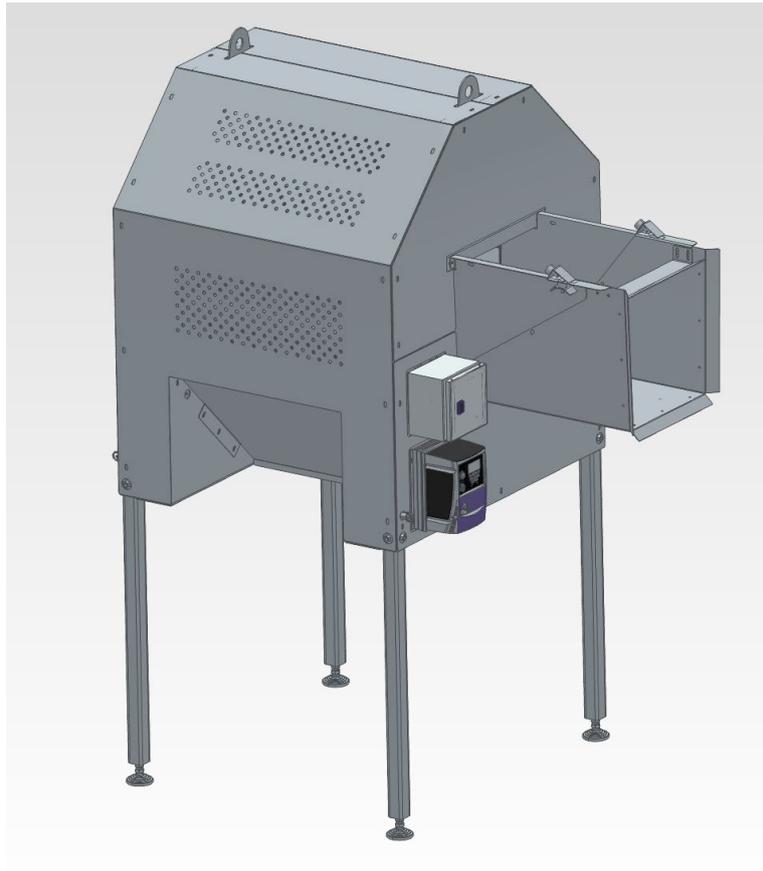




FBConstruct

TECHNICAL MANUAL



25-032 – IDF – 101 BE – Drum

BEKAERT

Warning

The owner and installer of the machine/installation/unfinished machine must read this manual carefully before commissioning the machine/installation/unfinished machine. They must follow the instructions in it and waive all recourse against FB CONSTRUCT BV in the event of non-compliance with the regulations.

The user manual must be kept by the owner or supervisor on the construction site in a safe, dry and sun-protected place. It must always be available for consultation. A copy of the electrical diagram of the machine/installation/unfinished machine must be kept in the control cabinet for quick consultation.

In the event of damage, the user must request a new copy of the manual from FB CONSTRUCT BV.

FB CONSTRUCT BV does not guarantee or accept any liability for the content of this publication and, as such, rejects all implied warranties of fitness for commercial or other purposes.

Furthermore, FB CONSTRUCT BV reserves the right to revise this publication and to make changes to its content over certain periods without obligation of prior notice of any such revision or change.

Preface

Purpose of the manual:

This manual has been created to help you operate and maintain the machine/installation/unfinished machine safely. The manual is intended for dealers and users of the machine/installation/unfinished machine.

The manual is divided into nine chapters, with the last chapter included separately and supplemented with overviews, drawings, diagrams, statements and appendices, to give you easy access to the desired information.

Position of the manual within the documentation as a whole:

The manual is part of the required technical documentation in accordance with the Machinery Directive 2006/42/EC, Appendix VII.

Structure of the manual:

In terms of the structure of the manual, where applicable, the 'NEN 5509: 1998, User manuals - Content, structure, formulation and presentation' standard has been followed as closely as possible.

In short, the 'life cycle' of the machine/installation/unfinished machine is described and, where necessary, required explanations are provided.

No distinction has been made between the operating instructions for machines and/or installations and the assembly instructions for unfinished machines. If certain parts do not apply to unfinished machines, this shall be reported and the appendices shall contain an additional description for the assembly of the unfinished machine in another machine/installation.

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1 INTRODUCTION

1.1 SUPPLIER INFORMATION



FB Construct BV

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The procedure for how to work with FB CONSTRUCT BV, to ensure the safety and conformity of the machine/installation/unfinished machine, is as follows:

1.2 QUALITY ASSURANCE

After concluding a contract, the parts are analysed;

- The applicable directives are determined in accordance with the EC declaration;
- This resulted in the following standards being applied;

Based on the above points, the following analyses have been carried out;

- Risk assessment carried out according to EN ISO 12100:2010;
- An analysis according to the "Essential health and safety requirements for the design and construction of the machines" – (Directive 2006/42/EC, Appendix I)
- A MUOP and SETUP analysis.

This data is included in the design and the functionality of the machine/installation/unfinished machine.

During the construction of the components, the "Technical construction file" is gradually built up according to "Appendix VII, Directive 2006/42/EC", and production is monitored in such a way that the machine directive is observed!



1.3 GENERAL PROVISIONS

This defines the duties, responsibilities and limitations of liability of FB CONSTRUCT BV

1.3.1 THE USER MANUAL

The user manual includes a collection of information so that the user should be able to easily and optimally operate the machine/installation/unfinished machine, and carry out maintenance and repairs on the installation.

The file must be made available to persons responsible for the maintenance and repairs of the machine/installation/unfinished machine.

The user and maintenance person must be informed of the availability of this information and take note of it.

Nothing from the user manual may be reproduced by means of a copy or otherwise, nor communicated or distributed to third parties not belonging to the client.

1.3.2 SERVICE

In case of specific problems and/or queries that cannot be resolved using this user manual; please contact our services.

1.3.3 LIABILITY

FB CONSTRUCT BV cannot be held liable if the user fails to adhere to the instructions set out in the user manual.

FB CONSTRUCT BV cannot be held liable if the user uses spare parts that differ from the prescribed types and/or technical specifications.

