

Packaging machines and equipment

Standardized and customized packaging solutions

Introduction



Union Kehlibar Ltd designs, constructs and manufactures packaging machines and equipment for the needs of the food-processing industry.

The company offers complete and integrated solutions for the packaging of miscellaneous products.

During the production of the packaging installations, different considerations are taken into account: safety of the machines operation, easy and intuitive usage of the equipment, intelligent modular structure, easy integration and synchronization between the different modules of the machine.

While understanding the needs of its clients and taking into consideration the global trends in the development of the packaging industry, the company is trying to:

- offer more integrated and complete solutions for automation and optimization of the production processes;
- popularize the new trends in the packaging industry and view the package as a competitive advantage, rather than means of preservation and transportation;
- maintain competitive pricing and high quality of the offered equipment;

Facts and numbers

Year of foundation	1995
Number of employees	45
Number of factories	2
Total covered area	>5000sqm
Capabilities	Laser cutting, CNC machines, TIG welding...
Project and design software	Solidworks, Auto CAD, Esprit
Company address	Bulgaria, 7120 Koprivets, Vazrajdane 64 Str.
Company web page	www.unionkehlibar.com
Company video channel	www.youtube.com/user/ukehlibar/videos
International trade fairs	IPACK IMA, FachPach, Indagra, Syskevasia, FoodTech, Detrop, Taropak, Meatmania

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VFFS Machines



Vertical packaging machine AM028



Application

Used for packaging of food products.

According to the product, the machine could be equipped with different types of dosing devices.

Features

- **Economic** solution for starting businesses.
- **Compact design** offering high mobility and portability of the machine.
- **PLC control** and **PID** auto tuning temperature controller.
- **Independent cutter**. If product is caught between the jaws, the cutter is not actuated which greatly extends its life and product spill is prevented.
- **Stainless steel** construction.
- Easy and intuitive operation via a colour **7.5" touch screen**.
- **Step motor** driven sealing mechanism - for better pressure and precision.
- Bag length adjustment via **photo cell or encoder** (both available).
- **Direct communications** between the machine internal components (no intermediate switches, buttons, relays etc.) for better reliability.
- **Improved sliding system** of the sealing mechanism, adopting annealed sliding rods and Japanese linear bearings. This results in extremely low friction and weariness which greatly extends the lifetime of the sliding system.

Bag types



Pillow



Gusseted

Extras



Euro-slot



Gas flushing

Compatible with the following dosing systems:



Linear weighers



Auger fillers

Technical specifications:

Construction	Stainless steel AISI 304
Productivity	Up to 40 bags per minute
Overall dimensions in mm (L*W*H)	1000x910x1500
Weight	180kg
Interface	PLC with 7.5" Touch Screen
Drive	AC and stepper motors + pneumatics
Power supply	220V±10%
Installed power	1600W
Air consumption	10L per minute
Packaging film width and thickness	80-410mm, 40-70 microns
Maximum bag length	up to 330mm

Vertical packaging machine AM029



Application

Used for packaging of food products.

According to the product, the machine could be equipped with different types of dosing devices.

Features

- **Economic** solution for starting businesses.
- **Compact design** offering high mobility and portability of the machine.
- **PLC control** and **PID** auto tuning temperature controller.
- **Independent cutter**. If product is caught between the jaws, the cutter is not actuated which greatly extends its life and product spill is prevented.
- **Stainless steel** construction.
- Easy and intuitive operation via a colour **7.5" touch screen**.
- **Step motor** driven sealing mechanism - for better pressure and precision.
- Bag length adjustment via **photo cell or encoder** (both available).
- **Direct communications** between the machine internal components (no intermediate switches, buttons, relays etc.) for better reliability.
- **Improved sliding system** of the sealing mechanism, adopting annealed sliding rods and Japanese linear bearings. This results in extremely low friction and weariness which greatly extends the lifetime of the sliding system.

