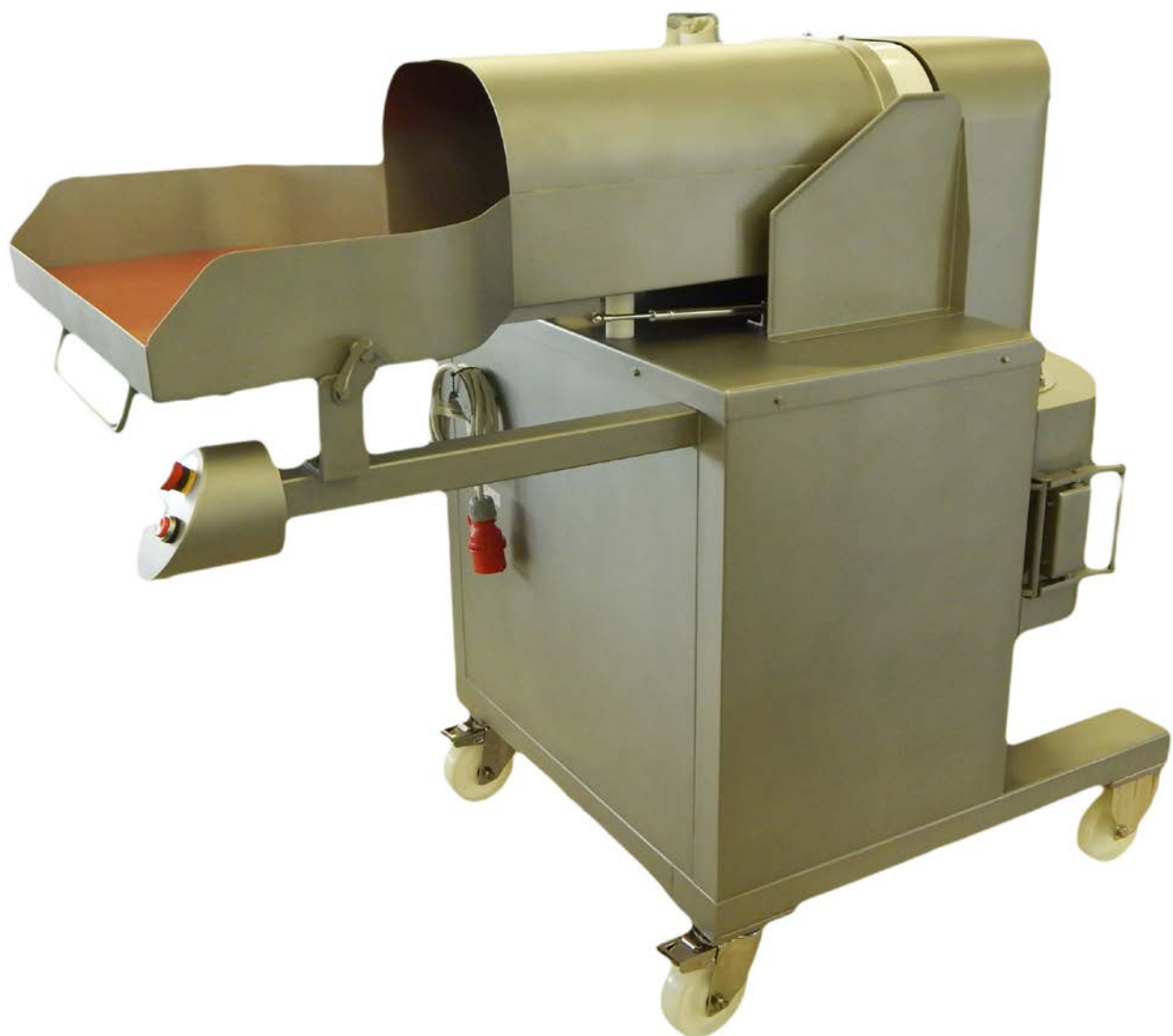


# Operating Manual Fruit Declumper

## **FAM 16**

Translation of the German Original



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|---------------|------------------|----------|----------------------|--------------|
| Generated:    | Reviewed:        | Revised: | Status: 300 released | Page 2 of 26 |
| Ralph Moretti | Michel Benkovics |          | Document number:     | Index        |
| 12 Feb 2018   |                  |          |                      | BA           |

## SAFETY GUIDELINES

This operating manual provides information which the operator of the device needs to observe in order to ensure personal safety and to prevent damage to property. All safety issues are pointed out by warning triangles and classified according to their degree of risk:



### **DANGER!**

Death, severe bodily injury or considerable damage to property will occur if the respective precautions are not taken.



### **WARNING!**

Death, severe bodily injury or considerable damage to property may occur if the respective precautions are not taken.



### **CAUTION!**

Minor bodily injury or damage to property may occur if the respective precautions are not taken.



### **NOTE!**

Important information on the product, on handling procedures or on a specific part of the documentation you should pay particular attention to.

### **Qualified personnel**

The FAM16 fruit declumper may be commissioned and operated by qualified personnel only. A person is deemed qualified in regard to the safety regulations contained in this operating manual if he or she has received training and instructions on the system.

### **Please note:**

The manufacturer cannot be held liable for accidents or damages caused by the non-observance of the safety instructions, by inadequate procedures or by inappropriate use.



### **WARNING!**

The FAM16 fruit declumper may only be used for the applications described in the specifications and technical description and with the spare parts recommended by Brunner-Anliker AG.

