EURO PRIMA

Innovative Technology

Euro Prima was established 2001 with headquarter in Serbia. Our production is based on the machines for medicinal herbs and spices processing. Euro Prima's produces a comprehensive range of the machines which cover almost all phases of medicinal herbs and spices production, starting from the harvesting and mowing to the production of high quality final products, whether it is a flower, leaf or root.

High quality machines developed by our engineers, unique technology in herbs processing and focus on solving numerous specific problems that are now placed in front of the producers of the medicinal herbs and spices, classified us as one of the best world producers of the machines from this area.

Long-term presence on the market in over 50 countries of the world has provided us great experience with different herb species, and with the specificities of these herb species which are grown on different continents.

Our philosophy is high quality machines, based on new technologies and on our researches of needs of the agricultural producers and buyer of medicinal herbs and spices.

The herbs production phases for which our company offers a set
of efficient and highly innovative machines are as follows:

- harvesting and mowing
- processing of fresh herbs
- drying
- processing of dry herbs

The finishing processes can be different for some herbs. If one considers that it is usual that producers have a production of many different herb species, they are required to have a range of different machines. In order to increase the efficiency and the profit of the producers, it is important to combine that kind of machines which can be used for wide range of herb species.

Our company has developed very practical solutions based on multifunctional machines that can be used, with certain adapters or just with simple adjustments, for different herbs species.

Now our users are from everywhere in the world: Albania, Austria, Belorussia, Bosnia and Herzegovina, Brazil, Bulgaria, Czech, Chile, Egypt, Finland, France, Greece, The Netherlands, Croatia, Italy, South Africa, Canada, Kazakhstan, Cyprus, Korea, Latvia, Lithuania, Hungary, Mexico, Germany, Paraguay, Poland, Portugal, Romania, Russia, Syria, Slovakia, Slovenia, Spain, Serbia, Montenegro, Sudan, Tunis, Turkey, Ukraine, etc.

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Harvester NB 2005 V

The machine **NB 2005 V** is a **NEW** generation of machines NB. It is equipped with devices that feed harvested and mowed herbs into the loading basket, which is an integral part of the machine. The machine can be ordered with 3 different adapters which allow you to use the same machine for chamomile harvesting, mint leaves harvesting, herbs mowing. A variety of herbs can be mowed and harvested with this machine, which makes it different by its functionality in comparison to other machines, which can be found on the market. The price of this machine is acceptable. The following characteristics make this machine profitable: high grade of functionality, low price, good operational characteristics, high efficiency, and high quality production. High quality materials, coated with zinc and painted sheet plates, simple construction and easy maintenance are the guarantee for long duration.





NB 2005 V is attached to the tractor and carried by tractor's hydraulic bars. It has its belt conveyor and a hopper. The hopper is unloaded by hydro-cy linders. Harvesting height can be adjusted by the tractor's mechanism. It also has hydraulic unit for angle adjustment helpful in the cases when the field is not flat. It is ideal for the fields where maneuvering is difficult. One person who is driving a tractor can handle this machine. The machine does not destroy the field (ground), since it is carried and only the wheels of the tractor lay on the field.

Harvester-mower **NB 2005 V** can easily be transformed from operational into transportation form. In transportation form it is pulled by tractor. This additionally increases its efficiency when it is necessary to work on distant fields in the same day.

With adapters for chamomile harvesting and because of the possibility of continual height regulation and adjustable angle of the machine adapting to the terrain, the chamomile flower is harvested with great precision and high quality.

The adapter for mowing herbs consists of double cut scythe, giving a clean cut, without smashing the stalks, which is important for the herbs that require several harvests per year. Beside the scythe, the machine is equipped with devices that load the harvested herbs on the transporting conveyor and the mechanism that prevents the conveyor from blocking and improves transporting of herbs to the feeding box.

Chamomile harvesting

The machine provides best results in harvesting chamomile flowers with the height ranging between 20 cm and 70 cm, and when the chamomile makes full constitution in which the flowers are concentrated in the upper part of the stem in the range up to 15 cm. Chamomile should also be sown, not planted from hotbed, since the one cultivated from hotbed is straggling and has flowers all over the stem, not just in the upper part. It is very important for the machine not to be put below the area in which the flowers are concentrated.The machine should be kept in the upper area where the flowers are concentrated in order to harvest the only the flowers; if lowered to the ground, the machine harvests the stems, too.

Best results that can be achieved in ideal conditions are the following: 60% flowers without stems, 20% of flowers with stems between 2-10 cm, 20% flowers with stems longer than 10 cm. If chamomile is of poorer quality (straggling, laid down, too high, uneven, flowers scattered all over the stem or in the area larger than 15 cm), harvesting results are poorer.

Calendula harvesting

For calendula harvesting, the machine has to be put in the position of the herb, upper zone (where the flowers are concentrated). Flowers placed aside, in the lower herb zone, stay outside the harvesting zone and are not picked. During harvesting, the machine picks flowers but also the leaves located in the flower zone.

Chamomile harvesting

Calendula harvesting

Mint leaves harvesting

Adapter for mowing is ideal for mint, oregano, melissa, parsley, spinach, plantago, etc. The mower performs double cut, so the stalk is cut precisely without crushing.

Machine in transportation mode

Hydraulic unit for adjusting of picking angle

All parts under abrasion are zinc protected

Technical specifications:

Approximate Weight	1150 kg to 1350 kg with empty hopper
Tractor	II Category min 50 KW
Hitch	three-point
Regulation of mowing-harvesting level	Continual by tractor's lifting hydraulic bars
Regulation of mowing-harvesting angle	Continual by hydraulic cylinder in a range of +/- 15 degrees
Conveying belt	PVC width 500 mm
Working width	1.45m, 1.6m or 1.8m
Mowing device	With double cut scythe
Working speed	2 – 5 km/h
Transportation speed	10 km/h
Basic frame material	Steel painted
Sheets	Stainless steel - Inox
Transmission mechanism material	zinc protected
Hopper volume	2 m^3
Height of the hopper unloading point	2000mm / 2400mm
Hopper unloading	Hydraulic
Approximate time for transformation from the operational into transportation function	15 min
The working element driving	Through the tractor pto-drive shaft with six grooves 34,9mm diameter, 540 o/min
Capacity in mowing	2000 kg/h 1 hectare / 4 hours
Capacity in picking	1 hectare / 3 hours

Harvester-mower NB 2006 E/P

The machine NB 2006 E/P is a NEW generation of harvester-mower. It is a successor of Euro Prima model NB 2004 E/P. After many years of use of model NB 2004 , we have decided to design a new model. Using our customers' experiences and their suggestions we have applied new solutions and made new, improved model for harvesting and mowing. On the other hand, the new model retained the best features of its predecessor.





Chamomile harvesting



Calendula harvesting


Among many innovations and technical solutions that we applied, we will mention only some of them such as:

- Wider belts for transportation of harvested material in the trailer. This provides better transition of herbs over the belts and increases the capacity of the machine.
- Special attention is paid to details that enable easier operation and comfortable use.
- New better-quality materials are used in machine construction.

The machine has simple construction and is easy to operate.
The machine can be ordered with different adapters which are easily changed depending on herb species you are harvesting.
This makes the machine NB 2006 a universal, economical solution which you can use throughout the whole year for different cultivations, for harvesting, picking or mowing different species.
The machine is carried and can be used with many models of II category tractors.

Adapter for harvesting is ideal for **chamomile flowers**

The adapter does not use the blades but special working element for picking the flowers without cutting them.
The machine provides best results in harvesting chamomile flowers which height ranges between 20 cm and 70 cm, when the chamomile is dense and the flowers are concentrated in the upper part of the stem in the 15 cm top zone.
Chamomile should also be sown, not planted.

The best results that can be achieved
in ideal fields are the following:

- 60% flowers without stems
- 20% flowers with stems between 2-10 cm
- 20% flowers with stems over 10 cm

Calendula harvesting

For calendula harvesting machine has to be put in the upper zone of plants (where the flowers are concentrated). Flowers which are placed aside, in the lower zone or the ones that stay outside the harvesting zone and will not be picked.
During the harvest, the machine picks flowers but also the leaves which are located in the flower zone.

Adapter for picking leaves

Adapter for mowing

Adapter for picking leaves

The new solution specially developed by Euro Prima enables the producers to pick only the leaves of some herb species that are suitable for this kind of picking. The best results are achieved if the herbs are cultivated with no rows, if the plants are densely planted and there is no empty space among the plants and the leaves are concentrated in the upper zone of plants.By harvesting only the leaves, the drying is faster. Time as well as the energy is saved. In addition, it makes later processing easier.

Adapter for mowing

Adapter for mowing can be used for wide range of herb species, such as mint, lemon balm, oregano, basil, parsley, etc. It is possible to mow plants of different heights ranging from 15 cm to 70 cm.
Mowing device performs double-cut and it makes clean cuts to the stem, therefore it does not crush it and allows it to regrow.

The machine also has two possibilities: working mode E and working mode P.

The marks E and P are related to storage of harvested material in the trailer. The same machine has the possibility of the material going either in a trailer pulled by the same tractor to which the machine is connected (E) or by another tractor which moves paralelly with the tractor carrying the machine (P). Depending on the structure of fields and the concept of user's production the user can choose whether to use the machine in E or P mode. The standard machine is delivered with both options.

Double-cut mowing device

In mode P, harvested material is transported in the trailer which is pulled by another tractor which goes paralelly with the tractor which is carrying the machine.
Harvesting-mowing and transportation process is fully automated. NB 2006 is equipped with belt conveyors, which transport the harvested-mowed material into the trailer. Full trailer is driven to drying facility while another tractor comes with an empty trailer. This way harvesting-mowing process is continuous, with no interruptions and no need for additional manipulation of the material.

The machine in working mode P

In mode E, harvested material is transported in the trailer which is pulled by the same tractor which carries the machine. With this solution, the user needs less mechanisation, however, they need more labour for distributing the material in the trailer and more time for connecting and disconnecting the trailer. The capacity is therefore a bit lower compared to mode P.

The machine in working mode E

Position for transport
The machine in position for transportation on roads.
It has its own signalization and it can be transported on public roads.

Setting options:
Adjustments can be performed in all three axes
1. Height of mowing – picking
2. Angle of mowing – picking
3. Angle of attack for mowing - picking

- hydraulic unit for regulation of conveyor's angle

- hydraulic unit for adjusting of picking angle

Technical specifications:

Approximate Weight	1500 kg
Tractor	II category, minimal power 60 kW
Hitch	three-point
Mowing leveling	Continual by tractor's hydraulic system
Regulation of mowing angle	Continual by hydraulic cylinder in a range of 15 degrees
Conveying belt	PVC
Working width	1.6m, 1.8m, 2m
Mowing device	With double cut scythe
Working speed	2 - 5 km/h
Transporting speed	10 km/h
Trailer	from 1 to 5 tons with two axles
Basic frame material	Steel painted
Sheets	Inox
Transportation mechanism material	zinc protected
Approximate time for transformation from the operational into transportation function	15 min
The working element driving	Through the tractor pto-drive shaft with six grooves 34,9mm diameter 540 o/min
Capacity in mowing	1 hectare / 3 hours
Capacity in picking	1 hectare / 2,5 hours

Chamomile harvester VB 2002

Listening the customers needs and with idea to keep farmers more productive during the harvest we developed
Chamomile harvester VB2002.

The harvester has hopper of 2 m^3 volume. Picked chamomile is transported to the hopper by a belt conveyor.
Harvester has wheels and belongs to the group of pulled machines. Tractor with engine power more than 30 kW
can be used for pulling and driving. From the hopper, picked chamomile is reloaded into the trailer and transported for drying. Hopper has hydraulic cylinders for unloading which reduce time consumption. Tractor's engine working regime is 1500 rpm which represent a regime with maximal rotating couple and minimum fuel consumption.

Working width is 1.8m.

Efficiency is restricted by organization, chamomile quality and tractor operator but average is 4 ha per day. All parts of the machine are easy to maintain.

Technical specifications:

Approximate Weight:	1000-1600 kg
Tractor:	I and II category (minimum 50 HP)
Coupling:	pulled
Regulating the mowing height:	Continually using the hitch of the tractor's hydraulic lifting system
Conveyor belt :	PVC, width 1840 mm
Working width:	1.8 m
Working speed:	2 - 5 km/h
Speed-limit during transport:	10 km/h
Main frame material:	Steel- painted
Transmission mechanism material:	Galvanized steel
Reception box capacity:	2.2 m 3
The height of box emptying:	2400mm
Emptying the box:	hydraulic

The machine for cutting herbs S 200 / S 350

The machine for cutting herbs S 200/S 350 is used for cutting fresh and dried herbs. The machine has wide range of usage. It is ideal for cutting lemon grass, mint, melissa, parsley, chamomile, St John's wort, mountain tea and similar herbs.