Bag types



Pillow



Gusseted

Extras



Handle



Euro-slot



Gas flushing

Compatible with the following dosing systems:



Linear weighers



Auger fillers

Technical specifications:

Construction	Stainless steel AISI 304
Productivity	Up to 40 bags per minute
Overall dimensions in mm (L*W*H)	1570x985x1735
Weight	250kg
Interface	PLC with 7.5" Touch Screen
Drive	AC and stepper motors + pneumatics
Power supply	220V±10%
Installed power	2400W
Air consumption	10L per minute
Packaging film width and thickness	220-630mm, 40-70 microns
Maximum bag length	up to 450mm

Vertical packaging machine AM019 Servo



Application

Used for packaging of food products.
According to the product, the machine could be equipped with different types of dosing devices.

Features

- **Auto-tuning feature.** The software algorithm optimizes and adapts the machine's performance to the changing conditions of the working environment.
- Setting of different preset **work programs**.
- **Servo driving** for a better pulling, positioning and cutting of the bag.
- Powered film roll unwinding via **step motors** which automatically synchronize with the machine's speed.
- **Bag length setting** in millimeters or via photocell.
- Easy and intuitive operation via a colour **7.5" touch screen**.
- Intelligent system for **fast and easy replacing** of the pulling belts.
- Integrated system for easy and fast **centering of the film roll**.
- Integrated system for **self-diagnostics**.
- Improved system for **safe operation of the machine**.
- Possibility for integrating of different external devices like **thermo transfer printers, label applicators** etc.

Bag types



Pillow



Gusseted

Extras



Handle



Euro-slot



Gas flushing



Label application

Compatible with the following dosing systems:



Linear weighers



Multihead weighers



Auger fillers

Technical specifications:

Construction	Stainless steel AISI 304
Productivity	Up to 80 bags per minute
Overall dimensions in mm (L*W*H)	1400x1100x1500
Weight	400kg
Interface	PLC with 7.5" Touch Screen
Drive	Servo and stepper motors + pneumatics
Power supply	220V±10%
Installed power	1800W
Air consumption	10L per minute
Packaging film width and thickness	80-410mm, 40-120 microns
Maximum bag length	up to 330mm

Vertical packaging machine AM019 Servo STABILO EDITION



Application

Used for packaging of food products.

According to the product, the machine could be equipped with different types of dosing devices.

Features

- **Auto-tuning** optimization. The software algorithm optimizes and adapts the machine's performance to the changing conditions of the working environment.
- Setting of different preset **work programs**.
- **Servo driving** for a better pulling, positioning and cutting of the bag.
- Powered film roll unwinding via **step motors** which automatically synchronize with the machine's speed.
- **Bag length setting** in millimeters or via photocell.
- Easy and intuitive operation via a colour **7.5" touch screen**.
- Intelligent system for **fast and easy replacing** of the pulling belts.
- Integrated system for easy and fast **centering of the film roll**.
- Integrated system for **self-diagnostics**.
- Improved system for **safe operation of the machine**.
- Possibility for integrating of different external devices like **thermo transfer printers, label applicators** etc.

Bag types



Quad sealed



Quad sealed with vertical

Extras



Handle



Euro-slot



Gas flushing

Label application

Compatible with the following dosing systems:



Linear weighers



Multihead weighers



Auger fillers

Technical specifications:

Construction

Stainless steel AISI 304

Productivity

Up to 40 bags per minute

Overall dimensions in mm (L*W*H)

1320x1045x1800

Weight

450kg

Interface

PLC with 7.5" Touch Screen

Drive

Servo and stepper motors + pneumatics

Power supply

220V±10%

Installed power

4000W

Air consumption

50L per minute

Packaging film width and thickness

220-470mm, 60-120 microns

Maximum bag length

up to 330mm

Vertical packaging machine AM020 Servo



Application

Used for packaging of food products.
According to the product, the machine could be equipped with different types of dosing devices.

Features

- **Auto-tuning feature.** The software algorithm optimizes and adapts the machine's performance to the changing conditions of the working environment.
- Setting of different preset **work programs**.
- **Servo driving** for a better pulling, positioning and cutting of the bag.
- Powered film roll unwinding via **step motors** which automatically synchronize with the machine's speed.
- **Bag length setting** in millimeters or via photocell.
- Easy and intuitive operation via a colour **7.5" touch screen**.
- Intelligent system for **fast and easy replacing** of the pulling belts.
- Integrated system for easy and fast **centering of the film roll**.
- Integrated system for **self-diagnostics**.
- Improved system for **safe operation of the machine**.
- Possibility for integrating of different external devices like **thermo transfer printers, label applicators** etc.