Smooth and safe operation of the product depends on its professional and correct transport, storage, installation and assembly as well as on its proper and careful handling and maintenance.

|               |                  |          |                      |              |
|---------------|------------------|----------|----------------------|--------------|
| Generated:    | Reviewed:        | Revised: | Status: 300 released | Page 3 of 26 |
| Ralph Moretti | Michel Benkovics |          | Document number:     | Index        |
| 12 Feb 2018   |                  |          |                      | BA           |

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Brunner-Anliker AG  
8302 Kloten  
Switzerland

## Disclaimer

We reviewed the contents of this publication to ensure compliance with the described FAM16 fruit declumper. As differences cannot, however, be completely excluded, we cannot guarantee absolute compliance. The information provided in this publication is reviewed at regular intervals and the changes are included in the subsequent issue.

We welcome any suggestions for improvements.

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|               |                  |          |                      |              |
|---------------|------------------|----------|----------------------|--------------|
| Generated:    | Reviewed:        | Revised: | Status: 300 released | Page 4 of 26 |
| Ralph Moretti | Michel Benkovics |          | Document number:     | Index        |
| 12 Feb 2018   |                  |          |                      | BA           |

## PREAMBLE / IMPORTANT INFORMATION

**Purpose of this operating manual** This operating manual is meant to support the specialist in familiarizing with and handling the FAM16 fruit declumper.

**Readers** This operating manual is intended for all those installing, operating and maintaining the FAM16 fruit declumper made by Brunner-Anliker AG.

**Notification obligation** The operating manual and applicable regulations must be kept in a place accessible to the operating and maintenance personnel



### NOTE!

In addition to the operating manual, all those handling the IR 250 must observe and be instructed on the generally applicable and mandatory regulations relevant to accident prevention.

**Scope of application of this operating manual** This operating manual applies to the FAM16 fruit declumper.



### NOTE!

Functional modifications to the FAM16 fruit declumper annul all liability and warranty claims.

**Obligations of the operating company** The operator is obligated to operate the FAM16 fruit declumper in flawless condition only. Hazard spots between the FAM16 fruit declumper and customer equipment must be secured by the operator.

Please read this operating manual carefully and completely. Contact us immediately in case of uncertainties. Do not operate the device before all uncertainties have been clarified. By commissioning the equipment, you confirm that you have read and understood the operating manual contents.



### HAZARD!

Accidents may occur if the FAM16 fruit declumper is not used as intended or in improper or defective condition.

|               |                  |          |                      |              |
|---------------|------------------|----------|----------------------|--------------|
| Generated:    | Reviewed:        | Revised: | Status: 300 released | Page 5 of 26 |
| Ralph Moretti | Michel Benkovics |          | Document number:     | Index        |
| 12 Feb 2018   |                  |          |                      | BA           |

## Table of contents

|           |                                                          |           |
|-----------|----------------------------------------------------------|-----------|
| <b>1</b>  | <b>Introduction</b>                                      | <b>8</b>  |
| <b>2</b>  | <b>Intended use</b>                                      | <b>8</b>  |
| 2.1       | Limitation of liability                                  | 8         |
| <b>3</b>  | <b>System components</b>                                 | <b>9</b>  |
| 3.1       | Front view (operator side)                               | 9         |
| 3.2       | Rear view                                                | 10        |
| <b>4</b>  | <b>Scope of supply</b>                                   | <b>11</b> |
| 4.1       | Scope of supply                                          | 11        |
| 4.2       | Accessories                                              | 12        |
| <b>5</b>  | <b>Transport and installation instructions</b>           | <b>13</b> |
| 5.1       | Consignment                                              | 13        |
| 5.2       | Start-up                                                 | 13        |
| <b>6</b>  | <b>Operation</b>                                         | <b>14</b> |
| 6.1       | Preparing the machine                                    | 14        |
| 6.2       | Fruit processing                                         | 18        |
| <b>7</b>  | <b>System maintenance</b>                                | <b>19</b> |
| 7.1       | Cleaning                                                 | 19        |
| <b>8</b>  | <b>Troubleshooting</b>                                   | <b>21</b> |
| 8.1       | Delivered fruit too big - fruit not completely declumped | 21        |
| 8.2       | Delivered fruit too small - fruit crushed or cut.        | 21        |
| 8.3       | Obstruction - nothing goes in, nothing goes out          | 21        |
| 8.4       | Service line                                             | 22        |
| <b>9</b>  | <b>Spare parts</b>                                       | <b>22</b> |
| 9.1       | Disposal                                                 | 22        |
| <b>10</b> | <b>Transfer to third parties</b>                         | <b>22</b> |
| <b>11</b> | <b>Technical specifications</b>                          | <b>23</b> |
| 11.1      | Dimensional drawing                                      | 24        |
| <b>12</b> | <b>CE Conformity Declaration</b>                         | <b>25</b> |
| <b>13</b> | <b>Warranty</b>                                          | <b>26</b> |

## List of illustrations

|                                                            |    |
|------------------------------------------------------------|----|
| Fig. 1: Rear view .....                                    | 9  |
| Fig. 2: Rear view .....                                    | 10 |
| Fig. 3: Pre-separator hook .....                           | 11 |
| Fig. 4: Spiral separator .....                             | 11 |
| Fig. 5: Scraper unit .....                                 | 11 |
| Fig. 6: 6-mm Allen® key .....                              | 11 |
| Fig. 7: Perforated plate variant .....                     | 12 |
| Fig. 8: Spiral separator variant.....                      | 12 |
| Fig. 9: Locking the caster brake.....                      | 13 |
| Fig. 10: Observe the rotation direction! .....             | 13 |
| Fig. 11: Opening the hood .....                            | 14 |
| Fig. 12: Hood open .....                                   | 14 |
| Fig. 13: Installing the scraper unit .....                 | 14 |
| Fig. 14: Inserting the perforated plate .....              | 15 |
| Fig. 15: Mounting the spiral separator .....               | 15 |
| Fig. 16: Spiral separator mounted .....                    | 15 |
| Fig. 17: Mounting the pre-separator hook .....             | 15 |
| Fig. 18: Pre-separator hook mounted .....                  | 15 |
| Fig. 19: Adjusting / removing the scrapers .....           | 16 |
| Fig. 20: Adjusting the scrapers .....                      | 16 |
| Fig. 21: Scraper arrangement .....                         | 16 |
| Fig. 22: Scraper.....                                      | 17 |
| Fig. 23: Twin spiral separator mounted on the bottom ..... | 17 |
| Fig. 24: Lifting the slide .....                           | 18 |
| Fig. 25: Locking the chute .....                           | 19 |
| Fig. 26: Lifting the plastic plate .....                   | 19 |
| Fig. 27: Scraper unit across the plate .....               | 20 |
| Fig. 28: Inserting the plate .....                         | 20 |
| Fig. 29: Perforated plate edges.....                       | 21 |
| Fig. 27: Dimensional drawing.....                          | 24 |
| Fig. 28: CE conformity declaration.....                    | 25 |

