles should be easy to turn when the door is closed. Where necessary adjust.
- Spray the surface of the rollers and the tracks with IDD-Parts oil.
- Check the cable. When the cable is damaged or hanging slack contact your maintenance company.
- Where necessary clean the guide tracks.
- Check the equilibrium (balancing) of the door, in the case of electrical operation first disconnecting the motor (see 3.2.1), when the door opening is approximately 1 m the door should remain suspended. When that is not the case contact your maintenance company.
- Check and clean bottom rubber, lateral seal and top rubber.
- Keep the door opening clean.
- In the case of electrical operation test regularly the setting of the automatic disengagement device (see user instructions motor).
- Lubricate spring bumpers and check for smooth operation.

Cables

Change steel cables every 15.000 cycles or 6 years, whatever comes first, or when they show signs of wear.

Cleaning exterior door panel.

The door may be cleaned with a cloth, water and neutral soap, for example car shampoo, and then rinsed with tap water.

Cleaning interior door panel.

Ensure that grease and oil are not removed from the rotating parts. No moisture may intrude into the electrical parts. Ensure that no moisture remains behind in hollow areas as this may cause corrosion.

Cleaning acrylate glass.

The windows may be cleaned with water and soap, using a soft cloth to avoid scratches. Dry cloth may cause scratching of the glass.

Aluminium profiles can be cleaned with «Eloxal » aluminium cleaner.



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6. DISMANTLING OF THE OVERHEAD DOOR



ATTENTION! WARNING!

To dismantle an existing overhead door, a number of precautions must be taken. For the safety of all concerned pay heed to the warnings and instructions given below! If in doubt, contact your supplier.

Dismantling should only be carried out by experienced fitters. This manual is not suitable for d.i.y. purposes or for use by trainee fitters.

This manual only describes the installation/dismantling of hardware for overhead doors and as such must be supplemented with instructions for any additional components.



CAUTION !

Torsion springs and bottom brackets are under high tension.

Exercise at all times great caution. Use properly fitting and maintained tension irons (see drawing).

STEP 1. Disconnect the electrical operator. Follow any instructions given in the separate manual of the operator.

STEP 2. De-tensioning the torsion spring(s)

Start dismantling of the door by closing the door and securing its movement with a clamp on the vertical track.

Use torQtool2 for releasing the tension of the springs or tension bars.

First the tension on the torsions springs and cable has to be released. Do this by following these instructions :

1. Insert the 1st tensioning iron fully into the tensioning aperture.
2. Take over the tension of the spring with this tensioning iron.
3. Loosen the bolts in the tensioning plug



and remove the key.

4. Turn the 1st tensioning iron in the direction required.
5. Insert the 2nd tensioning iron fully into the next tensioning aperture.
6. Take over the tensioning of the spring from the 1st tensioning iron with the 2nd tensioning iron.
7. Remove the 1st tensioning iron from the aperture.
8. Turn the 2nd tensioning iron a quarter turn in the direction required.
9. Insert the 1st tensioning iron fully into the tensioning aperture.
10. Take over the tensioning of the spring from the 2nd tensioning iron with the 1st tensioning iron.
11. Repeat steps 4 through 10 until all tension is released.
12. Remove the last tensioning iron.

STEP 3. Loosen the cable drums and remove the keys. Act carefully, there might be some tension left on the cable. Check if the cable is slack. Remove the cable by disconnecting it from the bottom bracket and cable drum.

STEP 4. Remove the panels one by one from the vertical track construction, starting with the top panel. Do this by loosening the hinges and rollers first.

STEP 5. Dismantle the horizontal track construction.

STEP 6. Remove the shaft construction from the lintel, after you have dismantled the E-operator from the shaft. If the shaft is divided and connected with a coupler, first disconnect the coupler and carefully remove both halves of the shaft system.



Attention ! Watch out for parts that might slide of the shaft, such as cable drums, bearings or keys.

STEP 7. Remove vertical tracks and angles from the building construction.

STEP 8. Make sure that you remove all the parts and panels in an environment kindly way. Check with your local authorities where and how you can leave this as carbage.

FOR ANY DETAILS ON THESE DISMANTLING INSTRUCTIONS, WE REFER TO THE INSTALLATION CHAPTERS OF THIS MANUAL WHERE DRAWINGS AND DETAILS ARE DISPLAYED.

TROUBLESHOOTING :

What should I check if the door is not balanced properly?

When a door is not well in balance, then it is necessary to check first the following details :

Is the given information correct :

- weight of the door leaf (including hardware)
- is the division of the weight equal on each panel, or are there panels with a different weight than the others, for instance by the application of different panels (glass, pass door with heavy profiles).

Were the correct parts supplied and fitted?

Especially the drums and springs are important:

- correct dimensions supplied ?

Is the door properly installed?

- horizontal tracks really horizontally and not with inclination.
- for High Lift doors : shaft on the correct height? Otherwise the cable length is not correct and the door is badly balanced.

Were modifications made afterwards ?

- check if any changes were made during the fitting, or if a pass door was fitted later, or any reinforcement profiles fitted etc.

WHAT TO DO AFTER SPRING BREAK OR CABLE BREAK?

NB! Also make sure to instruct the user about this!

After spring breaking the door will be stopped by the 670LH/RH or 675LH/RH spring break device. The end user must contact immediately a qualified overhead door mechanic. The spring breaking device is a so called "one-shot" device. After it has acted, it must be replaced, together with springs, spring pulgs, shafts and all other damaged components. The door has to be inspected thoroughly.

We refer to the separate manual for the 670/675 spring break devices on our website:

www.iddparts.net/technical-information.

After cable breaking, the door will be stopped by the second cable, which is designed to be strong enough to hold the weight of the door. Again, qualified overhead door mechanics must inspect the door and replace the cables and CBD or bottom brackets together with all possibly damaged components, such as: roller

carriers, rollers, etc. In case of a serious damage of the bottom panel and/ or end caps, these 2 components should be replaced as well. The determination if a component should be replaced is the responsibility of the installer. Please contact the supplier in case of any doubt.

The door should be inspected thoroughly after every accident to check if there are any other damages that should be repaired. For example, the following components must be replaced as well: hinges, track sets, construction of the left and right corner plate in case of LHR.