Bag types



Pillow



Gusseted

Extras



Handle



Euro-slot



Gas flushing



Label application

Compatible with the following dosing systems:



Linear weighers



Multihead weighers



Auger fillers

Technical specifications:

Construction	Stainless steel AISI 304
Productivity	Up to 80 bags per minute
Overall dimensions in mm (L*W*H)	1600x1250x1800
Weight	500kg
Interface	PLC with 7.5" Touch Screen
Drive	Servo and stepper motors + pneumatics
Power supply	220V±10%
Installed power	2300W
Air consumption	10L per minute
Packaging film width and thickness	220-630mm, 40-120 microns
Maximum bag length	up to 450mm

Vertical packaging machine AM020-D Doypack edition

Application

Used for packaging of food products. According to the product, the machine could be equipped with different types of dosing devices.

Features

- More **affordable solution** for making doypack bags, compared with the horizontal form fill seal machines.
- Takes much **less space** than HFFS machines.
- **Zipper** application module.
- Improved **servo technology** for a better pulling, positioning and cutting of the bag.
- Bag length adjustment via **photo cell** or **encoder**.
- Easy and intuitive operation via a colour **7.5" touch screen**.
- Intelligent system for **fast and easy replacing** of the pulling belts.
- Integrated system for easy and fast **centering of the film roll**.
- Integrated system for **self-diagnostics**.
- Improved system for **safe operation of the machine**.
- Possibility for integrating of different external devices like **thermo transfer printers, label applicators** etc.



Bag types



Doypack with zipper

Extras



Easy open

Euro-slot

Gas flushing

Label application

Compatible with the following dosing systems:



Linear weighers



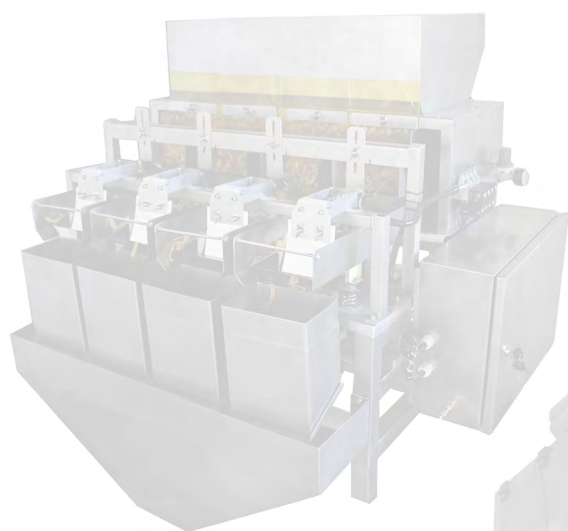
Multihead weighers



Auger fillers

Technical specifications:

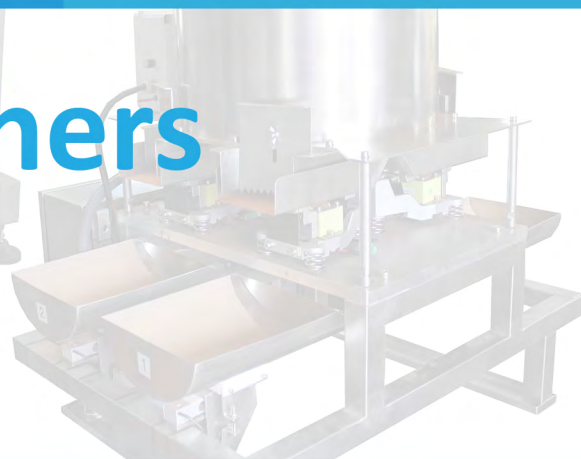
Construction	Stainless steel AISI 304
Productivity	Up to 40 bags per minute
Overall dimensions in mm (L*W*H)	1400x1120x2200
Weight	600kg
Interface	PLC with 7.5" Touch Screen
Drive	Servo and stepper motors + pneumatics
Power supply	220V±10%
Installed power	3000W
Air consumption	50L per minute
Packaging film width and thickness	200-520mm, 40-120 microns
Final bag size in mm (W*H)	100-200x140-220



Fillers and dosing devices



linear weighers



ATD-G-series for granular and grain products



Application

Used for dosing and packaging of granular and grain products. Usually equipped with a VFFS machine, but could also be used as a standalone filling station.