A wide range of fractions:

Due to precise knives and eficient system of feeding herbs into the cutting zone, and very flexibile managing of the speed of input belt conveyors and rotating speed of knife, it is possible to choose desirable dimension of cutting which is in range from few mimimeters to 10 cm.

The machine has two belt conveyors positioned one above the other. The upper conveyor is movable and positioned inclined. It is used to input the herbs into the zone of cutting. The upper conveyor is also used to compress the herbs and keep it compressed during cutting.
The section for cutting consists of the rotating knife (with two or three cutting arms set) and two counter knives.

Electronic regulation:

Both conveyors have electronic regulation of speed, by which you regulate the size of cutting herbs.
The regulation of speed is done by frequency regulator.
The adjustment is done by a potentiometer, and you can read the asigned values on a display. As an option, in offer we have PLC control with touch screen, which regulates the work of machine.
Besides, the machine is has the regulation of the rpm of the knife.
The regulation is also done by a frequency regulator.

S 200 – S 350
two different size and capacity

S 200

S 350

Technical specifications S 200:

Dimensions	1600mm x 900mm x 1300mm
Approximate weight of the machine	600kg
Knife engine	1.5kW / 380V
Knife engine – frequency regulator	1.5kW
Belt engine	3 x 0.37kW / 380V
Belt engine – frequency regulator	2 x 0.75kW
Speed regulation - knife	Electronic
Speed regulation - belt	Electronic
Belt width	200 mm sanitary health materials
Capacity:	Up to 1500 kg/h fresh herbs and up to 300 kg/h dray herbs
Material:	Black steel, all the parts that come in contact with the herbs are made of stainless steel and materials that meet all health standards.
Sound pressure level (by A and C scale)	At measuring points in accordance with the reference standards on the workplace, during operation, it is measured: LAeq(A)=70,6dB(A) LCeq(C)= 81,48dB(C) LCpeak=94,86 dB(A)

Technical specifications S 350:

Dimensions (Length/Width/Height)	3360mm x 2460mm x 1900mm
Approximate weight	1000kg
Knife engine	3kW / 380V
Knife engine – frequency regulator	4 kW
Belt engine	3 x 0.55kW / 380V
Belt engine – frequency regulator	2 x 0.75kW
Speed regulation - knife	Electronic
Speed regulation - belt	Electronic
Belt width	350 mm sanitary healthy materials
Capacity:	Up to 3000 kg/h fresh herbs and up to 600 kg/h dray herbs
Material:	Black steel, all the parts that come in contact with the herbs are made of stainless steel and materials that meet all health standards.
Sound pressure level (by A and C scale)	At measuring points in accordance with the reference standards on the workplace, during operation, it is measured: LAeq(A)=70,6dB(A) LCeq(C)= 81,48dB(C) LCpeak=94,86 dB(A)

Drum separator for fresh chamomile flowers BARABAN 4.1

Drum separator is used for chamomile separation after harvesting and before drying. First fraction is chamomile flowers with stems with the length up to 30mm, which is dried in a drying facility. The other fraction is long stems with small quantity of flowers, mixed with weed, which is dried separately or naturally in a shady and drafty storages.

Drum separator is easy for operation. It is quiet, does not produce vibrations and dust. Since the material is separated in two fractions bigger percentage of material can be dried with less energy which reduces the total cost.
Also it provides a big percentage of first-class chamomile after the separation.

INPUT IN BARABAN

1. Good-quality product (chamomile flowers with out stems or with stems shorter than 8 cm)

2. Bad-quality product (chamomile flowers with stems longer than 8 cm)

Technical specifications:

Length of the drum	4600 mm
Dia. of the drum	1200 mm
Nominal perforation of the drum	22 mm
Engine power	1.5 kW; 0.55 kW
Capacity	Input capacity 1500 kg/h
Length	5300 mm
Height	2510 mm
Width	1640 mm
Weight	1100 kg

The machine for cutting the stems from picked and dried chamomile flowers OGK 1003-A

The machine has been developed specially for removing the stems from chamomile flower head. The final product is super-quality flowers without stems with excellent shape and appearance.
Adjusting the operating distance between drums and knives allows easy adjusting and clean cut. High capacity sieve separates flower heads from stems and pulvis. Processed material falls on a special sieve which separates flower heads from stalks and pulvis.

The machine has pneumatic dispersers used for dispersing chamomile and preventing jams in the cutting space of the machine. On the output from the sieve, there is an air box through which chamomile heads pass before they reach control table. If there are leaves and other herb species, they are partially separated from chamomile flowers in the air box. Empty chamomile heads are also separated in the air box. The efficiency that you achieve on this machine extremely depends on the quality of input chamomile in the machine. If you input chamomile with long stems inis the machine, the capacity of the machine is small and requires constant intervention of the operator.

If you input good-quality chamomile in the machine with relatively short stems, the capacity is bigger and the intervention of the operator is not necessary.

OGK 1003-A has possibility adjusting to working tables, belt and spiral conveyers so it is very suitable for line production.

Machine is mounted onto the wheels allowing easy mowing and forming of production lines.

All covers are equipped with safety locks for maximum safety in operation.

Technical specifications:

Dimensions (Length/Width/Height)	1580mm x 2035mm x 2405mm
Approximate weight	970 kg
Engine type	1.1 kW / 380V
Number of sieves	1
Number of knifes Performance	2 40-100kg/h depending on input material
Material	Steel
Sound pressure level (by A and C scale)	At measuring points in accordance with reference standards on the working spot, during the machine operation, it is measured: Leq A (dB) 68.5 Leq C (dB) 74.5

Input

Output

Output

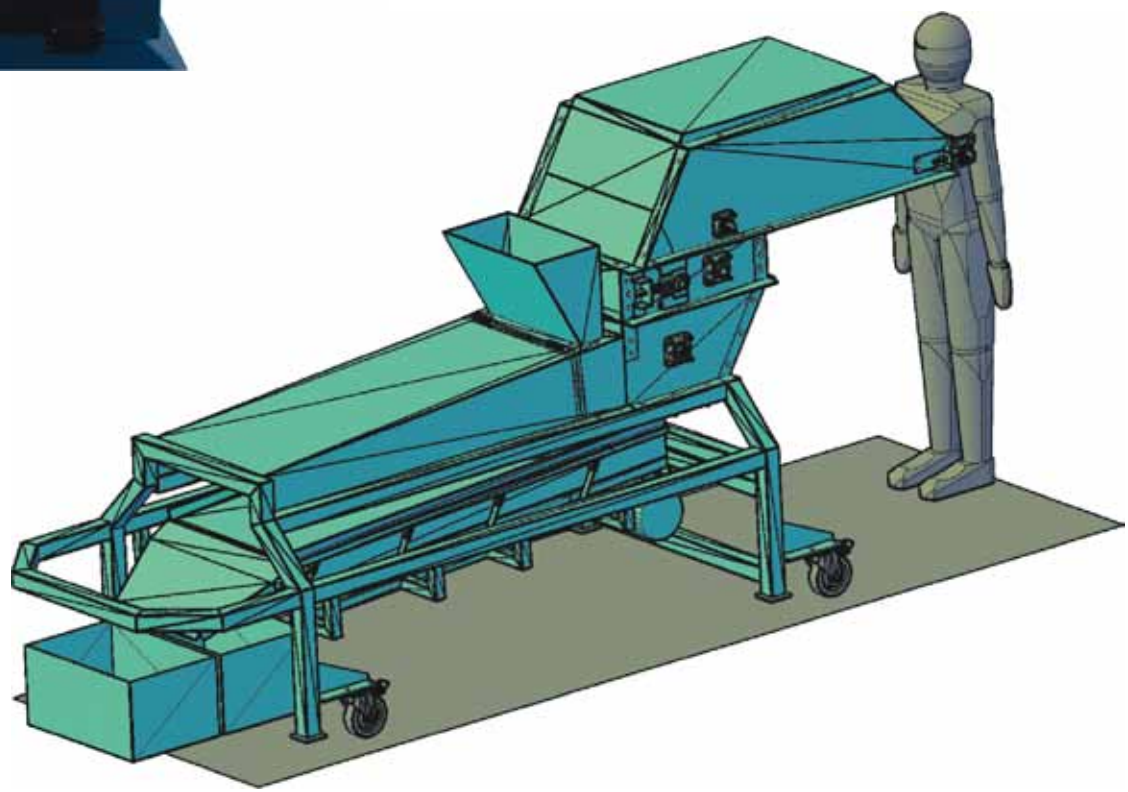
Threshing and crushing machine "REBLER" LGU 151 P

REBLER LGU 151 P machine is intended for removing leaves from stems of different herb species such as mint, melissa, rosemary, oregano, thyme, etc. Whole dry plants are input in the machine.
LGU 151 P was designed as a response to needs of small-scale and middle-scale producers of aromatic and medicinal herbs as well as the producers who occasionally use a technological process of removing leaves from stems, and whose demands are related to smaller dimensions and significantly lower price of the machine. However, the machine has good capacity.
The machine has a compact construction. It does not require a large space for storing and handling. While making the design for the machine, we took into account ergonomic features for easy handling of the machine.

Start phase:

A small belt conveyor, intended for inletting herbs into the threshing space, is integrated in the machine.

The material is input manually, so one operator is needed to handle the machine by inputting the herbs on the integrated belt conveyor. The height of the input belt conveyor is 1,4 m.



Sieving phase:
The machine also has a sieve which selects herbs that are to be processed. After the leaves are removed from the stems, the material falls on the sieve where the stems are separated from the leaves. The stems go above the sieve, while the leaves fall below the sieve.
The machine has one sieve. Its perforation depends on herb species which is being processed. The sieve is changeable. You can order a set of spare sieves, and change them according to herb species.

Beside its main function (removing the leaves from the stems) it can also be used as a vibrating selector. For this purpose, there is a fixed hopper above the sieves where you input leaves or seeds you want to select.

Easy and comfortable :
While designing LGU 151 P, special attention was paid to finding the best solution for quick and simple opening of the machine for cleaning and easy servicing, while the safety of the operator remained on the highest level.

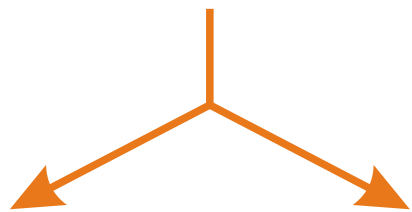
Safety systems:
The machine is designed in accordance with the EU regulations, in order to provide the maximum safety at work.

Interlock device with guard interlocking allows efficient stopping of the machine, in case of improper opening.

Efficiency:
The dimensions of the machine are relatively small. However, due to a number of new technical solutions, the machine has remarkable efficiency in operation.

OUTPUT LEAF

INPUT



OUTPUT STEMS

Technical specifications:

Material:	Regular steel, OPTION: All parts which are in contact with herbs are made of INOX
Dimension (WxLxH):	1250mm x 4000mm x 2000mm
Approximate weight:	~ 700 kg
Engine type:	2 x 1,1 kW; 2 x 0,55 kW
Number of sieves:	1
Perforation of the sieve:	According to customer's needs
Dimension of the sieve (WxL)	700 mm x 1910 mm
Integrated belt conveyor	
Length	1100 mm
Engine power	0,37 kW
Width	600 mm
Material	PVC

Threshing and crushing machine "REBLER" LGU 252

The machine is simple to use, it's highly efficient and beside leaf threshing it partly separates leaves from stems and classifies leaves. The machine is reliable and for many years is in use by our clients.

Start phase:
The material is loaded by a belt conveyor. In order to use the machine LGU 252 you will need belt conveyor.

Belt conveyer - VARIO 506

One operator loads herbs into the charging hopper of the Belt conveyor - VARIO (4,5m x 0,6m).
Belt conveys material into the Threshing and crushing machine Rebler LGU. Herb material can be loaded automaticly, with help of dosing belt conveyors which have big capacity. On this way you are eliminating the human labor during the feeding of the machine and achive maximal performance in work.

Technical specifications:

Dimension L x W x H	5000 mm x 1700 mm x 3000 mm
Approximate Weight	300 kg
Engine power	0.75 kw
Conveyor with ribs, width	600mm
Angle adjustment	Continual between 20 and 40 degrees
Additional equipment	Electronic speed regulation

Wide usage value
LGU gives excellent processing results (mint, melissa, sage, thyme, oregano, rosemary,.....)

After the threshing, the leaves and stems fall onto the sieve which is integrated with the machine. The sieve separates material in four fractions:

Rebler LGU represents combination of the working organ, has high efficiency, best threshing in regard to material wetness, and lowest leaf degradation. This is very important because during the process of grinding the essential oil is drastically lost.

