

# FROMM

## SEMI – AUTOMATIC Stretch Wrapping Machine SERVICE MANUAL FS15x V01/V02-V03-EN03\_R03

SERVICE MANUAL FS150 / ORIGINAL MANUAL© 12/16



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Dear Customer,

We would like to thank you for purchasing our machine. In this manual we would like to draw your attention on the technical features and quality of the machine you have purchased.

Our machines are guaranteed to work at an maximum efficiency, only if original spare parts are used and only if work and repair on the machines has been carried out by our own specialist staff. We advise you, therefore, to entrust all maintenance work on the MANUFACTURER machine EXCLUSIVELY to our technical assistance and spare parts service department. In fact, if any maintenance work on manufacturer machine is carried out by non-authorized personnel, or if any NON-ORIGINAL spare- / replacement parts are used, all the manufacturer guarantees, technical assistance and obligations will be nullified immediately. We believe that you will understand the importance of the condition stated above. From a technical point of view, it is our primary aim to protect our customers from negative experiences.

This INSTRUCTION MANUAL is your guide to the INSTALLATION/USE and MAINTENANCE of the machine you have purchased. We advise you to follow all the instructions and suggestions in the manual with great care, as the efficient operation and long life of the machine depends on its correct use and on the methodical application of the maintenance regulations described later on.

We point out that, if any difficulties arise, our INTERNATIONAL CUSTOMER ASSISTANCE SERVICE is entirely at your service for explanations or call-outs. If needed you can reach us by sending an English E-mail to: [service@fromm-stretch.com](mailto:service@fromm-stretch.com). Your question will be answered directly by us, or forwarded to one of our service hubs in the area for which the service request has been done. Obviously you can also take a direct contact with the supplier of your machine.

The MANUFACTURER, declines all responsibility for any incorrect usage of the machine or inadequate maintenance work. The INSTRUCTIONS MANUAL is to be considered as an integral part of the product. Keep and look after this Manual throughout the whole lifecycle of the machine. The MANUFACTURER reserves the right to make modifications for the improvement of his machines, without giving prior notice.

Make sure that any amendments are added to the manual. Hand this Manual on to any other users or subsequent owners of the machine. When using the manual, take care not to damage its contents, either wholly or partial. On no account parts of this manual should be removed, torn out or rewritten. Keep the manual in places which are protected from dampness and heat. Look at the cover of the manual to identify the model dealt with now in your possession. Look at the INDEX to find the CHAPTER or SECTION containing all the notes on a specific subject.

The intention of all the INSTRUCTIONS AND/OR NOTES ON THE PRODUCT is to point out the safety precautions, correct procedures and operational instructions required for the efficient operation of the machine. The SPAREPARTSLIST supplied with the delivery is an integral part of the manual, it contains technical information on the acquired components mounted on the machine. Each page is marked with the Document code (On the inner side the top left and right side)

We wish you all the best results with our machine and we remain at your service.

We take this occasion to send you our best regards.

Fromm Stretch Wrapping Division  
ITALY

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**BE Opgelet!**

Leest U in elk geval de gebruiksaanwijzing, vooraleer de machine wordt opgesteld, geïnstalleerd en in gebruik genomen wordt. Daardoor zorgt U voor Uw eigen veiligheid en vermijdt U schade aan Uw machine.

**DE Achtung!**

Lesen Sie unbedingt die Gebrauchsanweisung vor Aufstellung-Installation-Inbetriebnahme. Dadurch schützen Sie sich und vermeiden Schäden an Ihrem Apparat.

**DK OBS!**

De bør absolut læse bruganvisningen, inden maskinen opstilles, installeres og tages i brug. Derved beskytter De Dem selv og undgår skader på maskinen.

**ES Atención!**

Resulta imprescindible leer las Instrucciones de manejo antes de proceder al Emplazamiento/ Instalacion/Puesta en servicio del aparato, con objeto de protegerse a si mismo y evitar el deterioro de la máquina debido a un manejo incorrecto.

**FR Attention!**

Lisez impérativement le mode d'emploi avant l'installation/la mise en service. Vous vous protégerez ainsi et éviterez des détériorations sur votre appareil.

**GB Important!**

Read the operating instructions carefully before installation and before using this machine for the first time.

You will avoid the risk of causing harm to yourself or to your machine in this way.

**GR Προσοχή!**

Πρίν την εγκατάσταση, σύνδεση και αρχική λειτουργία της συσκευής διαβάστε προσεκτικά τις οδηγίες χρήσης.

Έτσι προστατεύετε τον εαυτό σας και αποφεύγετε πιθανές βλάβες συσκευής.

**IT Attenzione!**

Leggere assolutamente le istruzioni d'uso prima di procedere alla posizionatura, installazione, messa in funzione della macchina. Questo per proteggere la incolumità dell'operatore e danni all'apparecchio.

**NO NB!**

De må lese bruksanvisningen før oppstilling, installasjon og start av maskinen! Gjør det for å unngå skade på Dem selv og maskinen.

**NL Let op!**

Lees beslist de gebruiksaanwijzing voor het plaatsen, installeren en in gebruik nemen van uw machine. Dat is veiliger voor Uzelf en U voorkomt onnodige schade aan Uw machine.

**PL Ważne!**

Przed instalacją maszyny, bądź przed przystąpieniem do pracy z maszyną po raz pierwszy, należy dokładnie przeczytać i zapoznać się z niniejszą instrukcją obsługi.

W ten sposób uniknie się ryzyka mogącego spowodować uraz ciała bądź uszkodzenie maszyny.

**PT Atenção!**

Leia as instruções de utilização antes da montagem - instalação e - primeira utilização. Assim evita avarias no aparelho.

**SE OBS!**

Läs bruksanvisningen noga före uppställning, installation och användning. Ni förebygger därmed olycksrisker och undviker skador på maskinen.

**FI Huomio!**

Tutustukaa huolellisesti käyttöohjeeseen ennen laitteen asennusta ja käyttöönottoa.

Näin välttytte mahdollisilta vahingoilta käyttäessä konetta.

**MACHINE MAKE - UP**

Article number 

32.4	3			.			
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Serial number 

		.					
--	--	---	--	--	--	--	--

Manufactured by 

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Delivered by 



 Delivery date

**GROUPS**

**OPERATING PANEL**

- |         |                                     |   |
|---------|-------------------------------------|---|
| 16.8411 | OP1 /Quadro1 FS110                  | <table border="1" style="width: 100%; height: 20px;"></table> |
| 16.8412 | OP2 /Quadro2 FS130                  | <table border="1" style="width: 100%; height: 20px;"></table> |
| 16.8413 | OP2 - AWP / Operating panel 2 - AWP | <table border="1" style="width: 100%; height: 20px;"></table> |

**TURNTABLE**

- |         |  |   |
|---------|--|---|
| 16.8421 | Turntable diameter Ø1500mm / 1.200kg*                | <table border="1" style="width: 100%; height: 20px;"></table> |
| 16.8422 | Turntable diameter Ø1650mm / 1.350kg*                | <table border="1" style="width: 100%; height: 20px;"></table> |
| 16.8423 | Turntable diameter Ø1650mm / 2.000kg*                | <table border="1" style="width: 100%; height: 20px;"></table> |
| 16.8424 | Turntable diameter Ø1500mm / 1.250kg*, HS right side | <table border="1" style="width: 100%; height: 20px;"></table> |
| 16.8425 | Turntable diameter Ø1500mm / 1.250kg*, HS left side  | <table border="1" style="width: 100%; height: 20px;"></table> |

\*NOTE!! KG refers to maximal loading capacity on the turntable

**MAST**

- |         |  |   |
|---------|--|---|
| 16.8431 | Mast 2.100mm / 2.000mm + 100mm (Overlap) | <table border="1" style="width: 100%; height: 20px;"></table> |
| 16.8432 | Mast 2.500mm / 2.400mm + 100mm (Overlap) | <table border="1" style="width: 100%; height: 20px;"></table> |

**CARRIAGE**

16.8440	Carriage 0 / Mechanical film-core tension
16.8441	Carriage 1 / Mechanical film-core tension
16.8442	Carriage 2 / Mechanical break-roll tension
16.8443	Carriage 3 / Mechanical break-rollers pre-stretch
16.8444	Carriage 4 / Magnetic tension


**VARIATION**

16.8451	Gearbox fixed position
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**OPTIONS**

16.8280	Ramp turntable Ø1.500mm, length 1.449mm, width 990mm, 1.350kg*
16.8465	Ramp turntable Ø1.650mm, length 1.449mm, width 990mm, 1.350kg*
16.8211	Ramp turntable Ø1.650mm, length 1.550mm, width 1.000mm, 1.500kg*
16.8462	Pit-option for table 1.500mm – FS1xx series
16.8463	Pit-option for table 1.650mm – FS1xx series
N5.2638	Photocell for black film
N5.2651	Photocell for black products


**\*NOTE!!**

Ramps KG refers to maximal loading capacity on the ramp

## GENERAL

The FS1 "CENTO" machine is an semi-automatic pallet wrapping machine.  
The operator has to place the pallet on top of the turntable and connect the film on the pallet.

The tension or stretch can be adjusted on the operating panel or carriage.  
Depending on the functionality of the machine, the operator can start the wrapping process or initially he has to setup the wrapping cycle, speed of turntable and carriage.

The process will be activated by pressing the start button. After completing the cycle, the machine will stop in his original start position, the film can be disconnected and the operator can take away the pallet from the turntable.

- This manual is only intended for a semi-automatic pallet stretch wrapping machine, mentioned at page one, as delivered by FROMM Stretch Wrapping Division.
- FOR EVERYTHING IN THIS MANUAL IS VALID, IF APPLIED!
- THE ORIGINAL, SIGNED FACTORY MANUAL HAS TO REMAIN CLOSE TO THE MACHINE, TOGETHER WITH THE MACHINE ELECTRICAL PLAN AND INVERTER MANUALS.  
A special bracket FS3.0250 can be purchase to keep this documentation together.
- This so-called turntable machine can be build into the floor.  
A support frame for building the machine in the floor can be supplied as an option.
- Pre- stretching (Stretching out) the film prior to application on the goods reduces the costs of packaging and is easier on the environment. (Available pre stretch depends on the model)
- Refer to chapter for the technical data, which describes the installation in detail and for the complete size of the installation.
- Read carefully at least the chapters **HANDELING AND TRANSPORT** and **INSTALLATION**.
- For safety reasons the entire instruction manual should be read before setting in operation the machine/installation, solving failures and executing maintenance.
- We particularly draw your attention to the chapters **SAFETY INSTRUCTIONS** and **WARNINGS** which point out the intended use and unsafe situations that could not be prevented in the design and manufacture of the wrapping machine.
- It is strictly prohibited to tamper with the machine It is prohibited to feed the machine with unforeseen, corrosive or inflammable products since the machine is not the explosion-proof type.
- The duration of guarantee is provided the following are observed: the use for which the machine was designed, built and protected, in addition to recommendations, information - including matters of general knowledge - details plus the safety and health technical limits notified to by the Manufacturer to the User by virtue of the operating use.
- We cannot accept any claim for warranty if non-original spare parts are utilized.
- If the machine is used beyond its operating limits and if the manufacturer's features are altered in any way, such use is considered **improper**. In this case **MANUFACTURER** is relieved of any liability for injury/damage caused to people/property due to failure to comply with these guidelines.
- For all the aforementioned reasons, we recommend that our customers always notify the Service Department.

## SAFETY INSTRUCTIONS



### ATTENTION!

***The following conditions have always to be satisfied, unless otherwise indicated in other instructions in this manual.***

- This wrapping machine has been delivered by FROMM Stretch Wrapping Division and may only be applied for wrapping of pallets / products which meet the requirements as mentioned in the description of the machine in chapter TECHNICAL DATA.  
Any other use of the machine as for the described purpose may cause danger due to damage to the machine and/or the safety of the operator or other persons in the neighbourhood of the machine.
- Read this manual carefully before using the machine, and be aware of the residuals risks which could not be excluded during the development of this machine.
- In any case all the components must be disposed of by scrupulously complying with the corresponding laws in force in the country in which the machine is used, and only by qualified persons who are capable of assessing possible risks.
- Only personnel trained for the purpose may operate the machine.
- Use the emergency stop to halt the machine immediately.
- Only trained electricians may perform electrical work on the machine.
- Don't find yourself close to the carriage when the machine is in operation. Be careful especially in the lowering phase of the carriage. (Use the emergency stop to halt the machine immediately).
- Don't find yourself near the turntable when the machine is in operation. (Use the emergency stop to halt the machine immediately).
- Don't touch the pallet when the machine is in operation. (Use the emergency stop to halt the machine immediately).
- Don't place or insert your hand and fingers between mast and carriage. (Use the emergency stop to halt the machine immediately).
- Don't put your hand or fingers in the mast. (Use the emergency stop to halt the machine immediately).
- Don't put your hand or fingers near the wheels for the carriage movement. (Use the emergency stop to halt the machine immediately).
- Don't put your hand or fingers in the electrical box. (Use the emergency stop to halt the machine immediately).
- Don't cross the space between the mast and turntable. (Use the emergency stop to halt the machine immediately).
- Don't put your finger in the space between the turntable and the base-unit. (Use the emergency stop to halt the machine immediately).

## SAFETY INSTRUCTIONS



- When installing the machine, as a precaution, always check that the controls and safety systems are correctly mounted and operating efficiently. If any malfunctions are noted, immediately stop the production cycle and ask the authorized technical service to intervene.
- Examine the data-plates. If they are in poor condition, replace them with utmost urgency, strictly and directly contacting the authorized technical service or the Manufacturer
- The requirements, as mentioned in chapter **MAINTENANCE INSTRUCTIONS** should be satisfied during adjustment and maintenance activities.
- People should not step on to means of transport, unless indicated clearly otherwise.
- People should not find themselves above the means of transport.
- Do not place tools and components on the machine.
- Safety devices should not be bridged and put out of operation.
- The manufacturer will only make the machine ready for operation, when the electrical main connection satisfies the standards applicable in the country of delivery.
- The supplier will do the training of the operating personnel. If not, the training will have to be done properly by the company that takes care of the installation.
- The machines are designed and implemented conforming to the safety laws in force. Consequently, no intrinsic fire risks are envisaged when the machine is used normally.
- As such, the equipment provided against the possibility of **fire outbreaks** inside the company are sufficient for any problems caused by the material used for the process.
- In the event a fire breaks out and fire extinguishers are used, it is recommended that extinguishers filled only with CO2 be used, so as not to damage both the equipment on the machine and the wiring system.
- In the event of **flooding**, it is compulsory that all the power supplies be disconnected before entering the room in which the machine is installed.
- In the event the wrapping machine was subjected to a flooding, contact the Customer technical service of MANUFACTURER.
- You are strictly recommended not to work in the machine while wearing unsuitable clothing (unbuttoned, ample garments) or personal objects (bracelets, watches, rings, etc.).

## SAFETY DEVICES



**We urge on you again that all safety devices are installed for the safety of the operator etc. and should not be bridged and put out of operation.**

Refer to the drawing below for the applied references.

