

INSTRUCTION MANUAL Elevation Stand S/MS 2010

ID: 807249

Important user information

Please read this entire manual to fully understand the safe and effective use of this product.

In case you have any comments about this manual we will appreciate receiving them at the address below.

Warranty and Liability

Jouan Nordic A/S guaranties that the product delivered has been thoroughly tested to ensure that it meets its published specifications. The warranty included in the conditions of delivery is valid only if the product has been installed and used in accordance with the instructions supplied by Jouan Nordic A/S.

Jouan Nordic A/S shall in no event be liable for incidental or consequential damages, including without limitation, lost profits, loss of income, loss of business opportunities, loss of use, and other related exposures, caused by e.g. incorrect use of the product.

Symbols used in this manual



WARNING

Used in case of danger of a serious accident or when documentation needs to be consulted.



NOTE

Used to direct attention to a special item.

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Enclosure: Declaration of conformity

1. Introduction

You are now in possession of a high quality Elevation Stand S/MS 2010, which is an option for the Holten Safe 2010 / Maxi Safe 2010 cabinets. The Elevation Stand S/MS 2010 applies the Safe and Maxi Safe cabinets as well, the only variations is the length of the rear plate.

The Elevation Stand complies with the General requirements stipulated in The Safety of machinery (EN 60204-1:1999), the Low voltage directive and the Electromagnetic comparability directive, and consequently CE-labelled. Furthermore the Elevation Stand meets the requirements stated in EN 12469:2000.

The Elevation Stand guarantees an accurate and individual working height in an working environment with more users, and at the same time each individual has the opportunity to alternate working posture between sitting or standing at the bench.

2. Safety precautions

- To avoid improper and unintended operation of the Elevation Stand it is recommended that the user read this manual thoroughly.
- Also please pay attention to the Instruction manual for the cabinet.



WARNING

The 120 kg maximum allowable weight in the cabinet must not be exceeded.



WARNING

Newer place objects above or under the cabinet, otherwise there is danger of squeezing the object or tilting the cabinet.



WARNING

When the elevation stand is activated the user shall pay attention to the fact that no person keep their hands or other parts of the body in the near of the movable cabinet.

3. Description and technical specifications

3.1. Design

The Elevation Stand for the Holten SAFE 2010/MAXI SAFE 2010 Class II cabinets consists of:

- High technical electric linear actuator system with control box and control panel.
- Quality linear control.
- A pair of gable stands, which harmonise with the rest of the cabinet design.
- Rear plate and strengthening plates, which help to secure stability.

3.2. Property of materials

Units	Material	Treatment	
Telescopic rail	Ball-bearing steel		
Gable	Electroplated steel	Polyester coated	
Rear plate	DC 01 AM / EN 10130	Polyester coated	
Foot	DC 01 AM / EN 10130	Polyester coated	
Actuator – piston rod	Stainless steel		
Actuator – cabinet	Glass fibre		



Safe 1.2 showing the Elevation Stand in floor position. Table height 700 mm \pm 20 mm.



Safe 1.2 Elevation Stand in top position. Table height 1000 mm ± 20 mm.

3.3. Technical specifications

Elevation stand for SAFE/MAXI SAFE 2010	Model 0.9	Model 1.2	Model 1.5	Model 1.8
Width	1036 mm	1336 mm	1636 mm	1936 mm
Depth	795 mm			
Minimum table height	700 ± 20 mm			
Maximum table height	1000 ± 20 mm			
Maximum cabinet height with out additional exhaust equipment	2250 mm			
Maximum ceiling height	2500 mm			
Migration	300 mm			
Weight	-	-	-	-
Maximum load of the table top	120 kg			
Rate/velocity	5.0 – 9.0 mm/s			
Supply Voltage/frequency	230 V AC ± 10 %, 50 Hz			
Maximum Power consumption	700 W			
Maximum Current consumption	3 A			
Required fusing	10 A			
Life time	10000 cycles			

4. Installation

4.1. Assembling

When buying the Elevation Stand separately as an option for a domestic bench, the mounting instructions in this manual has to be followed. If buying a new cabinet, the new cabinet comes with the Elevation Stand.

4.1.1. Assembling gable stands on the cabinet



- 1. The gable stands are mounted with three countersunk M8 screws on each side og te bench.
- 2. To cover the screw hole stands fit the holes on each side of the cabinet with three black stoppers.

4.1.2. Assembling the actuators

- 1. Connect the table switch to the control box.
- The actuators are connected to the control box to port one and two respectively.
- The control box is connected to the power switch.



2. Keep the strengthening plates to the gable stands in each side.



3. Install the actuators in the rail on the gable stands.



4. Tilt the actuators forward, both pointing **5.** towards the rail on the carrying plates.



Run the actuators backward in order to secure parallel operation and subsequently forward, until they are placed in the rail on the carrying plates. Avoid that the spindles revolve.

4.1.3. Assembling the strengthening plates





1. Pull the strengthening plates in both **2.** sides of the bench backwards.

Mount two M6-cheese head screws with washers in both sides of the bench.

4.1.4. Assembling the lock sheet

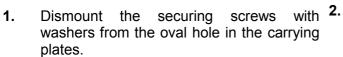




- **1.** Push the striking plates in between the actuators and the carrying plates.
- **2.** The two striking plates are griped with two M6-cheese head screws and washers.

4.1.5. Dismounting securing screws (important)







Place the securing screws with washers in the hole at the rear side of the gable stands.