Electronic regulation:
In the machine it is instaled a new system of asynchronous speed with electronic control and speed regulation. The machine operators can choose whether they will work in a synchronized or unsynchronized working mode, while the sensors control the operation of the machine and immediately synchronize the speeds of working elements when necessary. This is a way to increase efficiency of the machine when processing some demanding herb species, such as particular kinds of oregano or thyme. The sieves oscilation frequency is also electronically regulated

Easy and comfortable :
While designing LGU 252, special attention was paid to finding the best solution for quick and simple opening of the machine for cleaning and easy servicing, while the safety of the operator remained on the highest level.

Technical specifications LGU 252:

Approximate Weight:	1200kg
Engine power:	2 x 1,5kW; 2 x 0,55kW / 380V
Number of sieves:	2
Sieve size:	2495 x 950 mm
Frequent regulation	1,5 kW

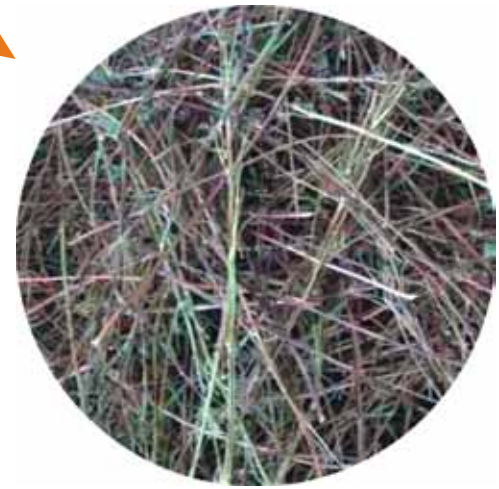
Adjusted to connecting in processing lines.

Efficiency:

INPUT

OUTPUT - LEAVES

OUTPUT - STEMS



OREGANO

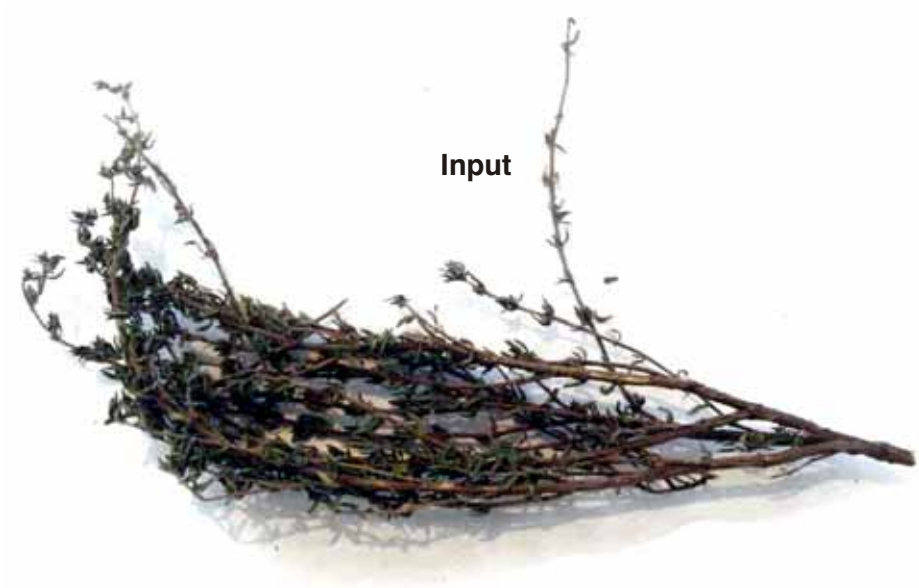
HERBS INPUT IN REBLER

OUTPUT STALKS

OUTPUT LEAVES

THYME

Input



Output I after REBLER

Output II after REBLER STEMS

Threshing and crushing machine REBLER LGU 304 with four sieves

The machine is simple to use, it's highly efficient and beside leaf threshing it partly separates leaves from stems and classifies leaves. It gives excellent processing results (mint, melissa, sage, thyme, oregano, rosemary). The machine has a possibility to work in two different modes, like threshing and crushing machine or like vibration separator. This represent a great advantage because with one machine two processes are covered.

1. Threshing and crushing mode

In order to use the machine REBLER LGU 304 you will need belt conveyor. The material is loaded by a belt conveyor VARIO 508 into the threshing and crushing part, which removes the leaves from the stems and selects the material in five different fractions.

I,II	stems
III	leaves - small fraction
IV	leaves - big fraction
V	dust

During the processing of fennel, only fraction IV is good material.

First three fractions are waste, and the fifth fraction are small light straws.

Fractions III and IV (or in case of fennel only fraction IV) are further processed.

Use of the machine for threshing and crushing

2. Vibration separator

The machine is used like vibration separator when the material is loaded into the first opening on the machine, by simple change of the belt conveyor's angle. The machine has four sieves and enables the classification of the processed material. Changing of sieves is simply and fast.

Use of the machine for separation

Technical specifications:

Dimensions (LxWxH)	5100mm x 2000mm x 4150mm
Length sieve:	First, second and third sieve are 2800mm, and the fourth sieve is 2650mm.
Width sieve:	950mm
Number of sieve:	4
Approximate weight of machine:	~ 1000 kg
Total power of electro motor:	2,2 kW
Voltage:	380 V
Electronic regulation:	2.2 kW
ADAPTER LG 304 for removing leaves from herb	
Electro motor power:	1.5 kW
Engine of introductory rollers:	2 x 0.55 kW
Voltage:	~ 380 V
Regulation the angle of inclination:	Continual between 20 i 40 degree

Vibration separator FS 2002 / FS 2502 with LGU 200 and adapter for chamomile

Machine FS 2002/FS 2502 with LGU 200 is easy to use which has a high efficiency, and which beside leaf threshing partly separates leaves from stems, and sorts leaves in different fractions. The machine is highly efficient and reliable in operation.

Machine FS 2002/FS 2502 can also be used combined with adapter for chamomile which cuts the stems from flower heads. The material then falls on sieves where the heads are separated from pollen, petals and small stems.

Belt conveyor VARIO 506 transports dried herbs (parsley, mint, mellisa, sage, elder, thyme, oregano, rosemary etc) into the machine.

If the herbs are well dried, the machine threshes leaves in one pass without crushing the stems. Herbs which are not adequately dried and herbs which leaves are difficult to remove require two passes in order to remove leaves. By proper settings, bigger or smaller fractions can be obtained.

Afterwards, the leaves and stems fall on especially profiled vibration separator FS 2002/FS 2502 sieves.Sieves separate the material into three fractions:

- Long stems without leaves
- Leaves with certain percentage of stems

LGU 200 is meant to work only combined with vibration separator FS 2002 / FS 2502 separator itself can be used independently for leaf and seed calibration etc, which makes this equipment multifunctional and increases the financial effect of the machine usage.

As an additional option, with vibrating separator FS 2002/FS 2502 a frequency regulator for screen frequency oscillation adjustment can be delivered. This significantly simplifies operating mode adjustment for different herb types.

Both machines have wheels that allow easy set up in a mutual working position, as well as quick and easy disassembling and moving.

Vibration separator FS 2002

LGU 200 adapter for processing dry herbs

Adapter for dry chamomile processing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Technical specifications FS 2002:

Length of the sieve	2000mm
Width of the sieve	950mm
Number of sieves	2
Approximate weight	app. 850 kg
Electromotor power	1,5 kW
Frequency regulator	1,5 kW
Voltage	~ 380 V

Technical specifications FS 2502:

Length of the sieve	2500mm
Width of the sieve	950mm
Number of sieves	2
Approximate weight	app. 900 kg
Electromotor power	1,5 kW
Frequency regulator	1,5 kW
Voltage	~ 380 V

Unprocessed material

Material processed with the Rebler - Leaves fraction

Output material - stalks

OREGANO

HERBS INPUT IN REBLER

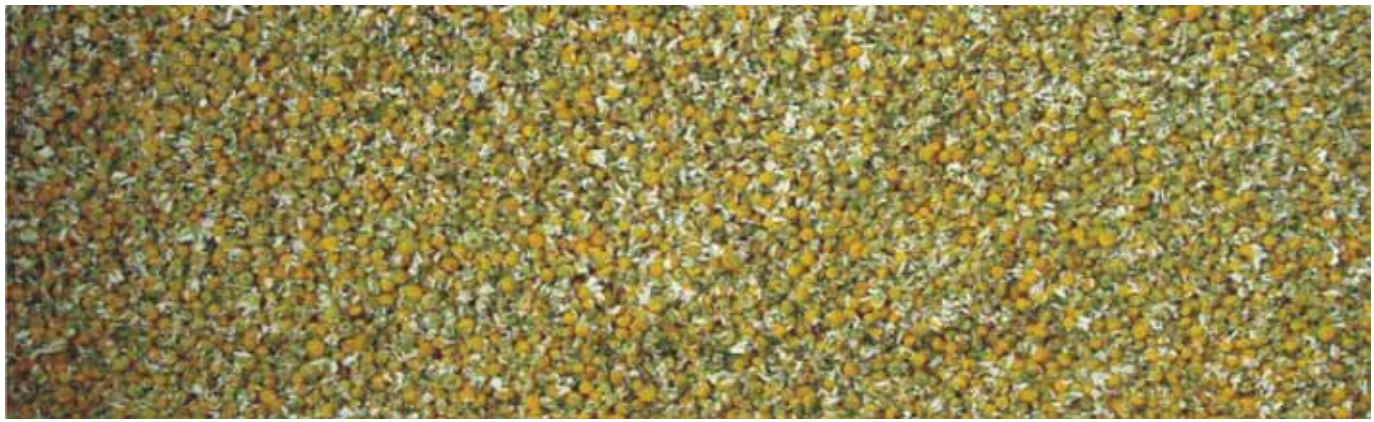
OUTPUT STALKS

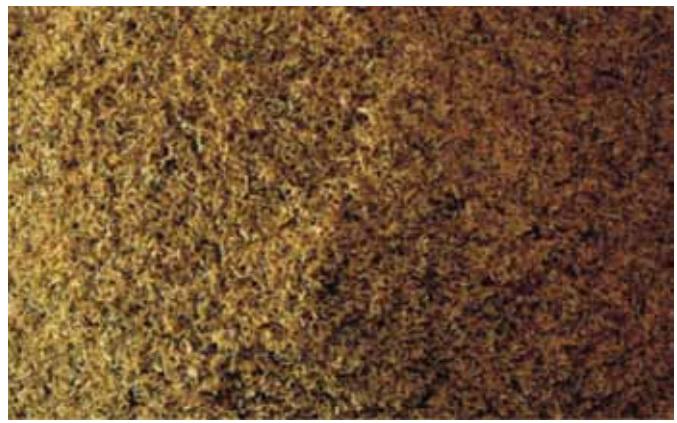
OUTPUT LEAVES

Results after processing chamomile with the combination of adapter for chamomile and vibration separator FS 2002

INPUT

OUTPUT





Vibration separator FS 3004 with LGU 200 and adapter for chamomile

FS 3000 is machine with wide possibilities and high efficiency. Basically it is vibration separator, with four sieves placed one above another, which separates material in five fractions. FS 3000's concept is to allow possibility of upgrading with different parts, giving multifunctional machine which can carry out several tasks in herb processing.

Start phase:
The material is loaded by belt conveyor. The belt conveyor can be loaded manually, by hand, or if the machines are integrated in a line, the loading of belt conveyor is performed by another belt conveyor, and the human labor is not necessary.

FS 3000 can be delivered with different adapters and depending of these parts machine can be in use for different herb material.

Sieving phase:
The machine also has sieves which selects herbs that are to be processed. The machine has four sieves.
The perforation of the sieves depend on herb species which is being processed. The sieves are changeable.
You can order a set of spare sieves, and change them according to herb species.

Herb processing (mint, melissa, sage, thyme,rosemary, etc) – removing leaves from the dry herbs – classifying bigger stems from leaves – leaf separation in three fractions – dedusting.
Chamomile processing – cutting stems from dry chamomile flower – flower/pulvis/small cut stems/petals selection – separation of leaves from the flower with air flow.

Technical specifications:

Sieve length	2800mm
Sieve width	950mm
Number of sieves	4
Weight of the machine	app. 1050 kg
Electro motor power	2.2 kW
Voltage	~ 380 V
Electronic regulation	2,2 kW

Electric cabinet:

FS 3004

LGU 200

Combinations

Vibration separator FS 3000 with adapter LGU 200 for herb processing.

After the threshing, the leaves and stems fall onto the sieves of the vibration separator FS 3000. The sieves separate the material in 5 different fractions:

1. long stems without leaves-small,
2. large leaves above 8 mm,
3. leaf 2-8 mm,
4. leaf fraction 0,35-2 mm which is in use for tea bags,
5. dust.