## List of tables

|                                        |    |
|----------------------------------------|----|
| Table 1 Operator side .....            | 9  |
| Table 2 Rear .....                     | 10 |
| Table 3 Technical specifications ..... | 23 |

|               |                  |          |                      |              |
|---------------|------------------|----------|----------------------|--------------|
| Generated:    | Reviewed:        | Revised: | Status: 300 released | Page 7 of 26 |
| Ralph Moretti | Michel Benkovics |          | Document number:     | Index        |
| 12 Feb 2018   |                  |          |                      | BA           |

## 1 Introduction

Thank you very much for your trust in us and our products.

The machines made by Brunner-Anliker AG are of high quality. The quality assurance measures in place at Brunner-Anliker AG ensure that all machines leave the plant in perfect condition. By purchasing the FAM16 fruit declumper made by Brunner-Anliker AG, you have decided in favor of a sophisticated, state-of-the-art product.

## 2 Intended use

The FAM16 is the perfect tool for declumping pressed blocks of dried fruit or frozen vegetables into friable and undamaged single products.

Maximum processable block size = 300 x 300 x 200 mm



### NOTE!

- The device may only be used for the products approved by the manufacturer.
- Any other use is considered improper and contrary to that originally intended.



### HAZARD!

- The manufacturer cannot be held liable for accidents or damages caused by the non-observance of the safety instructions, by inadequate procedures or by inappropriate use of the machine.

### 2.1 Limitation of liability



### NOTE!

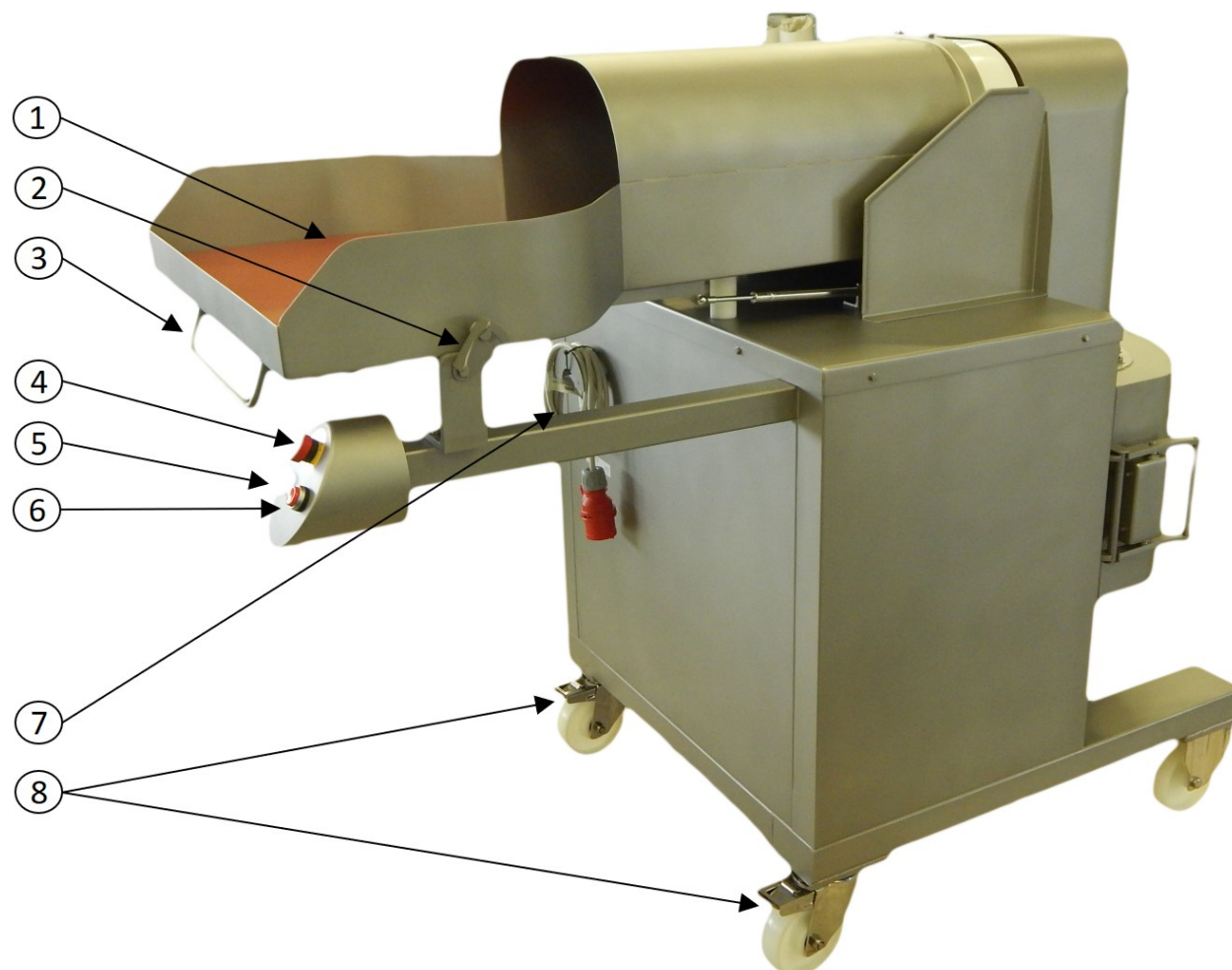
The operator of the machine is responsible for the compliance of the entire system with the local regulations regarding the installation and operation of such systems.

