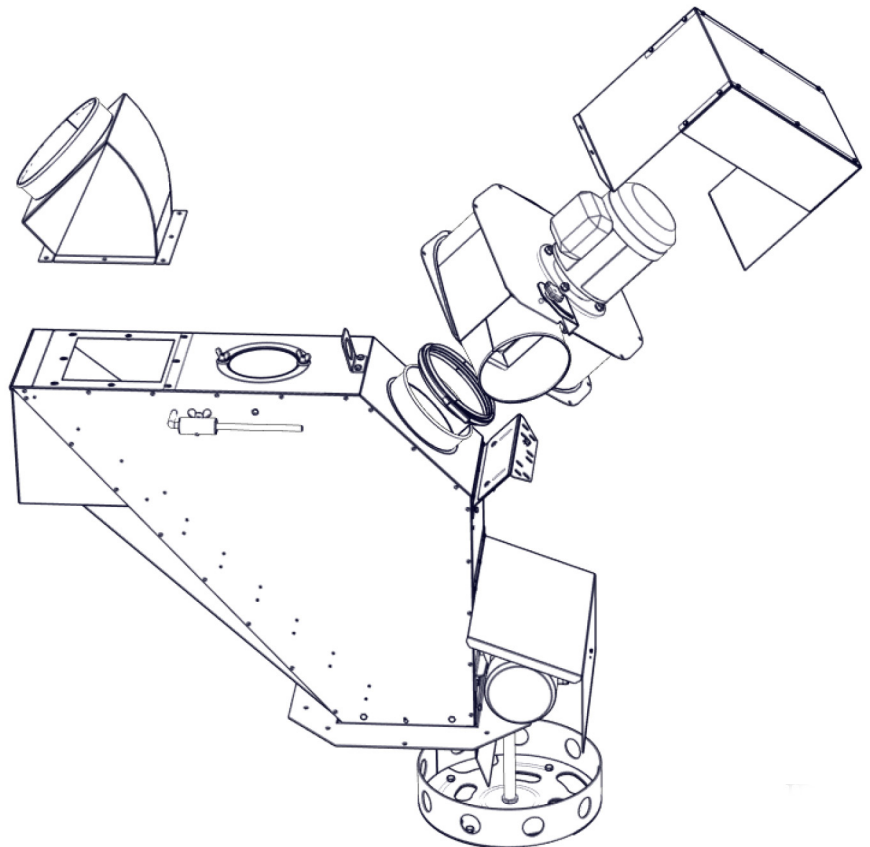




# Pre-cleaner

## USER GUIDE

**60S+**  
**60S**  
**60B+**  
**60B**  
**60SC**  
**60BC**



Read this manual before using product. Failure to follow instructions and safety precautions can result in serious injury, death, or property damage. Keep manual for future reference.

ID: D03464\_EN  
REV: 2017A



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## INTRODUCTION

This manual contains instructions on using the pre-cleaner.

The type designation of the pre-cleaner is the following:

**60S+**

CAPACITY [t / h]	INLET SIZE [mm]	OPTIONS
60	S = 200	+ = spreader plate
	B = 250	C = conveyor connection

In order to ensure efficient use and safe installation of the equipment, read all the instructions carefully. Additionally, make sure that any other persons present on-site are aware of all the safety essentials. Keep this manual on hand and introduce it to any new personnel members.

If you need more information or assistance, contact your dealer or call the service number of Mepu Ltd.





## **WARRANTY AND WARRANTY CONDITIONS**

The product is intended for professional use. Installation, use and maintenance of the equipment require normal general knowledge and skills related to machines and equipment that a professional farmer should presumably possess.

### **Warranty conditions**

The dryer machinery is covered by a 12-month warranty from the commissioning date, but the maximum duration of the warranty is 18 months from the invoice date of the Goods. Mepu Oy cannot be held responsible for any defects discovered after the aforementioned time limits. Mepu Oy undertakes to eliminate any design, raw materials, or workmanship-related faults in the Goods through repair or replacement. Mepu Oy is not responsible for any other direct or indirect damages or losses.

The warranty does not cover faults arising from materials provided by the Purchaser or structural solutions specified or set out by the Purchaser. Moreover, Mepu Oy's warranty and liability for faults do not cover minor faults and deviations that exert no substantial influence on the use and functionality of the dryer machinery. The warranty does not cover faults caused by any factors discovered after transfer of the burden of risk. For example, the warranty does not cover faults caused by failure to comply with the use and storage conditions specified for the Goods or instructions for use, or improper use of the Goods. In this connection, inter alia, feeding the equipment with material significantly differing from the average quality of the material processed or with material that does not belong in the equipment is also considered improper use, for example, feeding of grain dryers with material of significantly higher-than-average moisture content and / or of significantly higher-than-average weed and / or other impurities (such as rocks, dirt or foreign objects) content, or feeding of material containing large rocks onto the conveyors. The warranty does not cover faults arising from inadequate maintenance or incorrect installation carried out by the Mepu Oy, or faults arising from modifications or repairs performed without the Seller's written consent. Moreover, the warranty does not cover normal wear and tear.

Whenever a fault is detected, the Seller is required to submit a written fault report without undue delay. The fault report must describe the nature of the fault. If there is reason to assume that the fault could cause additional damage, use of the Goods must be discontinued and the fault report submitted immediately. Otherwise, the Purchaser shall lose its right to submit claims regarding damages that could have been avoided by immediate termination of the use and/or submission of a fault report. If the Purchaser has reported a fault and it is determined that the Goods are free of faults covered by Mepu Oy's warranty, Mepu Oy shall have the right of demanding compensation for the work and expenses incurred because of the fault report. If intervention with Goods other than those delivered by Mepu Oy is required in order to repair a fault, Mepu Oy shall not be responsible for the related works and expenses. If a fault in some component of the Goods has been eliminated, Mepu Oy shall be liable for the repaired or replaced component in the same way as for the original delivery for 18 months. However, Mepu Oy shall not be liable for faults in any component of the Goods or damage caused by the Goods for longer than 36 months from the beginning of the original liability period.

## EC DECLARATION OF CONFORMITY OF THE MACHINERY



### Manufacturer

Name of the company:	Mepu Ltd
Address:	Mynämäentie 59, 21900 Yläne, Finland


### Laite

Description:	pre-cleaner
Type:	60S+ / 60S / 60B+ / 60B / 60SC / 60BC

### Directives and standards

We hereby declare that the equipment complies with the directives:	2006/42/EC 2004/108/EC 2006/95/EC
Harmonised standards (or parts / clauses) that have been used:	EN 349 + A1 EN 547-2 + A1 EN 547-3 + A1 EN ISO 12100 EN ISO 13857 EN 60204-1:2006
Other technical standards and specifications that have been used:	EN 953

### Signature of authorized person

Date and place:	12.6.2015 Yläne
Signature:	 Iiro Uusi-Salava
Title:	Product development Manager / Mepu Ltd

## SAFETY

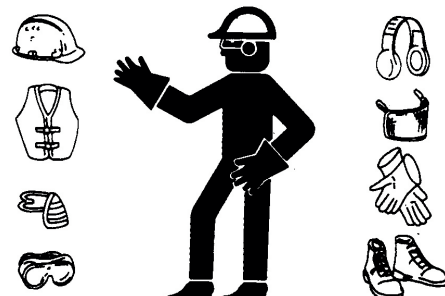
*The general safety section contains instructions related to all safety routines. Instructions pertaining to certain specific subjects (for example, assembly-related safety) can be found in the respective section. Always read all the instructions, not only the summary of safety practices, before commencing any operations with the equipment.*

YOU are responsible for SAFE use and maintenance of the product. YOU need to make sure that you and any other persons working in the vicinity of the product are aware of all procedures and information related to SAFETY and contained in this manual. Remember – YOU are the key to safety. Good safety practices will keep you and the people around you safe. Make these procedures a functional part of the safety programme.