Vibration separator FS 3000 with adapter for chamomile processing

The machine is using for removing stalk from chamomile flower head.
It produces flower without stalk of a high quality flower, with excellent shape and appearance.

After finishing, chamomile is classified in five different fractions:

1. pure flower and stems with no class,
2. petals,
3. finely chopped stalks,
4. pure class and pulvis,
5. chamomile seeds.

The machine for unification of leaves L-2m

Unificator is machine which is used for separating leaves from stems on dry herb, also can be used for calibration of mixure of different dimension leaves to the desired size with minimal damaging.

The machine is designed in the way that dry herb is inputed with input belt conveyor in the selection space. Leaves separation is happening in the space with rotating brushes which rub separate leaves through sieve with desirable perforation. Belt conveyor is used for outputing separated leaves from machine, while the stems are outputed from the opposite side and collected in bag.

The machine is produced with replaceable different perforation sieves which is adjusted to the customer's needs. Machine is designed in order to have adjustable angle inclination for material flow speed regulation inside the machine. The sieves are changeable.

Technical specifications:

Length	2610mm
Width	930mm
Height	2300mm
Approximate weight	400 kg
Engine power	2.05 kW

Vibration separators
ST II VIBRO with two sieves / ST I VIBRO with one sieve

The vibration separators ST I VIBRO / ST II VIBRO is mechanical machine for sieving seed products, dried leaves, flower, pulvis etc in order to clean (calibrate) them, to separate leaves from small parts of stalks, to remove dust and other unwanted elements.

Vibration control is through two vibration motors. Sieve dimension and perforation depends on a customer needs and production capacities. Size of a hole directly influences on material granulation. Smallest sieve's perforation is called “silky” sieve for dust removing.

Selected mass is automatically put in boxes or onto belt conveyors, which depends on customer needs. Standard package include four different perforation sieves. On ST I VIBRO one sieve gives 2 fractions at the same time, while ST II VIBRO has 2 sieves which are set giving three different fractions in one pass.

Vibrating separator allows variable sieve inclination from 5-10 degrees, oscillation frequencies and the oscillation direction. That makes it very suitable for different cultures and also for materials with different level of unwanted elements. Vibration motor is powerful enough to work with heavy materials.

Type of machine:
Vibrating sieves
Treated product:
Spices, aromatic herbs and others
Description:
Mechanical machines used to sieve products in order to clean them or calibrate them.
Number of sieves: ST I VIBRO: 1, ST II VIBRO: 2
Number of fractions: ST I VIBRO: 2, ST II VIBRO: 3
Driving: vibration motors
Sieves declination: changeable continually from 5 to 10 degrees
Sieve perforations: according to your demand
Material dosage: - manually into receiving hopper
- with screw conveyor

Technical specification for vibration separator ST I VIBRO

Sieve length	1500mm
Sieve width	600mm
Number of sieves	1
Driving	vibration motors
Sieves declination	Changeable continually from 5 to 10 degrees
Sieves perforations	According to customers demand
Weight of the machine	app. 325 kg
Engine power	2 x 0.18 kW
Voltage	~ 380 V

Technical specification for vibration separator ST II VIBRO

Sieve length	1200mm
Sieve width	600mm
Number of sieves	2
Driving	vibration motors
Sieves declination	Changeable continually from 5 to 10 degrees
Sieves perforations	According to customers demand
Weight of the machine	app. 480 kg
Engine power	2 x 0.18 kW
Voltage	~ 380 V

Vibration separator ST I VIBRO with one sieve

Vibration separator ST II VIBRO with two sieves

Vibration separator VIBRO 14

Specification:
Type of machine:
Vibrating sieves
Treated product:
Spices,aromatic herbs and others
Description:
Mechanical machines used to sieve products in order to clean them or calibrate them.
Number of sieves: 27
Number of fractions: 15
Driving: vibration motors
Sieves declination: changeable continually from 5 to 10 degrees
Sieve perforations:
according to your demand
Material dosage:
- manually into receiving hopper
- with screw conveyor

The vibration separator VIBRO 14 is machine specially designed for very fine and final cleaning of material. Machine is also suitable for removing dust. The best results are achieved in removing very light and small stems that are often present in oregano, thyme, dill, parsley etc. This small stems could not be removed in previous processing - with air separators or other types of vibro separators. Also machine gives perfectly clean output product in processing chamomile pulvis, mint etc.

Vibration control is through two vibration motors. Sieve dimension and perforation depends on a customer needs. Size of a hole directly influences on material granulation.

Selected mass is automatically put in boxes or onto belt conveyors, which depends on customer needs. Standard package include 27 different perforation sieves. On VIBRO 14 sieves gives 15 fractions at the same time.

Vibrating separator allows variable sieve inclination from 5-10 degrees, oscillation frequencies and the oscillation direction. That makes it very suitable for different cultures and also for materials with different level of unwanted elements. Vibration motor is powerful enough to work with heavy materials.

Trier T-3.5/900

The machine is used for selecton of different materials, and in production of herbs found usage in the selection of seeds or leaves from different impurities like stones, small stems, grass, etc.

ICS is basically designed for sellection of seeds. ICS which is produced by EURO PRIMA company is characterized with technical solutions which provide wide range of usage for this type of machine also in leaf processing.

Specially designed inlets and outlets on the machine which are characterized by big permeable power, enforced filling and emptying, provide easy and safe flow of not only granular material, but also enormous material like a leaf.
Bigger diameter of cylinder which is Ø 900 mm and efective lenght of the cylinder which is 3,5 m guaranties great effect and good results.

ICS T – 3.5/900 is standardly equipped with electronic regulation of rPM of cylinder, which gives flexibility in work and enable very fine adjustments for maximum result in processing of your herbs.
Angle change of trough with screw conveyor is done through special electric engine, but also there is a special possibility that whole trough is turned for 180 or 360 degrees, which allows complete discharge of trough of screw and cleaning the machine which is very important when working with different herbs species.

Technical specification

Diametar:	900mm
Length:	3500mm
Regulation:	Electronic speed regulation
Sieve inclination	Adjustable 0 – 5 deegres
Material:	Regular steel
Belt conveyor - engine	0,55KW – 3/PE AC 50Hz 400 V
Belt conveyor - material	PVC

Single Zig-Zag air separator 2M-P

This machine is specially designed for small-scale and middle-scale producers. With unique construction and small dimensions, it can be easily placed in every hall. The machine gives extremely good results in cleaning of many different herb and species. During the process of cleaning, the machine does not damage the material, provides very good separation of material from impurities (stone, sand, steam, dust ...), and enables continual process.

The dimensions : of the machine are following:
- the dimensions of the basis are 2m x 3m, while the height is 2,5m – 3m.

The machine is very reliable; it does not jam and gives good quality leaf material. The machine is quiet and does not produce vibrations and dust. All parts of air separator are placed on wheels providing the possibility for easy moving.

Easy and comfortable: The machine has integrated belt conveyor which transports material into the ZIG ZAG section. Worker can easily load the material into the hopper, and with the regulation of the speed he can control the loading speed. The height of the input is 1.2 m.

Electronic regulation: The ZIG ZAG section and cyclone are on the same side as control cabinet, and this solution provides better control of work, and visual inspection of output material.

After the ZIG ZAG, you have three fractions:

- clean material,
- impurities (stems, ground, etc.),
- dust.

Bellow the ZIG ZAG section and cyclone there are boxes for the material. The flap on the ZIG ZAG section allows replace of the boxes without spilling of material.

Enclosed you will find photos of the results we achieved in separation of different herbs.
ZIG ZAG has a cyclone for collecting dust.

Single ZIG ZAG 2M-P

Air ventilator	1
Engine power	3 kW
Frequency regulator – engine power	4 kW
Total height	4000 mm
Engine power – input belt conveyor	0.75 kW
Frequency regulator – input belt conveyor	0.75 kW
Dosing system for Zig-zag	0.55 kW
CycloneEngine power	0.55 kW
Small belt conveyor	0.37 kW
Material:	Regular steel or INOX
Output fraction	2 + dust

Lemon verbena

Rosemary

Fennel seed

Mint

Mint – big fraction

Mint

Sage – big fraction

Sage - small fraction

Single & Double Zig-Zag air separator

The machine gives extremely good results in cleaning leaves (oregano, thymus, mint, melissa, rosemary, parsley, sage and similar) or seeds (fennel, anise and similar from different kinds of impurities (dust, stones,sand,metal parts, plastic parts, glass and similar). During the process of cleaning, the machine does not damage the material and enables continual process.

The Zig Zag air separator works on principle of classifying the material by specific weight and shape.
Precise electronic work regulation provides finely classifying of material until obtaining high quality output product.
The machine is characterized by high efficiency, quiet operation without vibration and dust.

Euro Prima has in its offer Single and Double 3-M separator.

Single Zig Zag air separator classifies the material on three fractions, and the Double Zig Zag air separator classifies the material on four fractions. The difference between these two machines is in number of Zig Zag sections. Every Zig Zag section has itsown ventilator with independendant operating. By Double Zig Zag air separator, the material which is cleaning, passes through double selection what increases the effect and allows the work with different type of unwanted elements, from relative big stems to very small elements (small stems, bristle hairs, dust etc) allowing processing of wide spectrum of herbs. As a result, a high percent of clean material can be achieved.

Basically, whether is about Single or Double Zig Zag air separator, at the end of the finishing process, following fractions can be obtained:

1. bigger impurities (stones, bigger sand, bigger stalks, metal parts, glass parts, and similar)

2. finer impurities (small send, bigger metal dust, smaller stalk, plastic impurities and similar) this fraction is by Double Zig Zag separated by first pass, and by Single Zig Zag by second pass

3. dust

4. pure leaf or seed

This machine is used for processing the herbs

Start phase:
The material for processing is transported in the Zig Zag by belt conveyor or pneumatic conveyor.

Single Zig-Zag air separator 3-M

Double Zig-Zag air separator 3-M

Electronic regulation of operating regimes:

Operating the machine is done through the panel which is placed in electric box. Regulation of work regime of ZIG ZAG separator is done through frequency regulator which manages the work of the ventilator and belt conveyor for input herbs. On the display, the set value is readable. This provides finely regulation of work, which, as the effect, has the increasing of the efficiency of the machine and obtaining quality final product.

Every Zig-Zag section can be adjusted separately, according to the herb material which is processed.

The cleaning of the machine is easy, it is cleaned as the machine is put in cleaning regime and the engines are working in full power.

ZIG ZAG separator, as an additional option can be equipped with PLC control with touch screen.



With PLC you regulate the work of the Zig Zag separator and belt conveyor VARIO 604 which is used for the input of the material into the Zig Zag separator. Beside that, PLC has an option to redefine and memorize of 30 different procedures,respectively 30 different regimes of work and you simplify the work of the operators. Of course beside these 30 regimes the operator has possibility to adjust the work of the machine in different regimes if wishes. PLC remembers the history of work, so it is possible to have a insight in work of the separator in past time. On display in real time is show the current regimes and eventual mistakes which can appear with the notice on which part of the machine the mistake has happen.

Technical specifications:

Single ZIG ZAG

Air ventilator	1
Engine power	4 KW
Dosing system for Zig-zag	0.55 kW
Cyclone Engine power	0.55 kW
Small belt conveyor	0.37 kW
Frequent regulator	4 kW
Total height	5000mm
Total width	2000mm
Total length	2400mm
Capacity	Up to 150 kg/h
Material:	Regular Steel or INOX
Output fraction	2 + dust
System for dust collection	1

Double ZIG ZAG

Air ventilator	2
Engine power	2 x 4 kW
Frequent regulator	2 x 4 kW
Two Zig Zag – Engine power	2 x 0.55 kW
Cyclone – Engine power	1 x 0.55 kW
Small belt conveyor	0.37 kW
Total height	5010mm
Total width	2640mm
Total length	3200mm
Capacity	Up to 250 kg/h
Material:	Regular Steel or INOX
Output fraction	3 + dust
System for dust collection	2

Belt conveyor - VARIO 604

For continual material entry into Zig-Zag's input hopper, conveyors with appropriate length and height of lifting are in use.
Our recommendation is to use belt conveyors which are not damaging material during the transport.
From our production we can offer you belt conveyor Vario 604, 6,3m length with ribs.

Conveyors are equipped with frequency digital regulator which is in use for adjusting of belt's speed and quantity of material. This is very important in order to achieve maximal efficiency of air separators and best quality of processed herbs.

All conveyors are set on the wheels and have mechanism for continual angle adjustments (height lifting).