After assembly and installation of the machine, it is the operator's duty to verify the safety of the system. The operator must also ensure that exposed system parts which could pose a hazard to the operating personnel are screened or equipped with appropriate safety devices.

|               |                  |          |                      |              |
|---------------|------------------|----------|----------------------|--------------|
| Generated:    | Reviewed:        | Revised: | Status: 300 released | Page 8 of 26 |
| Ralph Moretti | Michel Benkovics |          | Document number:     | Index        |
| 12 Feb 2018   |                  |          |                      | BA           |

### 3 System components

#### 3.1 Front view (operator side)

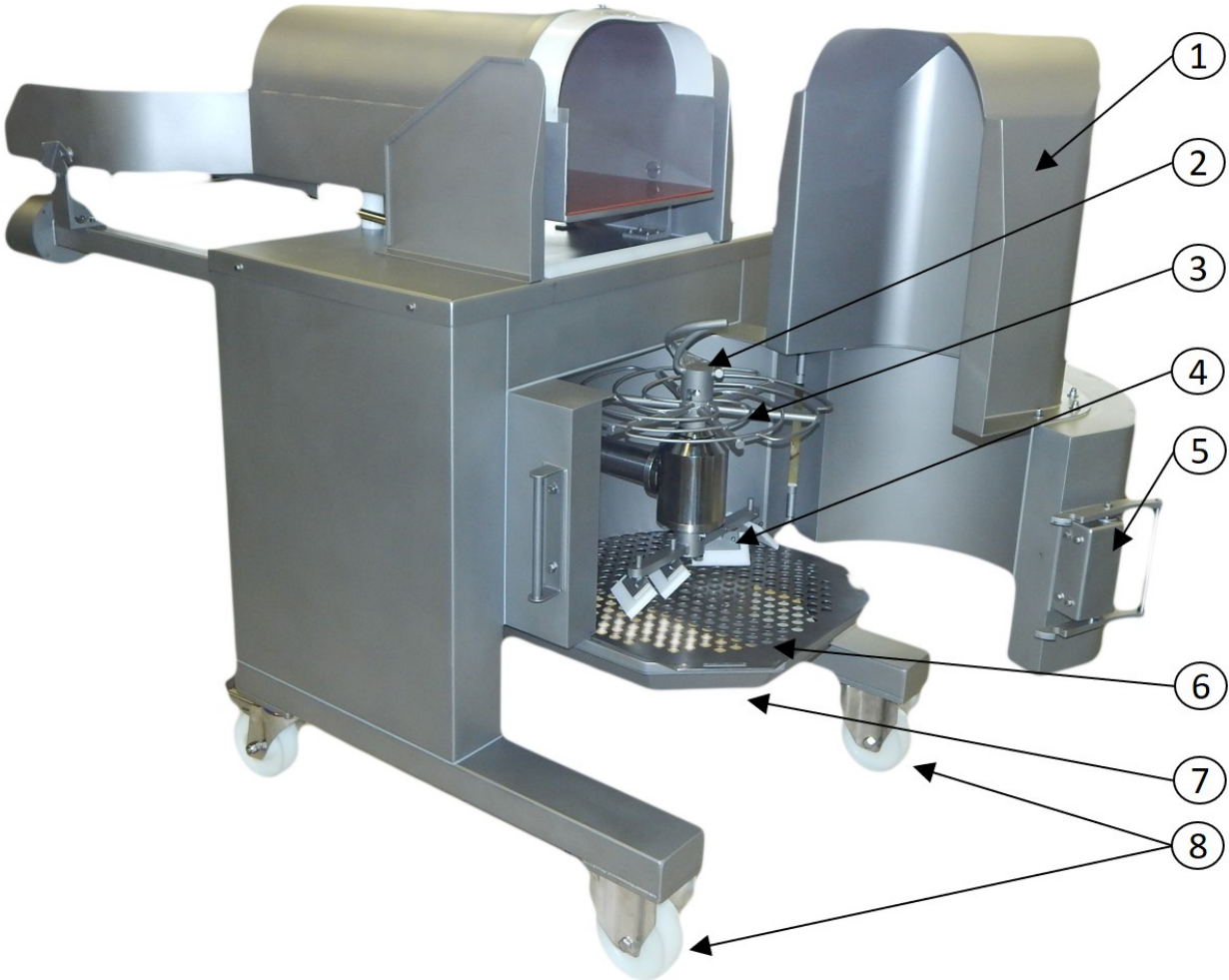


**Fig. 1: Rear view**

**Table 1 Operator side**

| Item                   | Item                            |
|------------------------|---------------------------------|
| 1 Chute                | 5 ON switch                     |
| 2 Chute lock           | 6 OFF switch                    |
| 3 Lift handle          | 7 Cable holder with power cable |
| 4 EMERGENCY OFF switch | 8 Swivel casters with brakes    |

### 3.2 Rear view



**Fig. 2: Rear view**

**Table 2 Rear**

| Item                 | Item               |
|----------------------|--------------------|
| 1 Declumper hood     | 5 Lock             |
| 2 Pre-separator hook | 6 Perforated plate |
| 3 Spiral separator   | 7 Outlet           |
| 4 Scraper unit       | 8 Rigid casters    |

## 4 Scope of supply

### 4.1 Scope of supply

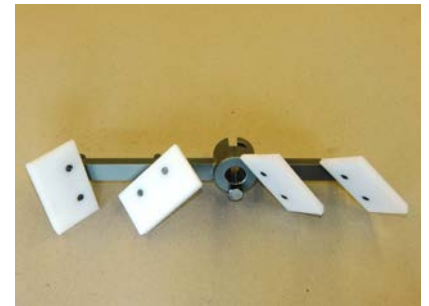
The FAM16 consignment consists of the machine itself, the operating manual, pre-separator hook, spiral separator, scraper unit, 19-mm socket wrench and 6-mm Allen® key.