Survey control panel

	<p>A = Acoustic signal                  B = Emergency stop                  C= Main switch                  Light On, when the power is On</p>	<p>C = Main switch</p> <p>The main supply (1x230V) is switched on and off with the main switch.                  The supply voltage for the control part (24VAC) is thus equally switched on and off.</p>
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<p>E = potential meter for film tension.</p>	<p>E = Adjustment FILM Tension.                  (Only when the machine has been equipped with film carriage 4)</p>
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<p>G = crush-proof guard</p>	<p>This is a entrance safety guard, interlocked by means of Photocell sensor and reflector.                  Any time underlying foreign matter comes between this guard, it inverts the film carriage's motion and causes the turntable to stop in emergency.</p>
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## WARNINGS

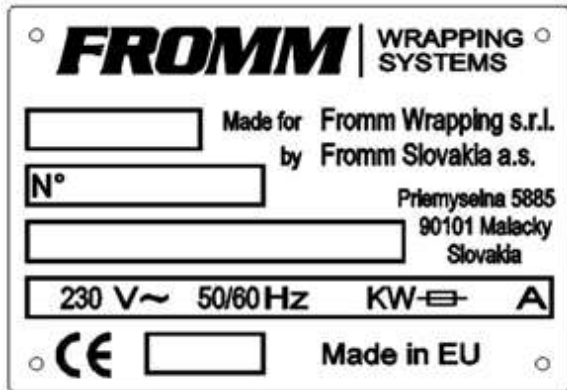
- The mean weighed noise level of the machine is less than 80 dBa. It is possible that, depending on the applied film, during wrapping of the pallets / products incidentally a noise level with a maximum of 80 dBa will be measured. Carrying of noise protecting devices is advised.
- One has to reckon with the possibility that the film (roll) contains an electrostatic charge.
- Utmost caution has to be taken with respect to the complete electrical installation. ONLY trained persons may carry out activities to it, after having taken the required safety measures as mentioned in the chapter **SAFETY INSTRUCTIONS**.
- One has to reckon with the European safety requirements and standards if the machine has to be adapted and thus safety measures or protection covers also have to be adapted.
- Touching the electrical equipment will hazard your personal safety.
- Persons who carry out changes in or adaptations (function, operation or principles) to the machine are fully responsible for those changes and/or adaptations.
- All relevant safety measures should be taken when carrying out any activity on the machine, especially during maintenance activities and solving failures.  
Take care that the main switch is switched off (position "0") and locked (If possible), or that the power cable is disconnected in order to prevent other persons in putting in action the machine during your activities.  
All the normally valid safety measures or customs with respect to safety should also be taken during those activities.
- Playing with or around the machine may cause dangerous situations with a machine in operation. This playing is never allowed!



- All other prescriptions and laws with respect to working conditions and safety on the working spot should be observed with this machine.
- An acoustic signal device has been installed in the control cabinet, which will be activated first during a short period, as a warning every time before the machine is starting.

## IDENTIFICATION PLATE

The serial identification plate with the following information is affixed to the back of the column.



<b>Name of manufacturer</b>	: FROMM Slovakia a.s.
<b>Type</b>	: Machine Type.
<b>Serial number</b>	: Manufacturer's production number
<b>Voltage</b>	: Power supply voltage.
<b>Power</b>	: Power consumption
<b>Fuse</b>	: 10 Amp
<b>Year of manufacture</b>	: year in which the machine was built by the manufacturer

Furthermore, the identification plate shows the CE mark:

CE mark

The machine meets the applicable requirements as provided for in the EC machinery directives:

**2006/42/EC (Directive)**  
**2004/108/EC (Electromagnetic compatibility)**  
**2006/95/EC (Low voltage)**

- It is strictly forbidden to remove the identification plate or to replace it with one that is similar or of a different type.
- If the identification plate should become damaged for any reason, immediately contact the MANUFACTURER.



**TECHNICAL DATA**

<b>Stretch-film</b>	- LLDPE Material	Max 35 µ / 0,000138"
	- Spool core diameter	76 mm / 3"
	- Outer diameter of spool	Max. 250mm / 9,84"
	- Film width	Max. 500mm / 19,69"
<b>Colors</b>	- Bottom unit, mast	: Blue, RAL 5010
	- Turntable disk	: Yellow, RAL 1021
	- Chassis film carriage	: Yellow, RAL 1021
	- Control cabinet	: Grey, RAL 7035

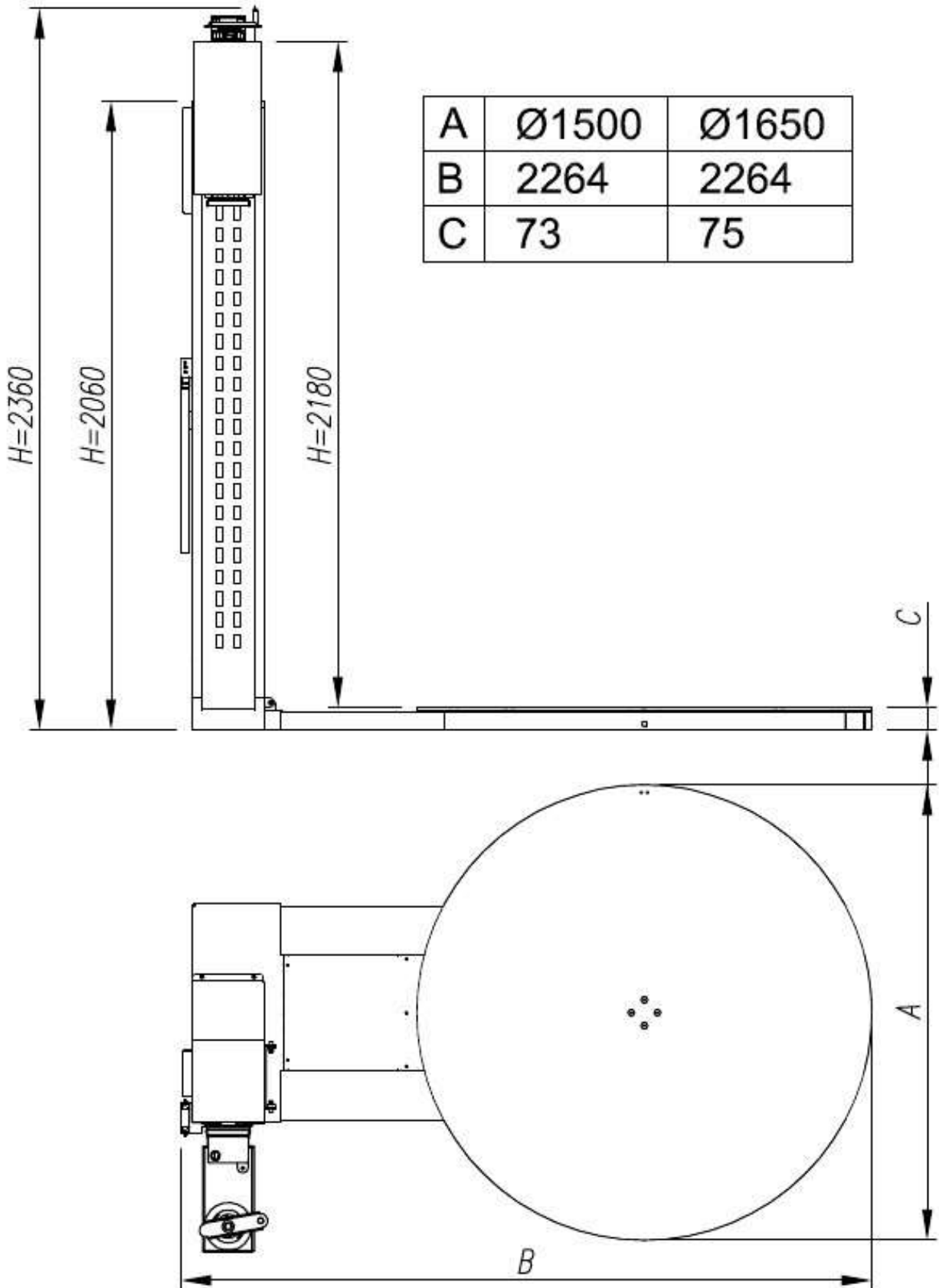
Should the need arise to work with products having a different nature than the above mentioned ones. It is essential that you contact the technical service of MANUFACTURER in order to receive written authorization.



**WARNING : do not use film thicker than 35 microns without consulting the Manufacturer**

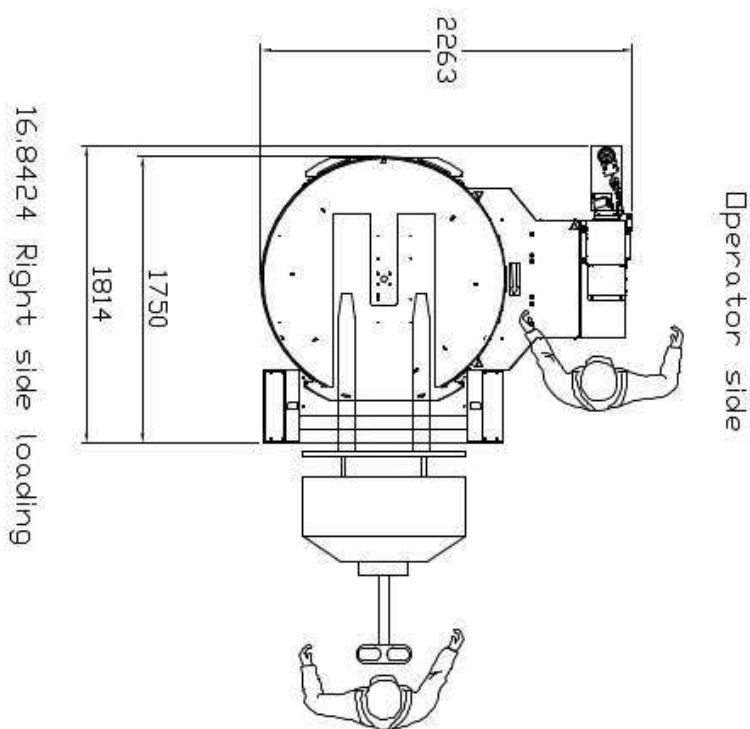
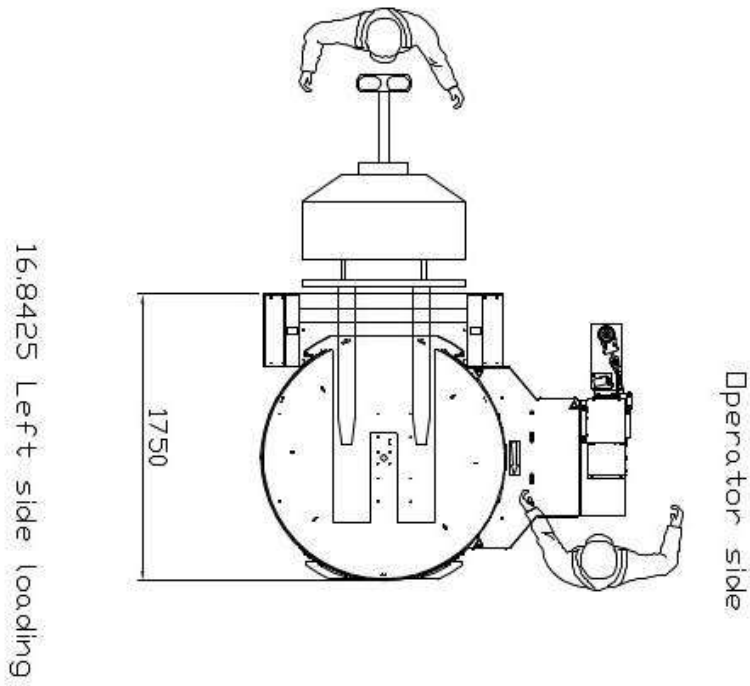
### DIMENSIONS

Refer to the LAYOUT on this page for the dimensions.



## DIMENSIONS







Refer to the LAYOUT on this page for the dimensions.




## EXPLANATION OF PICTOGRAMS

**ATTENTION!!** (FOR EVERYTHING IS VALID, IF APPLIED!)








### WARNINGS

 Fig. 1	Figure 1:  DANGER High voltage present.
 Fig. 2	Figure 2:  Danger Sign
 Fig. 3	Figure 3:  Risk of crushing one's hands
 Fig. 4	Figure 4:  Risk of crushing hands and feet
 Fig. 5	Figure 5:  Falling hazard
 Fig. 6	Figure 6:  Sharp objects



### COMMAND PLATES

 Fig. 7	Figure 7:  It is prohibited to pass by within the lifting equipment's ray of action
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## EXPLANATION OF PICTOGRAMS

 <p>Fig. 8</p>	<p>Figure 8: Do not use bare flames and do not smoke</p>
 <p>Fig. 9</p>	<p>Figure 9: Don't access the area while the machine is working</p>
 <p>Fig. 10</p>	<p>Figure 10: Don't remove the SAFETY DEVICES</p>
 <p>Fig. 11</p>	<p>Figure 11: Don't execute any work before taking off the voltage of the machine</p>
 <p>Fig. 12</p>	<p>Figure 12: Truck insertions</p>
 <p>Fig. 13</p>	<p>Figure 13: Lifting points</p>
 <p>Fig. 14</p>	<p>Figure 14: This identifies situations in which <b>THE SUPPLIER</b> must be contacted</p>

**EXPLANATION OF PICTOGRAMS**

 Fig. 15	Figure 15: Very important guidelines that must strictly be complied with. Otherwise machine operators could be at risk, the consequence of which would be the voiding of any form of warranty and liability on behalf of <b>FROMM PACKAGING SYSTEMS</b> .
 Fig. 16	Figure 16: Operations that must never be performed.

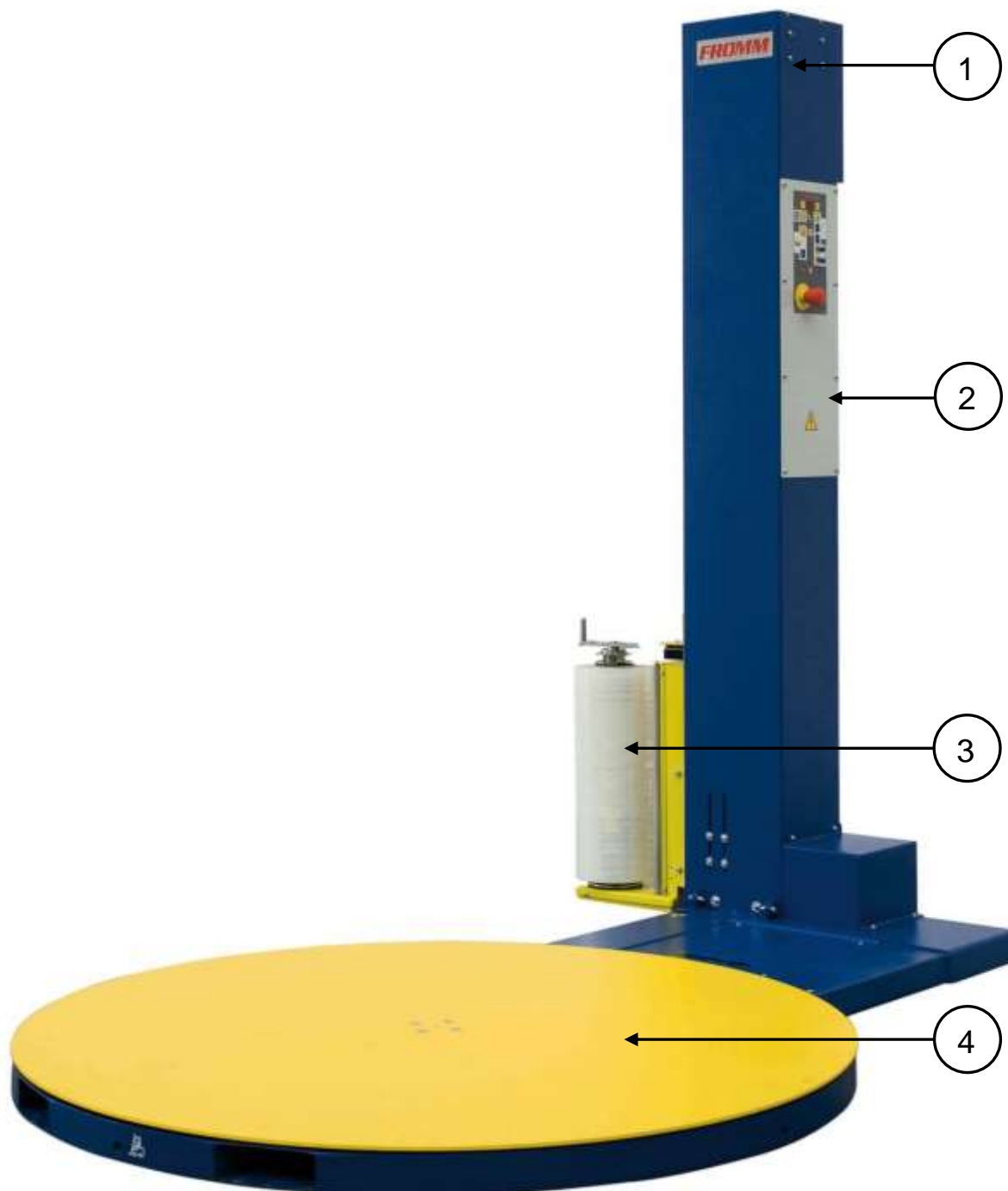
CE-MARK

 Fig. 17	Figure 17: Machine fulfils the applied requirements as mentioned in the CE-machine directives.
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## MAIN COMPONENTS

The installation as delivered, consists of the following parts:

- 1- Mast
- 2- Control cabinet with control panel
- 3- Film carriage
- 4- Turntable



**HANDLING & TRANSPORT****ATTENTION!**

All mentioned activities may only be executed under supervision of qualified personnel from the manufacturer or his representatives!