Technical specifications:

Total length	6300mm
Engine power	0.75 kW
Frequent regulator	Delta
conveyor with ribs, width	400mm
Material:	Steel or Inox
Angle adjustment:	Continual between 20 and 40 degrees

Mint leaves after cleaning in ZIG ZAG s

SAGE leaves and stems after cleaning in ZIG ZAG s

Rosemary after cleaning in ZIG ZAG s

Thymus citriodorus before cleaning in ZIG ZAG s

Thymus citriodorus after cleaning in ZIG ZAG s

Lemon verbena leaves after cleaning in ZIG ZAG s

Triple Zig-Zag air separator 3-M

The machine gives extremely good results in cleaning leaves (oregano, thymus, mint, melissa, rosemary, parsley, sage and similar) or seeds (fennel, anise and similar from different kinds of impurities (dust, stones,sand,metal parts, plastic parts, glass and similar).

During the process of cleaning, the machine does not damage the material and enables continual process. The Zig Zag air separator works on principle of classifying the material by specific weight and shape.

Precise electronic work regulation provides finely classifying of material until obtaining high quality output product.

The machine is characterized by high efficiency, quiet operation without vibration and dust.

Euro Prima has in its offer Single, Double and Triple 3-M separator.

Single Zig Zag air separator classifies the material on three fractions, Double Zig Zag air separator classifies the material on four fractions and Triple Zig Zag air separator classifies the material on five fractions. The difference between these three machines is in number of Zig Zag sections. Every Zig Zag section has its own ventilator with independent operating. By Triple Zig Zag air separator, the material which is cleaning, passes through triple selection what increases the effect and allows the work with different type of unwanted elements, from relative big stems to very small elements (small stems, bristle hairs, dust etc) allowing processing of wide spectrum of herbs. As a result, a high percent of clean material can be achieved.

Basically, whether is about Single, Double or Triple Zig Zag air separator, at the end of the finishing process, following fractions can be obtained:

1. bigger impurities (stones, bigger sand, bigger stalks, metal parts, glass parts, and similar)
2. finer impurities (small send, bigger metal dust, smaller stalk, plastic impurities and similar)
3. dust
4. pure leaf or seed

This machine is used for processing of the dry herbs, spices and fruits.

Technical specifications:

Air ventilator		1 x 4 kW, 2 x 3 kW
Frequent regulator		3
Three Zig-Zag section	Engine power	3 x 0.55 kW
Cyclone	Engine power	1 x 0.55 kW
Output fraction		4 + dust
Control		PLC with touch screen
Approximate weight		2600 kg

Dedusting system - Cyclone separator A-6

The system is used for removing the dust which appears in the production process.
It covers 4 critical points, dust sources on the machines.

There are 4 dust hoods set above the mentioned points which collect the dust by vacuuming it.

Technical specifications:

Air ventilator	Engine power	5.5 kW
	Vibro motor	2 x 0.10 kW
	Filter	Antistatic
	Hoses	Antistatic
Total height		4299 mm

Cutting machine KN–8 & KN-D 11

The cutting machines KN–8 and KN-D 11 are designed for grinding of different input material like dry fruits, peels (orange, lemon), various types of herbs and thin roots.

The difference between these two machines is the number of knives – KN-8 has one set of radially set blades, and KN-D 11 has two sets of radially set blades.

The output product is in shape of rectangle. The desirable size of the output product is defined by the size of the knives and can be 6, 8 or 10 mm. The quality of the input material also could affect which set of knives will be used. The advantage of this machine is that produce a small percentage of dust and the output product is has unified dimensions.

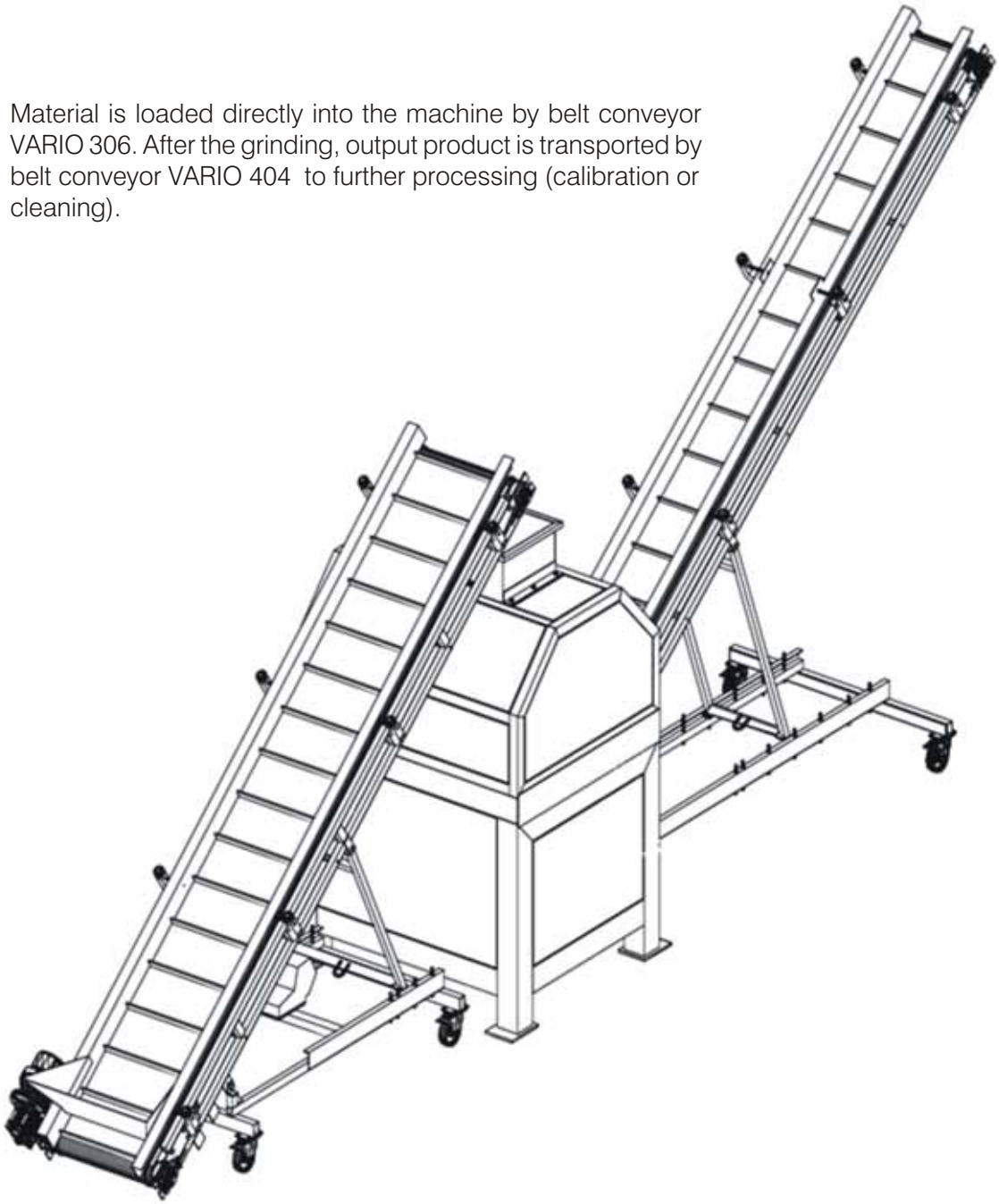
Cutting machine KN - 8

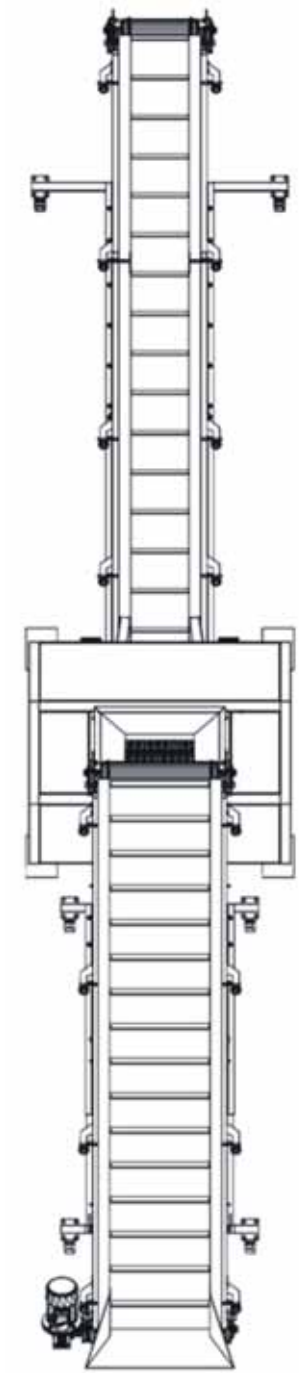
Technical specification

Engine power	2 x 4kW
Frequent regulator	Delta
Weight	500 kg (approximately)
Voltage	400 V
Dimensions (H x W x L)	2005 x 1260 x 1360 mm

With electric cabinet you can control each segment of the machine.

Material is loaded directly into the machine by belt conveyor VARIO 306. After the grinding, output product is transported by belt conveyor VARIO 404 to further processing (calibration or cleaning).





Cutting machine KN-D 11

The machine has four radially set blades, and provides a possibility to produce two different fractions of the output material, without need to change the knives, because of two input openings.

Material is loaded directly into the machine by belt conveyor VARIO 306. After the grinding, output product is transported by belt conveyor 306 out of machine for further processing or packing.

Technical specification

Engine power	4 x 3,0 kW
Frequent regulator	Delta
Approximate weight	1000 kg
Voltage	400 V
Dimension L x W x H	2900 x 1050 x 2060 mm

With electric cabinet each segment of the machine and input/output belt conveyors are controled. If in any case, machine blocks, with simple moving of the of working organ which is regulated automatically, the machine unblock itself.

INPUT - OUTPUT

Orange peels

Laurel leaves

Mill DF AERO with pneumatic dosing

Mill DF AERO is intended for milling leaves, roots, stems, fruits from different herb species such as mint, melissa, rosemary, oregano, thyme, rose hips, etc.
Machine consist of part for dosing and pneumatic transport, with aspiration for dust which is created during the milling process, and of part for milling.

The material which you want to mill: leaves, small stems, finely chopped roots or similar material is loaded into receiving hopper of belt conveyor. From the hopper the material is transported by belt conveyor with electronic speed regulation. With pneumatic transport the matrial is carried into the crusher where it is crushed to the desired granularity. After that, the material is transported into the cyclone. The dust which is created during the process is collected in filter.

Machine has section knives and sieves around it. Standard delivery includes 4 sieves with different perforation. Fineness may be changed just by change of screen.

Technical specifications:

Pulveriser	Engine power	5.5 kW
	Frequent regulator	5.5 kW
Air ventilator	Engine power	4 kW
	Frequent regulator	0.75 kW
Box for dosing	Volume of box	0.6m3
	Belt conveyor	0.75 kW

With electric cabinet you can control each segment of the machine. If any case, machine block, with simple moving of the swith from working mode to reverse mode.

Enclosed you can find the photos of the results. By choosing different sieves, you can change the fineness of the powder.

Apple - BEFORE

Apple - AFTER

Rose hips - BEFORE

Rose hips - AFTER

Rose hips seed - BEFORE

Rose hips seed - AFTER

Hibiscus - BEFORE

Hibiscus - AFTER

Mint - AFTER big fraction

Mint - BEFORE

Mint - AFTER smal l fraction

Mint - AFTER powder

Sage - BEFORE

Sage - AFTER

Crusher D-300

Crusher D-300 represents the first step in rose hips processing.

Material dosage is manual or by a conveyor. Whole fruit is input in
the machine where section knives cuts the fruit.

Machine has section knives and sieves around it. Standard delivery includes 4 sieves with different perforation. Fineness may be changed just by change of screen. Cutting section is driven by electrical engine 4kW.

Technical specifications:

Air ventilator	Engine power	1.5 KW, 0.1 KW
	Frequent regulator	OMRON VS mini J7 1,5 KW
Hammer mill	Engine power	3 kW, 0.55 KW, 0.37KW, 0.37KW
	2 x Frequent regulator	OMRON VS mini J7 3 KW, and 0.55 KW

Input

Output

The output product is a mixture of shels, seeds and hairs.

Control table

Large amount of material is put on the control table and there is no need to bend to the ground often to pick the material.
The speed is adjusted according to needed capacity.
The machine is long, so it alouds the inspection of the material before it enters the line.
Dimensions are different depending of customers needs. Recommending lengths are 3m and 5m and recommended width is 0.8m.

Electronic speed regulation is optional.
Control tables are mounted on wheels allowing easy relocation. Height regulation also possible, making them adjustable to different production lines.

Control table CONTROL 308

Length of transporting belt	3 m
Width of transporting belt	0.8 m
Speed of transporting belt	0 – 0,15 m/s
Type of belt transporter	CONTROL 308
Electric motor	0.25 kW
Frequency regulator	0,75 kW
Material of control table	Regular steel / INOX

Control table CONTROL 508

Length of transporting belt	5 m
Width of transporting belt	0.8 m
Speed of transporting belt	0 – 0,15 m/s
Type of belt transporter	CONTROL 508
Electric motor	0.37 kW
Frequency regulator	0.75 kW
Material of control table	Regular steel / INOX

Systems for dosing

Dosing conveyor LINE is used for continual and automatic dosing of the herbs, with minimal engagement of the workers.