**Fig. 3: Pre-separator hook**



**Fig. 4: Spiral separator**



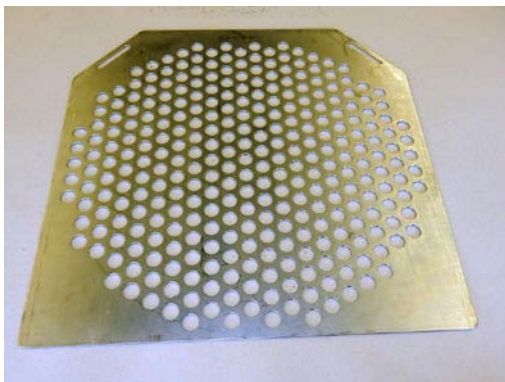
**Fig. 5: Scraper unit**



**Fig. 6: 6-mm Allen® key**

## 4.2 Accessories

The FAM16 fruit declumper can be equipped with a variety of perforated plates to suit all types of fruit (e.g. dried fruit).



**Fig. 7: Perforated plate variant**



**Fig. 8: Spiral separator variant**

|               |                  |          |                      |               |
|---------------|------------------|----------|----------------------|---------------|
| Generated:    | Reviewed:        | Revised: | Status: 300 released | Page 12 of 26 |
| Ralph Moretti | Michel Benkovics |          | Document number:     | Index         |
| 12 Feb 2018   |                  |          |                      | BA            |

## 5 Transport and installation instructions

### 5.1 Consignment

### 5.2 Start-up

The mobile machine must be placed on an even surface (do not use on sloping surfaces). Leave enough space around the machine for the provision and infeed of fruit blocks as well as for the container catching the singulated products. The space should allow unobstructed lifting of the chute and opening of the declumper hood.

The machine must be locked in place with the caster brakes: Push the brake down with your foot until they snap into place.



**Fig. 9: Locking the caster brake**

Connect the cable to high-current power supply (400V).

Check the direction of rotation of the motor: the pre-separator hook must rotate in the indicated direction (counterclockwise)!



**Fig. 10: Observe the rotation direction!**

|               |                  |          |                      |               |
|---------------|------------------|----------|----------------------|---------------|
| Generated:    | Reviewed:        | Revised: | Status: 300 released | Page 13 of 26 |
| Ralph Moretti | Michel Benkovics |          | Document number:     | Index         |
| 12 Feb 2018   |                  |          |                      | BA            |

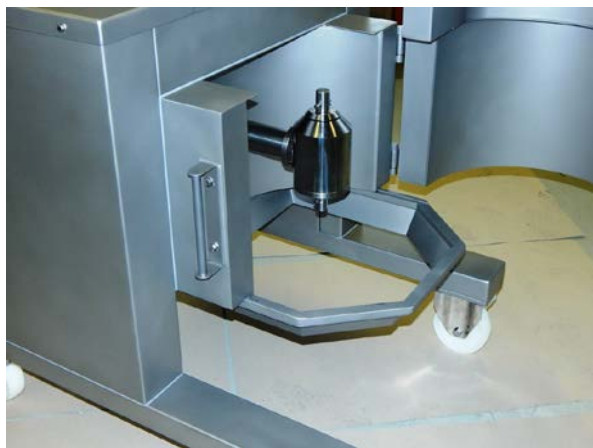
## 6 Operation

### 6.1 Preparing the machine

The machine must be prepared for the fruit to be processed. Ensure that the machine is switched OFF. Open the declumper hood: pull the handle and swing the hood to the side.



**Fig. 11: Opening the hood**



**Fig. 12: Hood open**

Mount the scraper unit. Insert from below, push up and onto the drive shaft. The scrapers must face down. The bayonet lock lobes must snap into place. Tighten the hexagonal head screw with the key of the accessories kit to lock the scraper unit securely on the shaft.



**Fig. 13: Installing the scraper unit**

|               |                  |          |                      |               |
|---------------|------------------|----------|----------------------|---------------|
| Generated:    | Reviewed:        | Revised: | Status: 300 released | Page 14 of 26 |
| Ralph Moretti | Michel Benkovics |          | Document number:     | Index         |
| 12 Feb 2018   |                  |          |                      | BA            |

Insert the perforated plate into its frame. Ensure that the right side faces up. The hole size should comply with that of the declumped fruit pieces.



**Fig. 14: Inserting the perforated plate**

Place the spiral separator on the upper end of the drive shaft. The bayonet lock lobes must snap into place.



**Fig. 15: Mounting the spiral separator**  
**Spiral separator mounted**



**Fig. 16:**

Mount the pre-separator hook on the drive shaft. The bayonet lock lobes must snap into place. Tighten the hexagonal head screw with the key of the accessories kit to lock the pre-separator hook securely on the shaft.