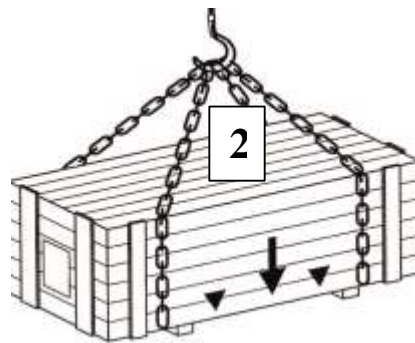
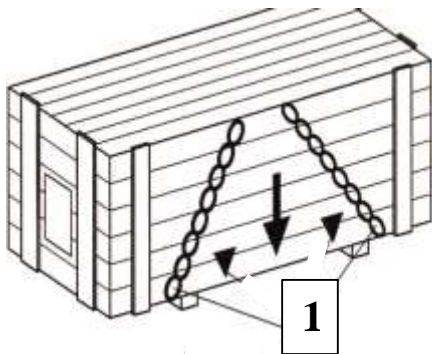
Pay attention that proper hoisting and lifting tools are used for handling of the machine.

The machine is supplied in a wooden crate insulated by plastic air bubble film. It is advisable that two another operators be in attendance on the ground when the machine is moved by means of the mechanical equipment driven by the operator in charge since the size of the machine may prevent a clear view during the various phases of the handling operations.

Depending on weight, dimensions, location of machine on the vehicle, available installation space lifting methods and points suitable for the operations described below must be used, fully observing the current safety and health laws and the Manufacturer's recommendations.

Lifting and handling of packing in a wooden crate by crane

- use a crane and sling of sufficient strength
  - bring the vehicle near to the lifting pallet
  - pass the sling (and/or ropes - chains) around the case in the positions indicated by the external markings (1);
- First check that the case - sling/hook (2) are well secured, then carefully lift the case and place it in the designated area, moving it gently.



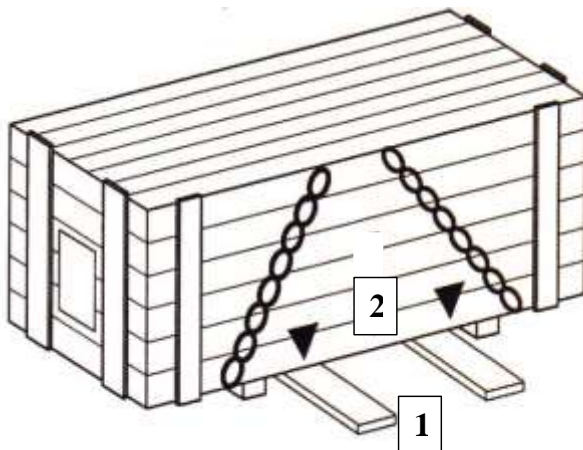
## Lifting and handling of packing in a wooden crate by fork-lift truck



Lifting and transport must be affected by a fork-lift truck suitable to bear the weight of the machine, its accessories and packing.

Always check in advance that sufficient space is available for the operations.

- slide the forks (1) of the truck under the casals support base, in line with the indicator-marks printed (2).
- lift the load after ensuring it is stable, and transport it to the area in which packing is to be removed, avoiding jerks and dangerous cambers.



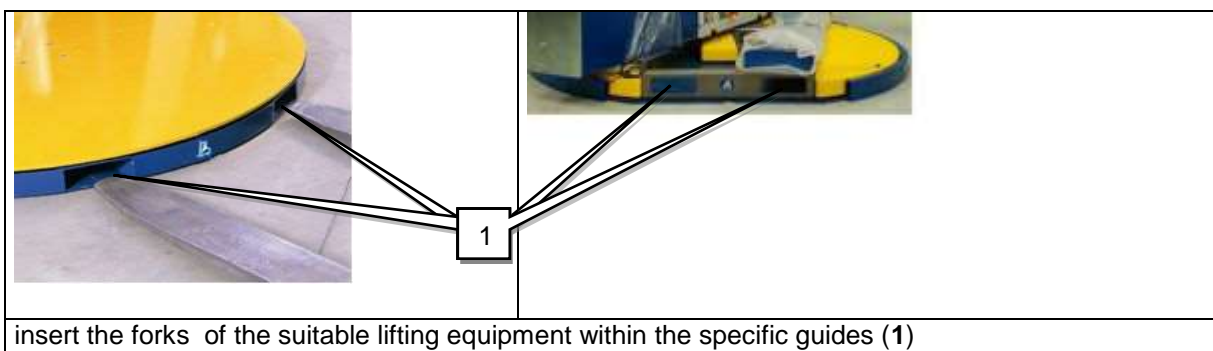
Following measures have to be taken for transport and storage of the machine:

- One has to take care for a suitable storage environment respectively packaging during long-term storage.

Drag bands etc., if used, in order to attach several parts may never be tightened over vulnerable parts, such as control panel, ventilation grills, etc.).

## Handling the unpacked machine

Should any machine components be shipped together with the machine, handle them adopting all safety precautions.



## Machine storage

The machine and any components packed together with it are protected by a plastic covering that does not guarantee long storage times.

**The machine must never be stacked nor is it capable of supporting external loads.**

**INSTALLATION INSTRUCTION****ATTENTION!**

All mentioned activities may only be executed under supervision of qualified personnel from the manufacturer or his representatives!

Refer to pictures in **INSTALLATION INSTRUCTION** mentioned position numbers.

**General guideline**

Always check in advance that the minimum conditions for machine placing and operation are observed, in particular: ambient conditions (suitable floor), temperature, humidity, lighting and suitability of the designated area.

Installation in rooms subject to the risks of flooding, explosion and fire is strictly forbidden.

The area necessary for installation of the wrapping machine is the area according to the dimensions on the layout plus enough space for installing and working on the machine.

Installation must be executed by qualified personnel, directly coordinated by the authorized Technical Service, fully observing the instructions that follow, in addition to current safety and health laws.

As a precaution, always check for any damage caused during transport and handling work. If necessary, contact the Manufacturer directly.

**Temperature**

For safety make sure the machine is operating at ambient temperature in the range +5°C to +30°C. If other values are measured, contact the Authorized Technical Service with utmost urgency.

**Work areas**

It is strictly forbidden to locate and/or use the machine if the ambient conditions are liable to cause risks of explosion or inflammable.

Ensure that the following are not present: dust concentration, gas, dangerous fumes and particles, electrostatic fields, excessive electro-magnetic flow, or anything else that might be harmful to persons so exposed or to the efficient running of the machine.

In any event, observe the current safety and health laws.

The machine should be placed on a flat, rigid, vibration-free concrete floor

Never access the high parts of the machine improperly.

**Energy sources**

The client must provide a cable suited for the required supply voltage up to the control cabinet, of which the diameter of the conductors can manage the total of the required power as mentioned in chapter **TECHNICAL DATA**

The wrapping machine should preferably be connected to the customer's supply voltage wall socket with a connecting cable with a standard CEE-plug, being fused with a 16A-fuse (slow).

For the correct plug check chapter **TECHNICAL DATA**

A main switch preceding the plug has to be provided by the customer, if necessary.

The mains supply must satisfy the applicable standards, such as permitted voltage fluctuations, ripple-generation, reduction of high harmonics, etc.

## INSTALLATION INSTRUCTION



### ATTENTION!

All mentioned activities may only be executed under supervision of qualified personnel from the manufacturer or his representatives!

FOR EVERYTHING IS VALID: IF APPLIED!










**Due to shipping requirements, the shaft (1) is usually shipped horizontally and bears on a support that has been specifically set up for it. Consequently the shaft must be re-positioned when the machine is installed.**

- Upon having located the machine, lift the shaft (1) by turning it around the fulcrum shaft that has been specifically setup and then locate the shaft upright as compared to the turntable
- Secure the shaft vertically to the relative plate with the 4 screws (Figure 2)
- Place the motor cabinet over the motor and secure with screws (Figure 2 & 3)



### ASSEMBLY SEQUENCE



1. Check the functionality of the MAIN SWITCH (Fig. 1)		
 Fig. 1		
2. Check the functionality of the EMERGENCY SWITCH (Fig. 1)		
 Fig 1.		
3. Check the functionality of the transport belt for the carriage 4. Check the knitting of the transport belt for the carriage		
		
5. Check the functionality of the safety device of the base (Only for 1.650mm Turntables)		
		
6. Check the functionality of the MOVEMENT of the CARRIAGE (Fig 1 / 2 / 3)		
 Fig 1 / Manual movement	 Fig 2 / Movement UP	 Fig 3 / Movement DOWN

**ASSEMBLY SEQUENCE**



7. Check the functionality of the proximity at the top of the mast, which limits the top position of the carriage and the micro switch at the bottom of the mast executing the same function (Fig. 1 & 2)

<p>Fig. 1</p>	<p>Fig. 2</p>	
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8. Check the functionality of the PHOTOCELL (Fig. 1 & 2)

<p>Fig. 1</p>	<p>Fig. 2 16.8440 – V01</p>	<p>Fig. 2 16.8440 – V02</p>
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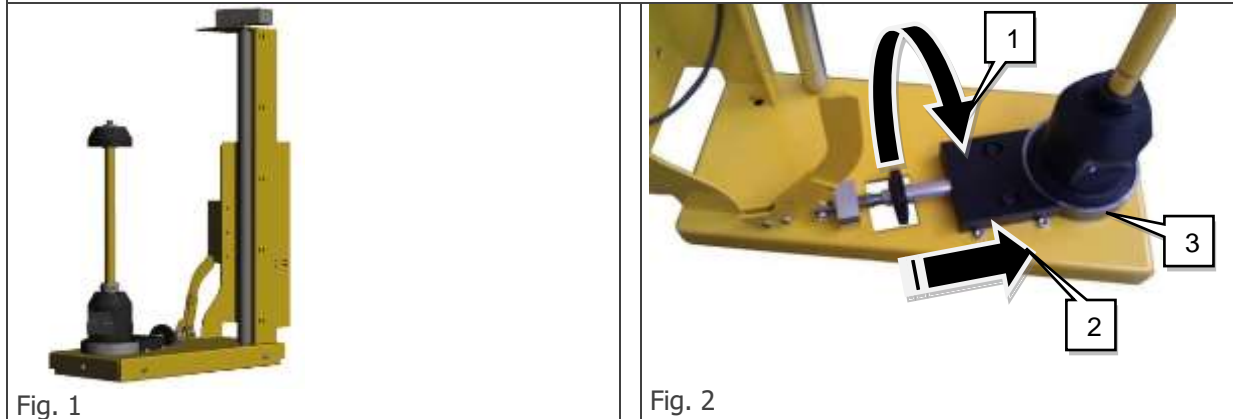
9. Check the functionality of the brake system 16.8440- V01 (Fig. 1)

<p>Fig. 1</p>	
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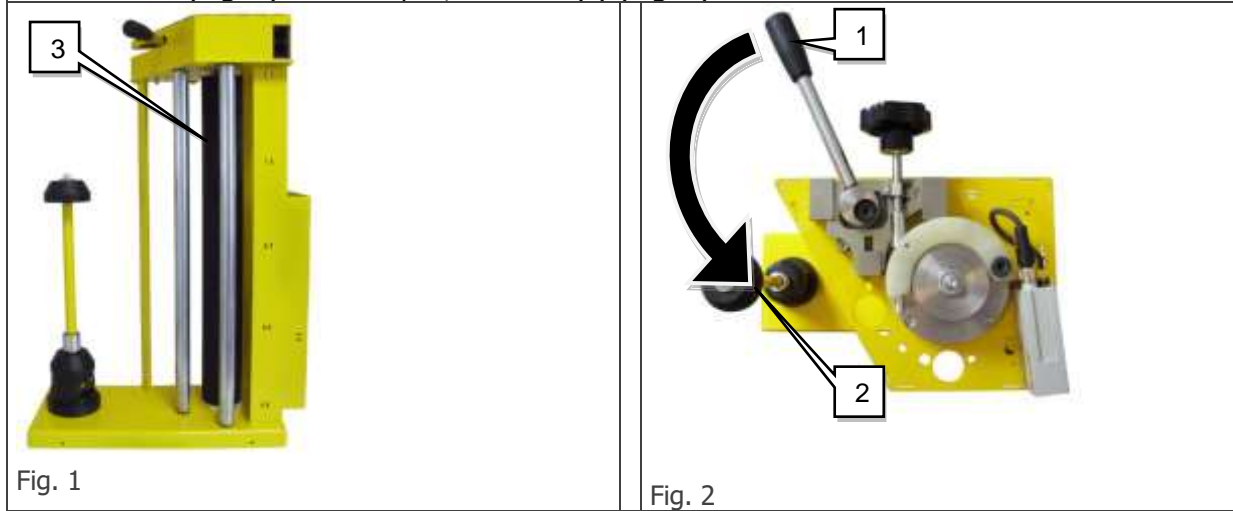
**ASSEMBLY SEQUENCE**



10. Check the functionality of the BRAKE SYSTEM 16.8440- V02 (Fig. 1 / 2)
- Movement wheel is direction of the arrow (1) (**Fig. 2**) creates more film tension. Friction plate (2) (**Fig. 2**) is pressed against metal disk (3) (**Fig. 2**)



11. Check the functionality of the BRAKE SYSTEM Carriage 2 (Fig. 1 / 2)
- Position 1 (**Fig. 2**) – Brake closed, black roll (3) (**Fig. 1**) is blocked
  - Position 2 (**Fig. 2**) – Brake open, black roll (3) (**Fig. 1**) runs free



**ASSEMBLY SEQUENCE**



12. Check the functionality of the **POTENTIAL METER CARRIAGE 4 - 16.8663** (Fig. 1 / 2 / 3)

<p>Fig. 1 Break at value 1 to 2 (Black roll is free)</p>	<p>Fig. 2 Break at value 8 to 9 (Black roll is blocked)</p>	<p>Fig. 3 Break at value 3 to 7 (Black roll slipping)</p>
<p><b>All settings are subject to the quality of film. Thus with higher or lower quality of film variations of the settings is completely normal. We advise to use the machine with the settings as explained in Figure 3. (6/7)</b></p>		

13. Check the functionality of the BRAKE SYSTEM Carriage 4 (Fig. 1 / 2 / 3)

- Position 1 (**Fig. 3**) – Brake closed, black roll (3) (**Fig. 1**) is blocked
- Position 9 (**Fig. 3**) – Brake open, black roll (3) (**Fig. 1**) runs free



<p>Fig. 1</p>	<p>Fig. 2</p>	<p>Fig. 3</p>


14. Check the functionality of the safety device horse shoe (**Fig. 1**)



<p>Fig. 1</p>	<p>Fig. 2</p>	
<ul style="list-style-type: none"> <li>- Place a product or mechanical block in front of the photocell (1). <b>Fig. 1</b>. (The machine should not start.)</li> <li>- Start the machine and while rotating place mechanical block at position 2. (<b>Fig. 2</b>) The machine should stop in emergency, and stops rotating.</li> </ul>		

**ASSEMBLY SEQUENCE**






15. Check the functionality of the MOVEMENT of the TURNTABLE (Fig. 1 / 2)		
		
Fig. 1 / Manual movement	Fig. 2 / Movement JOG	

16. Check the functionality of the RESET of the MACHINE (Fig. 1)		
		
Fig. 1 / Reset function		

17. Check the functionality of the proximity sensor for bottom / top-wraps and zero position (Fig. 1)		
		
Fig. 1		

**ELECTRICAL CABINET**

18. Check the functionality of the terminal / over-current / circuit breakers (Fig. 1 & 2)		
		
Fig. 1 Carriage	Fig. 2 Turntable	

**ASSEMBLY SEQUENCE****ATTENTION!**

After the first installation

Follow procedure below before starting the machine

- Control if the emergency button is free;
- Turn on the machine;
- Press the reset button;
- Wait 5 seconds and then make the first rotation in manual mode;
- If the turntable rotates, follow procedure below.