- The user or operator is responsible for reading, understanding, and following the manual's safety instructions. All accidents can be avoided.
- The equipment owner needs to provide guidance and go through the instructions prior to commissioning of the equipment and at least once a year with all the employees before they are allowed to use the equipment. Untrained users/operators expose themselves and bystanders to the risk of serious or fatal injuries.
- Use the equipment only for its intended purpose.
- Do not modify the equipment in any way. Unauthorised modifications may impair the functionality and / or safety and affect the product's service life. Any modification of the product voids the warranty.
- Keep children and unauthorised persons away from the work area.
- Keep first aid means available at all times and make sure you know how to use them.
- A fire extinguisher must be readily available at the work site. Keep it in a visible place.
- Electrical equipment: Before electrical equipment maintenance, adjustment or repair, disconnect the plugs, set all switches to the neutral or OFF position, stop the motors, remove the ignition key or disconnect the power supply, and wait for all moving parts to stop.

- Use proper personal protection equipment:

- hard hat
- work gloves
- anti-slip safety shoes
- safety goggles
- hearing protection
- coveralls



- Comply with good work area practices:
  - Keep the usage area clean and dry.
  - Make sure the electrical outlets and tools are properly grounded.
  - Use adequate lighting for works performance.
  - Consider SAFETY! Work SAFELY!



### General safety instructions

The safety-related warning sign marks important safety instructions on the product and in the manual. If you see this symbol, consider the possible risk of serious or fatal injury. Follow safety instructions.



### Signal words

Pay attention to the following signal words in the safety instructions: DANGER, WARNING, CAUTION, and NOTE. The signal words used in the safety instructions have been chosen based on the following definitions.

<b>DANGER</b>	Indicates an imminent danger to life that may result in serious or fatal injuries unless avoided.
<b>WARNING</b>	Indicates a potential danger to life that may result in serious or fatal injuries unless avoided.
<b>CAUTION</b>	Indicates a dangerous situation that may result in minor or moderate injuries unless avoided.
<b>NOTE</b>	Indicates a potentially dangerous situation that may result in property damage unless avoided.

### Important safety instructions for dryer user

MEPU grain dryers have been designed to be as safe as possible. However, depending on local conditions, installation, and equipment configuration, the user needs to consider some safety precautions when using or servicing the device.



#### Unexpected starting

Before performing any maintenance operations, always turn off the main power of the grain dryer. Get to know the operation of dryer control.



#### Instructions for use

Read all the instructions on use of the grain dryer equipment prior to installation and commissioning.



#### Main switch

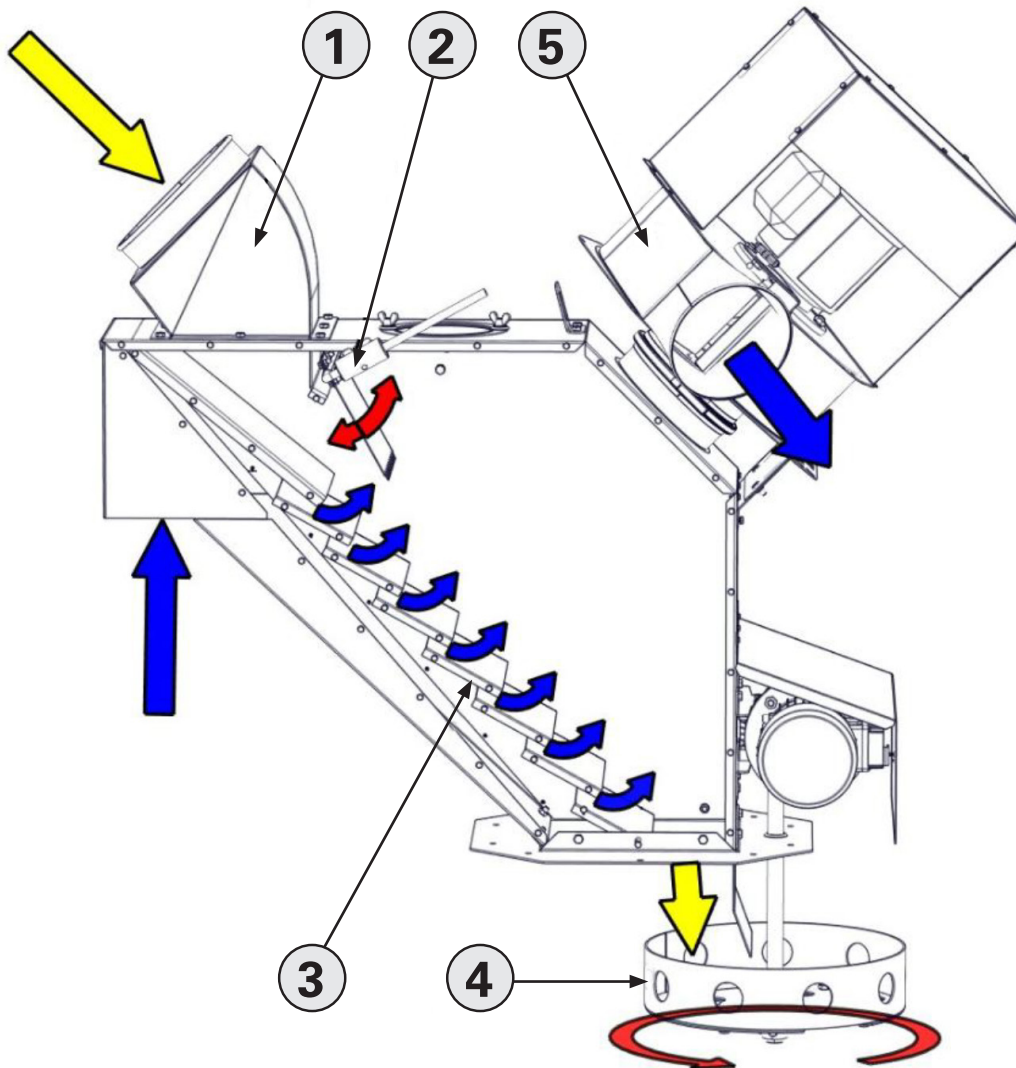
Before servicing the dryer or opening the covers of dryer equipment, turn the main switch to the 0 position.





# 1. Operation principle

- 1. Grain inlet** (model-specific)  
There are two grain inlet sizes: 200mm and 250mm.
- 2. Grain levelling plate**  
The levelling plate distributes the incoming grain column over the entire pre-cleaner width.
- 3. Stairs**  
Air flow from under the stairs passes through the grain, carrying away debris and dust.
- 4. Spreader plate** (model-specific)  
The spreader plate spreads the grain arriving from the pre-cleaner.
- 5. Fan**  
The fan sucks air from the pre-cleaner.



## 2. Installation

To be considered in connection with installation:

- The installation base must be level and sufficiently stable.
- Ensure sufficient air supply to the pre-cleaner.
- Strong underpressure at the grain outlet reduces pre-cleaning efficiency. Take care of sufficient compensation air supply to the space below the outlet.
- Strong overpressure at the grain outlet reduces pre-cleaning efficiency and ejects debris and dust from the pre-cleaner's air intake. Strong overpressure could press the grain levelling plate (B) shut, in which case the grain inlet pipe is blocked. Take care of sufficient air circulation in the space below the outlet.
- In connection with grain piping installation, make sure to avoid excessive grain flow speeds. Two-metre vertical piping causes excessive grain transfer speeds preventing proper functioning of the pre-cleaner. In such a case, a grain decelerator must be installed. In case of longer drops, installation of several grain decelerators may be required. Bends are not allowed at the pre-cleaner's grain inlet connection – a straight pipe section must always be used.