FB CONSTRUCT BV cannot be held liable if the user moves parts of the installation and fails to handle such parts correctly, or not in accordance with the instructions, procedures and technical specifications.

FB CONSTRUCT BV cannot be held liable for defects in equipment and components if it appears that safety devices have been bypassed or replaced with others that do not meet the prescribed technical specifications.

FB CONSTRUCT BV cannot be held liable if BEKAERT itself makes changes to the control cabinet or the programming without the knowledge of the company FB CONSTRUCT BV.

FB CONSTRUCT BV cannot be held liable if the machine/installation is no longer in the condition in which it was placed on the market and this occurs without the knowledge of FB CONSTRUCT BV.

FB CONSTRUCT BV cannot be held liable for loss of production due to shutdowns of the installation, or defects, within or outside the warranty period.

1.3.4 ELECTRICAL COMPLIANCE

The information below can be used as a guide, but is not binding. For exact details, we refer to the electrical installer's appendices or to the electrical installer selected by the customer.

The electrical connection is made in accordance with the applicable local regulations and will remain unchanged after initial commissioning.

For the correct installation connection values, please refer to chapter: 1.4.

The difference between the mains voltage may only be 5%.

The installation requires a correct electricity supply, with a connection point at the agreed place.

If there is no explicit statement on the grid specifications, it is assumed that we are working with a TN grid.

Always check whether the correct mains voltage is being applied.

1.3.5 PNEUMATIC COMPLIANCE

The information below can be used as a guide, but is not binding. For exact details, we refer to the electrical installer's appendices or to the electrical installer selected by the customer.

N/A

1.3.6 SAFETY CONSIDERATIONS

The design of the machine/installation/unfinished machine has taken the Machinery Directive 2006/42/EC into account.

The safety regulations must be strictly followed by the user, and the manufacturer does not accept any liability if changes are made to the machine, electrical, pneumatic and hydraulic components and safety equipment that are detrimental to the applicable safety regulations.

Maintenance work and adjustments must be carried out by personnel with sufficient knowledge of the machine/installation/unfinished machine.

In order to ensure the safety of the machine/installation/unfinished machine, and of the operator and any bystander, the following measures must be observed:

- 1) In order to ensure the optimal functioning of the machine/installation/unfinished machine, the manufacturer's recommendations must be followed; these are stated in accompanying documentation, user manual, regulations and technical datasheets.
- 2) The working conditions in which the machine/installation/unfinished machine is set up must be set up in such a way that working with the machine/installation/unfinished machine can take place optimally. The limit value determining the existing working environment is stated by the client and is described in the specifications. The workstations are defined in *Chapter 1.9*. Additional devices for the ergonomics of operators, such as heating, lighting, thoroughfares, etc., are at the expense of the client.
- 3) Workers who work with the machine/installation/unfinished machine for the first time must receive proper training. This must include inspection of the documents that accompany the machine/installation/unfinished machine.
- 4) The machine/installation/unfinished machine may only be operated from the workstations, as described in *section 1.11*.
- 5) The machine/installation/unfinished machine may only be operated by the number of operators stated in the user manual.
- 6) FB CONSTRUCT BV cannot be held responsible for defects or accidents resulting from situations indicating that implemented protective devices and other safety equipment have not been replaced in the location and manner intended by the manufacturer.

- 7) It is the duty of the operator and/or the client's safety officer that the prescribed screens and safety devices are always present on the machine/installation/unfinished machine.
- 8) Set values for the safety devices must never be set to values other than the prescribed values or the values set by the manufacturer during commissioning.
- 9) It is not permitted to carry out maintenance work and/or repairs when the machine/installation/unfinished machine is in operation.
- 10) Bypassing the electrical safety equipment is forbidden.

Additional safety measures that cordon off the work areas and/or thoroughfares must not be removed while the machine/installation/unfinished machine is in operation.

1.3.7 ASSEMBLY AND INSTALLATION

During assembly and/or installation, no unauthorised persons may be in the vicinity of the machine/installation/unfinished machine, unless the client's involvement in assembly and/or installation is specified in the specifications.

If the assembly and installation is undertaken based on BEKAERT's concerns, we refer to the guidelines in *Appendices B and C.*

1.4 GENERAL TECHNICAL DATA ON INSTALLATION

Below you can find the general connection values of the machine/installation.

| | <i>Description</i> | <i>Value</i> |
|-------------------------------------|---------------------|----------------|
| <i>Installation dimensions</i> | L x W x H (mm) | 1870x1150x2280 |
| <i>Installation weight</i> | Mass (kg) | 300 |
| <i>Maximum power</i> | Power (kW) | 1.5 |
| <i>Recommended fuse</i> | Circuit breaker (A) | 10 3x400VAC |
| <i>Recommended working pressure</i> | Pressure (bar) | - |
| <i>air consumption</i> | Flow rate (l/min) | - |

1.5 INTENDED USE AND USES TO BE DISCOURAGED

The machine/installation/unfinished machine is only intended for disentangling fibres.

- The machine/installation/unfinished machine must not be used for products with physical properties that differ from the goods described above.

The drum is relatively safe, but the most dangerous situations involve inadvisable use and foreseeably unreasonable use, such as:

- A person who climbs onto or into the machine and falls off, with all the consequences that entails.
- That is why it is forbidden to climb onto or into the machine.
- Visibility outside the work area indicated in Chapter 1.11.