After installation or maintenance of the machine follow procedure below to check the efficiency of the safety devices, such as:

- ✓ **Interlocking of the safety belt interlocked operator guard**
- ✓ **Emergency button**

*Check for the efficiency of the mobile interlocked safety belt of the carriage*

- start the machine
- trigger the interlocked operator guard

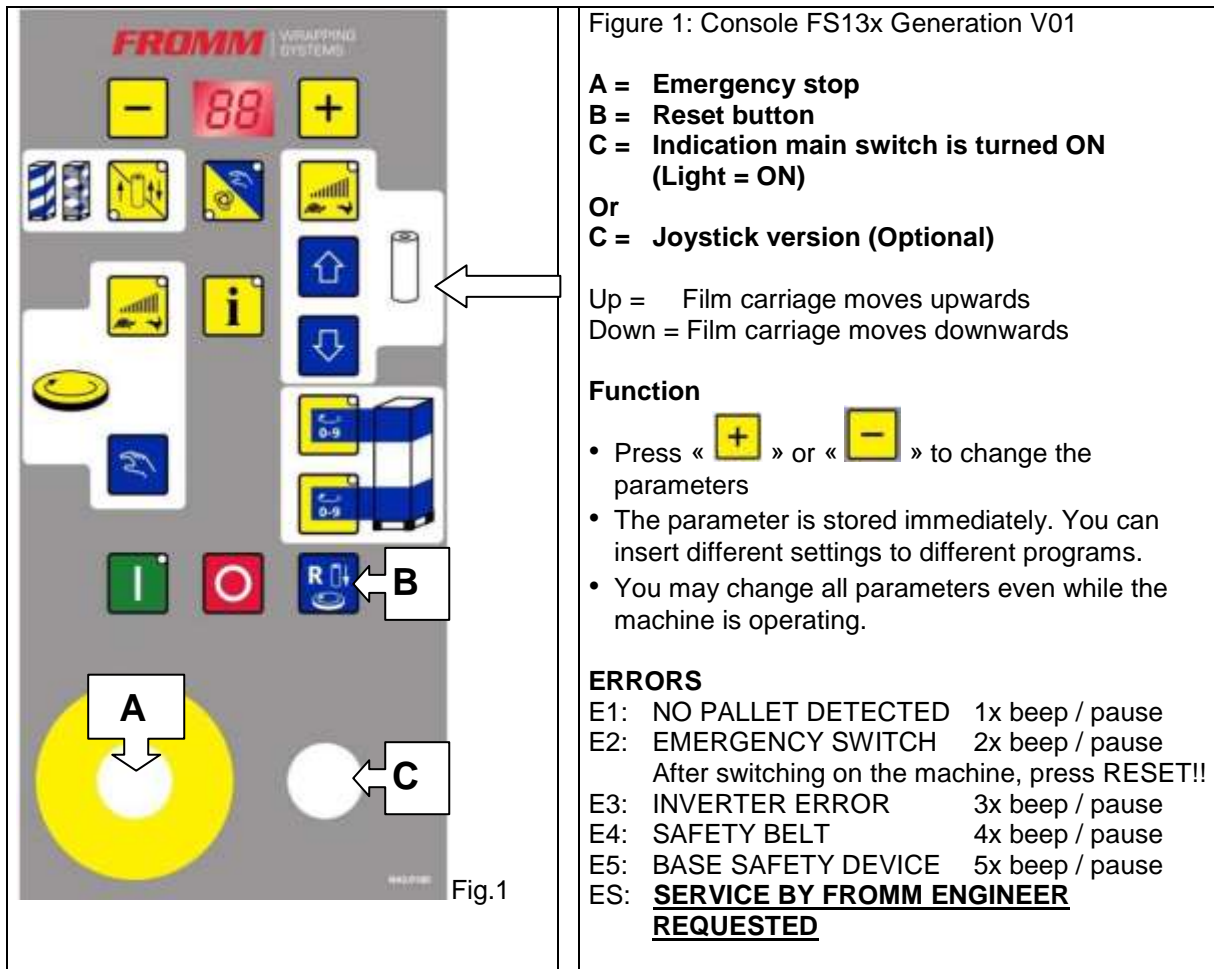
**Check that the carriage inverts its running direction for approximately 3 seconds and that the turntable starts slowing down and stops within a few seconds.**

*Check for the efficiency of the mushroom-head button (Emergency stop)*

- start the machine
- press the emergency mushroom-head button

**Check that the machine stops within a few seconds.**


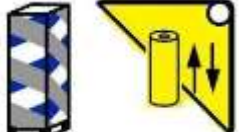

## CONTROL PANEL

**ALARM RESET**


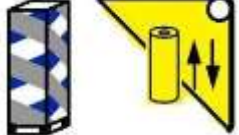
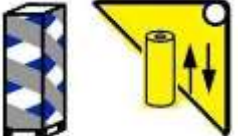

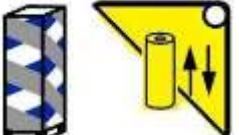
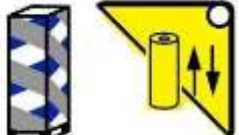
Clear the fault, push the **RESET** button if it is necessary to restart the cycle.  
 During the failure the machine will repeatedly beep until the fault is cleared.  
The relay inside the cabinet will make a clicking noise.

## CONTROL PANEL



Main operating mode selection (Small light on, indicates the selected function)

	<b>Automatic / Manual mode</b>		
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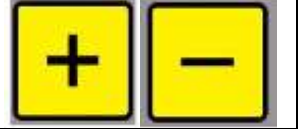


Selector for automatic program's A (Programs with a double wrapping cycle)

	<b>Double wrapping wrapping ascent / descent</b> <b>A1</b> <b>UP / DOWN</b>		<b>Double wrapping wrapping ascent / descent</b> <b>A4</b> <b>UP / DOWN</b> <b>+TOPSHEET</b>
	<b>Double wrapping wrapping ascent / descent</b> <b>A2</b> <b>UP / DOWN</b>		<b>Double wrapping wrapping ascent / descent</b> <b>A5</b> <b>UP / DOWN</b> <b>+TOPSHEET</b>
	<b>Double wrapping wrapping ascent / descent</b> <b>A3</b> <b>UP / DOWN</b>		<b>Double wrapping wrapping ascent / descent</b> <b>A6</b> <b>UP / DOWN</b> <b>+TOPSHEET</b>

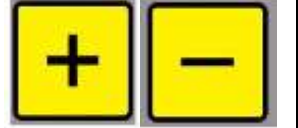



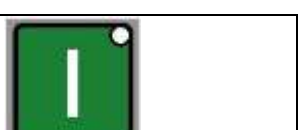

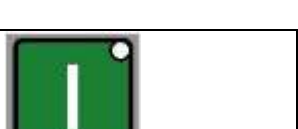
Selector for automatic program's P (Programs with a single wrapping cycle)

	<b>Single wrapping wrapping ascent</b> <b>P1</b> <b>UP</b>		<b>Single wrapping wrapping ascent</b> <b>P4</b> <b>UP + TOPSHEET</b>
	<b>Single wrapping wrapping ascent</b> <b>P2</b> <b>UP</b>		<b>Single wrapping wrapping ascent</b> <b>P5</b> <b>UP + TOPSHEET</b>
	<b>Single wrapping wrapping ascent</b> <b>P3</b> <b>UP</b>		<b>Single wrapping wrapping ascent</b> <b>P6</b> <b>UP + TOPSHEET</b>

**BLOCKING THE CONTROL PANEL**

	Press for 5 seconds
	Display will show message BL BLOCK
	Confirm and all the parameters are blocked

**UN-BLOCK THE CONTROL PANEL**

	Press for 5 seconds
	Display will show message PA PASSWORD
	PRESS Start
	Select + or – to select the correct value  <b>Value =</b> (If unknown please ask your direct manager / machine responsible person)
	PRESS Start to confirm the value
	Select + or – to select the correct value  <b>Value =</b> (If unknown please ask your direct manager / machine responsible person)
	PRESS Start to confirm the value

At this moment the machine is unblocked again. You can change the parameters.

## INDICATIONS

### START-UP CYCLE ACTIVE

An acoustic signal device has been installed in the control cabinet, which will be activated first during some seconds as a warning every time before the AUTOMATIC PROGRAM is executed.

The operator will thus be able to leave the danger zone before the machine starts to operate.

The machine will only start to operate after this period has been elapsed.

### RESET MACHINE

The automatic program of the wrapping machine is interrupted and a failure indication will be displayed on the console, when the emergency stop is activated or any other failure is detected.









Wrapping can only be started again after pushing reset on the control panel. Thus, the failure is reset and the control voltage is activated again, assuming that the mains switch still has been switched on. The cause of the failure has to be solved first, of course.

By holding down the reset button for 3 seconds the wrapping machine can be brought back to the start conditions.

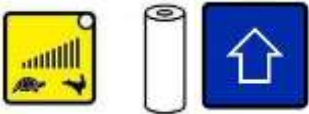








The turntable returns back to the zero position of the machine.  
The film carriage returns back to the zero position of the mast.

**BASIC OPERATING INSTRUCTIONS**



Button	Explanation
	Automatic or manual mode selection. By pressing the key, the machine will set in automatic or manual mode, the light LED will indicate the selected mode
	Program selection: By pushing this button it will be possible to select a set program. On the button the light switches ON when the function has been selected.
	Display indication values of the selected settings Or PA – Parameters for FROMM Engineers only Or ES – Maintenance counter elapsed!! <u>Machine maintenance by FROMM service required!!</u>  Check value maintenance counter under information button.
	<p><b>RE / FIND ZERO POSITON</b></p> Press stop and immediate after press reset and hold both buttons for 5 seconds. The turntable starts to rotate and stops at the next position. ZERO POSITION CORRECT – Proceed with working cycle ZERO POSITION FALSE – Repeat procedure (Max 3 times)
	Push for increasing the displayed parameters
	Push for decreasing the displayed parameters
	START button <b>Automatic run mode with settable cycles</b> Activate this run mode, after the machine has been turned on and the safety conditions have been complied with, by pressing the START pushbutton provided that the corresponding work cycle has been set via the pushbutton panel. In manual mode, the turntable starts
	STOP button For stopping the machine so that it can restart from the operation point in which it stopped. Pressing two times consecutively the operation point is reseted and the next start will be from the beginning of the work cycle.  After pressing this button in the manual program the turntable will return to home "ZERO" position. Press TWO times and the machine will stop immediate

**BASIC OPERATING INSTRUCTIONS**

Button	Explanation		
	<p>In Automatic function.                      Digital setting for adjusting carriage ascent / decent speed (adjustment 1 to 9 step 1). Speed control button and then press up or down arrow.                      Min speed inverter at 30Hz 2.49 mt/min                      Max speed inverter at 60Hz 4.98 mt/min</p>		
	<p>Digital setting for adjustment of number top wraps (adjustment 1 to 9 step 1)</p>		
	<p>Digital setting for adjustment of number bottom wraps (adjustment 1 to 9 step 1)</p>		
	<p>Digital setting for adjusting turntable speed during bottom wraps (adjustment 1 to 9 step 1)</p>		
	<p>Jog table. For the manual movement of the turntable</p>		
	<p>Carriage movement jog button.                      Press once to raise the carriage. Press again to stop the movement. Using the +/- buttons it's possible to increase decrease the speed.</p>		
	<p>Carriage movement jog button.                      Press once to lower the carriage. Press again to stop the movement. Using the +/- buttons it's possible to increase decrease the speed.                       Press during the automatic cycle and the carriage will stop the movement during activation of this button</p>		
	<ol style="list-style-type: none"> <li>Reset button. Reset the machine to home position.</li> <li>After switching on the machine clear error E2 the control voltage is activated again.</li> </ol>		
	<p><b>ACTUAL WRAPPED ROUNDS</b>                      Max value at counter is 99.999.999 Million rounds.                       EXAMPLE 99.887.766                       STARTIING from the first TWO digits until the last TWO digits                       PRESS <u>one</u> time = shown value P12 (99)                      PRESS <u>two</u> times = shown value P13 (88)                      PRESS <u>three</u> times = shown value P14 (77)                      PRESS <u>four</u> times = shown value P15 (66)</p>		
<p><b>P12</b></p>	<p><b>P13</b></p>	<p><b>P14</b></p>	<p><b>P15</b></p>
<p><b>99</b></p>	<p><b>88</b></p>	<p><b>77</b></p>	<p><b>66</b></p>

## STARTING AND STOPPING OF THE TURNTABLE WRAPPING CYCLE



### Automatic run mode with settable cycles

Activate this run mode, after the machine has been turned on and the safety conditions have been complied with, by pressing the START pushbutton provided that the corresponding work cycle has been set via the pushbutton panel.

**ATT.** The acoustic signal is active during approximately 3 seconds before the automatic wrapping cycle will be executed. The machine will only start to operate after this period has been elapsed.

**N.B.** The automatic wrapping cycle is only started, if the start conditions are fulfilled.  
A failure indication is displayed, if not all start conditions are fulfilled.  
The start conditions for the automatic wrapping cycle are:

- One of the WRAPPING PROGRAMS 1-2;
- Photocell "pallet height" should be activated;
- Emergency stop not activated;
- No failure detected;

### Stop with table deceleration

This stop is commanded as follows:

- by pressing the stop pushbutton
- by pressure exerted on the base safety device
- by the presence of an alarm that commands the immediate stop.


This stop mode envisages:

- the immediate stop of the film carriage
- the turntable starts to slow down until it stops.

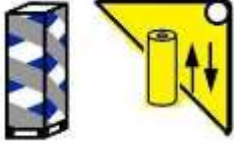
**NOTE:** with this type of stop the machine can restart from the operating point in which it had stopped by, pressing the start button.