### 2.1. Electrical connections

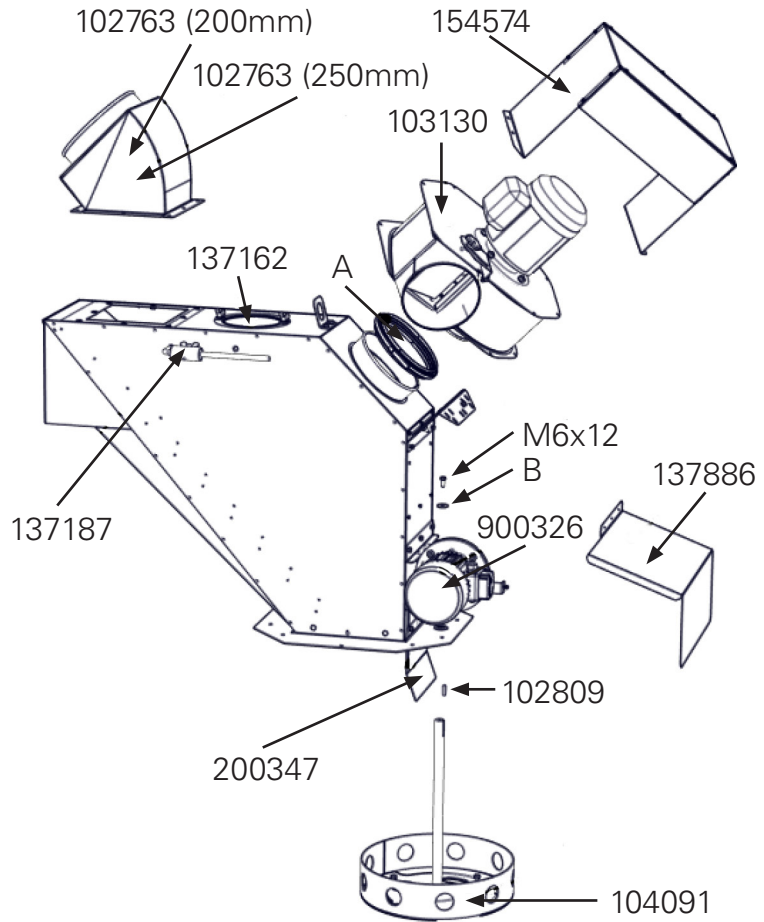
The motors must be equipped with motor protection switches. Contact your local licensed electrician and have the motor protection switches installed.

- Fan                      1,5 kW              2,7 A
- Spreader plate      0,55 kW            1,0 A

### 3. Assembly

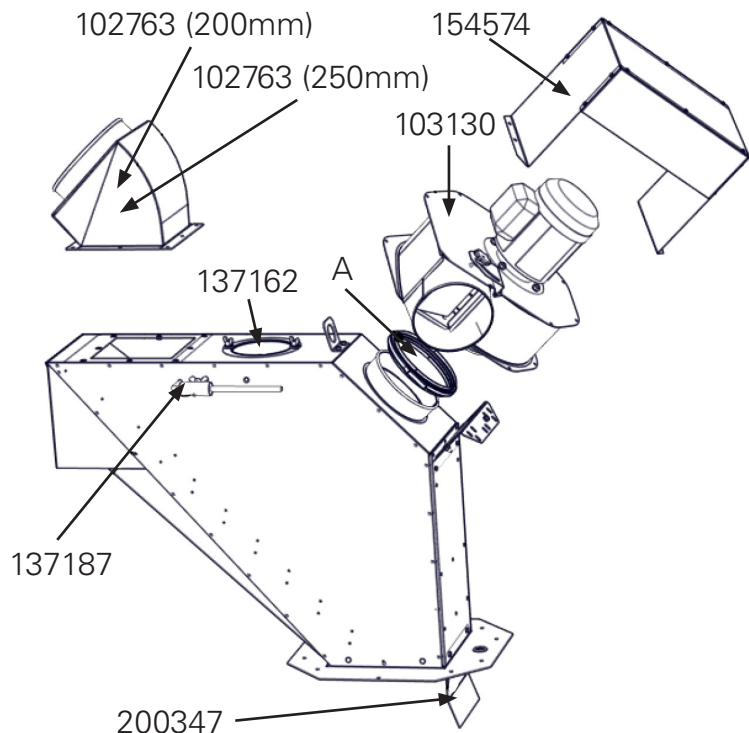
#### 3.1. Pre-cleaner with spreader plate (101974\_1 / 101974\_3)

Remove the packaging and assemble the parts required according to the figure.



#### 3.2. Pre-cleaner without spreader (101974\_2, 101974\_4, 101974\_5 ja 101974\_6)

Remove the packaging and assemble the parts required according to the figure.



## 4. Operating

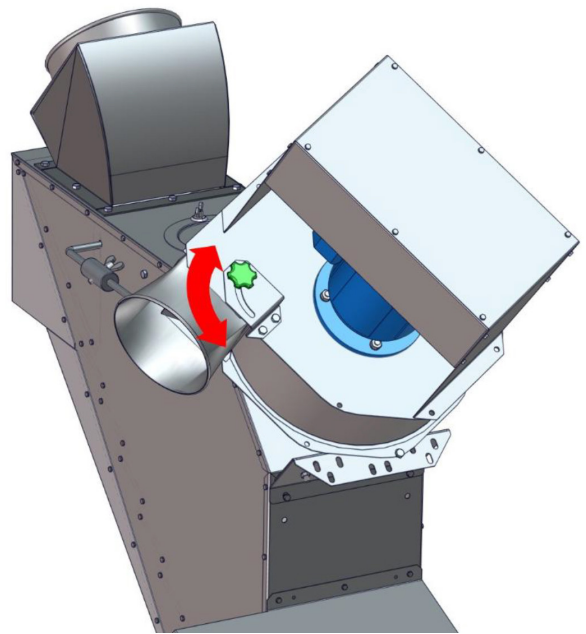
### 4.1. Initial adjustments

Adjust the pre-cleaner fan damper halfway. Adjust the holes in spreader plate bottom halfway. For spreader plate height, see chapter 4.4.

### 4.2. Fan adjustment

Adjustment of the fan must be performed observing the cleaning results. Adjust the damper in the 'open' direction until you hear 'throbbing' of the grain in the cleaner. After this, reverse the damper slightly in the 'close' direction and fix it in this position.

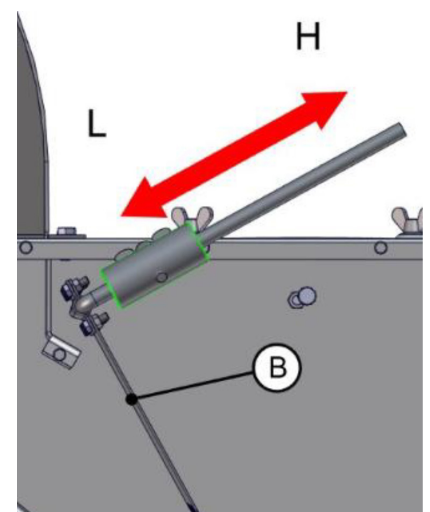
Check the cleaning results, in order to avoid grains ending up among the debris. Note that the cleaning results change as the grain and debris dry. In case of lighter grains such as rape, lower the fan adjustment in order to avoid grains ending up among the debris because of the fan.