1.6 OPERATING CONDITIONS

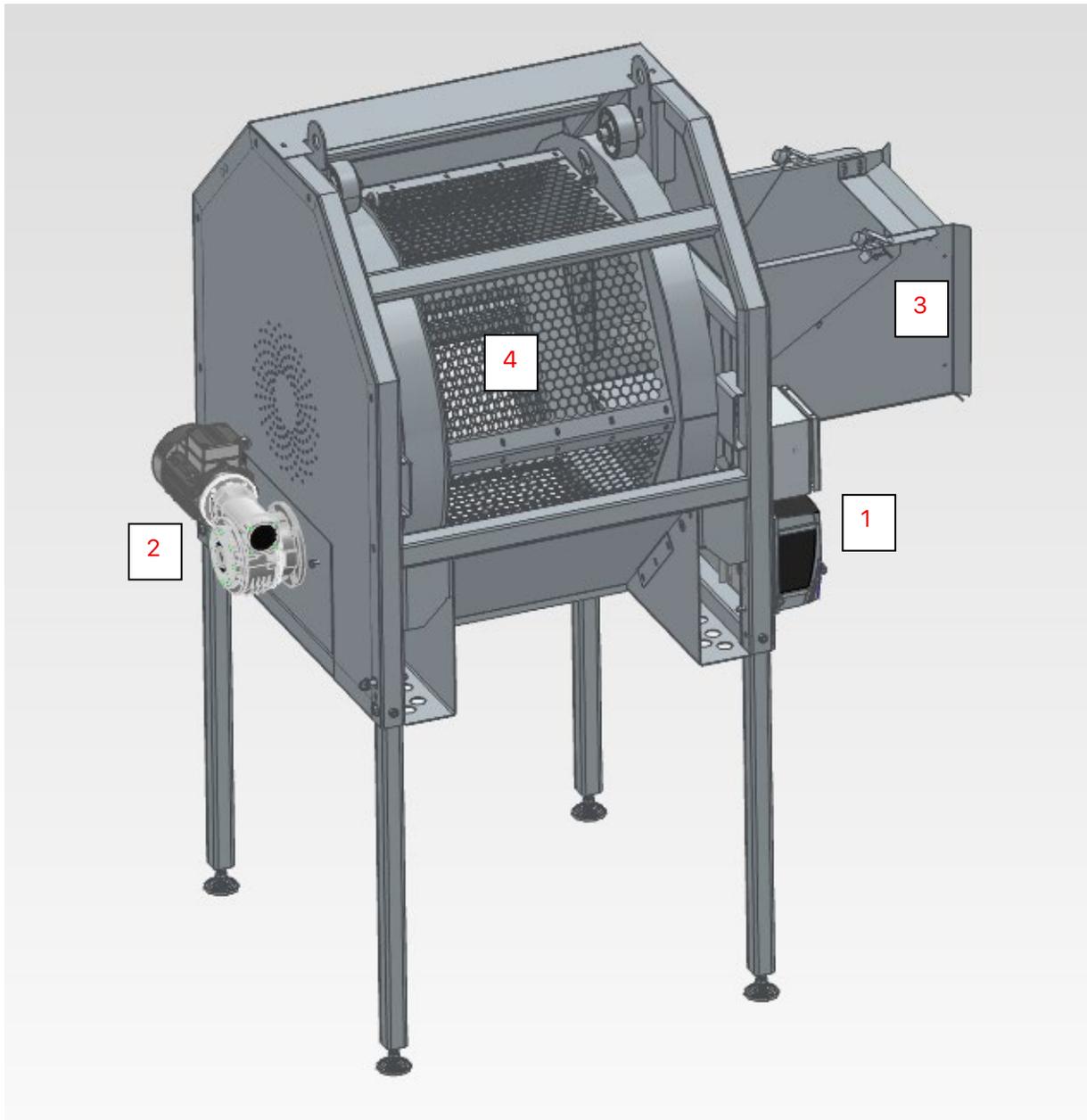
The machine/installation/unfinished machine may only be used under the operating conditions specified here:

- The machine/installation/unfinished machine must be positioned so that it is virtually level.
- The machine/installation/unfinished machine must not be used in an environment where there is a risk of explosion.
- The machine/installation/unfinished machine should not be used outdoors without the necessary noise measures, where applicable.
- The machine/installation/unfinished machine may only be used in environments with temperatures between 0 and 35 °C
- The machine/installation/unfinished machine may only be used for non-domestic purposes.

The machine/installation/unfinished machine must be assembled according to the assembly instructions in Appendix C, where applicable.

1.7 DESCRIPTION OF THE MACHINE/INSTALLATION

The following figures provide an overview of the most important components of the machine/installation/unfinished machine:



- 1) Frequency controller and emergency stop
- 2) Motor
- 3) Dosing funnel
- 4) Rotary drum

We refer to the assembly instructions in Appendices B and C, as applicable.

1.8 CONTROL UNITS

See Chapters 6 and 9.3, Appendix C.

1.9 USE OF PERSONAL PROTECTIVE EQUIPMENT

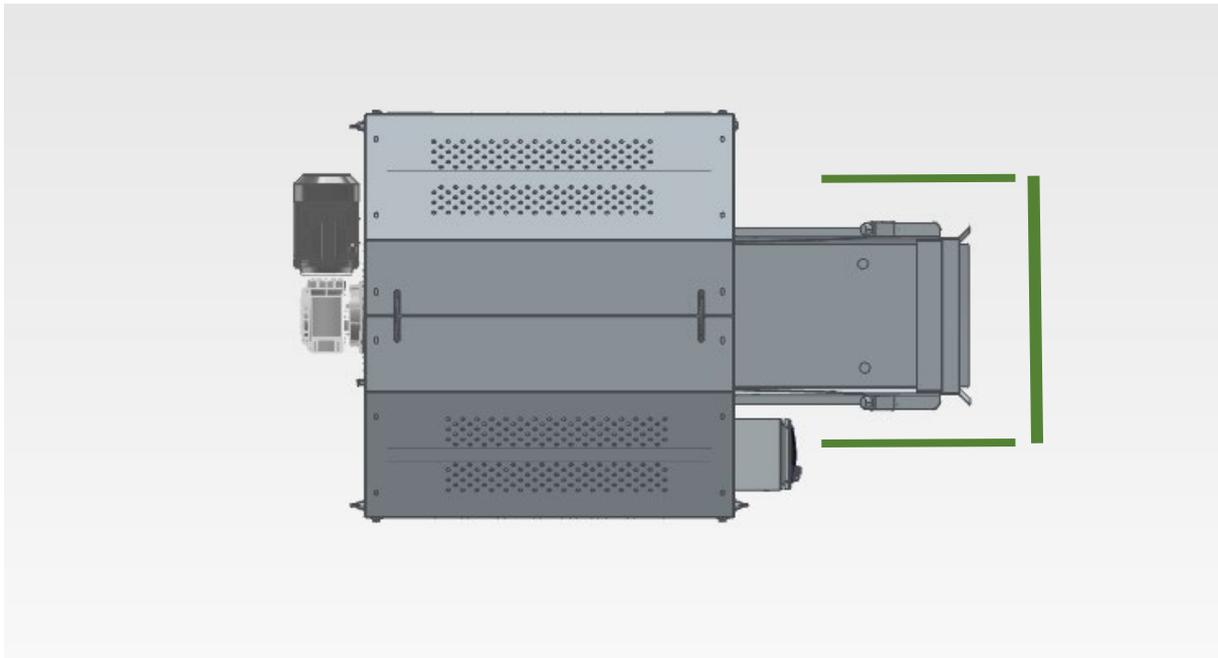
FB CONSTRUCT BV recommends that you wear personal protective equipment and avoid loose clothing and unfastened hair when undertaking all operations that you perform on the machine/installation/unfinished machine!