## WRAPPING PROGRAMS

Main operating mode selection automatic mode (If small light = ON, indicates the selected function)


	<b>Auto/manual mode</b>
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### Double wrapping

	<b>Double wrapping</b> wrapping ascent / descent  A1 / A2 / A3 / A4 / A5 / A6 Each program can be setup with specific parameters
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	<b>Double wrapping.</b> The UP/DOWN (double) wrapping program will be executed with this function. <ul style="list-style-type: none"> <li>- After completing the pre-selected number of bottom wraps the film carriage will go upwards;</li> <li>- While the turntable keeps turning, it will halt automatically at the top, to apply the pre-selected top wraps;</li> <li>- After this the carriage will go downwards again;</li> <li>- After reaching the switch for the carriage ZERO position, the turntable will halt in phase;</li> <li>- The film can be cut at the bottom and the pallet can be transported.</li> </ul>
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### Single wrapping


	<b>Single wrapping</b> wrapping ascent / ascent-descent / descent  P1 / P2 / P3 / P4 / P5 / P6 <i>In each automatic program's P, you can decide which <u>Movement Carriage</u> set up.</i>
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	<b>Select a program P</b>  <p>Press «  » or «  » to choose the program P1/P2/P3/P4/P5/P6 on the display.</p> <p>Press «  » for 2 seconds to choose <b><u>Movement Carriage</u></b></p> <p>When you have chosen press «  » to exit</p>
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## WRAPPING PROGRAMS

### Movement carriage


	<p><b>Single wrapping</b> cycle, ascent only</p> <p><b>Movement Carriage 1</b></p>		<p><b>Single wrapping</b> cycle, cycle, ascent only + cycle, descent only</p> <p><b>Movement Carriage 4</b></p>
	<p><b>Single wrapping</b> cycle, ascent only MANUAL RETURN</p> <p><b>Movement Carriage 2</b></p>		<p><b>Single wrapping</b> Cycle, descent only</p> <p><b>Movement Carriage 5</b></p>
	<p><b>Single wrapping</b> cycle, ascent only AUTOMATIC RETURN (in combination with Parameters 9)</p> <p><b>Movement Carriage 3</b></p>		

	<p><b>Single wrapping Movement Carriage.</b> The ONLY UP (single) wrapping program will be executed with this function.</p> <ul style="list-style-type: none"> <li>- After completing the pre-selected number of bottom wraps the film carriage will go upwards;</li> <li>- While the turntable keeps turning, it will halt automatically at the top, to apply the pre-selected top wraps;</li> <li>- Now the turntable will halt in phase;</li> <li>- The film can be cut on the top and the pallet can be transported.</li> </ul> <p><b>Movement Carriage 1:</b> After pressing start the machine will return to ZERO position and the machine restarts the process.</p> <p><b>Movement Carriage 2:</b> After pressing start the carriage return to ZERO Position.</p> <p><b>Movement Carriage 3:</b> The carriage returns to ZERO Position in automatic way. In combination with Parameters 9.</p> <p><b>Movement Carriage 4:</b> Only upwards (from bottom to top, carriage remains in top). Only downwards (from top to bottom, carriage remains at bottom).</p> <p><b>Movement Carriage 5:</b> Only downwards (wrapping cycle starts in the top wrapping only downwards).</p>
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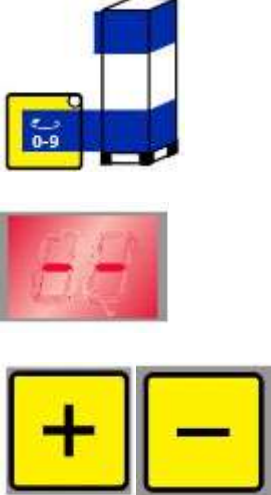
	<p><b>Double wrapping + TS or Single wrapping +TS</b></p> <ul style="list-style-type: none"> <li>- After completing the pre-selected number of bottom wraps the film carriage will go upwards;</li> <li>- While the turntable keeps turning, it will halt automatically at the top, to apply the pre-selected top wraps;</li> <li>- After this the carriage will go down for the pre-selected distance and it will halt. Also the turntable will halt; (Not in phase)</li> <li>- Re-start and the film carriage will go upwards wrapping the pre-selected top wraps.</li> </ul>
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## WRAPPING PROGRAMS (SPECIAL PROGRAM)

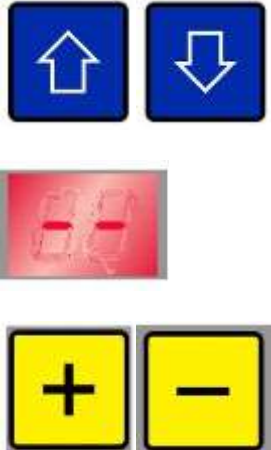
### BANDEROL PROGRAM

	<p>Extra wrapping process</p> <p>Press one time and the carriage will halt during the wrapping process Press second time and the carriage will proceed the wrapping process</p>
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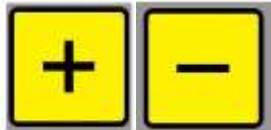
### PALLET FOOT PROGRAMME

	<p>The function of the program is to repeat the pre-installed bottom wraps, to reinforce the packaging at the pallet foot.</p> <p>(Press this button for 2 seconds)</p> <p>Standard value is 00 "program deactivated"</p> <p>Steps of approx. 5 cm (Min value is 00 cm = "Function OFF" / max value is 95 cm)</p>
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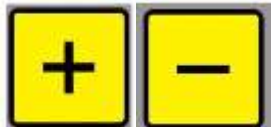
### WRAPPING STARTING HEIGHT

	<p>The function of the program is to starting the wrapping process at a higher position. This can be a useful programme in case the client doesn't want to wrap the wood or pallet foot of the product.</p> <p>(Press this button for 2 seconds)</p> <p>Standard value is 00 "program deactivated"</p> <p>Steps of approx. 5 cm (Min value is 00 cm = "Function OFF" / max value is 95 cm)</p>
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**WRAPPING PROGRAMS (SPECIAL PROGRAM)****PRE SET PALLET HEIGHT**

	<p>The function of the program is wrap the pallets with exclusion from the photoelectric sensor. Usefull in combination with dark products or special pallets.</p>
	<p>(Wrapping without photocell - Press this button for 2 seconds)</p>
	<p>Standard value is 00 "program deactivated"</p> <p>Steps of approx. 10 cm (Min value is 00 cm = "Function OFF" / max value is 34 (340cm))</p>

**TOP-SHEET PROGRAMME**

	<p>The function of the program is wrap the pallets using a top sheet. The value which can be inserted is the decrease of the carriage before applying the sheet on top of the pack.</p>
	<p>(Wrapping the pallet waterproofe)</p>
	<p>Standard value is 00 "program deactivated"</p> <p>Steps of approx. 5 cm (Min value is 00 cm = "Function OFF" / max value is 50cm)</p>

## ERRORS DURING OPERATION

### THE CARRIAGE DOES NOT STOP AT THE LOWER OR UPPER LIMIT STOP MICROSWITCH

Problem suggestion	Possible solution
<ul style="list-style-type: none"> <li>- Proximity/Micro switches are not connected properly</li> </ul>	<ul style="list-style-type: none"> <li>- Check the wiring If the carriage is in the LOWEST Magnet sensor 2 (<b>Fig. 2</b>) LED L24 (3) is ON (<b>Fig. 3</b>)</li> <li>- If the carriage is in the HIGHEST Magnet sensor 1 (<b>Fig. 1</b>) LED L25 (3) is ON (<b>Fig. 3</b>)</li> <li>- If the carriage is in ZERO position LED L24 &amp; L25 are OFF (IF PA06=10) Means carriage is not at lower or upper proximity.</li> </ul>
<ul style="list-style-type: none"> <li>- Proximity/Micro switch malfunctioning</li> </ul>	<ul style="list-style-type: none"> <li>- Control the distance proximity (1) (<b>Fig.1</b>) bracket mounted on the carriage. Max 4-6mm distance.</li> <li>- Control the micro (2) (<b>Fig.2</b>) The lever should be able to move up and down</li> <li>- Replace the proximity sensor.</li> <li>- Replace the micro sensor.</li> </ul>
<ul style="list-style-type: none"> <li>- Carriage doesn't wrap at turntable level</li> </ul>	<ul style="list-style-type: none"> <li>- Check for the position of the lower cam by adjusting the respective adjuster screws.</li> </ul>

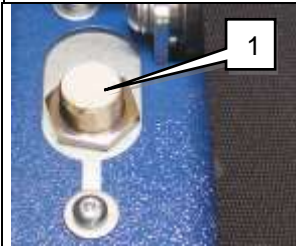


Fig.1

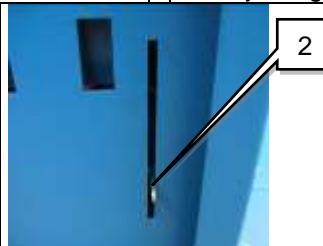


Fig. 2

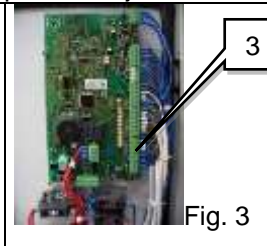


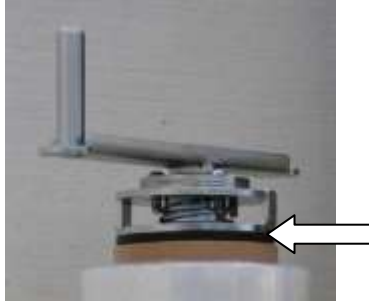


Fig. 3



Should the problem persist, contact the Customer After-Sales Service of MANUFACTURER

**ERRORS DURING OPERATION**

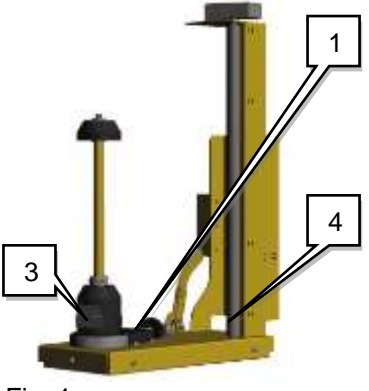
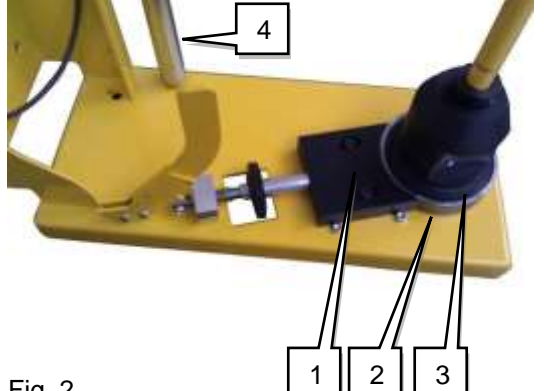
**THE FILM TENSION DOES NOT CHANGE WITH CARRIAGE 16.8440 – V01**

Problem suggestion	Possible solution
<ul style="list-style-type: none"> <li>- Clutch not connected properly</li> </ul>	<ul style="list-style-type: none"> <li>- Check the height of the core.</li> <li>- Check the correct position of the top brake unit with spring (<b>Fig. 1</b>)</li> </ul>
<ul style="list-style-type: none"> <li>- Clutch not connected properly</li> <li>- Carriage makes noise at the below part</li> </ul>	<ul style="list-style-type: none"> <li>- Friction disk has to be replaced (<b>Fig. 2</b>) FS3.2034</li> </ul>
<ul style="list-style-type: none"> <li>- Film feed in the wrong way</li> </ul>	<ul style="list-style-type: none"> <li>- Film should be applied before the metal roll (<b>Fig. 3</b>)</li> <li>- Don't feed the film between metal roll and carriage frame</li> </ul>
 <p>Fig. 1</p>	  <p>Fig. 2</p> <p>Fig. 3</p>



Should the problem persist, contact the Customer After-Sales Service of MANUFACTURER

**THE FILM TENSION DOES NOT CHANGE WITH CARRIAGE 16.8440 – V02**

Problem suggestion	Possible solution
<ul style="list-style-type: none"> <li>- Tension on the film to high</li> </ul>	<ul style="list-style-type: none"> <li>- Clean the friction disk. (1) (<b>Fig. 1 &amp; 2</b>)</li> <li>- Clean the metal disk. (2) (<b>Fig. 2</b>)</li> <li>- Clean the part below the core holder</li> </ul>
<ul style="list-style-type: none"> <li>- Film feed in the wrong way</li> </ul>	<ul style="list-style-type: none"> <li>- Film should be applied before the metal roll (4) (<b>Fig. 1 &amp; 2</b>)</li> <li>- Don't feed the film between Metal roll and carriage frame</li> </ul>
 <p>Fig. 1</p>	 <p>Fig. 2</p>

**ERRORS DURING OPERATION**

**THE FILM TENSION DOES NOT CHANGE WITH CARRIAGE 2**

Problem suggestion	Possible solution
<ul style="list-style-type: none"> <li>- Tension on the film to high</li> </ul>	<ul style="list-style-type: none"> <li>- Clean the friction ring. (1) (<b>Fig. 2</b>)</li> <li>- Clean the metal brake wheel. (2) (<b>Fig. 2</b>)</li> <li>- Check the tensioning know (3) (<b>Fig. 2</b>)</li> <li>- Check the metal sliding plates (4) (<b>Fig. 2</b>)</li> <li>- Clean the above three mentioned parts</li> <li>- Clean the vulcanized roller (4) (<b>Fig.1</b>)</li> </ul>
<ul style="list-style-type: none"> <li>- Film feed in the wrong way</li> </ul>	<ul style="list-style-type: none"> <li>- Film should be applied before the metal roll (5) (<b>Fig. 1</b>)</li> <li>- Don't feed the film between Metal roll and carriage frame</li> <li>- Out-feed film is at the LEFTSIDE of roll 5 (<b>Fig. 1</b>)</li> </ul>

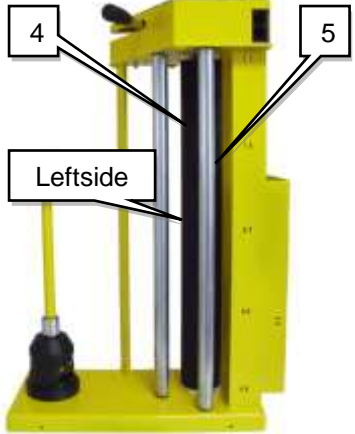


Fig. 1

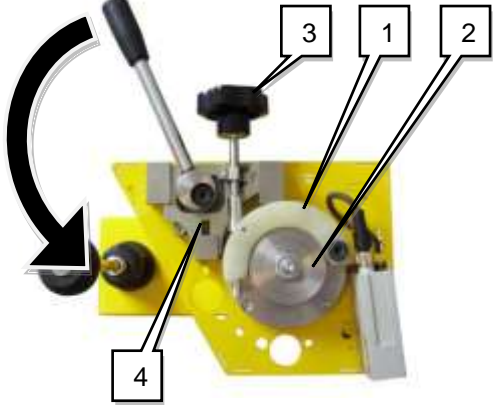


Fig. 2

**THE FILM TENSION DOES NOT CHANGE WITH CARRIAGE 4**

Problem suggestion	Possible solution	
<ul style="list-style-type: none"> <li>- Tension on the film to high</li> </ul>	<ul style="list-style-type: none"> <li>- Clean the metal disk. (1) (<b>Fig. 2</b>)</li> <li>- Clean the magnet. (2) (<b>Fig. 2</b>)</li> <li>- Check the tensioning potential meter (3) (<b>Fig. 3</b>) The higher the value, the higher the brake. Postion 9 values 10 volt.</li> <li>- Clean the vulcanized roller (4) (<b>Fig.1</b>)</li> </ul>	
<ul style="list-style-type: none"> <li>- Film feed in the wrong way</li> </ul>	<ul style="list-style-type: none"> <li>- Film should be applied before the metal roll (5) (<b>Fig. 1</b>)</li> <li>- Don't feed the film between Metal roll and carriage frame</li> <li>- Out-feed film is at the LEFTSIDE of roll 5 (<b>Fig. 1</b>)</li> </ul>	

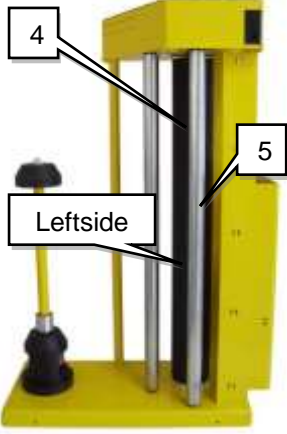


Fig. 1

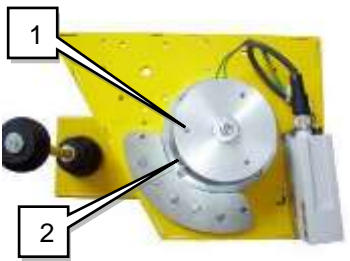


Fig. 2

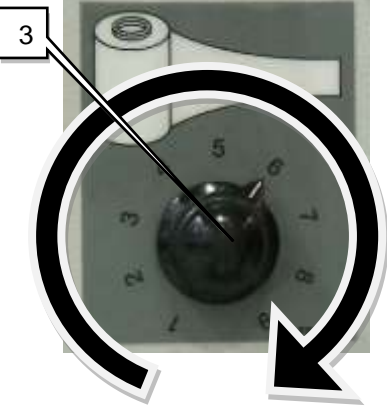


Fig. 3

## ERRORS DURING OPERATION

### THE MACHINE DOESN'T STOP WHEN THE EMERGENCY MUSHROOM-HEAD BUTTON IS PRESSED

Problem suggestion	Possible solution
- Emergency circuit failure	- Check the circuit
- Reset not working	- Check if there are other errors or failures preventing an correct reset. <b>(Fig. 2)</b>
- Emergency mushroom-head button not working	- Replace the emergency mushroom-head button. <b>(Fig. 1)</b> - Check LED L23 (1) <b>(Fig. 3)</b> (If not pressed LED is ON after pressing the RESET button <b>(Fig. 2)</b> )