**Fig. 17: Mounting the pre-separator hook**



**Fig. 18: Pre-separator hook mounted**

|               |                  |          |                      |               |
|---------------|------------------|----------|----------------------|---------------|
| Generated:    | Reviewed:        | Revised: | Status: 300 released | Page 15 of 26 |
| Ralph Moretti | Michel Benkovics |          | Document number:     | Index         |
| 12 Feb 2018   |                  |          |                      | BA            |

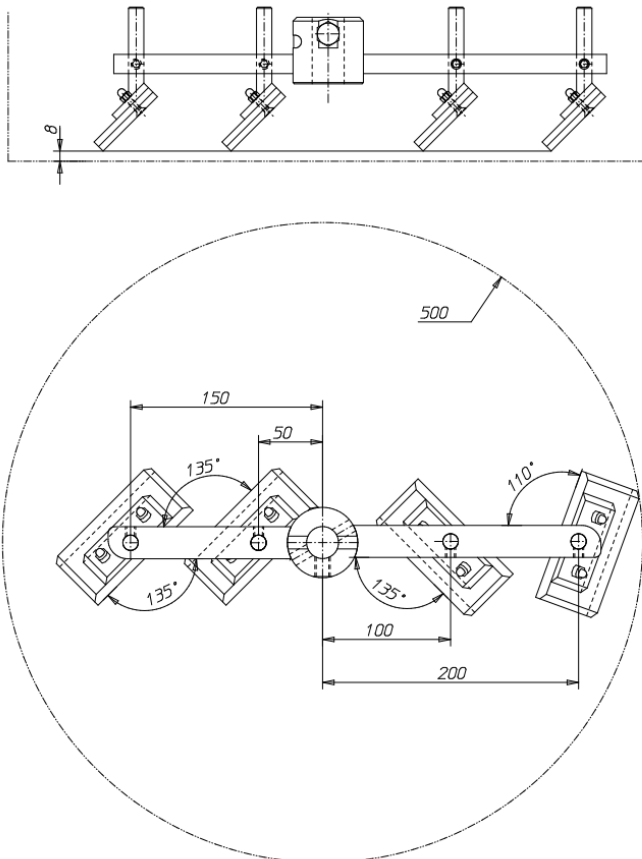
Adjust the distance and orientation of the four scrapers on the scraper unit. The distance between scrapers and perforated plate should roughly comply with the size of the singulated fruit pieces. The spiral separator indicates the direction of rotation which needs to be observed for scraper adjustment. The stud screws can be loosened and tightened with the key in the accessories kit.



**Fig. 19: Adjusting / removing the scrapers**



**Fig. 20: Adjusting the scrapers**



**Fig. 21: Scraper arrangement**

|               |                  |          |                      |               |
|---------------|------------------|----------|----------------------|---------------|
| Generated:    | Reviewed:        | Revised: | Status: 300 released | Page 16 of 26 |
| Ralph Moretti | Michel Benkovics |          | Document number:     | Index         |
| 12 Feb 2018   |                  |          |                      | BA            |



**NOTE!**

- Ensure that all screws on the scrapers sit tight and that the scrapers do not rub against the wall!



**Fig. 22: Scraper**

Instead of the scraper unit and the perforated plate, a second spiral separator can be mounted on the bottom of the machine. Please see our information on the tool configuration required for each type of fruit.



**Fig. 23: Twin spiral separator mounted on the bottom**

Close the declumper hood. Please note that for safety reasons the drive cannot be started before the hood is closed and secured.

|               |                  |          |                      |               |
|---------------|------------------|----------|----------------------|---------------|
| Generated:    | Reviewed:        | Revised: | Status: 300 released | Page 17 of 26 |
| Ralph Moretti | Michel Benkovics |          | Document number:     | Index         |
| 12 Feb 2018   |                  |          |                      | BA            |

## 6.2 Fruit processing

1. Start the machine.
2. Place a container suitable for collection of the singulated fruit products under the declumper.
3. Unpack the products (fruit) for declumping.
4. Remove the packaging material (e.g. plastic bag).
5. Lift the chute with the handle and slide the block into the machine.



**Fig. 24: Lifting the chute**



### NOTE!

- Plastic bags or other packaging material must not get into the machine.

|               |                  |          |                      |               |
|---------------|------------------|----------|----------------------|---------------|
| Generated:    | Reviewed:        | Revised: | Status: 300 released | Page 18 of 26 |
| Ralph Moretti | Michel Benkovics |          | Document number:     | Index         |
| 12 Feb 2018   |                  |          |                      | BA            |

## 7 System maintenance

### 7.1 Cleaning

Switch the machine off and unplug the power cable.

To remove the plastic plate for cleaning, block the loading device with the hook to prevent it from springing back.



**Fig. 25: Locking the chute**

Lift the plastic plate through the oval openings from below, pull out from above.



**Fig. 26: Lifting the plastic plate**

Open and swing out the declumper hood.

Loosen but do not remove the hexagon head screw on the pre-separator hook.

Rotate the pre-separator hook counterclockwise out of the bayonet lock and pull it off the drive shaft.

Rotate the spiral separator counterclockwise out of the bayonet lock and pull it off from above.

Lift the perforated plate and pull it out of its frame.

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|---------------|------------------|----------|----------------------|---------------|
| Generated:    | Reviewed:        | Revised: | Status: 300 released | Page 19 of 26 |
| Ralph Moretti | Michel Benkovics |          | Document number:     | Index         |
| 12 Feb 2018   |                  |          |                      | BA            |

In case of narrow distances to the scrapers, rotate the scraper unit until it is positioned transversely to the machine rotation direction. Very small distances may require raising of the scrapers to allow removal of the perforated plate.



**Fig. 27: Scraper unit placed transversely to the plate**

After removal of the perforated plate, loosen the hexagon head screw on the scraper unit. Rotate counterclockwise out of the bayonet lock and pull it off the drive shaft from below.



**NOTE!**

- For storage and cleaning, the loading unit must be blocked with the hook.

Insertion of the plastic plate: ensure that the plate is inserted correctly. The side with the angled corner must be placed on the hinge side of the hood.