The recommended PPE for each task is described in more detail in the manual in Chapter 3.3

1.10 USER WORKSTATION

The siting of the machine/installation/unfinished machine in the surrounding area is determined by BEKAERT and may or may not be used in a work area. BEKAERT determines the conditions for any workstation. BEKAERT must carry out the risk analysis of the surrounding area and installation. The machine/installation/unfinished machines are autonomously operating machines.

The operator can tip the boxes of fibres into the machine using the chute. These can be introduced from the positions indicated in green.



2 WARRANTY PROVISION

Unless otherwise agreed when ordering, the general warranty provisions of 1 year apply for use of 8 hours a day. The warranty period starts on the day of commissioning of the machine/installation/unfinished machine (see below).

Parts purchased from third parties are covered by the same warranty as those obtained from our suppliers. During the warranty period, all defects or defects must be reported to the supplier without delay. The necessary measures must be taken to limit possible damage. If necessary, the machine/installation/unfinished machine must be shut down!

All damage to parts of the machine/installation/unfinished machine caused by material, manufacturing or construction defects within the warranty period will be remedied by FB CONSTRUCT BV as promptly as possible. There are no material costs associated with this for the user of the machine/installation/unfinished machine. The costs of working hours, travel costs, accommodation costs, hiring of necessary equipment, will be borne by BEKAERT. FB CONSTRUCT BV cannot be held liable for loss of production, within or outside the warranty period, caused by the machine/installation/unfinished machine, in accordance with the Product Liability Directive, 85/374/EEC.

The machine/installation/unfinished machine is made of new materials.

The warranty will expire if:

- The machine/installation/unfinished machine is no longer in the condition in which it was placed on the market, without the knowledge of FB CONSTRUCT BV.
- The damage is caused by use other than that referred to in section 1.3, improper maintenance or modifications to the machine/installation/unfinished machine.
- The machine/installation/unfinished machine has not been assembled or disassembled by qualified staff, who are familiar with the content of these user manual.
- Parts are assembled other than the original FB CONSTRUCT BV parts.
- The machine/installation/unfinished machine without a screen over the motor and control cabinet has been stored in a damp place.
- The machine/installation/unfinished machine is incorrectly connected to the power supply.
- The damage consists of a burnt electric motor.
- Wear and tear on the installation caused by foreign objects (such as tools left lying around).
- Wear on the belt, caused by misalignment or sharp foreign objects.
- Wear or breakage due to failure to follow the instructions listed in Appendix C.

| | |
|---|---|
| <p>Type: 25-032 – IDF – 101 BE – Drum</p> <p>Delivery date: 25/11/2025</p> <p>Signature:</p>  <p>Filip Boysen (Business Manager)</p> | <p>FB CONSTRUCT BV Amersveldestraat 142c B-8610 HANDZAME TEL: +32 474 46 50 11</p> <p>email: info@fbconstruct.be website: www.fbconstruct.be</p> |
|---|---|

3 SAFETY

This chapter covers all safety aspects of the machine/installation/unfinished machine. It is therefore of great importance that everyone who works with the machine/installation/unfinished machine is aware of the content of this chapter.

3.1 REPETITION OF THE MAIN SAFETY RISKS

The following health and safety risks deserve attention in respect of the machine/installation/unfinished machine (the numbers refer to the sections in this manual where the specified risks are discussed):

01-Mechanical
02-Electrical
03-Pneumatic
04-Noise
09-Surrounding area
31-Stability

During the design of the machine/installation/unfinished machine, every effort has been made to reduce these risks as much as possible; the safety measures implemented for this purpose are listed in Chapter 3.2. In order to protect against the remaining risks, the operator of the machine/installation/unfinished machine will have to observe the necessary safety measures. These are listed in Chapter 3.3.

3.2 DESCRIPTION OF THE SAFETY MEASURES

In order to make using the machine/installation/unfinished machine as safe as possible, the following safety measures have been implemented:

3.2.1 01-MECHANICAL:

The moving parts of the machine/installation/unfinished machine are screened off as much as possible and the screen must be removed with tools.

3.2.2 ELECTRICAL

The machine is fitted with an emergency stop to stop the installation at any time.
The frequency controller is fitted with a built-in thermal protection for the motor.

3.2.3 PNEUMATIC

N/A

3.2.4 NOISE

The sound pressure of the machine/installation/unfinished machine is less than 70 dB(a)

3.2.5 SURROUNDING AREA

- We recommend clearly demarcating the zones on the ground
- We recommend regular cleaning and brushing of the machine.

3.2.6 STABILITY

No strength calculations have been carried out, all constructions and components have been chosen by the structural designer in accordance with good professional practice.

3.3 SAFETY PRECAUTIONS TO BE OBSERVED

For safe use of the machine/installation/unfinished machine, a number of safety measures must be observed; these are listed below by category.

3.3.1 PERSONAL PROTECTIVE EQUIPMENT

FB CONSTRUCT BV recommends that you wear safety shoes, safety gloves, and safety glasses while using the machine/installation/unfinished machine.