Fig. 1




Fig. 2

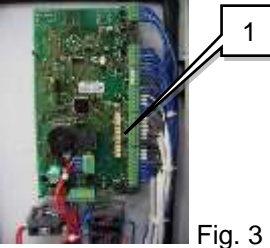


Fig. 3



Should the problem persist, contact the Customer After-Sales Service of MANUFACTURER

### THE TURNS AT THE BOTTOM AND AT THE TOP OF THE LOAD ARE NOT REGULATED PROPERLY

Problem suggestion	Possible solution
- Proximity sensor <b>(Fig. 1)</b> not connected properly	- Check the wiring - Check the LED L27 (6) <b>(Fig. 3)</b> With turntable in ZERO the light is ON
- Proximity sensor doesn't give a signal	- Move the turntable in JOG function. LED L27 should flash 3x during one round. - The distance sensor (1) bracket (2) has to be approx 3 to max 6mm (3). <b>(Afb. 1)</b>
- Shaft rotating bracket <b>(Fig. 2)</b> not connected properly	- Fixed the bracket in the correct position (4) <b>(Fig. 2)</b>
- Proximity sensor malfunction	- Replace the proximity sensor. (5) <b>(Fig. 2)</b>
- Control card <b>(Fig. 3)</b> not working properly	- Replace the faulty card <b>(Fig. 3)</b> by carefully referring to the wiring diagram attached to the machine documentation. <b>ELS1042</b>

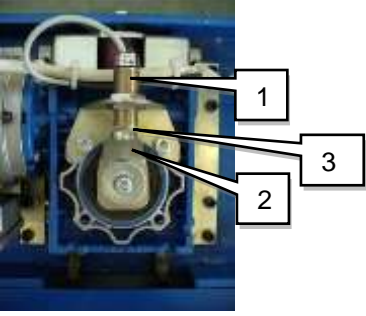


Fig. 1

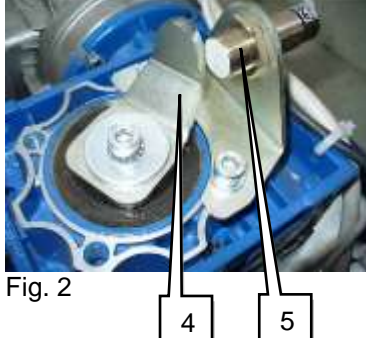


Fig. 2

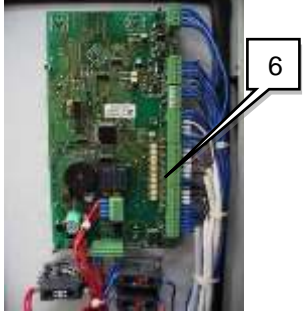


Fig. 3



Should the problem persist, contact the Customer After-Sales Service of MANUFACTURER

## ERRORS DURING OPERATION

### THE HORSESHOE TURNTABLE DOESN'T START ROTATING

Problem suggestion	Possible solution
- The machine doesn't start and generates an error on the display	- Check if something is blocking the safety-device of the table - Check the hidden parameters PA03 should have the value 3. - Check the wiring according diagram.
- The machine doesn't start and doesn't generate an error on the display	- Remove the plate (3) covering the distance between mast and turntable. <b>(Fig. 3)</b> - Check that 2x rolls (1) are still pressed against the turntable (2). <b>(Fig. 1)</b> - If you discover a broken roll or excessive wearing we advise to replace the rolls. - Clean the side surface (6) of the table. <b>(Fig. 1)</b> - Increase the tension on the rolls by adjusting the bolts (4) don't forget to contra block the bolt with nut (5). - Higher force on the rolls can give more wearing!!

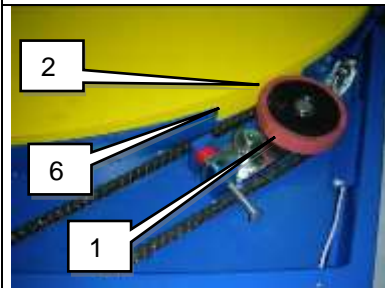


Fig. 1



Fig. 2



Fig. 3



Should the problem persist, contact the Customer After-Sales Service of MANUFACTURER

### THE MACHINE DOESN'T STOP IN THE ZERO POSITION

Problem suggestion	Possible solution
- The machine stops in the wrong position	- The machine has been switched OFF, not being in the ZERO position. - Follow below sequence to RESET the ZERO position.
	<p><b>RE / FIND ZERO POSITION</b></p> <p>Press stop and immediately after press reset and hold both buttons for 5 seconds.</p> <p>The turntable starts to rotate and stops at the next position.</p> <p>ZERO POSITION CORRECT – Proceed with working cycle</p> <p>ZERO POSITION FALSE – Repeat procedure (Max 3 times)</p>



Should the problem persist, contact the Customer After-Sales Service of MANUFACTURER

**POSSIBLE ERRORS AT THE FIRST TIME INSTALLATION!****THE CARRIAGE DOESN'T APPLY ENOUGH OVERLAP AT PALLET TOP – PA06**

<b>Problem suggestion</b>	<b>Possible solution</b>
- Timer PA06 has to be increased	<ul style="list-style-type: none"> <li>- Open the hidden parameters of the software “operating panel.</li> <li>- Select parameter PA06 and increase the value.</li> <li>- This operation can only be done by a FROMM engineer.</li> </ul>

**THE CARRIAGE HOME POSITION IS WRONG – PA07**

<b>Problem suggestion</b>	<b>Possible solution</b>
- Carriage home position	<ul style="list-style-type: none"> <li>- Open the hidden parameters of the software “operating panel.</li> <li>- Select parameter PA07 and increase or decrease the value.</li> <li>- Increase = The carriage will stop higher</li> <li>- Decrease = The carriage will stop lower</li> <li>- This operation can only be done by a FROMM engineer.</li> </ul>

**TIMER SELECTION PA08**

<b>Problem suggestion</b>	<b>Possible solution</b>
<ul style="list-style-type: none"> <li>- Timer selection for Movement Carriage 3.</li> <li>- Single wrapping only up with automatic return.</li> </ul> Movement Carriage 3	<ul style="list-style-type: none"> <li>- Open the hidden parameters of the software “operating panel.</li> <li>- Select parameter PA08 and change the timer.</li> <li>- This operation can only be done by a FROMM engineer.</li> </ul>



*Should the problem persist, contact the Customer After-Sales Service of MANUFACTURER*

## ALARMS

- E1: NO PALLET DETECTED 1x beep than pause (repeated sequence)
- E2: EMERGENCY SWITCH 2x beep than pause (repeated sequence)
- E3: INVERTER ERROR 3x beep than pause (repeated sequence)
- E4: SAFETY BELT 4x beep than pause (repeated sequence)
- E5: BASE SAFETY DEVICE 5x beep than pause (repeated sequence)

ES: **SERVICE BY FROMM ENGINEER REQUESTED**

## ALARM RESET



After having cleared the fault, push the RESET button

### E1 - NO PALLET DETECT

Problem suggestion	Possible solution
- Pallet is not recognized by photo electric cell	- Dark goods? Replace sensor by sensor suitable for dark goods. (N5.2638) - Pallet to be wrapped is lower than 600mm. Ask FROMM engineer to change parameter PA04 to 0 (OFF)
- Photocell ( <b>Fig. 1</b> ) not connected properly	- Check the wiring / connector
- Photocell malfunction	- Replace the photocell - Check LED L22 (1) ( <b>Fig. 3</b> ) (Load on turntable LED is ON)

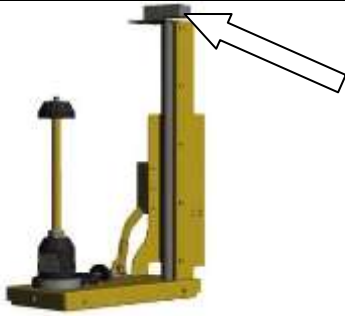


Fig. 1




Fig. 2

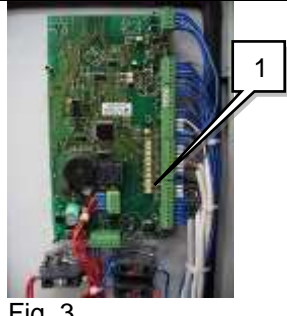


Fig. 3



Should the problem persist, contact the Customer After-Sales Service of MANUFACTURER

### E2 - MAIN CONTACTOR / EMERGENCY SWITCH




Problem suggestion	Possible solution
- After switching on the machine E2 appears in the display	- Press the RESET button. Inverters are activated again.
- This alarm signals that the emergency button was pressed	- Check the situation and deactivate the mushroom-head button
- Emergency button not working or properly connected	- Replace the emergency button - Check LED L23 (Emergency NOT pressed LED standard is ON)



Should the problem persist, contact the Customer After-Sales Service of MANUFACTURER

## ALARMS

### E3 - INVERTOR ERROR

Problem suggestion	Possible solution	
<ul style="list-style-type: none"> <li>- This alarm signals the blocking of an inverter</li> </ul>	<ul style="list-style-type: none"> <li>- Turn off the machine. Wait 20 seconds and turn it on again.</li> <li>- Check the situation on the display of the inverter referring to the inverter instruction manual that is enclosed with the machine documentation</li> <li>- Check for the presence of mechanical motor locks, if any, and proceed as required</li> </ul>	
<ul style="list-style-type: none"> <li>- Check if the circuit breakers are ON</li> </ul>	<ul style="list-style-type: none"> <li>- <b>Fig. 1</b> – ON inverter should work</li> <li>- <b>Fig. 2</b> – OFF inverter is switched OFF</li> </ul>	
<ul style="list-style-type: none"> <li>- Inverter not working properly</li> </ul>	<ul style="list-style-type: none"> <li>- Replace the inverter</li> </ul>	
	<ul style="list-style-type: none"> <li>- LEFTSIDE Inverter Carriage (1)</li> <li>- RIGHT SIDE Inverter Turntable (2)</li> </ul>	
 <p>Fig. 1 ON</p>	 <p>Fig. 2 OFF</p>	



Should the problem persist, contact the Customer After-Sales Service of MANUFACTURER

## ALARMS

### E4 - CLAMP PROTECTION / CARRIAGE 0 EMERGENCY LIMIT SWITCH "SAFETY BELT"

Problem suggestion	Possible solution
<ul style="list-style-type: none"> <li>- This alarm indicates that the carriage belt tension (<b>Fig 1 &amp; 2</b>) is wrong.</li> </ul>	<ul style="list-style-type: none"> <li>- Check the situation. Maybe an item has been Placed under the carriage activating the emergency.</li> <li>- Remove the obstruction from under the carriage and re-tension the belt (<b>Fig. 2 / Fig. 3</b>)</li> <li>- Re-tension the belt by placing it under tension manually. The belt will run inside the mast for a short time. (2 Sec.) If the belt is still not under complete tension the alarm will continue. Repeat the steps until the belt is completely under tension.</li> <li>- Unlock the carriage from its safety position by changing to manual mode (1) and activating the manual arrow up button (2) on the Operating panel. (<b>Fig.4</b>)</li> </ul>
<ul style="list-style-type: none"> <li>- Micro-switch incorrectly positioned or connected</li> <li>- The belt had been loosen</li> </ul>	<ul style="list-style-type: none"> <li>- Position the switch correctly (<b>Fig. 3 &amp; 4</b>)</li> <li>- Check LED L26 on the main board (If not pressed LED is ON)</li> </ul>
<ul style="list-style-type: none"> <li>- The belt is broken and the carriage has been blocked in the mast</li> </ul>	<ul style="list-style-type: none"> <li>- Replace the belt</li> </ul>



Fig. 1

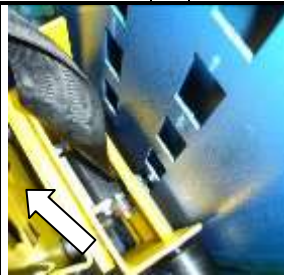


Fig. 2



Fig. 3

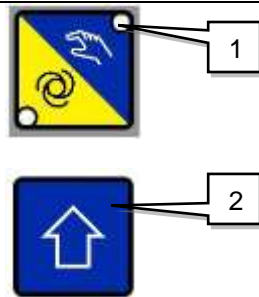
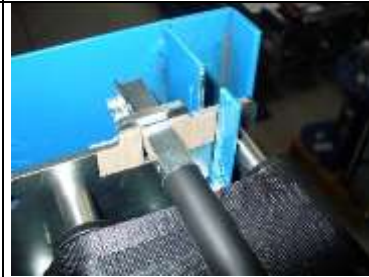


Fig.4



Fig. 5



## ALARMS

### E5 - BASE EMERGENCY LIMIT SWITCH “BASE SAFETY DEVICE”

Problem suggestion	Possible solution
- This alarm signal has been activated by the limit switch of the base	- Check the situation, an object or person has been positioned between mast and turntable. ( <b>Fig. 1</b> ) - Re-move this object or person.
- Limit switch not working properly (or not connected)	- Replace the limit switch (2) ( <b>Fig. 2</b> ).
- The spring is positioned incorrectly	- Position the spring (3) correctly ( <b>Fig. 3</b> ).
- The plate have been blocked mechanically	- Release the plate.

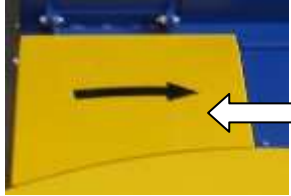


Fig. 1




Fig. 2




Fig. 3

### E5 - TABLE SAFETY DEVICE / TRANSPALLET / HORSESHOE

Problem suggestion	Possible solution
- This alarm signals that the entrance of the horseshoe turntable is blocked for safety reasons.	- Check the situation, remove the mechanical block from the entrance. ( <b>Fig. 1</b> )
- Photocell incorrectly positioned or connected.	- Check the wiring. (1) ( <b>Fig. 2</b> ) - Check the reflector. (2) ( <b>Fig. 2</b> ) - Check LED 28 (3) on the PLC. (If entrance is free LED have to be ON. If LED is OFF, check wiring, photocell, entrance of machine) ( <b>Fig. 3</b> )
- Proximity sensor malfunction.	- Replace the proximity sensor. (1) ( <b>Fig. 2</b> )
- Mirror / Reflector incorrectly positioned or broken.	- Check the mirror / reflector. (2) ( <b>Fig. 2</b> )




Fig. 1




Fig. 2

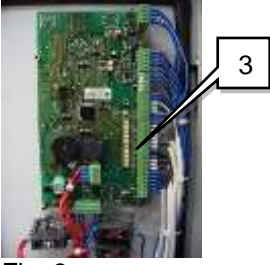


Fig. 3

### ES - SERVICE REQUIRED

Problem suggestion	Possible solution
- This alarm signals that service has to been done	- If maintenance will be done by a qualified FROMM engineer. The timer will be reset to ZERO and the alarm disappear from the operating panel.
- Service has been done Alarm ES persists	- Timer has not been set to ZERO - Call FROMM distributor.

**INSERTING THE FILM**



Place the new film reel (direction of unwinding depends on the side on which the cling is found).

Guide the film through the brake system according to the subjoined drawing.

**Arrows on the inside of the roll means:**

**CI = CLING INSIDE**

The film has to be guided through the brake system in this way when applying a "differential cling"-film with the cling on the inside of the film when unwinding the film from the film reel.