**Fig. 28: Inserting the plate**

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|---------------|------------------|----------|----------------------|---------------|
| Generated:    | Reviewed:        | Revised: | Status: 300 released | Page 20 of 26 |
| Ralph Moretti | Michel Benkovics |          | Document number:     | Index         |
| 12 Feb 2018   |                  |          |                      | BA            |

## 8 Troubleshooting

### 8.1 Delivered fruit too big - fruit not completely declumped.

The scraper distance might be too big. Reduce the distance. Ensure that the outer scrapers push the fruit towards the center.

### 8.2 Delivered fruit too small - fruit crushed or cut.

The scraper distance might be too small. Increase the distance. Ensure that the perforated plate is inserted with the angled perforated edges up.

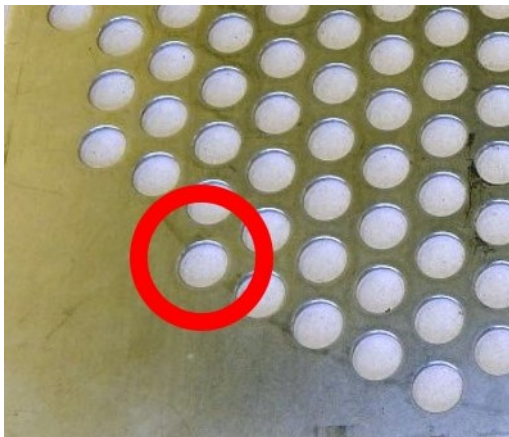


Fig. 29: Perforated plate edges



#### NOTE!

- Ensure that all screws on the scrapers sit tight and that the scrapers do not rub against the wall!

### 8.3 Obstruction - nothing goes in, nothing goes out.

Switch off the machine. Open the declumper hood, empty the machine. Ensure that all declumper components are installed as required. Close the hood, switch the machine back on and continue fruit singulation.

|               |                  |          |                      |               |
|---------------|------------------|----------|----------------------|---------------|
| Generated:    | Reviewed:        | Revised: | Status: 300 released | Page 21 of 26 |
| Ralph Moretti | Michel Benkovics |          | Document number:     | Index         |
| 12 Feb 2018   |                  |          |                      | BA            |

**NOTE!**

- The rear door must not be opened when the chute is open!

If these measures do not help or in case of malfunctions not described in this manual, please contact the Brunner-Anliker Service Line.

## 8.4 Service line

Please contact our Service Line for all problems and questions that are not described or cannot be solved.

**Address:** Brunner-Anliker AG  
Brunnergässli 1-5  
8302 Kloten  
Switzerland

T: +41 44 804 21 00  
F: +41 44 804 21 90

Internet: [brunner-anliker.com/](http://brunner-anliker.com/)

Mail: [mail@brunner-anliker.com](mailto:mail@brunner-anliker.com)

## 9 Spare parts

### 9.1 Disposal

## 10 Transfer to third parties

All liabilities by Brunner-Anliker AG cease if the FAM16 is sold and transferred to a third party.

|               |                  |          |                      |               |
|---------------|------------------|----------|----------------------|---------------|
| Generated:    | Reviewed:        | Revised: | Status: 300 released | Page 22 of 26 |
| Ralph Moretti | Michel Benkovics |          | Document number:     | Index         |
| 12 Feb 2018   |                  |          |                      | BA            |

## 11 Technical specifications

**Table 3** Technical specifications

| Electrical connection     | 3 x 400V 50Hz      |
|---------------------------|--------------------|
| Electric motor            | 2.2 kW             |
| Weight                    | 332 kg             |
| Protection category       | IP 26              |
| Dimensions min. L x W x H | 1800 x 920 x 1430  |
| Dimensions max. L x W x H | 2110 x 1230 x 1800 |