Tie up any unfastened hair.

3.3.2 PREPARATION FOR SAFE USE

- Make sure that operating procedures, minor maintenance work and procedures for setting up, assembling and moving the machine/installation/unfinished machine are carried out exclusively by qualified personnel, i.e. personnel who are competent and familiar with the contents of this manual.
- Provide a correct, stable set-up
- The connection and circuit inside the machine is fitted with a safety earth. Make sure you have a proper earth connection.
- Use extension cords with earthing of a sufficiently large diameter and with a voltage source that is fitted with an earth leakage switch.
- Make sure that the wall socket and any connections between extension cords are properly protected from moisture. Do not unplug the connector by the cord.
- Before starting up the machine, ensure that all screens are mounted correctly.

3.3.3 SAFETY PRECAUTIONS DURING USE

- Keep the area around the machine/installation/unfinished machine free of materials and other obstacles
- Do not place any loose tools or parts on the machine/installation/unfinished machine. These can end up or fall between the moving parts.
- If you leave the machine/installation/unfinished machine unattended, turn off the master switch with the key lock and remove the key.
- The sound pressure of the machine/installation/unfinished machine is less than 70 dB(A)
- Make sure the surrounding area is as clean as possible.

3.3.4 SAFETY MEASURES DURING INSPECTION, CLEANING AND MAINTENANCE

- Ensure that maintenance and repair work is carried out only by competent and skilled persons. This work may only take place when the machine/installation/unfinished machine is at a standstill.
- When opening the control cabinet and during maintenance, make sure that the electricity is switched off.
- Make sure that other power sources are switched off and/or disconnected and that the circuit is depressurised or de-energised.
- If anyone has to be inside the screen, near any rotating parts, the machine must be electrically switched off and locked out.

WARNING:

THE MACHINE/INSTALLATION/UNFINISHED MACHINE MUST BE PUT INTO SERVICE BY BEKAERT 'S INTERNAL ACCIDENT PREVENTION SERVICE. TRAINING AND SAFETY INSTRUCTION CARDS MUST BE PREPARED.

ENSURE THAT MAINTENANCE AND CLEANING ARE CARRIED OUT BY TRAINED PERSONNEL, WHO ARE FAMILIAR WITH THE HAZARDS AND RESIDUAL RISKS OF THE MACHINE/INSTALLATION/UNFINISHED MACHINE AND THE CONTENTS OF THIS USER MANUAL

PAY PARTICULAR ATTENTION TO DISCONNECTING THE POWER SUPPLIES AND DE-ENERGIZING THE VARIOUS CIRCUITS!!!

3.3.5 MEASURES TO KEEP THE MACHINE/INSTALLATION/UNFINISHED MACHINE IN GOOD CONDITION

- Make sure that the machine/installation/unfinished machine is always in good condition, which includes the paintwork. When carrying out repairs, use only suitable materials and working methods that are appropriate for the intended use
- For the known wear parts, use only parts supplied by FB CONSTRUCT BV
- If the machine/installation/unfinished machine is used regularly, check it at least once a week and clean it regularly.

3.3.6 SAFETY MEASURES WHEN FINISHING THE MACHINE/INSTALLATION/UNFINISHED MACHINE

- Make sure that all power sources are disconnected and that the circuit is depressurised or de-energised.
- Ensure that machine/installation/unfinished machine is properly and stably anchored when moving.
- Use common sense when disassembling.

Tip:

Draw up a safety plan with the internal accident prevention advisor to safely dismantle the machine/installation/unfinished machine; ask the manufacturer for assistance if necessary!

3.4 RESIDUAL RISKS

The residual risks associated with this machine/installation/unfinished machine, after the risk assessment and the mitigating measures are as follows, with reference to Appendix I of the Machinery Directive 2006/42/EC:

- The interference of the rotating drum upon discharge of the fibres (if the conveyor belt is not connected properly).

3.5 EXPLANATION OF THE SYMBOLS ON THE MACHINE/INSTALLATION/UNFINISHED MACHINE

The machine has stickers to designate the danger of jamming when the fibres are discharged:



4 TRANSPORT AND STORAGE

We recommend providing people with experience in handling and moving machinery to disassemble and move the machine/installation/unfinished machine.

The ideal solution is to involve the machine manufacturer itself in such operations!

In any case, the people who perform the operation constitute a special target group that must have knowledge of the following information:

The sections that are specifically of interest, in addition to the full manual, are:

- '1.3 Intended use and uses to be discouraged'*
- '1.8 Use of personal protective equipment'*
- '3. Safety'*
- '4.3 The way in which the machine/installation/unfinished machine or parts thereof must be lifted'*
- '6. Operation'*
- '7. Cleaning and maintenance'*

We hereby consider BEKAERT's own employees, regardless of the target group, to be unauthorised to disassemble, load and unload the machine/installation/unfinished machine.

4.1 DISASSEMBLY

4.1.1 DOCUMENTING THE EXISTING SITUATION

- Take extensive overview photos of the existing situation.
- Take extensive detail photos of the individual parts.
- Take extensive detail photos of any transitions.
- Take extensive detail photos of the connections.
- Provide an extensive file based on the original drawings, photos, sketches, etc., so that the most important dimensions are noted.
- Make sure that each machine/installation/unfinished machine is identified and provided with weight indications.
- Make sure that all parts of a machine/installation/unfinished machine, which will be moved separately, are marked with weight indications.
- Identify the parts being moved separately, so that they can be reassembled afterwards, without confusion.

4.1.2 DISASSEMBLING THE MACHINES

WARNING:

PAY PARTICULAR ATTENTION TO DISCONNECTING THE POWER SUPPLIES AND DE-ENERGIZING THE VARIOUS CIRCUITS!!!

- Make a list of the necessary handling equipment or installations for gaining access to the existing situation.
- Organise the means of transport for the machine/installation/unfinished machine or parts thereof in such a way that handling does not have to take place a second time.
- Cordon off the safety zones and determine which people are authorised in that zone.
- Follow the step-by-step plan and disassemble the machine/installation/unfinished machine.