**Arrows on the outside of the roll means:**

**CO = CLING OUTSIDE**

The film has to be guided through the brake system in this way when applying a "differential cling"-film with the cling on the outside of the film when unwinding the film from the film reel.

The way of guiding the film through the brake system when applying a "double sided cling"-film is basically not relevant.

**Stretchfilm**

- LLDPE Material
- Spool core diameter
- Outer diameter of spool
- Film width

Max 35 µ / 0,000138"  
 76,2 mm / 3"  
 Max. 250 mm  
 Max. 500 mm

**CHANGING FILM CARRIAGE 0 – FS1 “CENTO” V01**

<p>Step 1</p>		

**CHANGING FILM CARRIAGE 0 – FS1 “CENTO” V02**

<p>Step 1</p>		

**MAINTENANCE INSTRUCTIONS FOR OPERATORS****SAFETY!**

- First switch off the main switch and lock it before carrying out maintenance on the installation.
- Take care, that other persons cannot put the installation in action.
- Take care, that the protection covers, etc. are remounted when putting the installation in action again.

The installation will have a long operational life due to preventive maintenance. This means, that the various parts of the installation have to be monitored on a weekly, monthly, semi-annually or annually schedule.

The operational lifetime is influenced by the environmental conditions. The indicated maintenance frequency is valid for normal operation conditions (8 hrs per day, 20° C, clean environment). One is advised to increase the maintenance frequency under more severe conditions. Keep rotating parts free from dirt.

**REMAINDER OF THE FILM**

The machine has to be cleaned every day

Never use solvents to clean the machine. To remove dust or particles deposited during the size changeover operations, never use compressed air: only use rags and aspirators.

Check if any film and packaging remainder are present in the brake system and remove it.

**MAINTENANCE INSTRUCTIONS**



**2 Weeks maintenance**

- Clean the photocell of the carriage.

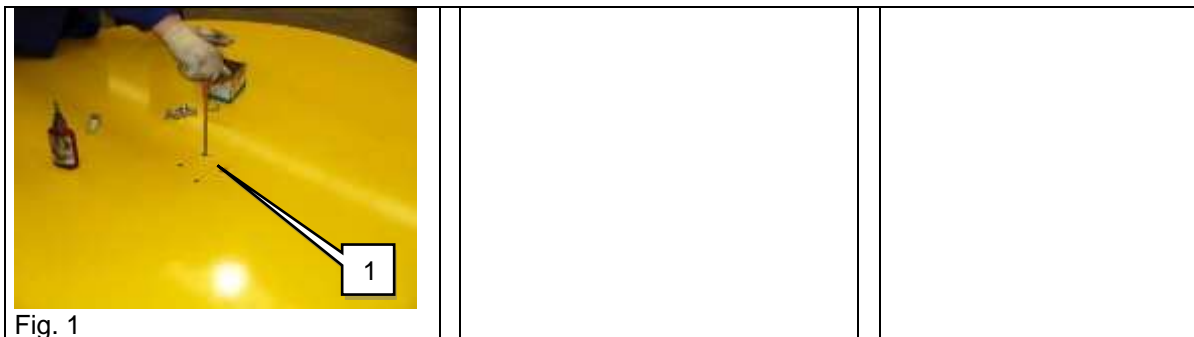


**IMPORTANT NOTE!**

Official maintenance and replacing of spare-parts has to be documented in the separately delivery maintenance booklet. Machines counters and the maintenance responsible engineers has to be filled out. Including date of maintenance. Every additional special maintenance has also to be documented. No maintenance or lack on maintenance can influence the warranty and safety conditions of the machine.

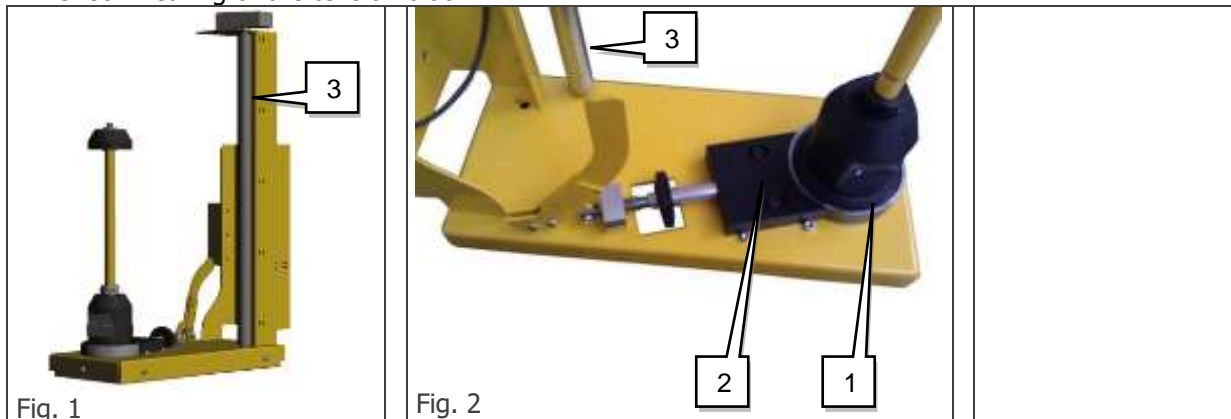
**Monthly maintenance / Control**

- Check if the center bolts (1) (**Fig. 1**) of the turntable are still locked tight;
- Move the disk slowly with your feet;
- If you see that the disk has a play on the central bearing, locking of bolts is requested;
- Secure the turntable carefully, use lock tide n°628.



**1/2 Years maintenance trolley / carriage 0**

- Clean the friction disk
- Check wearing of the tension block

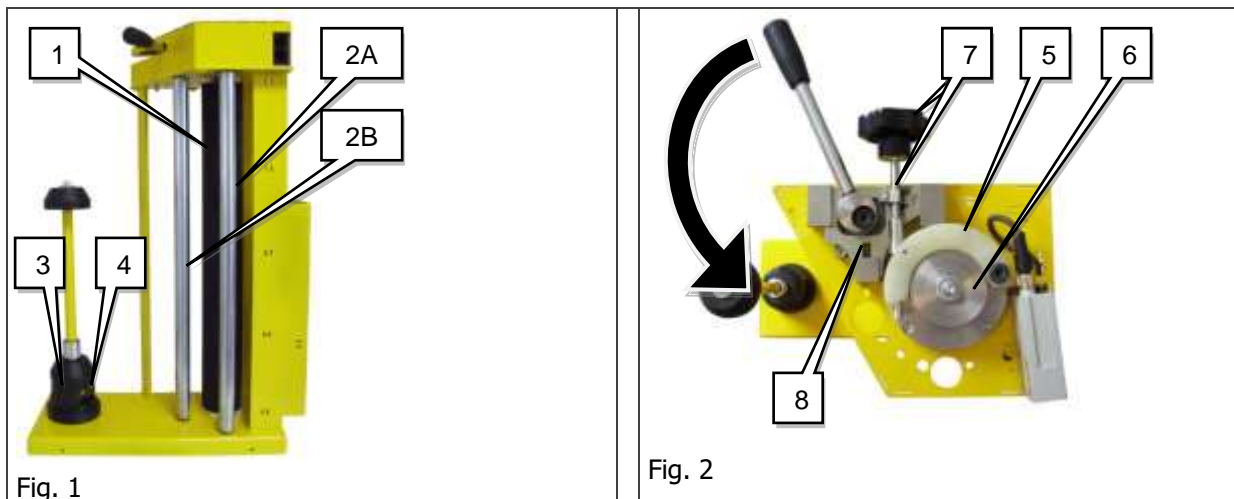


**MAINTENANCE INSTRUCTIONS**



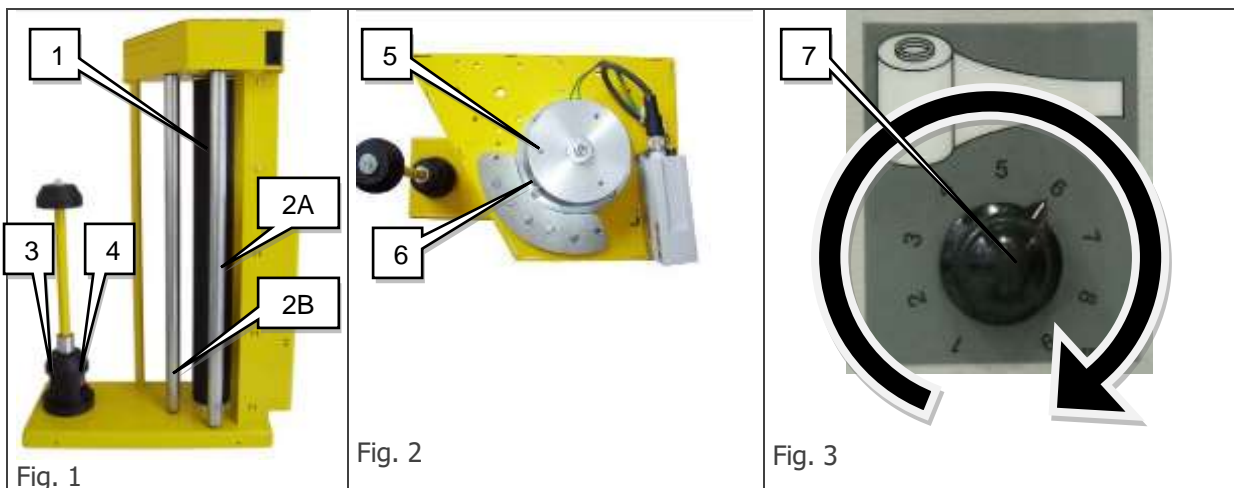
**1/2 Years maintenance carriage 2**

- Clean the vulcanized roll (1) (**Fig. 1**)
- Check the condition of the metal film feeding roll (2A & 2B) (**Fig. 1**)
- Check the condition / wearing of the film coil holder (3) (**Fig. 1**)
- Check the condition film coil brake plates (4) (**Fig. 1**)
- Clean the round friction plate (5) (**Fig. 2**)
- Clean the brake wheel (6) (**Fig. 2**)
- Grease the thread of the brake adjuster wheel (7) (**Fig. 2**)
- Grease the brake release plates (8) (**Fig. 2**)



**1/2 Years maintenance carriage 4**

- Clean the vulcanized roll (1) (**Fig. 1**)
- Check the condition of the metal film feeding roll (2A & 2B) (**Fig. 1**)
- Check the condition / wearing of the film coil holder (3) (**Fig. 1**)
- Check the condition film coil brake plates (4) (**Fig. 1**)
- Clean the round friction plate (5) (**Fig. 2**)
- Clean the clutch (6) (**Fig. 2**)
- Check the functionality of the potential meter (7) (**Fig. 3**)

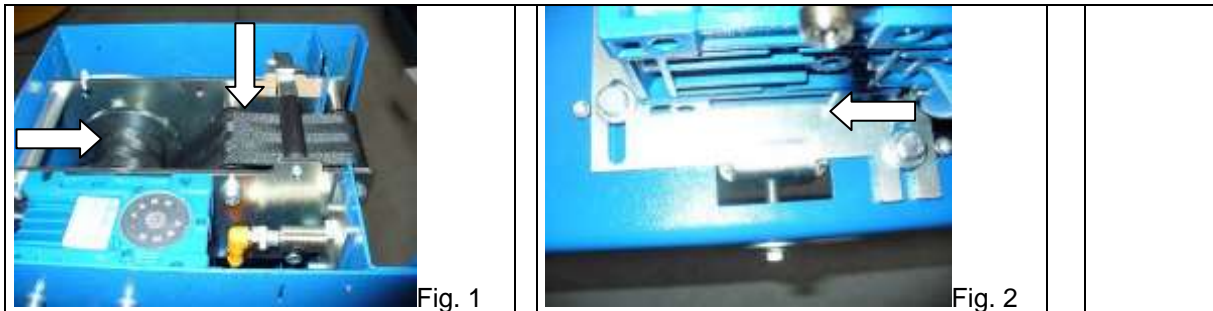


**MAINTENANCE INSTRUCTIONS**

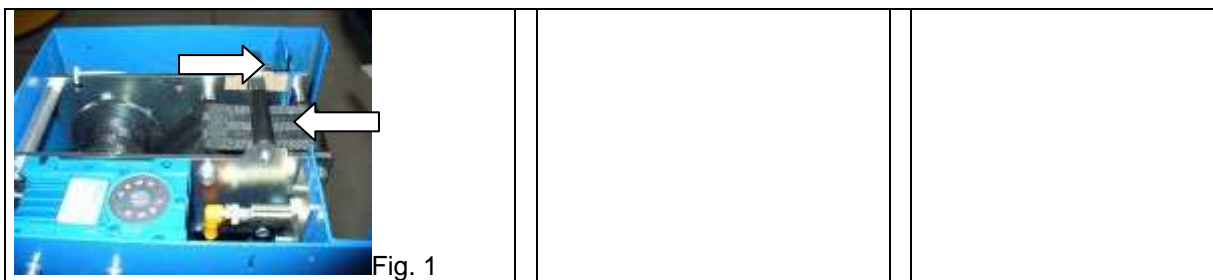


**½ Years maintenance**

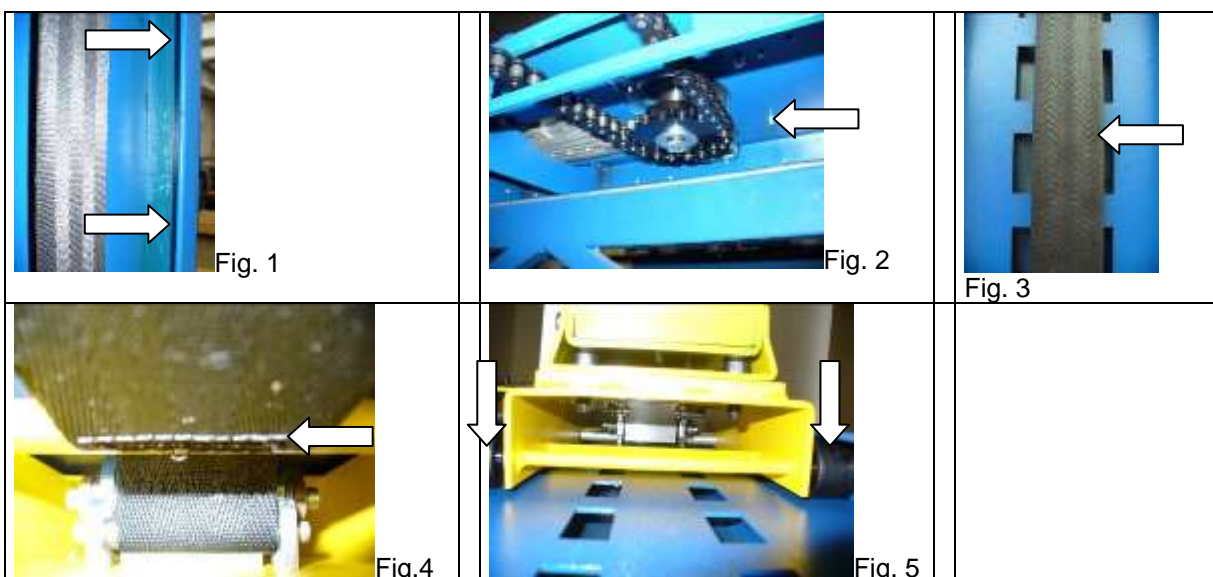
- Check the condition of group motor-gear-belt. **(Fig. 1)**
- Check the tension of the chain that moves the turntable; adjust the chain screw/unscrew the hexagonal bolt. **(Fig. 2)**



- Check the functionality of the “belt tension control system”. **(Fig. 1)**



- Grease the mast where the carriage moves up and down; **(Fig. 1)**
- Grease the chain which is rotating the turntable; **(Fig. 2)**
- Check the wearing condition of the belt of the mast; **(Fig. 3)**
- Check the knitting of the belt; **(Fig. 4)**
- Check the wearing condition of the group carriage wheels; **(Fig. 5)**