Material is unloaded into dosing belt conveyor LINE which consists of three sections and dose the material in controlled layer into the rest of the line. You can put up to 3 to 8m3 of material in dosing belt conveyor which gives wide autonomy in operation. With this belt conveyor in the line, you do not need to fill the material often in the line and it is done without the participation of labor.

With the dosing belt conveyor it is possible to dose the material, wheter it is dry or fresh material, like chamomile flowers, leaves, seeeds, etc., and also the whole herb. For the dosing of the herbs, the dosing belt conveyor is equiped with two special devices which are used for additional dispersal of the herbs, when the herbs are condesed and entwined.

At the exit of the dosing belt conveyor the stone catcher with the magnet is placed, which prevents that stones and metal goes in the rest of the line, and make the damage on the equipent.
Optional is that the belt conveyor can be delivered covered with metal cover and transparent silicone curtains which prevent the exit of the dust into the room and they are suitable for connecting aspiration hoses.
All parts that come in contact with herbs are made of Stainless Steel – INOX, and belts are with ribbed borders.

Belt conveyor – LINE 1015

LINE 1015 is the system of 3 conveyors combined in one 10m long unit with 1.5m wide belt.
In one charge it is possible to fill 8m^3 of herbs.
The dosing belt conveyor, by the demand of the buyer, can be equiped with side sheet which can be open with pneumatic cilinders, and on this way the dosing belt conveyor is adjusted to filling from the trailer.
The filling can be done with the help of the doser or telehender.

Technical specifications:

Total length	1200 mm
Width	1500 mm
Weight: Belt conveyor - LINE 1015	1500 kg
Power of electric engine: Belt conveyor - LINE 1015	3 x 0.37kW (optional: 2 x 0.55kW)
Frequency regulator	3 x 0.75 kW
Belt:	PVC
Sound pressure level by A scale	Leq A (dB) < 70

Belt conveyor – LINE 808

LINE 808 is a system which consists of 3 belt conveyors combined in one belt conveyor 8 m long and 0,8 m wide.
Because of his dimensions, it is suitable for placing in all kind of spaces and it is easily adjusted to the production lines. You can put up to 3m3 of material in dosing belt conveyor which gives wide autonomy in operation.
With this belt conveyor in the line, you do not need to fill the material often in the line and it is done without the participation of labor. It is used for dosing many kinds of materials in processing lines. It can be used for many different herbs. Each conveyor has its own engine with speed regulation.

The material is Inox, and belts are sanitary healthy.

Technical specifications:

Total length	8570 mm
Width	800 mm
Weight: Belt conveyor - LINE 808	1000 kg
Power of electric engine: Belt conveyor - LINE 808	3 x 0.37kW (optional: 2 x 0.55kW)
Frequency regulator	3 x 0.75 kW
Belt:	PVC
Sound pressure level by A scale	Leq A (dB) < 70

Belt conveyor VARIO

For continual material entry into machines input hopper, conveyors with appropriate length and height of lifting are in use. Our recommendation is to use belt conveyors which are not damaging material during the transport. From our production we can offer you belt conveyor VARIO. Conveyors are equipped with frequency digital regulator which is in use for adjusting of belt's speed and quantity of material. This is very important in order to achieve maximal efficiency of the machines and best quality of processed herbs. All conveyors are set on the wheels and have mechanism for continual angle adjustments (height lifting).

Technical specifications VARIO 506:

Dimensions (Length/Width/Height)	5100mm x 1100mm x 3200mm
Approximate weight	250 kg
Engine power	0,75 kW
Width belt with ribs	580 mm
Active part of belt	500 mm
Angle adjustment	Continual between 20 and 40 degrees
Material	Steel

Technical specifications VARIO 604:

Dimensions (Length/Width/Height)	6000mm x 1000mm x 3900mm
Approximate weight	280 kg
Engine power	0,75 kW
Frequent regulator	0,75 kW
Width belt with ribs	400 mm
Active part of belt	310 mm
Angle adjustment	Continual between 20 and 40 degrees
Material	Steel

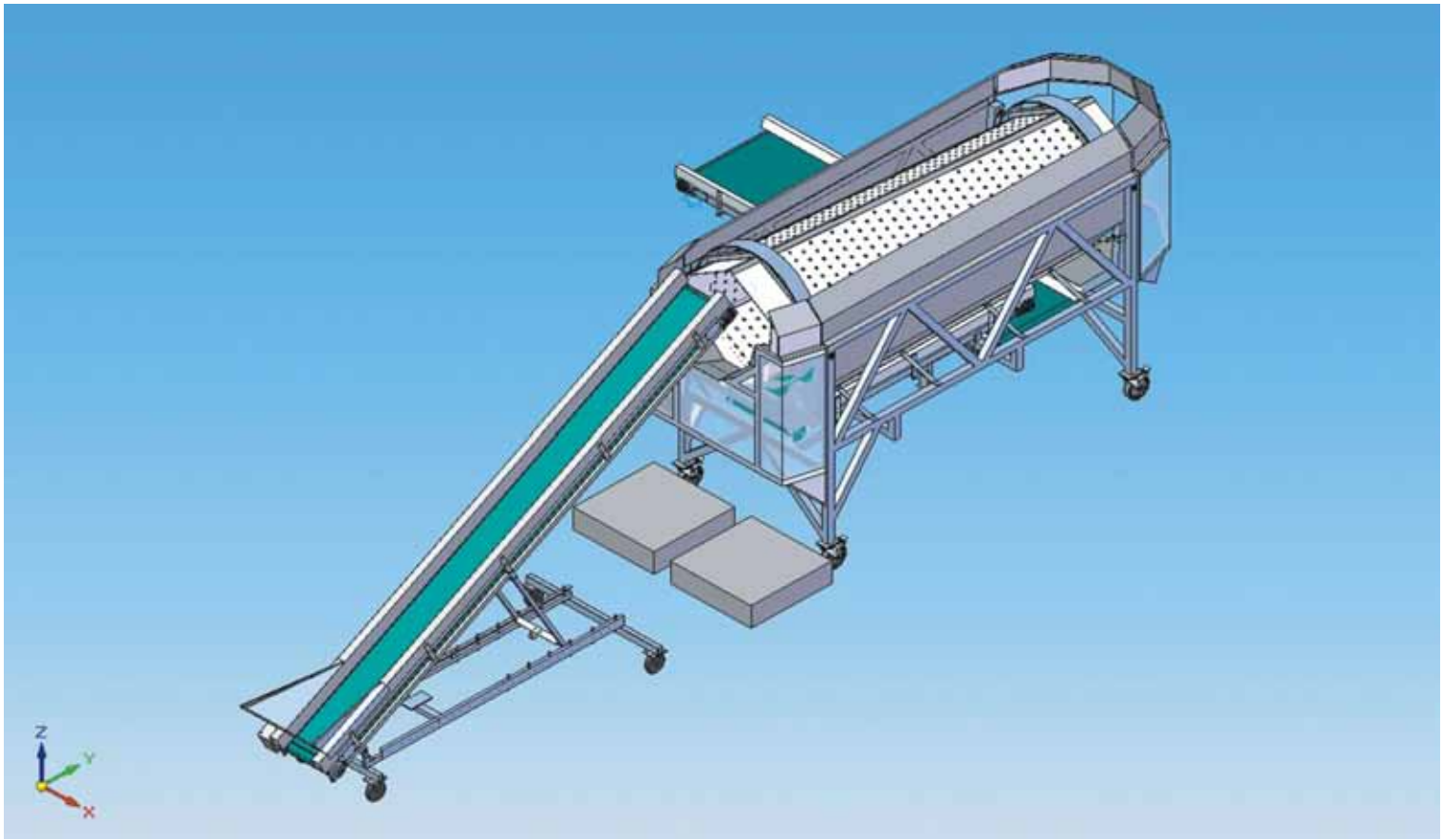
LINES

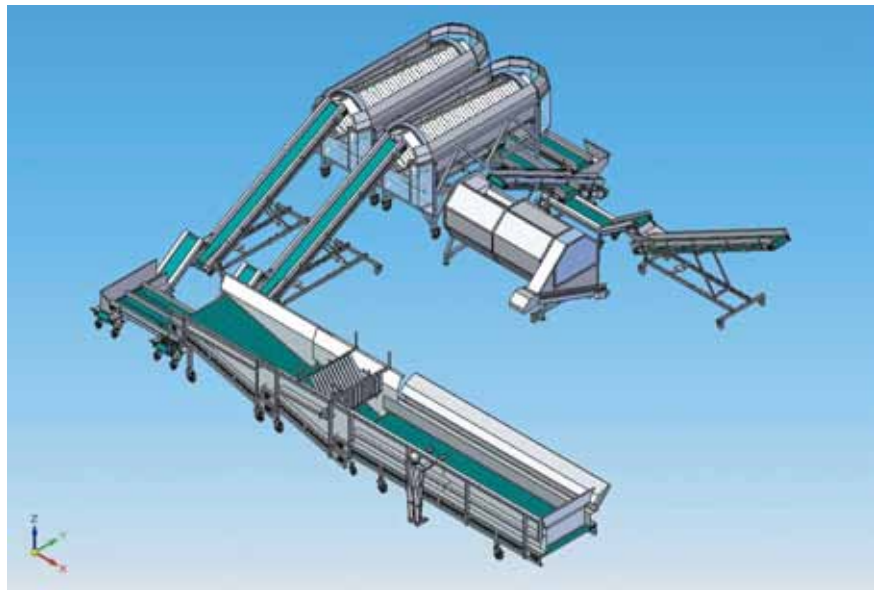
Line for fresh chamomile

Fresh material after harvesting is loaded into belt conveyor and further into primary selector. In this drum-shaped machine, chamomile material is separated in two fractions, good-quality and bad-quality material:

1. Good-quality product (chamomile flowers with out stems or with stems shorter than 8 cm)
2. Bad-quality product (chamomile flowers with stems longer than 8 cm)

Primary processing in fresh condition is very important. This way, only good quality material is dried and energy is saved. Also, if the chamomile is well prepared, processing in dry condition is faster and more efficient.

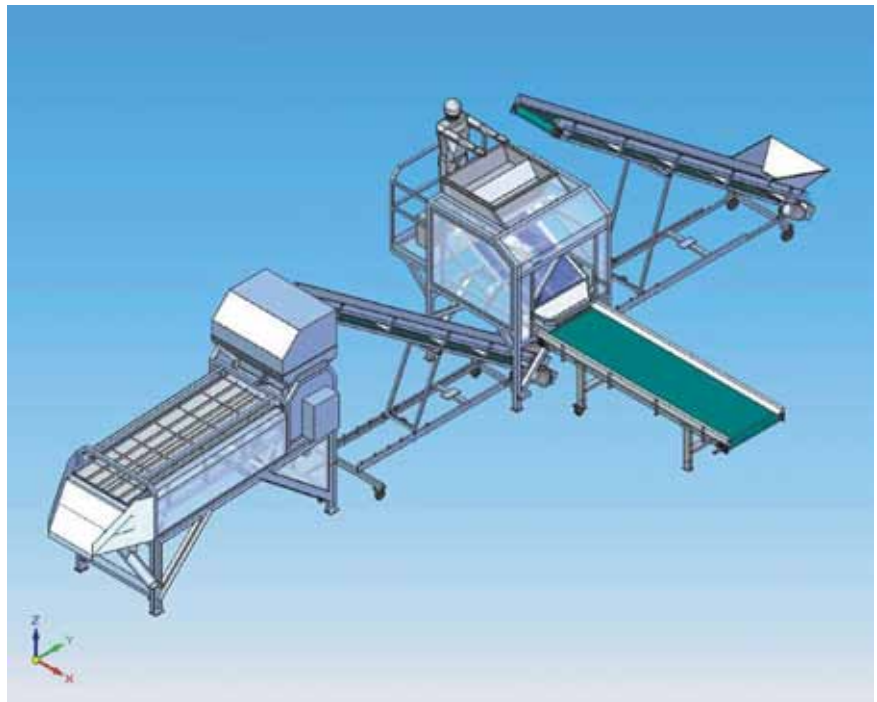


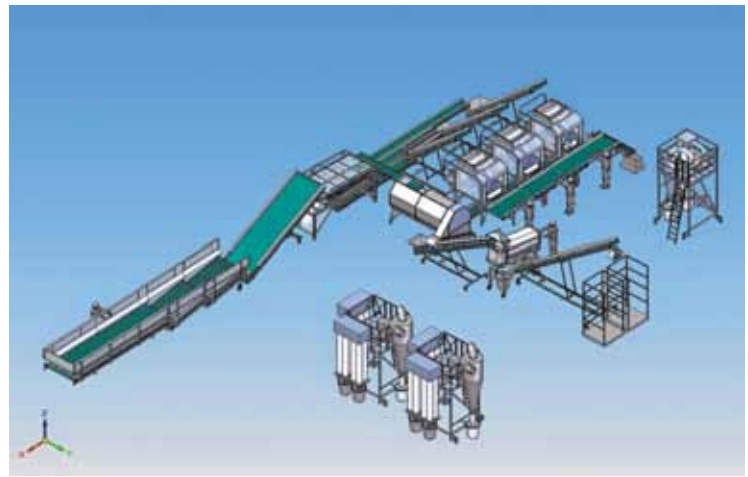


Line for dry chamomile

Dry chamomile is input by dosing belt conveyor in the machines for cutting the stems from picked and dried chamomile flowers.
The line produces three different output products as follows:

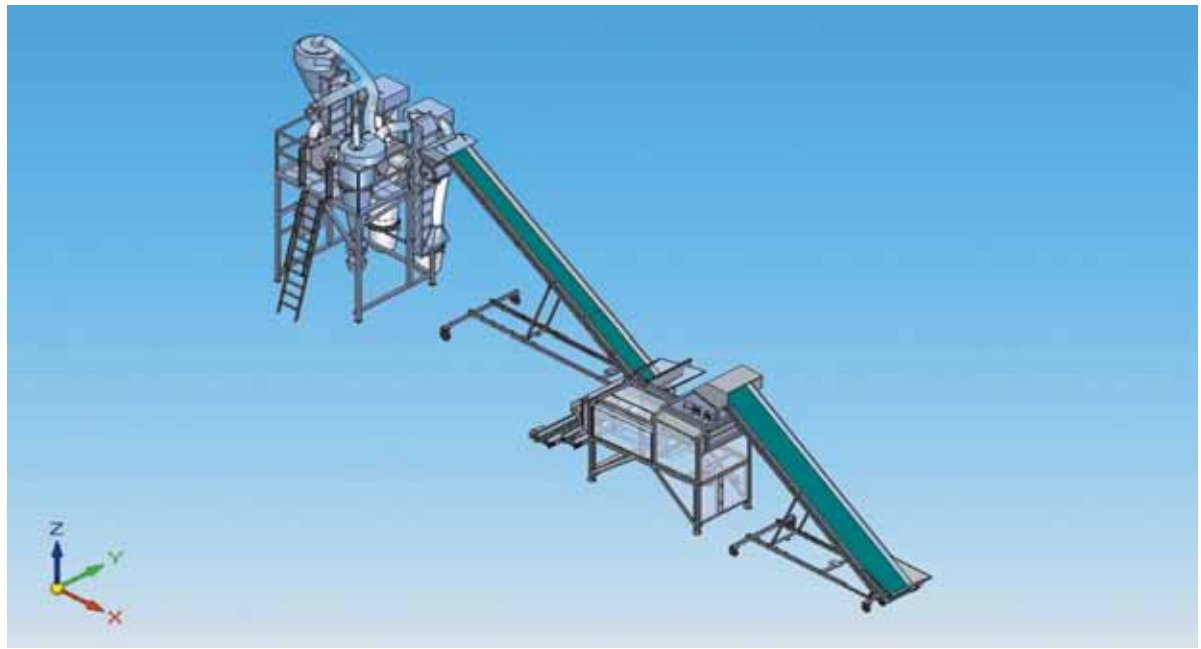
1. Chamomile flowers (heads) without stems,
2. Pure pollen,
3. Small cut stems with petals and empty chamomile heads.





Line for herbs (Mint, Basil, etc.)

Whole dry herbs are input into threshing and crushing machine which is used for removing the leaves from the stems of whole dry herbs and partial sieving of material. The dosing of the material can be manual or by dosing belt conveyor. Belt conveyor then takes the leaves mixed with small stems and other impurities in controlled layers into air separator.
Air separator is used for removing ground, dust, stones and small stems from leaves After air separator the material goes directly in vibration separator where the leaves are calibrated in different fractions, according to the number of sieves.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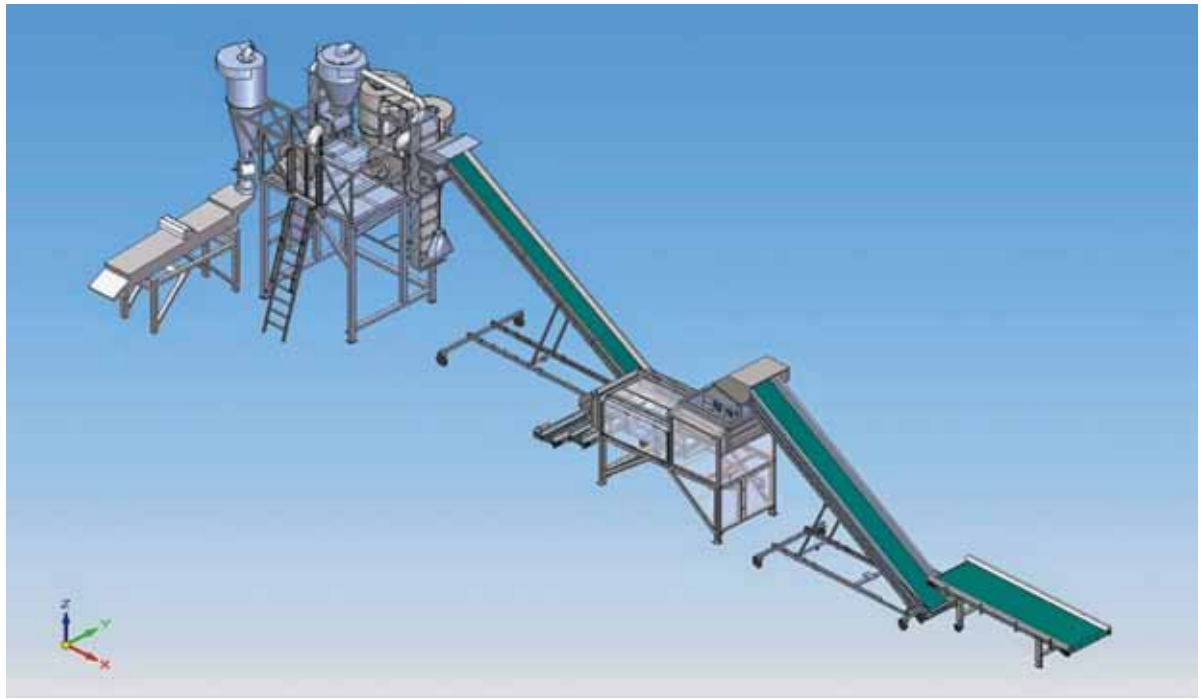
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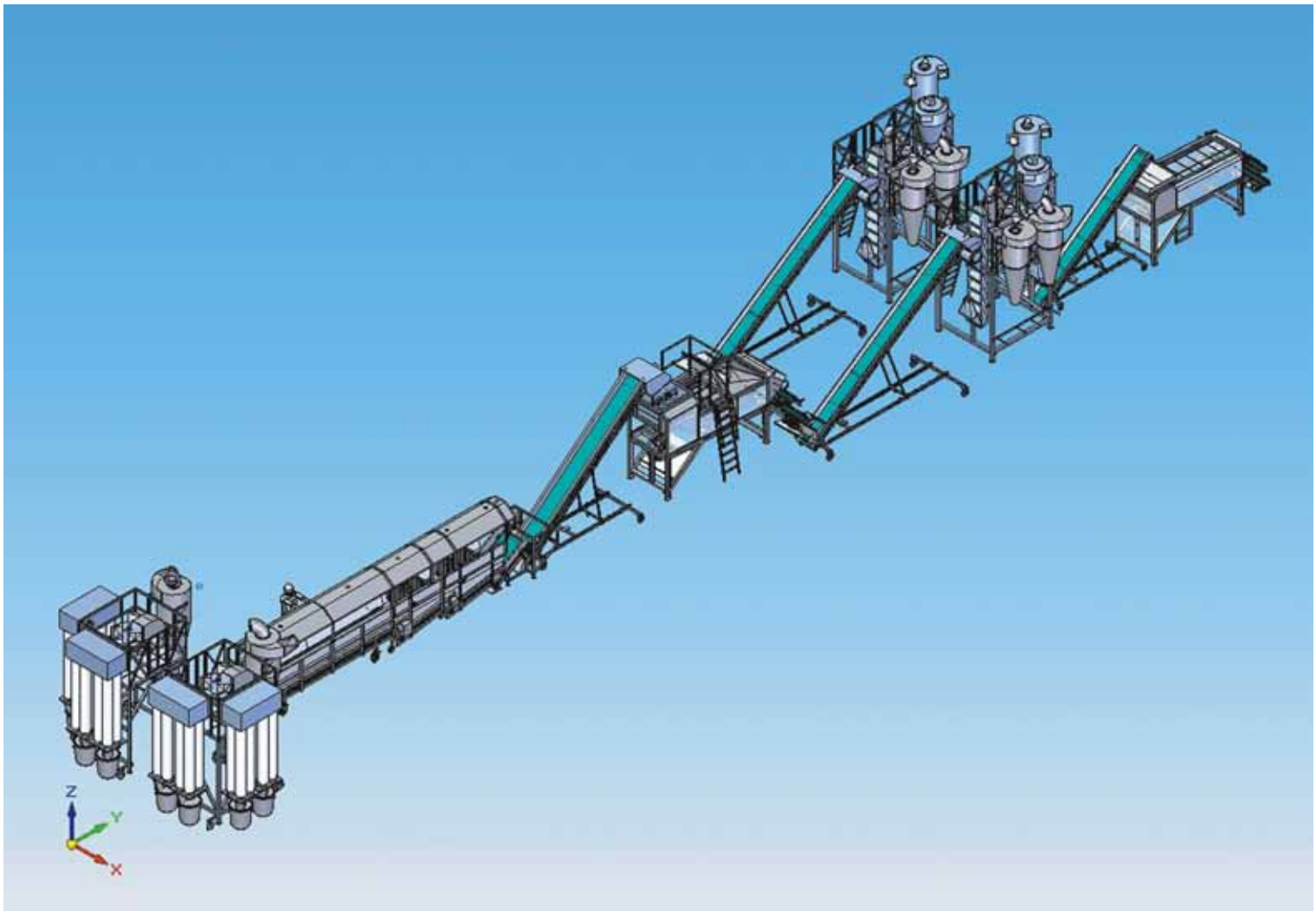

Additional equipment

The lines can be controlled with PLC through which you can monitor how much material has been processed in a unit of time, as well as the capacities of the line. PLC makes it possible to save 30 different receipts for different herb species, so that the operator by choosing the adequate herb species also chooses the correct working mode of the line. Also, all PLCs have history, so that you can track in what working modes the machines have previously worked. Besides, the PLC controls the operation of all elements on the machines (order of starting, notifications about the changes - light and sound signals,...)

Mint

Mint

Lemon verbena

Sage

Sage

Rosemary

Chamomile

Thymus citriodorus

Thymus vulgaris

Euro Prima operates a policy of ongoing development and therefore reserves the right to make changes and improvements to any of products described in this document without special notification. All the data listed in the catalog, especially those relating to the technical data and the capacities are approximate and could be the subject of change.

Some of the photos of the machines showed in the catalog are the machines made of Stainless material - INOX, and some of themare made from Regular steel.

Please consider that the machines could experience a change in the appearance, equipment and technique.

CERTIFICATE
on manufacturing capability

TÜVRheinland®

Certificate No.:	MM 69252767 0001
Test Report No.:	28232198 001
Manufacturer:	**Euro Prima d.o.o.,** Seljackih buna 51 21000 Novi Sad Serbia
Manufacturing site:	**Euro Prima d.o.o.,** Seljackih buna 51 21000 Novi Sad Serbia
Product:	Agricultural machines
Identification:	Rated voltage: 3/N AC 400V; 50/60Hz 230V AC; 50/60Hz Rated input: 0,1kW-70kW Details of the product category, technical data, standards see ANNEX, page 1/2-2/2. The Manufacturer is entitled to use this document in connection with the EC Declaration of Conformity in accordance with Annex II of the Directive 2006/42/EC. The process of design and of production of Manufacturer is suitable for manufacturing products mentioned above according to the referred normative documents (see Annex).
Applicable documents:	CIG 023- April 2014 2006/42/EC - Annex I
Date of Validity:	2021.05.24.

This certificate refers to the above mentioned production. Based on the on-site assessment this is to certify that the process of design and of production of Manufacturer is suitable for manufacturing products mentioned above according to the applicable normative documents. This certificate does not prove the conformity of each product produced by the Manufacturer. This certificate does not permit the use of a TÜV Rheinland mark of conformity. The production is assessed regularly. The certificate is valid up to the date of validity provided that the applicable normative documents and production system remain unchanged during the period of validity.