Make sure that the people who are handling the machine/installation/unfinished machine or parts thereof are trained to use the equipment such as a forklift truck, telescopic handler, crane, etc.!!

Observe the necessary rest periods!!

4.2 TRANSPORT

The transport of the machine/installation/unfinished machine or parts thereof depends on:

- The dimensions and weight of the machine/installation/unfinished machine or parts thereof?
- Access options to the site.
- Transport distance.
- Countries and route (land, sea, air) through which the transport consignment needs to pass.
- The characteristics of the machine/installation/unfinished machine or parts thereof.

It is, in any case, best to map out the route, long or short, complex or simple and, where possible, to provide a safe passage.

Of course, it is extremely important that the machine/installation/unfinished machine or parts thereof is properly anchored to the means of transport and fully secured against moving.

Although the carrier is responsible for securing the goods when transporting them by public road, it is advisable to check them yourself as well.

Make sure you are adequately insured for any incidents.

4.3 THE WAY IN WHICH THE MACHINE/INSTALLATION/UNFINISHED MACHINE OR PARTS THEREOF MUST BE LIFTED.

WARNING:

**NEVER, EVER STAND, CRAWL OR LIE DOWN UNDER THE LOAD!!!
WHERE APPLICABLE, FOLLOW THE INSTRUCTIONS FOR WORKING AT HEIGHTS!!**

Appendix C of the manual contains a diagram for each machine/installation/unfinished machine or marketable component showing how it should be handled.

4.4 TOOLS AND ACCESSORIES REQUIRED

Appendix C of the manual contains a diagram for each machine/installation/unfinished machine or marketable component showing how it should be handled.

4.5 ANY PACKAGING/PRESERVING TREATMENT

If a machine/installation/unfinished machine is lifted using uncoated forks made of carbon steel, this can cause rust marks on the machine/installation/unfinished machine.

4.6 STORAGE CONDITIONS

When storing the machine/installation/unfinished machine for a period of time, it is advisable to do so in a dry place and to cover it to prevent dust.

If the storage is subject to salty sea air or other aggressive environments, it is better to oil it completely or to vacuum-pack it.

5 ASSEMBLY , (DIS)ASSEMBLY, COMMISSIONING

We recommend providing people with experience in handling and moving machinery to disassemble and move the machine/installation/unfinished machine.

The ideal solution is to involve the machine manufacturer itself in such operations!

We hereby consider BEKAERT's own employees, regardless of the target group, to be unauthorised to assemble or test run the machine/installation/unfinished machine.

5.1 UNPACKING

Usually, the larger machines/installations/unfinished machines are not packed and can be unloaded directly from the means of transport after unloading.

First check the goods are stable on the means of transport before loosening them!!

Cordon off the safety zone around the means of transport and ensure that there are no unauthorised persons in the vicinity.

If any packaging is lost, it must be disposed of in accordance with applicable local environmental legislation!

This is the responsibility of BEKAERT.

5.2 ASSEMBLY

- Create a step-by-step plan of how, what, and when will happen.
- Make a list of the necessary handling equipment or installations for gaining access to the existing assembly sites.
- Cordon off the safety zones and determine which people are authorised in that zone.
- Follow the step-by-step plan and assemble the machine/installation/unfinished machine.

Make sure that the people who are handling the machine/installation/unfinished machine or parts thereof are trained in the use of the equipment such as a forklift truck, telescopic handler, crane, etc.!!

Observe the necessary rest periods!!

Never, ever stand, crawl or lie down under the load!!

Appendix C of the manual contains a diagram for each machine/installation/unfinished machine or marketable component showing how it should be handled.

The machine/installation/unfinished machine must be assembled in such a way that minimal vibration is transmitted to the floor or chassis.

5.2.1 REFERENCE (DIRECTIVE 2006/42/EC, APPENDIX VI)

An assembly manual is provided for unfinished machines in *Chapter 9, 'Appendix C'*, where applicable.

The assembler is obliged to bring the assembly into compliance with the Machinery Directive 2006/42/EC before the installation may be put into service.

5.3 CONNECTING

Connect the machine according to the connection values found in Chapter 1.4

5.4 SETUP/ADJUSTMENT

Setup and adjustment consists of a specific procedure and instructions that can be found in Appendices B and C of this manual. The operating manual can also be found in Chapter 6.

5.5 TEST RUN

WARNING:

Before operating the machine/installation/unfinished machine, you must ensure that the following conditions are met:

- There are no persons or objects on the machine/installation/unfinished machine.
- The space round the machine/installation/unfinished machine is free of obstacles.
- The machine/installation/unfinished machine is installed correctly.
- The screens are correctly mounted and functional.

The sound pressure of the machine/installation/unfinished machine is less than 70 dB(A)
If otherwise, this is stated and PPE is recommended.

If the sound pressure is different than stated, the cause must be investigated!

Noise and vibrations are a warning of possible wear, defects and incorrect assembly.

Human hearing is part of preventive maintenance!

Keep your ears open at all times to detect any abnormal vibrations and sounds.

5.6 SERVICES TO BE PROVIDED BY THE CUSTOMER

The customer has some services, of course, that it must provide, such as:

- Access to the site
- Connection points for various facilities in the agreed places
- Utilities in accordance with best practice and adequate for the intended applications and in accordance with agreements, as specified in the contract where applicable.
- Provision of the necessary specifications
- ...

5.7 REQUIRED SPECIAL TOOLS AND EQUIPMENT

N/A

6 OPERATION

The actual operation of the machine/installation/unfinished machine is very simple. However, it is extremely important to observe all safety regulations when working with the machine/installation/unfinished machine.

Before operating the machine/installation/unfinished machine, you must ensure that the following conditions are met:

- There are no persons or objects on the machine/installation/unfinished machine.
- The space round the machine/installation/unfinished machine is free of obstacles.
- The machine/installation/unfinished machine is installed correctly.
- The screens are correctly mounted and functional.

6.1 OPERATING INSTRUCTIONS

The machine mainly runs fully automatically. For a detailed description of the operation, please refer to Chapter 9.3, 'Appendix C'.