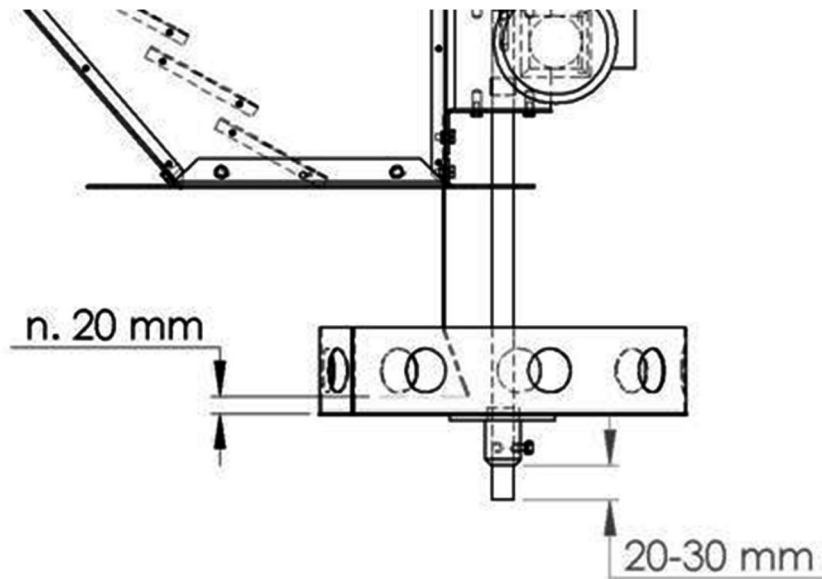
### 4.3. Levelling plate adjustment

The levelling plate (B) is intended for distributing the incoming grain volume as widely as possible over the pre-cleaner stairs (C), in order to ensure maximum cleaning efficiency. A correctly adjusted levelling plate sways lightly during the filling and drying. If the levelling plate is too heavy, it could lead to pre-cleaner blockage. If the levelling plate is too light, it fails to level the grain volume, leading to poor cleaning efficiency.

When adjusting the levelling plate, note that when the weight is moved in the L direction, the levelling plate becomes lighter, and when the weight is moved in the H direction, the levelling plate becomes heavier. A good initial adjustment is as light as possible, i.e., the weight is moved as far as possible in the L direction. Lock the weight in its place using the dedicated thumbscrew.



## 4.4. Spreader plate adjustment

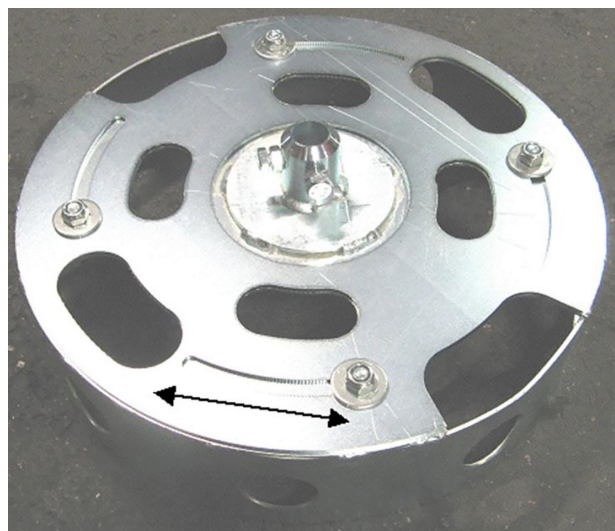


In case of default setting, approx. 20 - 30mm of the spreader plate shaft is visible under the spreader plate. The guide plate is adjusted to the distance of approx. 10 - 20mm from the plate bottom.

A feature characteristic to spreader plate operation is that when the dryer is filled, more grain tends to accumulate at the grain space sides than under the plate. However, if the grain surface at the end facing the elevator is clearly higher than at the opposite side, raise the plate by approx. 20 - 30mm. In the opposite situation, lower the plate by approx. 20 - 30mm. In the final stage of drying, the grain passes faster through the plate and the grain surface at the grain space central part is higher than at the edges.

The spreading results can be changed by adjusting the plate hole settings. If the holes are closed, more grain is thrown to the sides, and if the holes are opened, grain piles up under the plate.

If it is necessary to spread more grain to the other side because of the filling guard position, you can change the direction of rotation of the spreader plate motor.





## 5. Cleaning / annual maintenance

Clean the pre-cleaner after each season and check before the beginning of new season that the pre-cleaner is clean after the winter. Straws and other debris may accumulate at the pre-cleaner inlet, work surfaces, and spreader plate. Clean the motors annually, making sure their cooling ribs are free of debris and dust. In case of oil leaks from the spreader plate motor, check the oil level and add oil, if necessary. A regular gearbox oil may be used for this purpose. Otherwise, the motors are maintenance-free. The oil capacity is 0,15l. Compliant synthetic oil grades:

	*T°C ISO/SAE	ENI	SHELL	ESSO	MOBIL	CASTROL	BP
NMRV 025 ÷ 150 NMRV 063 ÷ 110 HW 030 ÷ 040	(-25) ÷ (+50) ISO VG320	<b>TELIUM VSF320</b>	TIVELA OIL S320	-	SHC 632	ALPHASYN PG320	ENERGOL SG-XP320

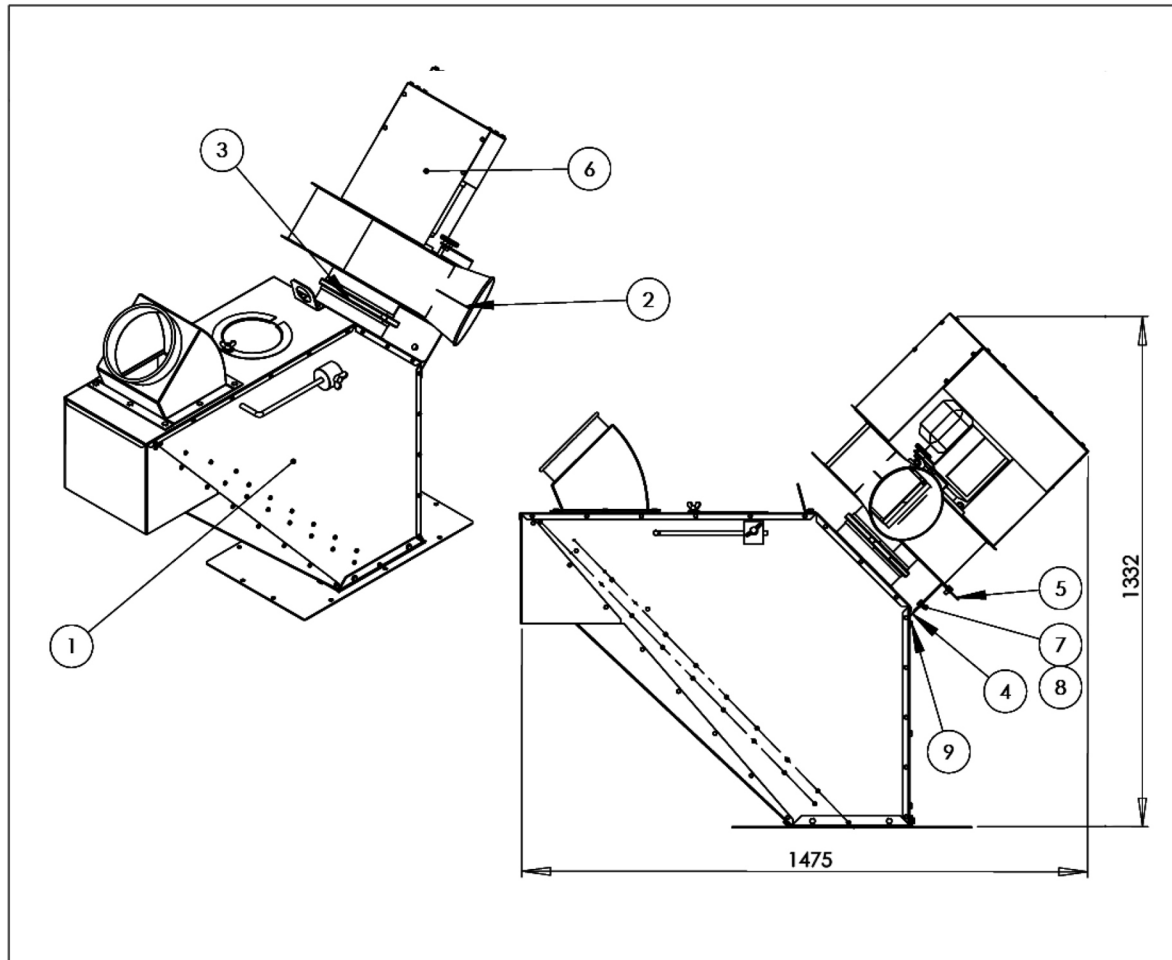
## 6. Troubleshooting

Before starting any maintenance procedures turn off main power.