Features

- **Version with 2, 4 and 6 heads.**
- **Up to 50 doses per minute**, depending on the heads number.
- Intuitive control via **Touch Screen**.
- Easy and **inexpensive maintenance**.
- **Stainless steel construction**, according to the safety requirements for working with food products.
- Option for creating **up to 20 preset programs** for the different products, which makes the product switching fast and easy.
- **Double speed vibrational feeding**- fast speed for maximum productivity switches to a slower speed- for maximum accuracy.
- **Vibrational feeding channels** with no wearing parts.
- Capability of **mixing up to 4** different products.

Suitable products:

Sugar and salt



Coffee beans



Pulses



Nuts



And many others...

Technical specifications:

Construction	Stainless steel AISI 304
Productivity 2/4/6 channels	Up to 15/30/50 doses per minute
Overall dimensions in mm(L*W*H)	850*800*800 (2/4), 1050*850*1050 (6-ch.)
Weight of 2/4/6- channel weigher	80/100/130kg
Control	Touch Screen
Drive	DC motors, vibrators
Electrical supply	220V±10% from the packaging machine
Installed power	500W
Dosing range	In range 10-1000gr. (on requirement)
Weighing precision	±1gr. according to the product

ATD P-series for cut herbs and spices



Application

Used for dosing of cut herbs and low dusty ground spices. Usually equipped with a VFFS machine, but could also be used as a standalone filling station.

Features

- Additional **agitator** in the feeding hopper.
- Up to **25-30 doses per minute**.
- Intuitive control via **Touch Screen**.
- Easy and **inexpensive maintenance**.
- **Stainless steel construction**, according to the safety requirements for working with food products.
- Option for creating **up to 20 preset programs** for the different products, which makes the product switching fast and easy.
- **Double speed vibrational feeding**- fast speed for maximum productivity switches to a slower speed- for maximum accuracy.
- **Vibrational feeding channels** with no wearing parts.

Suitable products:

Low dusty ground spices



Salt and sugar



Detergent powders



Green cut herbs



And many others...

Technical specifications:

Construction	Stainless steel AISI 304
Productivity	Up to 30 doses per minute
Overall dimensions in mm(L*W*H)	850*800*800
Weight	120kg
Control	Touch Screen
Drive	AC/DC motors, vibrators
Electrical supply	220V±10% from the packaging machine
Installed power	750W
Dosing range	In range 10-1000gr. (on requirement)
Weighing precision	±1gr. according to the product

ATD C-series for light, irregular shaped products



Application

Especially designed for dosing of irregular shaped products like different types of pasta products (tagliatelle), popcorn, flips, snack products, expanded foods etc.

Features

- More affordable option for a dosing device, compared with the multihead weigher.
- Up to **25 bags/minute**.
- Non-wearing parts - feeding is done only with vibrating pans.
- 7 inch **color touch screen** interface in different languages
- OMRON sensors for layer thickness setting.
- The product feeding pan is divided to V shaped channel and U shaped channel. During the initial gross feeding, both channels are open and feed product. Once the setup threshold is reached, the machine switch to a slower speed and U shaped channel is blocked via pneumatically driven product stoppers.

Suitable products:

Potato chips and expanded snacks



Different kinds of pasta



Homemade noodles



And many others...

Technical specifications:

Construction	Stainless steel AISI 304
Productivity 2/4/6 channels	Up to 25 doses per minute
Overall dimensions in mm(L*W*H)	1050*850*1050
Weight	160kg
Control	Touch Screen
Drive	DC motors, vibrators
Electrical supply	220V±10% from the packaging machine
Installed power	1000W
Dosing range	In range 10-1000gr. (on requirement)
Compressed air consumption	20L/min

ATD GS-series for cut herbs and spices in weight range 1-100gr

Application

Especially designed for dosing of granular, powder and cut spices like red and black ground pepper, cumin, sodium bicarbonate oregano and etc.