## 11.1 Dimensional drawing

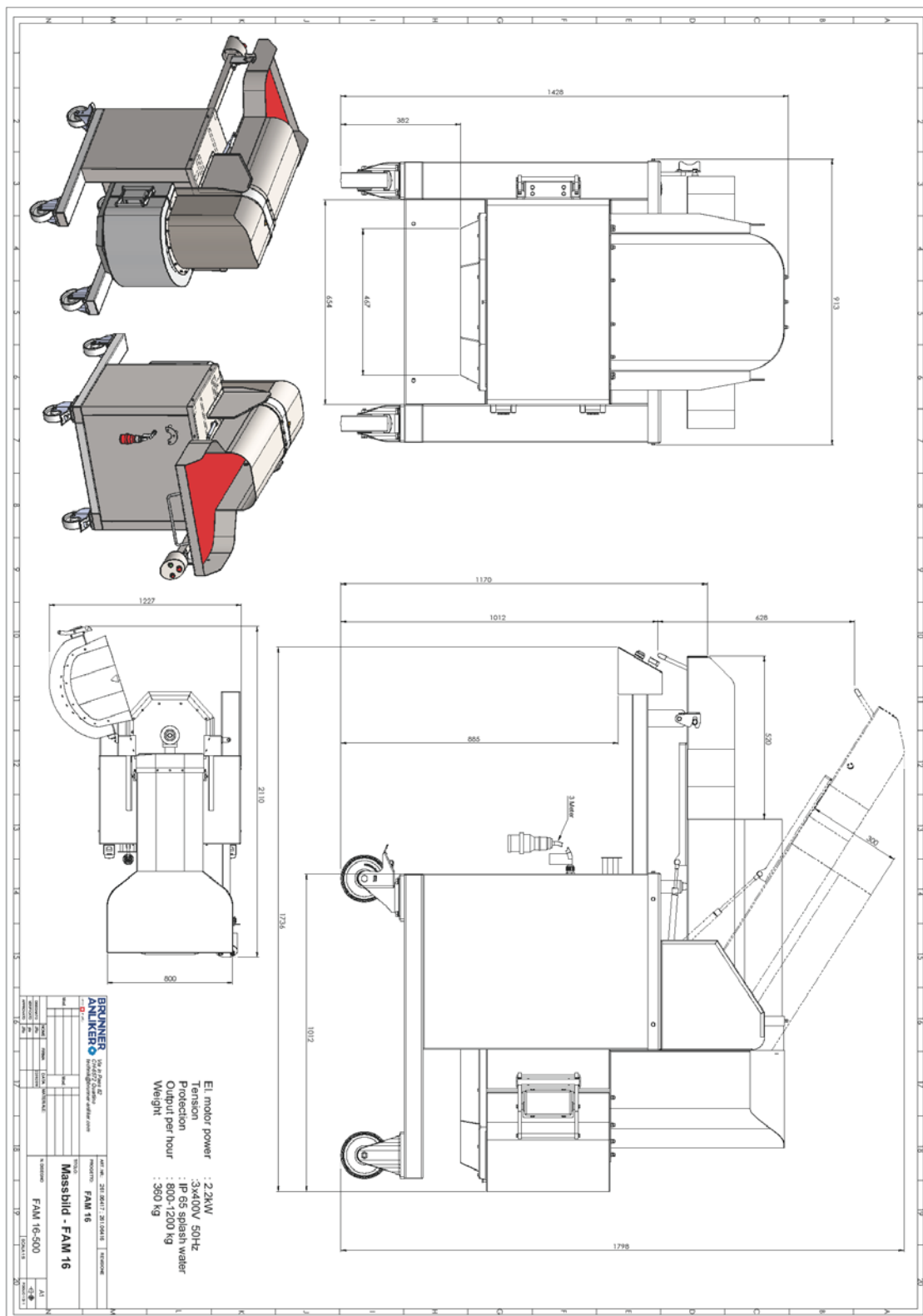


Fig. 30: Dimensional drawing

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|---------------|------------------|----------|----------------------|---------------|
| Generated:    | Reviewed:        | Revised: | Status: 300 released | Page 24 of 26 |
| Ralph Moretti | Michel Benkovics |          | Document number:     | Index         |
| 12 Feb 2018   |                  |          |                      | BA            |

## 12 CE Conformity Declaration

### EG-Konformitätserklärung CE Déclaration de conformité EC Declaration of conformity

|                                                                                                                                                                                                                                                                                                                                  |  |                                                                                                                                                                                                                                                                              |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Wir / Nous / We,                                                                                                                                                                                                                                                                                                                 |  | <b>Brunner-Anliker AG</b><br><b>Brunnergässli 1-5</b><br><b>8302 Kloten</b><br><b>Schweiz</b>                                                                                                                                                                                |  |
| erklären in alleiniger Verantwortung, dass das Produkt<br>déclarent de notre seule responsabilité que le produit<br>bearing sole responsibility, hereby declare that the product                                                                                                                                                 |  | Beschreibung des Produkts<br><b>Früchteauflockerungs – Maschine</b><br><br>Description du produit:<br><br>Description of product:<br><br>Typenreihe / Série type / Type series<br><b>FAM 16</b>                                                                              |  |
| auf das sich diese Erklärung bezieht, mit der/den folgenden Norm(en) oder normativen Dokumenten übereinstimmt;<br>auquel se rapporte la présente déclaration est conforme aux normes ou aux documents normatifs suivants.<br>refers to by this declaration is in conformity with the following standards or normative documents. |  |                                                                                                                                                                                                                                                                              |  |
| Bestimmungen der Richtlinie<br>Désignation de la directive<br>provisions of the directive<br><br>2006/42/EG: Maschinenrichtlinie<br>2006/42/CE: directive Machines<br>2006/42/EC: Machinery Directive                                                                                                                            |  | Titel und/oder Nummer sowie Ausgabedatum der Norm(en):<br>titre et/ou numéro ainsi que date d'émission de la/des norme(s) :<br>title and/or number and date of issue of the standard(s):<br><br>DIN EN ISO 12.00.2011-03<br>DIN EN ISO 14:19.2014-03<br>DIN EN 60204:2014-10 |  |
| Mitteilung über Anerkennung der Qualitätssicherung:<br>Communication sur la reconnaissance de l'assurance de la qualité:<br>Report on the acknowledgment of the quality assurance:                                                                                                                                               |  |                                                                                                                                                                                                                                                                              |  |
| Quartino, 15. Februar 2018                                                                                                                                                                                                                                                                                                       |  |                                                                                                                                                                                                                                                                              |  |
| Ort und Datum / Lieu et date / Place and date                                                                                                                                                                                                                                                                                    |  | M. Benkovics<br>Technischer Direktor / Technical Director                                                                                                                                                                                                                    |  |

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| 05.02.2018    | 05.02.2018       |               |                         | BA       |

Fig. 31: CE conformity declaration

|               |                  |          |                      |               |
|---------------|------------------|----------|----------------------|---------------|
| Generated:    | Reviewed:        | Revised: | Status: 300 released | Page 25 of 26 |
| Ralph Moretti | Michel Benkovics |          | Document number:     | Index         |
| 12 Feb 2018   |                  |          |                      | BA            |

### 13 Warranty

During the warranty period, the machine may only be repaired and maintained by the manufacturer. Upon request, the manufacturer may authorize certain exceptions in writing. The warranty exclusively relates to the part to be replaced and its replacement at the manufacturer's factory, but not to a service in connection with a warranty repair not conducted by the specialist staff at our service center (refer to page xx) or by the manufacturer plant itself.

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|---------------|------------------|----------|----------------------|---------------|
| Generated:    | Reviewed:        | Revised: | Status: 300 released | Page 26 of 26 |
| Ralph Moretti | Michel Benkovics |          | Document number:     | Index         |
| 12 Feb 2018   |                  |          |                      | BA            |