## MAINTENANCE INSTRUCTIONS



### Yearly maintenance

- Release the turntable by removing the 4 bolts (1) in the center of the disk (**Fig. 1**);
- Slowly slide away the turntable, from the base unit;
- Check the wear condition of the wheels (2) and replace them if required (**Fig. 2**);  
(insert them by pressing them in place)
- Secure the turntable carefully, use Locktite 628. (**Fig. 1**)

**Note! Pay attention to Rest the machine in ZERO position before to start this operation!**



Fig. 1

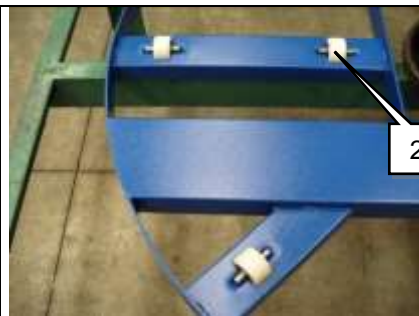


Fig. 2

### Horse shoe turntable

- Check the wear condition of the sliding wheels (1) of the turntable (**Fig. 1**);  
replace them if required; (insert them by using the spring)
- Release the turntable by releasing the central bearing locking nut (1) in the center of the disk (**Fig. 1 / 2 / 3**)
- Lift the turntable (2), from the base unit and rotate it upside down. (**Fig. 2**);
- Remount the turntable carefully, lock it tight by using the correct tool (1) (**Fig. 1**);

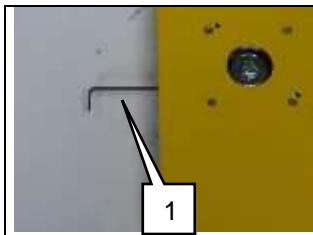


Fig. 1



Fig. 2

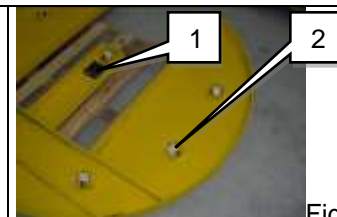


Fig. 3

**MAINTENANCE INSTRUCTIONS****Adjust the top proximity sensor bracket and adjust the low micro-switch sensor bracket**

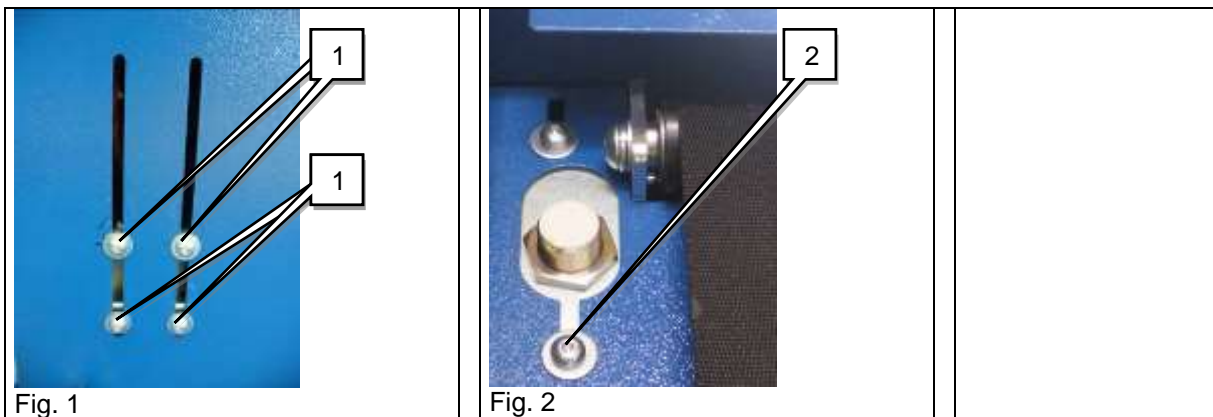
In order to perform any positioning modifications of the limit stop, adjust the bracket, by regulating the corresponding adjuster screws

**Adjust the bracket downwards:**

The micro-switch for the carriage (1) will be activated at a lower level of the pallet. **(Fig.1)**

**Adjust the bracket upwards:**

The proximity sensor for the carriage (2) will be activated at a higher level of the pallet **(Fig.2)**



## SPECIAL MAINTENANCE

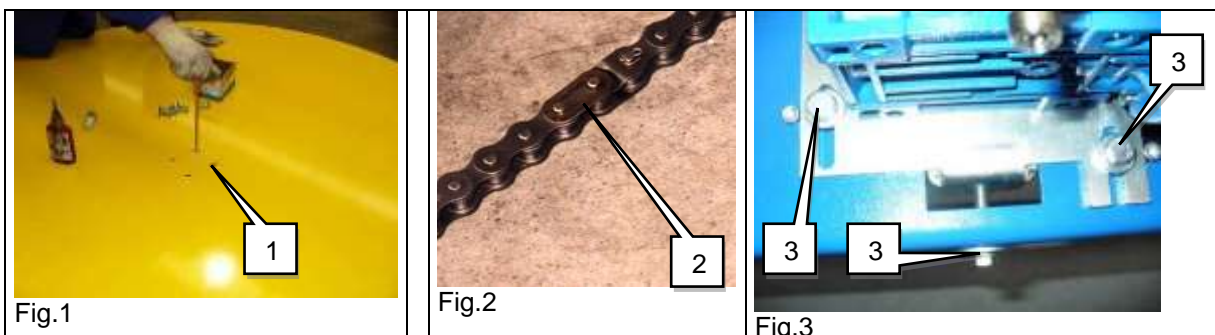
### Replacing carriage belt tension and/or wheel

- Remove the carriage; (**Fig. 1 & 2**)  
Pay attention to place something under the carriage to prevent falling.
- Unscrew the screws (1) that fastens the group motor-gear-belt; (**Fig. 3**)
- Remove the group (2) motor-gear-belt; (**Fig. 4**)
- Replace the belt and/or the wheel; (**Fig. 4 & 5**)



### Replacing the turntable drive chain

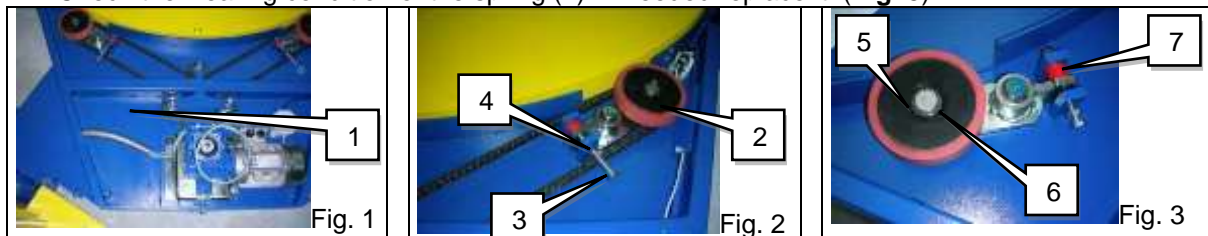
- Release the turntable by removing the 4x bolts (1) in the center of the disk; (**Fig. 1**)
- Slowly slide away the turntable, from the base unit;
- Unlock the chain by removing the chain link (2) (**Fig. 2**);
- It could be that you have to release the motor in order to release the chain completely (**Fig. 3**);  
For this release the bolts (3) of the motor (**Fig. 3**);
- Release the chain (2). (**Fig. 2**)



## SPECIAL MAINTENANCE

Replacing driving rolls horse shoe turntable

- Remove the cover between mast and turntable (1) (**Fig. 1**)
- Release the tension on the wheel (2) by adjusting the bolt (3) and contra nut (4). (**Fig. 2**)
- Release the spring holding the roll in place (5) (**Fig. 3**)
- Check the wearing condition of the bearing (6) in the roll. If needed replace also the bearing. (**Fig. 3**)
- Check the wearing condition of the spring (7). If needed replace it. (**Fig. 3**)



**MAINTENANCE SCHEME**

Based on 20 pallets per day / 8 Hours

**TURNTABLE**

MAINTENANCE FREQUENCY								Counter value
	8 hr	40 hr	100 hr	200 hr	500 hr	1000 hr	1800 hr	
								<b>Every wraps</b>
Daily cleaning	X							375 Wraps
Cleaning eye of photocell			X					5.000 Wraps
Belt (Check)				X				7.500 Wraps
Turnplate chain				4				7.500 Wraps
Gear wheels				4				7.500 Wraps
Bearings						X		32.000 Wraps
Wheels carriage								126.000 Wraps
Friction discs <b>Visual check</b>						X		32.000 Wraps
Friction discs <b>Replacement</b>								126.000 Wraps
Proximity and limit switches						X		32.000 Wraps
Electrical system							X	63.000 Wraps
Sliding wheels							X	63.000 Wraps
Support wheels							X	63.000 Wraps

The numbers in the maintenance scheme refer to lubricants, which are to be applied in the table with lubricants (hereunder).

The symbol "X" in the maintenance scheme refers to remarks concerning the maintenance of or checking on the relevant part or system.

**LUBRIFICANTS**

No.	LUBRIFICANT					
	SHELL	BP	ESSO	MOBIL OIL	TEXACO	
1	OMALA 220	ENERGOL GR-XP 220	SPARTAN EP 220	MOBILGEAR 630	MEROPA 220	
2	OMALA 680	ENERGOL GR-XP 680	SPARTAN EP 680	MOBILGEAR 636	MEROPA 680	
3	TONNA T68	MACCURAT 68	FEBIS K 68 EP220	VACTA.4	WAX LUBRICANT X68	
4	ALVANIA R	ENERGREASE L2	BEACON 2	MOBILUX 2	MULTIFAK EP2	
5	TELLUS 46	HPL 46	NUTCO H46	DTE 26	RANDO HD46	
6	TORCULA 32	ENERGOL RD-E 80	AROX EP 56	ALMOBIL 1	ARIES 32	
7	TELLUS 15				RANDO HDZ 15	
8	RETINAX WB				STARPLEX PREMIUM 1 (depending on the application)	

## PARAMETERS

Below parameters have to filled out by the technical engineer during the first installation of the machine. (Additional amendments can be registered, by downloading the parameter setting documents from our website)

Programs	Bottom wraps	Top wraps	Speed up / down	Table speed	Top sheet PA16
	0-9	0-9	1-9	1-9	1-20 sec

### Adjustable parameters hidden parameters. PA01 to PA16

01	02	03	04	05	06	07	09	10	11	12	13	14	15	16
1=ON 0=OFF	1=ON 0=OFF	1=NO 2=RC 3= HS	1=ON 0=OFF	1=ON 0=OFF	00-90 9.0 sec	0- 5.0 sec	0-30 sec	?	?	00	00	00	00	1-20 sec

### Standard OEM factory settings

PA 01	PA 02	PA 03	PA 04	PA 05	PA 06	PA 07	PA 09	PA 10	PA 11	PA 12	PA 13	PA 14	PA 15	PA 16
1	1	1	1	0	40	3 sec	5.01 sec	?	?	00	06	16	00	5.0 sec

### NEW VALUE'S (To be filled out by FROMM engineer)

PA 01	PA 02	PA 03	PA 04	PA 05	PA 06	PA 07	PA 09	PA 10	PA 11	PA 12	PA 13	PA 14	PA 15	PA 16
								X	X					

### Description parameters OP2-AWP:

Parameter	Description
PA01	Beeps before starting operation (On or Off)
PA02	Alarm RL1 / External flash light (On or Off)
PA03	1 = <b>NO</b> options installed / 2 = <b>Remote Control (RC)</b> / 3 = <b>Horse Shoe machine (HS)</b>
PA04	Pallet or product detection before start Error E1 (On or Off)
PA05	Joystick function (installed or not installed)
PA06	Photocell delay in seconds
PA07	Carriage move upwards after stop. (Zero position carriage)
PA08	Timer for Movement Carriage 3
PA09	Digit 1 & 2 of the password to block the machine (De-block machine, ask manager)
PA10	Digit 2 & 3 of the password to block the machine (De-block machine, ask manager)
PA11	Maintenance / Table laps counter 1e & 2e digit of a 8 number figure (Value)
PA12	Maintenance / Table laps counter 2e & 3e digit of a 8 number figure (Value)
PA13	Maintenance / Table laps 4e & 5e digit of a 8 number figure (Value)
PA14	Maintenance / Table laps 6e & 7e digit of a 8 number figure (Value)

Changing of parameters can only be done by a FROMM engineer.

## **AGENT**

FROMM Wrapping Systems S.r.l.  
Viale del Lavoro, 21  
37013 Caprino Veronese (VR)  
Italy

Tel. +39 045 205 7300  
Fax +39 045 205 7373

VAT no. IT 04146150232

[www.fromm-stretch.com](http://www.fromm-stretch.com)  
[info@fromm-stretch.com](mailto:info@fromm-stretch.com)

## **MANUFACTURER**

FROMM SLOVAKIA a.s.  
Priemysel'ná 5885  
SK-901 01 Malacky  
(SLOVAK REPUBLIC)

VAT no. SK2022019109

## **DOCUMENTATION**

Refer to the leaflet delivered separately for the spare parts.

Or download it directly from our website:

**<http://www.fromm-stretch.com>**

Or contact your Fromm distributor.

# EC Declaration of Conformity

(EC machinery directive 2006/42/EC - Annex IIA)

The Supplier (manufacturer): **FROMM SLOVAKIA a.s.**  
**Priemysel'ná 5885**  
**SK-901 01 Malacky**  
**(SLOVAK REPUBLIC)**

Agent: **FROMM Wrapping Systems S.r.l.**  
**Via del Lavoro 21**  
**IT-37013 Caprino V.se (VR)**  
**(ITALY)**

Declares, under its responsibility, that the product:

Model: **FS15x**

Machine type:

Serial no.:

Description: **Semi-automatic wrapping machine using stretch film**

has been manufactured in compliance with the following directives:

**2006/42/EC (Directive)**  
**2004/108/EC (Electromagnetic compatibility)**  
**2006/95/EC (Low voltage)**

and in compliance with the following harmonised and national standards as well as other standard documents:

**UNI EN 12100:2010**  
**ISO 13849-1:2008 + AC:2009**  
**IEC EN 60204-1:2006**  
**UNI EN 415-6-2013**  
**UNI EN415-10:2014**

01/01/2017

Name: **Mr. Reinhard Fromm**  
Function: **Legal Representative**



A handwritten signature in blue ink, appearing to read 'Reinhard Fromm', is written over a light blue horizontal line.

## WARRANTEE CONDITIONS

### FROMM Distributor to End-user.

Warranty over a period of 12 months, using the machine in operation 8 hours a day, 40 hours a week. The warranty includes all deficiencies clearly resulting from poor manufacturing or faulty materials.

#### The warranty excludes:

- a) wearing parts.
- b) deficiencies resulting from improper stocking, incorrect handling and use as well as from using strapping / stretch film qualities not recommended by FROMM.
- c) deficiencies resulting from improper repair work made by the customer.
- d) deficiencies resulting from lack or improper maintenance work.

Warranty lapses as soon as the installation is not maintained according to supplied maintenance- and operating instructions.

The warranty concerns the parts to be replaced, exclusive the necessary repair hours.

Damage claims as a result of production shutdowns and claims for damage to persons and to property resulting from warranty deficiencies cannot be asserted by the customer.

### Maintenance costs

Ask your local distributor / supplier for the maintenance cost per year / service period.  
Service will be provided according FROMM service conditions / contracts.

**SERVICE LOGBOOK**

Service / Maintenance executed	
Machine counter:	
Date:	
Engineer:	
61.600 rounds / or <u>ONE</u> year	

Service / Maintenance executed	
Machine counter:	
Date:	
Engineer:	
61.600 rounds / or <u>ONE</u> year	

Service / Maintenance executed	
Machine counter:	
Date:	
Engineer:	
61.600 rounds / or <u>ONE</u> year	

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Service / Maintenance executed	
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61.600 rounds / or <u>ONE</u> year	

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Machine counter:	
Date:	
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61.600 rounds / or <u>ONE</u> year	

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61.600 rounds / or <u>ONE</u> year	

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