PROBLEM	POSSIBLE CAUSE	REMEDY
<b>Pre-cleaner is blocked</b>	Grain bin is full	Remove grain from the grain bin.
	Grain levelling plate is too heavy	Move the weight in the L direction.
	Air humidity condensates in the pre-cleaner / excessive air humidity	Perform the first filling with minimum grain supply. This way the grain removes the humidity from the pre-cleaner.
<b>Spreader plate motor protection trips</b>	Too much grain in the bin / motor failure	Remove grain from the grain bin. Have an electrician replace the motor.
<b>Fan motor protection trips</b>	Pre-cleaner is full of grain / motor failure	Remove grain from the grain bin. Have an electrician replace the motor.
<b>Pre-cleaner removes grain</b>	Fan intake air setting is too high	Adjust the pre-cleaner fan damper towards 'close'.
<b>Too much grain accumulates in the centre</b>	Holes in the spreader plate centre part are too large	Adjust the spreader plate base holes towards 'close'.
<b>Too much grain accumulates at the sides</b>	Spreader plate holes are too small	Adjust the spreader plate base holes towards 'open'.

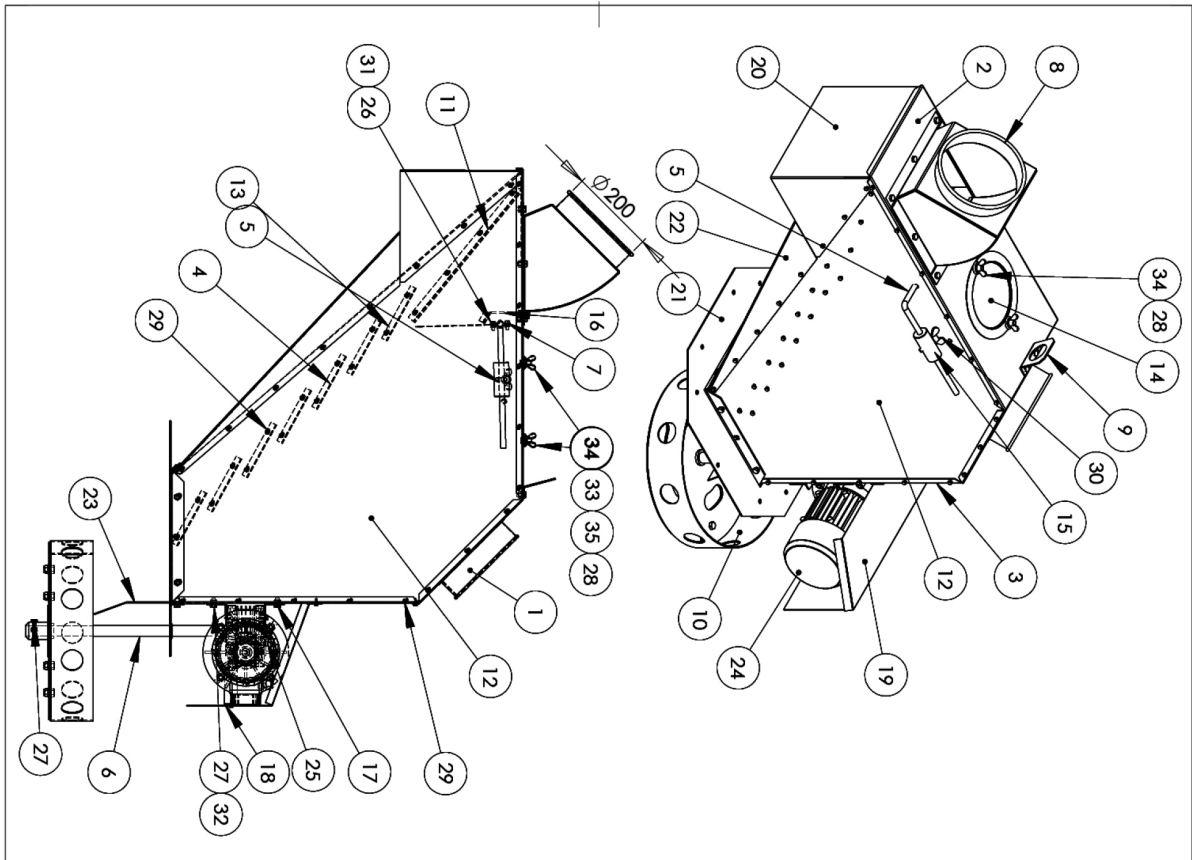
## 7. Spare parts

### 7.1. Pre-cleaner 101974\_1-6



BOM													
POS	CODE	101974_1 60-80f ø200	101974_2 80f ø200 Junior	101974_3 100f ø250	101974_4 100f ø250 Junior	101974_5 100f ø250 L-series	101974_6 80f ø200 L-series	Nimitys	Description	По русски	Type		
1	101896_1	1	-	-	-	-	-	Esipuhdistin	Pre-cleaner	Предварит. очиститель	60-80f ø200		
1	101896_2	-	1	-	-	-	-	Esipuhdistin	Pre-cleaner	Предварит. очиститель	80f ø200 Junior		
1	101896_3	-	-	1	-	-	-	Esipuhdistin	Pre-cleaner	Предварит. очиститель	100f ø250		
1	101896_4	-	-	-	1	-	-	Esipuhdistin	Pre-cleaner	Предварит. очиститель	100f ø250 Junior		
1	101896_5	-	-	-	-	1	-	Esipuhdistin	Pre-cleaner	Предварит. очиститель	100f ø250 L-series		
1	101896_6	-	-	-	-	-	1	Esipuhdistin	Pre-cleaner	Предварит. очиститель	80f ø200 L-series		
2	103130	1	1	1	1	1	1	Puhallin k.p.			1.5kw		
3	SK620001	1	1	1	1	1	1	Pikaside	Clamp	Зажим	ø200		
4	153370	1	1	1	1	1	1	Tukilevy	Support plate		Esipuhdistin		
5	153371	1	1	1	1	1	1	Tukilevy	Support plate		Esipuhdistin		
6	154574	1	1	1	1	1	1	Suoja	Cover	Защита			
7	910072	3	3	3	3	3	3	Kuusioruuvi	Hex bolt	Болт	M8x16		
8	920006	3	3	3	3	3	3	Kuusiomutter	Hexagon Nut	Гайка	M8		
9	912529	2	2	2	2	2	2	Poraruuvi	Drill head screw	Саморез	6.3x13		
Aihio/Slab		Material					Massa/Weight 92.10 kg		Suunnittelija/Drawn by Jaakko Lindfors		Pvm/Date 28.05.2013		
		This drawing remains the property of Mepu Oy. It must be returned on request and cannot be copied or used without Mepu Oy's consent.					Hyväksyjä/Approved by				Pvm/Date		
		Name Esipuhdistin Pre-cleaner Предварит. очиститель			Type			Code 101974_1-6		Rev A		Page A4 1/2	
												Scale 1:15	