6.2 EMERGENCY STOP

The machine is equipped with a general emergency stop.

6.3 SPECIAL SAFETY CONSIDERATIONS

- To replace the motor or drive belt, the master switch on the frequency controller must be locked.

6.4 TOOL LIFE

Not applicable.

6.5 LIST OF FAULTS

See Chapter 9, 'Appendix C' on how to operate the machine.

6.6 DAILY CLEANING, MAINTENANCE AND INSPECTION ACTIVITIES

We recommend cleaning daily on and around the machines for hygienic reasons and also to avoid the risk of slipping.

Before starting the machine, it must be visually inspected to ensure nothing can get jammed.

See Chapter 7.

7 CLEANING AND MAINTENANCE

7.1 NATURE AND FREQUENCY OF MAINTENANCE WORK

Keep a logbook of all interventions.

This is, incidentally, part of the dynamic prevention policy under Belgian law.

These are machine-specific tasks, but some general points can always be taken into consideration:

- After prolonged periods of inactivity, check that the lubricating grease/oil is reaching the correct location. If necessary, replace the pipes annually as a preventive measure.
- Replace the bearings of the (functional) and safety-critical parts annually.
- In total, there is 1 grease nipple on each bearing. Lubrication must be completed monthly, and weekly with intensive use. The bearings are located by the drive and return roller.
- For the gearboxes with a gauge glass and filler cap, it is advisable to check the oil level on a monthly basis, and to add oil if necessary. The other gearboxes are maintenance-free. If, after a long period of use, a layer of grease separates on the cabinet, precautions must be taken, such as replacing the oil seals. See also the enclosed technical documentation of the gearboxes themselves.
- For specific maintenance instructions, please refer to Appendices A, B and C.

7.2 NATURE AND FREQUENCY OF CLEANING WORKS

This is determined by the customer depending on the load on the installation and the scheduling of the various types of cleaning work. In any case, immediate action must be taken when spilling to avoid the risk of slipping.

The machines are manufactured from mainly stainless steel components. This means that they are cleaned in the morning using the most common cleaning products used in the industry.

If you have any doubts, please contact FB CONSTRUCT BV. After analysing the information sheet for the item of equipment being used, we can advise whether or not it can be used.

CAUTION: NEVER SPRAY AT HIGH PRESSURE ON THE FOLLOWING PARTS:

- ELECTRICAL COMPONENTS AND PHOTOCELLS
- BEARINGS
- MOTOR GEARBOXES

All of the above should be cleaned with a wet cloth, if necessary with a small amount of cleaning product.

7.3 NATURE AND FREQUENCY OF INSPECTIONS

7.3.1 DAILY

- N/A
-

7.3.2 WEEKLY

During the weekly inspection, pay special attention to the following points:

- The electrical insulation.
- The correct functioning of the controls and especially the emergency stop devices.

7.3.3 MONTHLY

- Wear parts listed in Appendix A.

7.4 WHO IS AUTHORISED TO CARRY OUT THE AFOREMENTIONED ACTIONS?

WARNING:

Maintenance and repair work must be carried out by competent and skilled persons, preferably by the manufacturer's qualified technicians, your dealer or your own technical department.

In case of problems or doubts, do not hesitate to contact us!

We consider the employees who are authorised, especially those whose job it is to adjust, set up, clean and maintain the machine/installation/unfinished machine.

The sections that are specifically of interest, in addition to the full manual, are:

'1.3 Intended use and uses to be discouraged'

'1.8 Use of personal protective equipment'

'3. Safety'

'4.3 The way in which the machine/installation/unfinished machine or parts thereof must be lifted'

'6. Operation'

'7. Cleaning and maintenance'

7.5 REQUIRED RESOURCES, TOOLS AND EQUIPMENT

Not applicable.

7.6 SAFETY MEASURES TO BE OBSERVED DURING CLEANING AND INSPECTION

See Chapter 3.3

8 DISPOSAL

After years of intensive use, your machine/installation/unfinished machine is ready for replacement and so you can dispose of it safely and in an environmentally responsible manner as follows.

We recommend providing people with experience in handling and moving machinery to disassemble and move the machine/installation/unfinished machine.

8.1 DISCONNECTING THE POWER SOURCES

Ensure that the power sources are disconnected by specialists in the field.

8.2 DISASSEMBLY

See *point 4.1*

8.3 DRAINING LIQUID RESERVOIRS

The draining of liquid reservoirs must be carried out in accordance with the relevant guidelines, where applicable. We are referring to the ATEX 153 directive.

Furthermore, the evacuation or destruction of the liquids must be carried out in accordance with locally applicable environmental legislation!

8.4 TRANSPORT

See *Chapter 4.2*

8.5 REUSE

If there are parts that are eligible for reuse, this must be done in accordance with the locally applicable environmental legislation!

This is the responsibility of BEKAERT.

8.6 DESTRUCTION

Lost parts or parts to be destroyed must be disposed of in accordance with the applicable local environmental legislation!

This is the responsibility of BEKAERT.

9 APPENDICES

9.1 APPENDIX A – SPARE PARTS AND WEAR PARTS

9.1.1 SPARE PARTS (BOM)

For drawing, see Appendix B.

Purchased items:

Elesa Ganter:

Locking pin: GN 214.3-12-70

Small support wheels: RE.F8-065-RBL

Large wheels: RE.F4-125-RSL

Hatches: GN 237-NI-63-50-A-GS

Vibration dampers: DVA.4-30-20-SST-M8-20-NK55

Chain tensioner spring element: Cresa RE30

Chain tensioner roller: Cresa RP/2/3 D40x46

Drive belt SPB 1750

Belt pulleys: SPB 315 TL 2012

Taper bush motor and drum: 2012 D30

Motor: 085 i67, FC flange. 1.5 kW 4 pin motor B14

Frequency controller: Invertek ODP2 – 2.2 KW IP65

Safety relay: Schneider XPSBAC14AP

9.2 APPENDIX B: DRAWINGS, DIAGRAMS AND TECHNICAL SPECIFICATIONS

9.2.1 TECHNICAL DRAWINGS

Detailed drawings can be obtained on request from FB CONSTRUCT BV.