Features

- **High precision** dosing in range 1-100gr.
- Up to **30 bags/minute** (depending on the product).
- **Non-wearing parts** - feeding is done only with vibrating pans.
- 7 inch **color touch screen** interface in different languages
- Option for installing **additional agitator** in the feeding hopper.
- Easy and intuitive control with option for setting different work **programs** for the different products.
- Multicombination capability. The machine is able to discharge **several dosages** in one single bag.
- DC brushed **planetary geared motors** with high torque for simple and reliable operation.
- **Full control** over the hoppers discharging angle and discharging time.
- Easy cleaning and **maintenance**.



Suitable products:

Cut green herbs



Ground spices



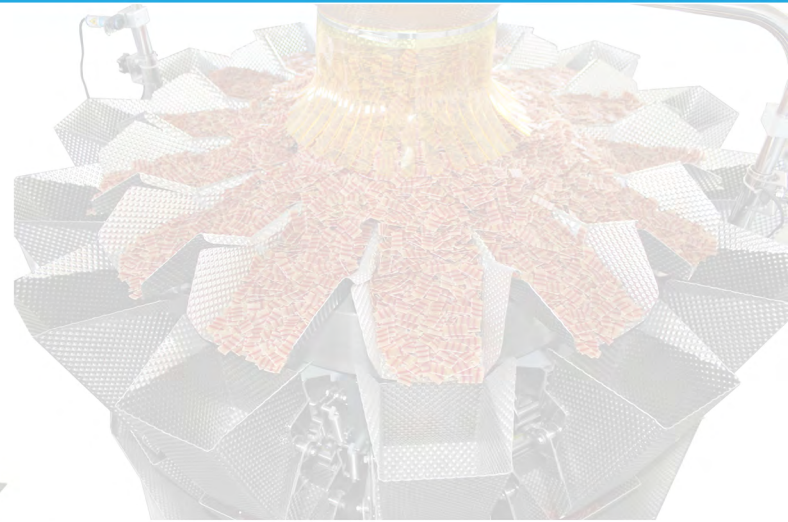
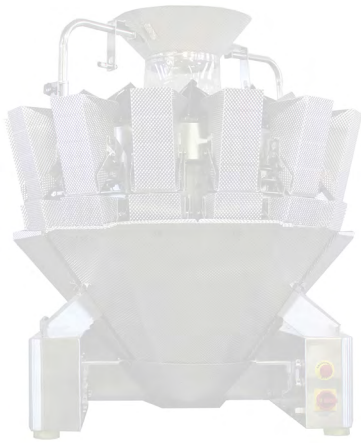
Seeds



And many others...

Technical specifications:

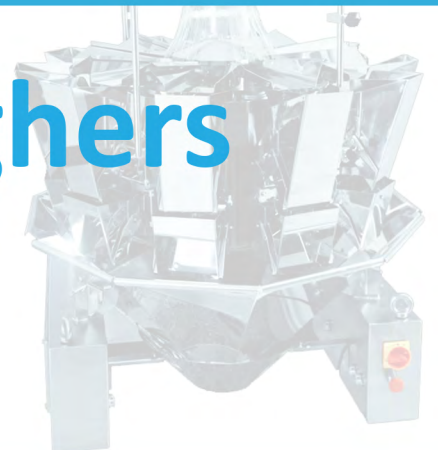
Construction	Stainless steel AISI 304
Productivity 2/4/6 channels	Up to 30 doses per minute
Overall dimensions in mm(L*W*H)	850*800*850
Weight	80kg
Control	Touch Screen
Drive	DC motors, vibrators
Electrical supply	220V±10% from the packaging machine
Installed power	500W
Dosing range	In range 1-100gr.
Weighing precision	±0.1gr (depending on the product)



Fillers and dosing devices



multihead weighers



Standard combination weigher ATD10/14



Application

Used for dosing of irregular shaped products with large single piece weight, sticky and frozen products, dried nuts, sweets and etc...

Features

- **Combinative dosing** for maximum speed and weighing precision.
- **Up to 60/120 doses per minute**, depending on the heads number.
- Intuitive control via **Touch Screen**.
- **Timing hopper** for increased productivity.
- **Stainless steel construction**, according to the safety requirements for working with food products.
- Option for creating **of preset programs** for the different products, which makes the product switching fast and easy.
- **Different configurations**, depending on the product being dosed (double door discharging hoppers, dimple plate for sticky products).
- **Vibrational feeding channels** with no wearing parts.
- **Real-time** statistics.