## 7.2. Pre-cleaner 60S+ 101896\_1



POS	CODE	101896_1/QTY	Nimllys	БОНМ	По русски	Type
1	100710	1	Puiki	Пре	Груба	ø200
2	101898	1	levy	Пластинка	Пластинка	
3	101899	1	levy	Пластинка	Пластинка	303x5/78
4	101902	7	levy	Пластинка	Пластинка	
5	101905	1	Akseli	Вал	Вал	
6	101908_1	1	Akseli	Аксел	Вал	
7	102045	1	levy	Пластинка	Пластинка	ø200
8	102428	1	Muuttopöydä	Торсионер	Переходник	
9	102532	1	Nestokotva	Nesti bracket	Петля монтажа	3x80 L=100
10	104091	1	levinliukuimien	Spreader plate	Распределитель	
11	136932	1	levy	Пластинка	Пластинка	
12	136933	2	levy	Пластинка	Пластинка	
13	136934	1	levy	Пластинка	Пластинка	221 x273
14	137162	1	tukku	Нож	Вес	300г
15	137187	1	Pumrus	Weight	Вес	300г
16	137872	1	levy	Пластинка	Пластинка	102x297
17	137882	2	Tukilevy	Support plate	Опорная пластинка	122x300
18	137885	1	Tukilevy	Support plate	Опорная пластинка	30x90
19	137886	1	Suoja	Cover	Защита	239x217
20	153388	1	levy	Пластинка	Пластинка	
21	153392	1	laippra	Полуге	Фланец	
22	153393	1	levy	Пластинка	Пластинка	
23	200347	1	levy	Пластинка	Пластинка	
24	900326	1	Vahdenmoottori	Sealed motor	Мотор с регулятором	Моторчик 18В AN
25	910034	4	Kuuliovuoli	Hex bolt	Болт	M6x16
26	910036	8	Kuuliovuoli	Hex bolt	Болт	M6x16
27	910072	27	Kuuliovuoli	Hex bolt	Болт	M6x16
28	910074	2	Kuuliovuoli	Hex bolt	Болт	M6x20
29	912530	89	Pesäruuvi	Drill head screw	Саморез	6,3x16
30	912729	1	Siveliivi	Wing screw	Боршак	M10x40
31	920004	8	Kuuliovuoli	Hexagon Nut	Гайка	M8
32	920006	25	Kuuliovuoli	Hexagon Nut	Гайка	M8
33	920004	1	Kuuliovuoli	Hexagon Nut Low	Гайка прижимная	M8
34	920073	2	Siveliivi	Wing Nut	Боршак гайка	M8
35	921070	2	Kuprivälilevy	Star head washer	Шайба конусная	D30/7

**Esipuhdistin**  
 Pre-cleaner  
 Предварит. очиститель

60-801 ø200  
 CODE 101896\_1  
 Scale 1:10  
 Date 02-10-2009

### 7.3. Pre-cleaner 60S 101896\_2

POS	CODE	101896_2/3/4/5	Материал	Наименование	Описание	По русски	Тип
1	100710	1	ЧМН	Труба	труба	6/200	
2	101898	1	Левый	Пластина	Пластина		
3	101899	1	Левый	Пластина	Пластина	3035/578	
4	101902	7	Левый	Пластина	Пластина		
5	101905	1	Аксель	Вал	Вал		
6	102045	1	Левый	Пластина	Пластина	6/200	
7	102428	1	Муфта	Муфта	Переходник		
8	102532	1	Наставка	Наставка	Пята монтажная	3680 L=100	
9	136932	1	Левый	Пластина	Пластина		
10	136933	2	Левый	Пластина	Пластина		
11	136934	1	Левый	Пластина	Пластина	221x293	
12	133988	1	Левый	Пластина	Пластина		
13	133992	1	Левый	Фланец	Фланец		
14	133993	1	Левый	Пластина	Пластина		
15	200347	1	Левый	Пластина	Пластина		
16	910036	8	Купорный	Купорный	Болт	M6x16	
17	910072	24	Купорный	Купорный	Болт	M6x16	
18	910074	2	Купорный	Купорный	Болт	M6x20	
19	912530	85	Резьбовый	Резьбовый	Саморез	6,3x16	
20	912729	1	Шпилька	Шпилька	Шпилька	M10x40	
21	920004	8	Купорный	Купорный	Гайка	M6	
22	920006	24	Купорный	Купорный	Гайка	M6	
23	920054	1	Купорный	Купорный	Гайка	M6	
24	920073	2	Шпилька	Шпилька	Гайка	M6	
25	921070	2	Купорный	Купорный	Шайба	M6	
26	137187	1	Резьбовый	Резьбовый	Вес	500g	
27	137182	1	Левый	Левый	Левый		
28	137872	1	Левый	Левый	Левый		