For an outline drawing with BOM see:

- Appendix B1- BOM drawing

9.2.2 ELECTRICAL DIAGRAMS

See *Appendix B2*

9.3 APPENDIX C: INSTRUCTIONS, PROCEDURES AND SPECIFIC TECHNICAL MANUALS

9.3.1 OPERATING THE MACHINE

The machine is equipped with an emergency stop, reset button and frequency control where the general controls can be found.

A reset must be carried out upon starting up for the first time (or after an emergency stop).

The drum can be activated by turning the rotary switch on the front of the frequency control clockwise. The speed can be controlled by turning the rotary knob on the frequency control.



9.3.2 MAINTAINING THE MACHINE

The machine has no lubricated parts.

Check the tension of the drive belt and the condition of the wheels on a monthly basis.

If necessary, slightly tighten the belt tensioner or replace the running wheels.

9.3.3 HANDLING THE MACHINE

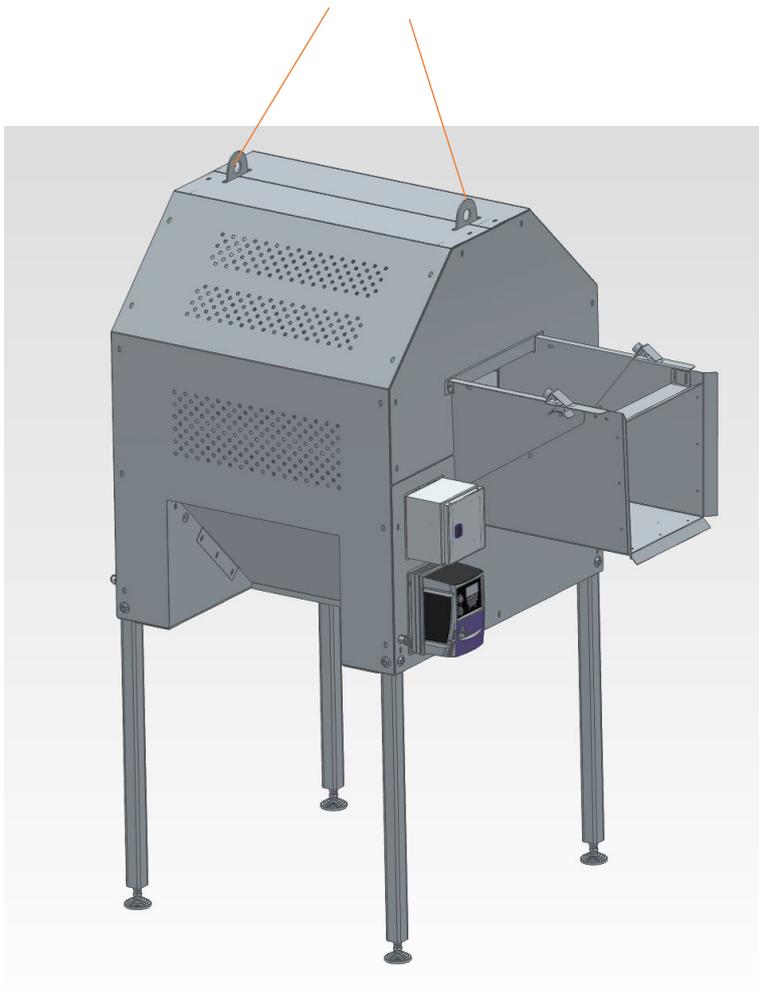
9.3.3.1 UNLOADING OF MACHINE

TIP: WHEN LIFTING, FIRST CHECK THAT THE MACHINES ARE PROPERLY BALANCED. YOU CAN THEN LIFT THE MACHINE. NEVER LIFT HIGHER THAN NECESSARY.

The respective weights of the machines can be found on nameplate or in [Chapter 10.2](#). If the nameplate is damaged, or there is some other reason for any doubt, contact FB CONSTRUCT BV for the correct data.

Only handle the machine using the provided lifting eyes.

See the figures below on how to safely load and unload the machine:



9.3.3.2 MOVING THE MACHINE

Only move the machine by following the actions set out in Chapter 9.3.3.1.

10 EC DECLARATIONS + IDENTIFICATION PLATES

10.1 EC DECLARATION

(see next page)

**EC DECLARATION OF CONFORMITY IN ACCORDANCE WITH APPENDIX II OF
DIRECTIVE 2006/42/EC**

The manufacturer:

FB Construct bv
Amersveldestraat 142c
8610 Handzame
Belgium

Authorised to compile the relevant technical documents:
Filip Boysen - *Managing Director*

DESCRIPTION AND IDENTIFICATION OF THE MACHINE:

| | |
|------------------|----------------------|
| Generic name: | IDF – 101 BE – Drum |
| Function: | Disentangling fibres |
| Serial number(s) | 25-032 |

THE FINISHED MACHINE COMPLIES WITH THE FOLLOWING EC DIRECTIVES:

- 2006/42/EC – Machinery Directive
- 2014/35/EU – Low Voltage Directive

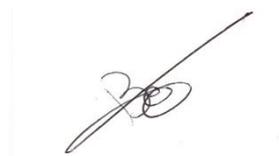
THE MACHINE COMPLIES WITH THE FOLLOWING HARMONIZED STANDARDS:

- EN ISO 12100:2010 – Safety of machinery – Basic concepts, general design principles – Part 1: Basic terminology, methodology.
- EN ISO 13857:2008 – Safety of machinery – Safety distances to prevent hazardous areas from being reached by upper and lower limbs.
- EN ISO 13854
- EN ISO/TR 14121-2
- EN ISO 4414
- IEC/TR 61000-5-2

Drawn up in:

Kortemark, 25/11/2025

Filip Boysen





FB Construct bv www.fbconstruct.be
Amersveldestraat 142c - 8610 - Kortemark



Serie nr.:

Type:

Gewicht:

Datum:

| Serial number | Type | Weight | Date |
|---------------|---------------------|--------|-------|
| 25-032 | IDF – 101 BE – Drum | 300 | 11-25 |