3. Before assembling the securing screws, see that the cabinet is placed correctly in the right height so that the thread hole appears behind the oval hole in the carrying plates.

4.1.6. Assembling the rear plate



- 1. The rear plate is installed on the gable stands with five M4 pan head machine screws on each side.
- 2. Secure the strengthening plates, each plate with two M5 pan head machine screws with not, by means of which the long cable rail is installed as well (see section 4.1.7).

4.1.7. Assembling control panel and wires





- 1. Run the wire for the table switch following the edge on the trough and fasten the wire with strips so that the wire don't incur damage or squeezing when the Elevation Stand is running up/down.
- 2. The sustain-plate is fastening with two M4 pan head machine screws and subsequently the table switch is installed on the sustain-plate with two M3 pan head machine screws.



3. As shown cable rails hide the wires. The long cable rail is installed on the four pan head machine screws, which keep the strengthening plates to the rear plate. The short cable rail is pasted on the rear plate.

4.2. Transport through passage narrower than 900 mm

When buying the Elevation Stand together with a new cabinet, it can be necessary to tilt the cabinet 10 $^{\circ}$ if the cabinet has to be transported through a passageway that is narrower than 900 mm.

4.2.1.Safe 2010

In terms of a Safe 2010 cabinet and a passageway < 900 mm the instructions in section 4.1.1 to 4.1.6 in this manual has to be followed in reversed order. Hereafter refers to section 6.1 in the Instruction manual for Safe / Maxi Safe 2010.

4.2.2. Maxi Safe 2010

When tilting a Maxi Safe 2010 with Elevation Stand, the actuators has to be dismounted at the top connection while the securing screws are mounted as described in section 4.1.5. When the actuators are dismounted they have to be lowered in order to give space for the cabinet to tilt. Tilt the Safe 2010 following section 6.1 in the Instruction manual for Safe 2010/Maxi Safe 2010.

4.3. Preparations before use

Checking list



WARNING

Before applications make sure that the securing screws from the transport of the cabinet is removed.

- Connect the Elevation Stand to the socket (~ 230 V).
- Pull down the cabinet until bottom position in order to make sure that the actuators run parallel.

- Make sure that the bench is stable on all four feet and that the cabinet is in level.
- Check that all external connections are flexible.
- Inspect that no mains wire or other connections to the cabinet are being stretched.
- Run the cabinet to top position in order to make sure that the cabinet can run freely from bottom to top position. Minimum height to the ceiling is 2.5 m counting for a cabinet without extra equipment mounted on top.

5. Control panel



Operation

Keep pushing the arrow button to the wanted altitude has been reached.

Keys:

- î Moving up

6. Maintenance

6.1. Replacement of actuators

The actuator carries a 10000 strokes guarantee. The system with one actuator in each side of the bench will prevent it from collapsing in case one actuator gets worn out. The user will in case of abrasion have the possibility to run the cabinet downward at the bottom-position.



NOTE

Avoid if possible to run the cabinet right down to the floor, it will easier the replacement of the actuators. The mounting of the actuators is carried out in reverse order.

The actuators are replaced by following the instructions for dismounting the old actuators in the mounting guidance in section 4.1.6 to 4.1.2. Installation of the new actuators is done in reverse order.

NOTE



If the cabinet is in floor position it is not possible to mount the regulating screws and furthermore the actuators can not run free of the carrying plates. Therefore the steps are as follows:

1. The bench is lifted up 50 mm, by adjusting the regulating screws on the stand feet.

- **2.** Support the cabinet in this position.
- **3.** Loosen and free the actuators by using the regulating screws at the stand to lower gable stands.
- **4.** Mount the new actuators in reverse order.

7. Spare parts

Components	Jouan Nordic No.
Electric actuator	86004514
Controller box for actuator	86004515
Keyboard for actuator	86004516

DC 81-113 Revision 1



We:

Jouan Nordic A/S Gydevang 17-19, DK-3450 Allerød Denmark

declare under our sole responsibility that the product

Model: Holten Elevation Stand S/MS 2010

to which this declaration relates is in conformity with the following standard(s) or other normative document(s):

EN 292-1:1991 - Safety of machinery.

Basic concepts - General principles for design.
(Basic terminology, methodology).

EN 292-2:1991 - Safety of machinery.

Basic concepts - General principles for design.

(Technical principles and specifications).

EN 61010-1: 2001 - Safety requirement for electrical equipment for measurement, control and laboratory use.

(General requirements).

EN 61000-6-3:2001 and EN 61000-6-1:2001 - Electromagnetic compatibility. (Generic emission / immunity standard - Residential, commercial and light industry).

EN 61000-3-2:2001/A1: 1998 - Electromagnetic compatibility (EMC) – Part 3-2:Limits for harmonic current emissions (equipment input current up to and including 16 A per phase)

EN 61000-3-3:1995 Electromagnetic compatibility (EMC) - Part 3-2: Limits - Limits for harmonic emissions.

EN 60601-1+A1, A2 and A13: 1996 Medical electrical equipment - Part 1: General requirements for safety.

EN 1050:1996 - Safety of machinery. (Principles for risk assessment).

following the provisions of:

Directive 98/37/EEC Machinery

Directive 73/23/EEC Low voltage

Directive 89/336/EEC Electromagnetic compatibility

Jan Bøger, Managing Director

Allerød, 2003.10.29