**MEPU**

Исходные данные

ISO 2768-C

Эксплуатационная инструкция

Pre-cleaner

Предварит. очиститель

80T 6200 Junior

Стандартный тип

A3

Стандартный тип

27

Стандартный тип

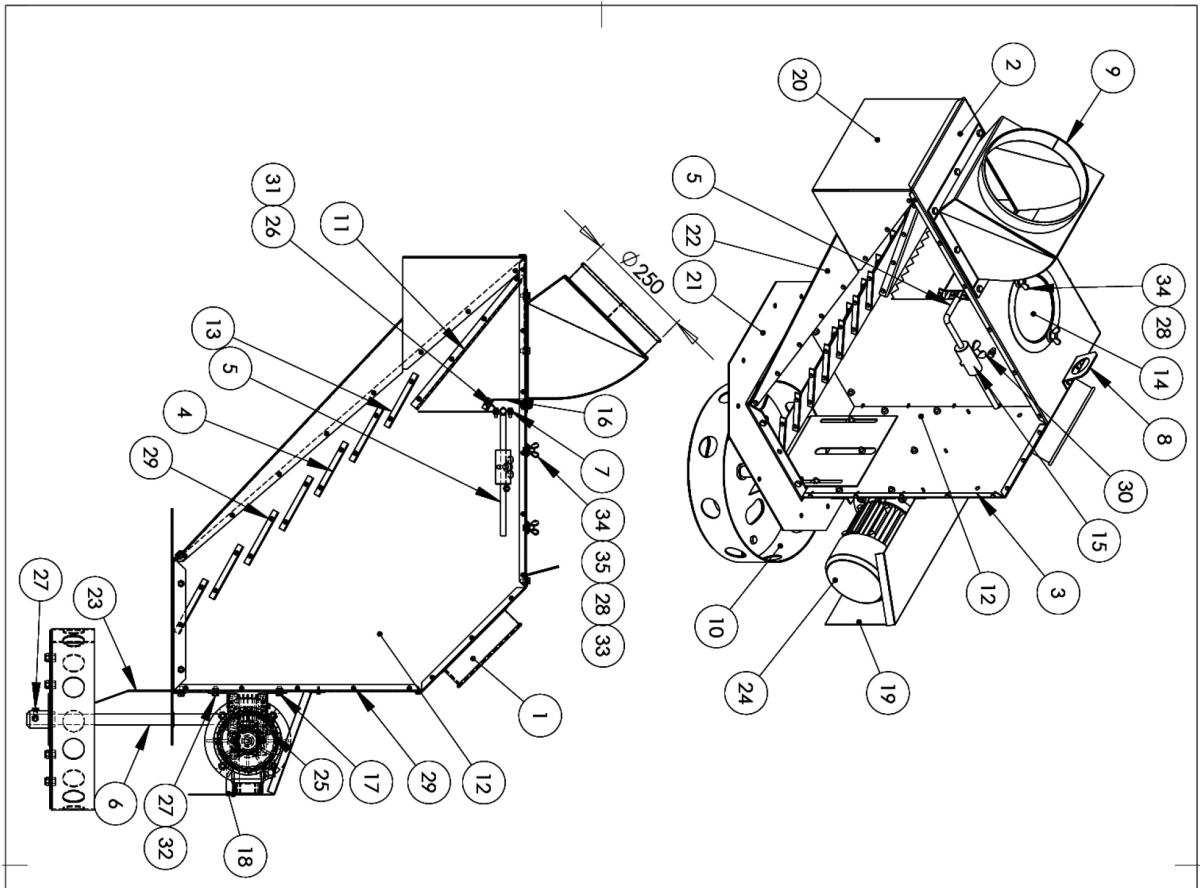
1:10

101896\_2

Стандартный тип

T

### 7.4. Pre-cleaner 60B+ 101896\_3



POS	CODE	101896_3/QTY.	Материал	Описание	По русски	Тип
1	100710	1	Ручка	Handle	Ручка	ø200
2	101898	1	Левый	Plate	Пластина	
3	101899	1	Левый	Plate	Пластина	303x578
4	101902	7	Левый	Plate	Пластина	
5	101905	1	Акселл	Axle	Вед	
6	101908_1	1	Акселл	Axle	Вед	
7	102045	1	Левый	Plate	Пластина	
8	102532	1	Наставка	Holder bracket	Левая монтажная	3x80 L=100
9	102743	1	Муфта	Transformer	Переключник	ø250
10	104091	1	Левый/справа	Spreader plate	Рассеивающая	
11	136932	1	Левый	Plate	Пластина	
12	136933	2	Левый	Plate	Пластина	
13	136934	1	Левый	Plate	Пластина	
14	137162	1	Защита	Notch		221x293
15	137167	1	Вес	Weight	Вес	500g
16	137872	1	Левый	Plate	Пластина	102x297
17	137882	2	Трубка	Support plate	Опорная пластина	122x300
18	137885	1	Трубка	Support plate	Опорная пластина	30x90
19	137886	1	Сюжет	Cover	Защита	299x317
20	153388	1	Левый	Plate	Пластина	
21	153392	1	Фланец	Flange	Фланец	
22	153393	1	Левый	Plate	Пластина	
23	200347	1	Левый	Plate	Пластина	
24	900326	1	Вал	Geared motor	Мотор с редуктором	Мотор 180 AN NMRV-050
25	910034	4	Крышка	Hex bolt	Болт	M6x12
26	910036	8	Крышка	Hex bolt	Болт	M6x16
27	910072	29	Крышка	Hex bolt	Болт	M8x16
28	910074	2	Крышка	Hex bolt	Болт	M8x20
29	912530	91	Поршень	Drill head screw	Саморез	6.3x16
30	912729	1	Сифон	Wing screw	Воронка	M10x40
31	920004	8	Крышка	Hexagon Nut	Гайка	M6
32	920006	27	Крышка	Hexagon Nut	Гайка	M8
33	920054	1	Крышка/деталь	Hexagon Nut Low	Гайка пониженной	M8
34	920073	2	Сифон	Wing Nut	Бордочная гайка	M8
35	921070	2	Крышка	Cap head washer	Шайба с головкой	D30x9

**ISO 2788-C**  
 Name: **Esphudstin Pre-cleaner**  
 Предварит. очиститель  
 Dimension, type: **1001 ø250**  
 Sheet format: **A3**  
 CODE: **101896\_3**  
 Date: **24.2.2006**  
 Scale: **1:10**  
 Rev: **T**

### 7.5. Pre-cleaner 60B 101896\_4

POS	CODE	101896_4/QTY.	Нимфус	Дескрипшн	По русски	Type
1	1007/10	1	Pulki	Pipe	Труба	ø200
2	101898	1	Levy	Plate	Пластина	
3	101899	1	Levy	Plate	Пластина	303x578
4	101902	7	Levy	Plate	Пластина	
5	101905	1	Aksel	Axle	Вал	
6	102045	1	Levy	Plate	Пластина	
7	102532	1	Настоякочо	Hold bracket	Петла монтажника	3x80 L=100
8	102763	1	Мультигоде	Торсионер	Переходник	ø250
9	136932	1	Levy	Plate	Пластина	
10	136933	2	Levy	Plate	Пластина	
11	136934	1	Levy	Plate	Пластина	221x293
12	137162	1	Lutku	Notch		
13	137187	1	Рипус	Weight	Вес	500g
14	137872	1	Levy	Plate	Пластина	100x297
15	153388	1	Levy	Plate	Пластина	
16	153392	1	Lopra	Палге	Фланец	
17	153393	1	Levy	Plate	Пластина	
18	200347	1	Levy	Plate	Пластина	
19	910036	8	Kuloboluvl	Hex bolt	Болт	MxL16
20	910072	24	Kuloboluvl	Hex bolt	Болт	MxL16
21	910074	2	Kuloboluvl	Hex bolt	Болт	MxL20
22	912530	85	Ропсулви	Drill head screw	Саморез	6,3x16
23	912729	1	Sifruvli	Wing screw	Боршак	M10x40
24	920004	8	Kuloboluvliferi	Hexagon Nut	Гайка	M6
25	920006	24	Kuloboluvliferi	Hexagon Nut	Гайка	M8
26	920054	1	Kuloboluvliferi Matika	Hexagon Nut Low	Гайка прискоченна	M8
27	920073	2	Sifruvli	Wing Nut	Боршаконка гайка	M8
28	921070	2	Kipoklavlevy	Scar head washer	Шерба волгунга	D30/7

Standard: ISO 2768-C

The drawing remains the property of MEPU. It shall be returned on request and cannot be copied or used without MEPU's consent.

Material: Steel

Weight: 45,91 kg

Scale: 1:10

Date: 24.2.2008

Approved by: \_\_\_\_\_

Checked by: \_\_\_\_\_

Drawn by: \_\_\_\_\_

Design: 1001-ø250 Junior

Part: 4/7

Code: 101896\_4

Rev: T

## 7.6. Pre-cleaner 60SC 101896\_5

POS	CODE	101896_5.GINT.	Material	Description	По русски	Type
1	100710	1	Plastic	Plastic	Пластик	Ø200
2	101898	1	Levy	Plate	Пластина	
3	101899	1	Levy	Plate	Пластина	303x578
4	101902	8	Levy	Plate	Пластина	
5	101905	1	Acsteel	Axis	Вал	
6	102045	1	Levy	Plate	Пластина	
7	102532	1	Naistokovca	Hold bracket	Лева монтажница	3x80 L=100
8	102763	1	Maunplohyde	Transformer	Переключник	Ø250
9	101789	1	Lidprova	Flange	Фланец	Еврошрифтин
10	136932	1	Levy	Plate	Пластина	
11	136933	2	Levy	Plate	Пластина	
12	136934	1	Levy	Plate	Пластина	221x293
13	137162	1	Lukisku	Helich	Вес	500g
14	137187	1	Pumms	Weight	Вес	500g
15	137872	1	Levy	Plate	Пластина	102x297
16	153388	1	Levy	Plate	Пластина	
17	153393	1	Levy	Plate	Пластина	
18	910056	8	Kuudonnuvi	Hex bolt	Болт	M6x16
19	910072	24	Kuudonnuvi	Hex bolt	Болт	M8x16
20	910074	2	Kuudonnuvi	Hex bolt	Болт	M8x20
21	912530	85	Porotuvvi	Drill head screw	Саморез	6.3x16
22	912729	1	Silpivuvi	Wing screw	Еврошуук	M10x40
23	920004	8	Kuudonnuvi	Hexagon Nut	Гайка	M6
24	920006	24	Kuudonnuvi	Hexagon Nut	Гайка	M8
25	920054	1	Kuudonnuvi/Modika	Hexagon Nut/Low	Гайка пружинящая	M8
26	920073	2	Silpimuteri	Wing Nut	Еврошайба	M8
27	921070	2	Krupuulisevy	Cup head washer	Шайба конусная	D30/9

**General Information**  
ISO 2768-C  
This drawing contains the property of MEPU Oy. It must be returned on request and cannot be copied or used without MEPU Oy's consent.