TÜV Rheinland InterCert Kft. Product Certification

Certification Body

Date of Issue:

Budapest, 2016.05.25.

Zoltan Rostas

TÜV Rheinland InterCert Kft. – Product Certification Body — H-1132 Budapest, Váci út 48/A-B — www.tuv.hu

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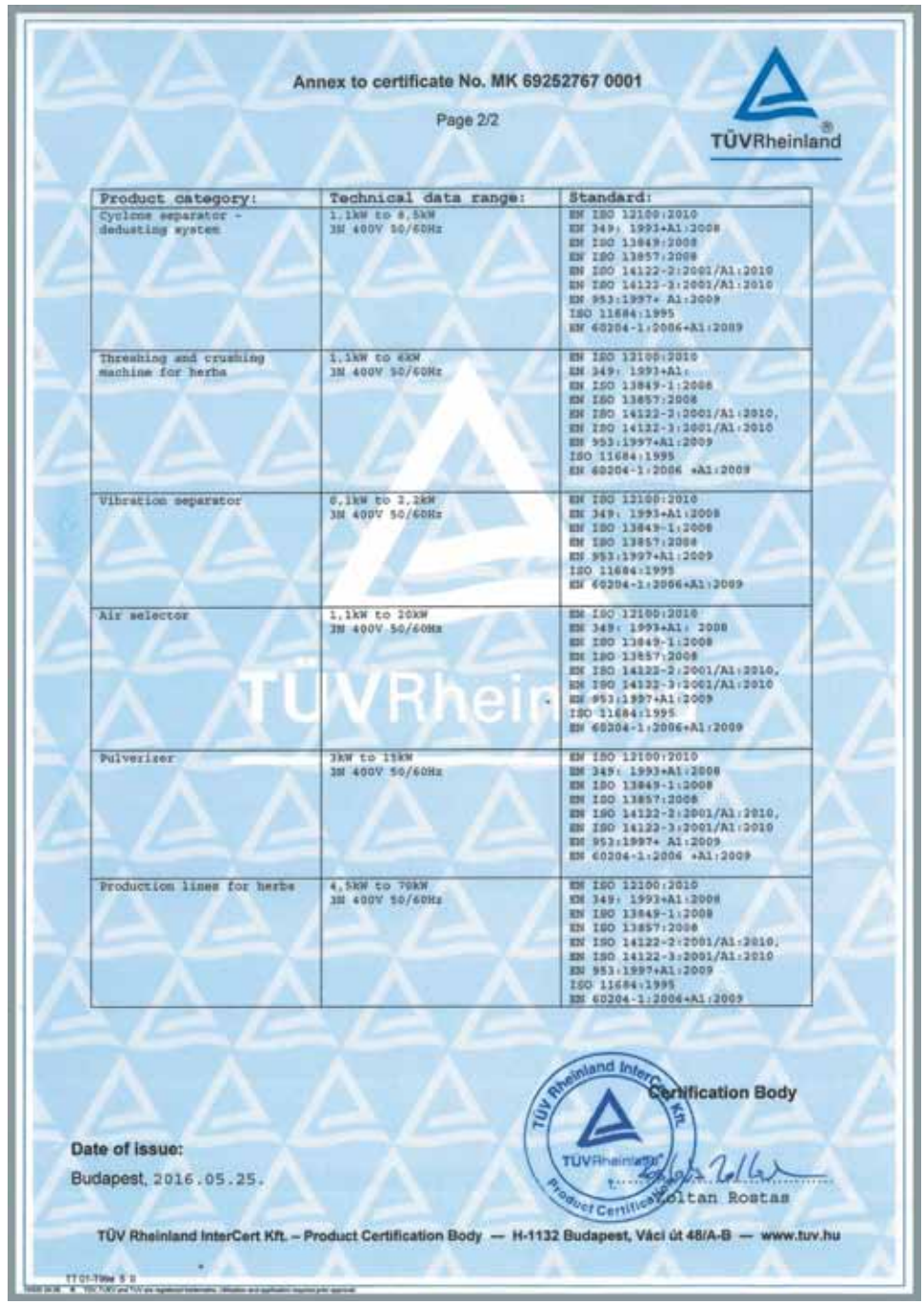

Annex to certificate No. MK 69252767 0001

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Product category:	Technical data range:	Standard:
Cyclone separator - dedusting system	1,1kW to 8,5kW 3N 400V 50/60Hz	EN ISO 12100:2010 EN 349: 1993+A1:2008 EN ISO 13849:2008 EN ISO 13857:2008 EN ISO 14122-2:2001/A1:2010 EN ISO 14122-3:2001/A1:2010 EN 953:1997+ A1:2009 ISO 11684:1995 EN 60204-1:2006+A1:2009
Threshing and crushing machine for herbs	1,1kW to 4kW 3N 400V 50/60Hz	EN ISO 12100:2010 EN 349: 1993+A1: EN ISO 13849-1:2008 EN ISO 13857:2008 EN ISO 14122-2:2001/A1:2010, EN ISO 14122-3:2001/A1:2010 EN 953:1997+A1:2009 ISO 11684:1995 EN 60204-1:2006 +A1:2009
Vibration separator	0,1kW to 2,2kW 3N 400V 50/60Hz	EN ISO 12100:2010 EN 349: 1993+A1:2008 EN ISO 13849-1:2008 EN ISO 13857:2008 EN 953:1997+A1:2009 ISO 11684:1995 EN 60204-1:2006+A1:2009
Air selector	1,1kW to 20kW 3N 400V 50/60Hz	EN ISO 12100:2010 EN 349: 1993+A1: 2008 EN ISO 13849-1:2008 EN ISO 13857:2008 EN ISO 14122-2:2001/A1:2010, EN ISO 14122-3:2001/A1:2010 EN 953:1997+A1:2009 ISO 11684:1995 EN 60204-1:2006+A1:2009
Pulveriser	3kW to 11kW 3N 400V 50/60Hz	EN ISO 12100:2010 EN 349: 1993+A1:2008 EN ISO 13849-1:2008 EN ISO 13857:2008 EN ISO 14122-2:2001/A1:2010, EN ISO 14122-3:2001/A1:2010 EN 953:1997+ A1:2009 EN 60204-1:2006 +A1:2009
Production lines for herbs	4,5kW to 70kW 3N 400V 50/60Hz	EN ISO 12100:2010 EN 349: 1993+A1:2008 EN ISO 13849-1:2008 EN ISO 13857:2008 EN ISO 14122-2:2001/A1:2010, EN ISO 14122-3:2001/A1:2010 EN 953:1997+A1:2009 ISO 11684:1995 EN 60204-1:2006+A1:2009

Certification Body

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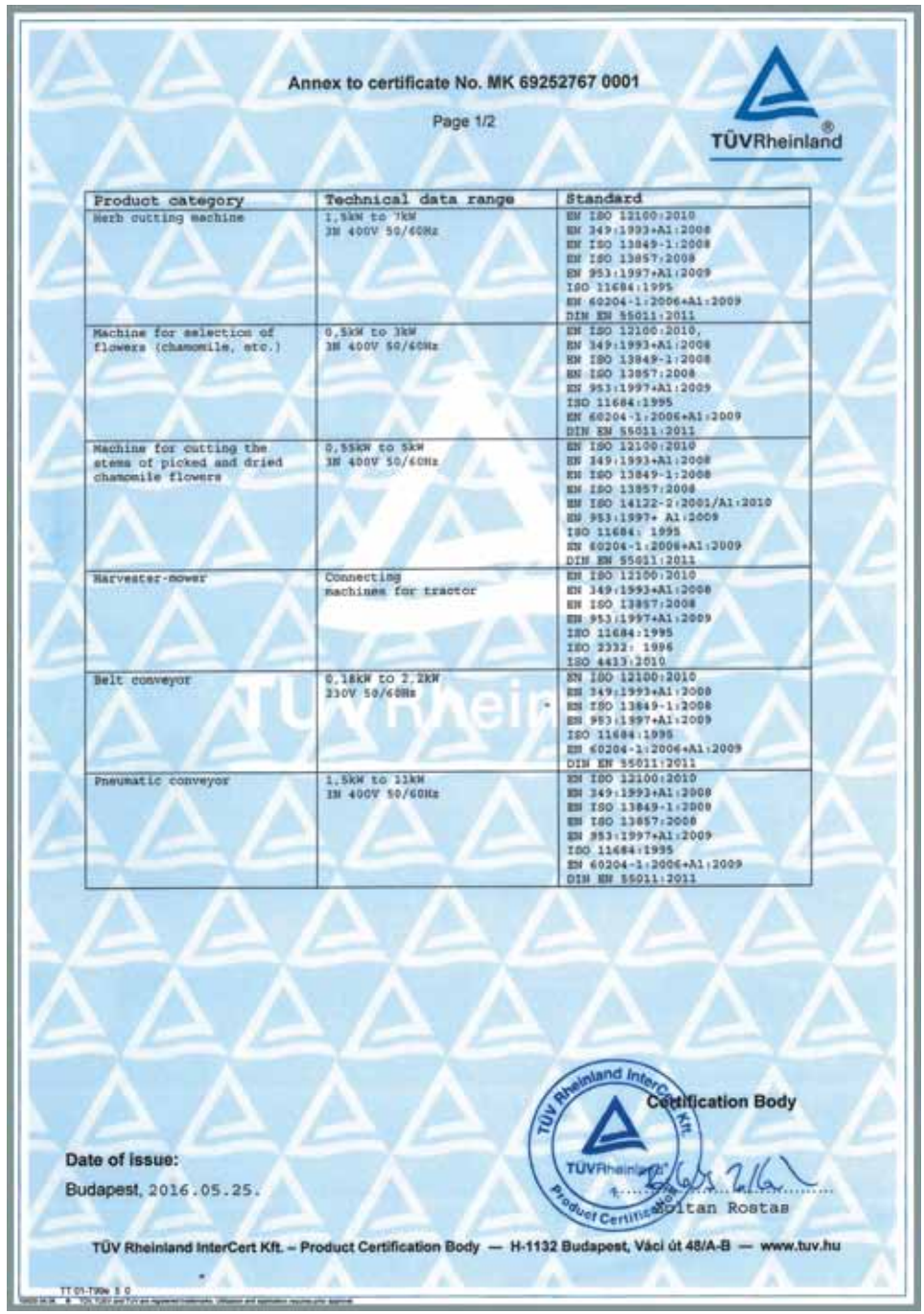

Annex to certificate No. MK 69252767 0001

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Product category	Technical data range	Standard
Herb cutting machine	1,5kW to 7kW 3N 400V 50/60Hz	EN ISO 12100:2010 EN 349:1993+A1:2008 EN ISO 13849-1:2008 EN ISO 13857:2008 EN 953:1997+A1:2009 ISO 11684:1995 EN 60204-1:2006+A1:2009 DIN EN 55011:2011
Machine for selection of flowers (chamomile, etc.)	0,5kW to 3kW 3N 400V 50/60Hz	EN ISO 12100:2010, EN 349:1993+A1:2008 EN ISO 13849-1:2008 EN ISO 13857:2008 EN 953:1997+A1:2009 ISO 11684:1995 EN 60204-1:2006+A1:2009 DIN EN 55011:2011
Machine for cutting the stems of picked and dried chamomile flowers	0,55kW to 5kW 3N 400V 50/60Hz	EN ISO 12100:2010 EN 349:1993+A1:2008 EN ISO 13849-1:2008 EN ISO 13857:2008 EN ISO 14122-2:2001/A1:2010 EN 953:1997+ A1:2009 ISO 11684: 1995 EN 60204-1:2006+A1:2009 DIN EN 55011:2011
Harvester-mower	Connecting machines for tractor	EN ISO 12100:2010 EN 349:1993+A1:2008 EN ISO 13857:2008 EN 953:1997+A1:2009 ISO 11684:1995 ISO 2332: 1996 ISO 4413:2010
Belt conveyor	0,18KW to 2,2KW 230V 50/60Hz	EN ISO 12100:2010 EN 349:1993+A1:2008 EN ISO 13849-1:2008 EN 953:1997+A1:2009 ISO 11684:1995 EN 60204-1:2006+A1:2009 DIN EN 55011:2011
Pneumatic conveyor	1,5kW to 11kW 3N 400V 50/60Hz	EN ISO 12100:2010 EN 349:1993+A1:2008 EN ISO 13849-1:2008 EN ISO 13857:2008 EN 953:1997+A1:2009 ISO 11684:1995 EN 60204-1:2006+A1:2009 DIN EN 55011:2011

Certification Body

Date of issue:

Budapest, 2016.05.25.

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