**MEPU**  
Espindistin  
Pre-cleaner  
Предварит. очиститель

1001 Ø250 L-series  
A3  
101896\_5

Drawn by: Jarkko Lindfors  
Approved by:  
Date: 29.11.2012  
Scale: 1:10  
Rev: T

### 7.7. Pre-cleaner 60BC 101896\_6

POS.	CODE	101896_6/QTY.	Nimitys	Description	По русски	Type
1	100710	1	Puiki	Pipe	Труба	ø200
2	101898	1	Levy	Plate	Ластинка	
3	101899	1	Levy	Plate	Ластинка	303x578
4	101902	8	Levy	Plate	Ластинка	
5	101905	1	Akseli	Axle	Вал	
6	102045	1	Levy	Plate	Ластинка	
7	102428	1	Muuntoplate	Transformer	Преобразователь	ø200
8	102532	1	Nastakova	Hoist bracket	Петля монтажная	3x80 L=100
9	102849	1	lappra	Flange	Фланец	Espundistin
10	136932	1	Levy	Plate	Ластинка	
11	136933	2	Levy	Plate	Ластинка	
12	136934	1	Levy	Plate	Ластинка	271x293
13	137162	1	Lukku	Hatch		
14	137187	1	Punnus	Weight	Вес	50kg
15	137872	1	Levy	Plate	Ластинка	102x297
16	153388	1	Levy	Plate	Ластинка	
17	153393	1	Levy	Plate	Ластинка	
18	910036	8	Kuusiouvi	Hex bolt	Болт	M6x16
19	910072	24	Kuusiouvi	Hex bolt	Болт	M8x16
20	910074	2	Kuusiouvi	Hex bolt	Болт	M8x20
21	912530	85	Porruuvi	Drill head screw	Саморез	6.3x16
22	912729	1	Sipinruuvi	Wing screw	Бортовик	M10x40
23	920004	8	Kuusioumutteri	Hexagon Nut	Гайка	M6
24	920006	24	Kuusioumutteri	Hexagon Nut	Гайка	M8
25	920054	1	Kuusioumutteri M6x16	Hexagon Nut Low	Гайка пружиненная	M8
26	920073	2	Sipinmutteri	Wing Nut	Бортовиковая гайка	M8
27	921070	2	Kupukallevy	Cup head washer	Шайба конусная	D30/9

**Material** 44.37 kg, **Weight** 44.37 kg, **ISO 2768-C**

**Material** This drawing remains the property of MEPU Oy. It must be returned on request and cannot be copied or made without MEPU Oy's consent.

**Material** Esipuhdistin Pre-cleaner 80t ø200 L-series A3 6/7

**Material** Предварит. очиститель 101896\_6

**Material** CODE 101896\_6

**Material** Scale 1:10

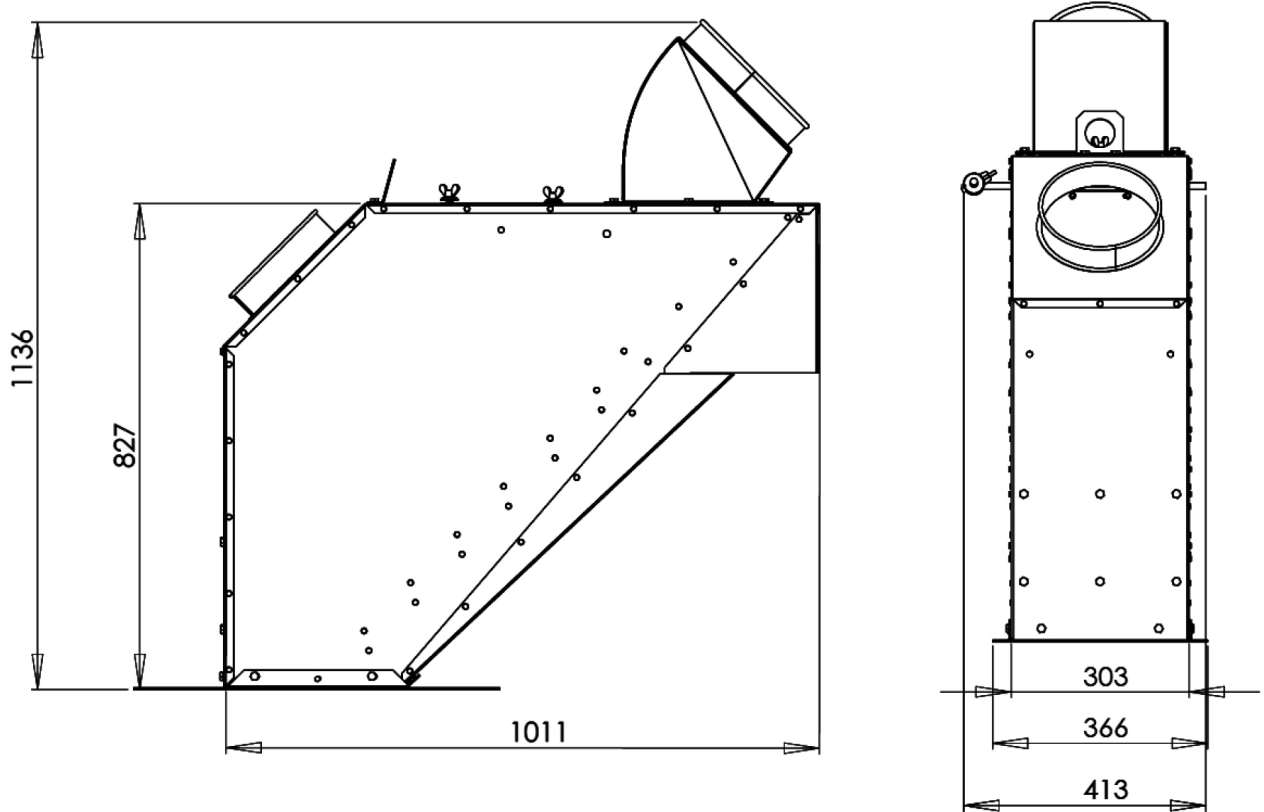
**Material** Rev T



**Material** Date 29.11.2012

**Material** Approved by



### 7.8. Pre-cleaner 60SC/60BC 101896\_5



Slab	Material	Finish	Weight <b>44.79 kg</b>	Drawn by <b>Jaakko Lindfors</b>	Date <b>29.11.2012</b>
 General tolerance <b>ISO 2768-c</b>	This drawing remains the property of Mepu Oy. It must be returned on request and cannot be copied or used without Mepu Oy's consent.			Approved by	Date
	Name <b>Esi puhdistin Pre-cleaner Предварит. очиститель</b>	Dimension, type <b>100t ø250 L-series</b>	Sheet format <b>A3</b>	Page <b>7/7</b>	Scale <b>1:10</b>
			CODE <b>101896_5</b>	Rev <b>T</b>	

### 7.9. Fan 1,5 kW 103130

Technical drawing of a fan assembly (1.5 kW, 103130). The drawing includes a front view with dimensions 517 (height) and 299 (width), a side view with dimensions 474 (width) and 549 (depth), and a detail view of the motor assembly. Callouts 1 through 5 identify specific components: 1 (Frame), 2 (Electric motor), 3 (Hexagon Nut), 4 (Washer), and 5 (Star knob).

POS	CODE	QTY	Notes	Description	Ито по специ	Type
1	103125	1	Рамка	Frame	Рамка	1.5kW
2	900305	1	Схематический электродвигатель	Electric motor	Схема	1.5kW 3000rpm BS
3	920007	4	Шестигранная гайка	Hexagon Nut	Гайка	M10
4	921036	4	Шайба	Washer	Шайба	DIN 433-10
5	960000	1	Звездочка	Star knob	Звездочка	SO-M10 MS

General tolerance: ISO 2768-C  
 Name: Puhallin Fan Behninnrop  
 Dimension: 1.5kW  
 Sheet format: A3  
 Page: 1/1  
 Scale: 1:5  
 Code: 103130  
 Rev: B





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