Suitable products:

Dried and frozen fruits



Walnuts



Pastry



Dried nuts



Candy



And many others...

Technical specifications:

Construction	Stainless steel AISI 304
Productivity 10/14 channels	Up to 60/120 doses per minute
Overall dimensions in mm(L*W*H)	1110*1060*1275 (10),1210*1245*1300 (14)
Weight of 10/14 head weigher	370/450kg
Control	Touch Screen
Drive	Step motors, vibrators
Electrical supply	220V±10% from the packaging machine
Installed power	1500W/2000W
Dosing range	In range 10-800gr. (on requirement)
Weighing precision	±0.1-1gr. according to the product

Combination weigher for fresh salads



Application

Especially for dosing of fresh salads, including: lettuce, baby spinach, rocket, cut gabbage and etc....

Features

- **Combinative dosing** for maximum speed and weighing precision.
- **Up to 60 doses per minute**, depending on the dosing range.
- Intuitive control via **Touch Screen**.
- **10% feeding channels slope angle**.
- **Stainless steel construction**, according to the safety requirements for working with food products.
- Option for creating **of preset programs** for the different products, which makes the product switching fast and easy.
- **5L double door hoppers** with special design to avoid product spilling, **rotary top cone** and **dimple plate surface**.
- **Vibrational feeding channels** with no wearing parts.
- **Real-time** statistics.

Suitable products:

Baby spinach



Lettuce



Cut gabbage



Salad rocket

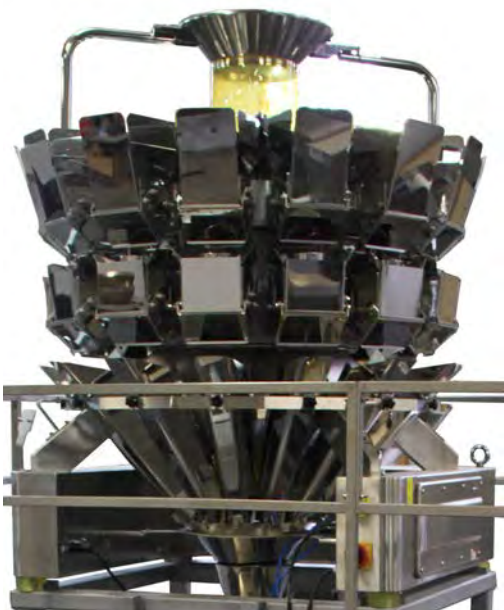


And other similar..

Technical specifications:

Construction	Stainless steel AISI 304
Productivity	Up to 50 doses per minute
Overall dimensions in mm(L*W*H)	1580*1570*1930
Weight	605kg
Control	Touch Screen
Drive	Step motors, vibrators
Electrical supply	220V±10% from the packaging machine
Installed power	1500W/2000W
Dosing range	In range 100-500gr. (on requirement)
Weighing precision	±5-10gr. according to the product

Combination weigher for salty bread sticks



Application

Especially designed for dosing of stick shaped products.

Features

- **Combinative dosing** for maximum speed and weighing precision.
- **Up to 60 doses per minute**, depending on the dosing range.
- Intuitive control via **Touch Screen**.
- **Customized** product arranging dosing channels.
- **Stainless steel construction**, according to the safety requirements for working with food products.
- Option for creating **of preset programs** for the different products, which makes the product switching fast and easy.
- **Lining tube hoppers** designed to collect the product in stacks, keeping the same direction and preventing eventual clogging.
- **Stick shape aligner** with pneumatic stopper at discharge chute.
- **Additional vibration aligner underneath discharge chute**.



Suitable products:

Salty sticks



And other similar....

Technical specifications:

Construction	Stainless steel AISI 304
Productivity	Up to 50 doses per minute
Overall dimensions in mm(L*W*H)	1230*1100*1210
Weight	500kg
Control	Touch Screen
Drive	Step motors, vibrators, pneumatics
Electrical supply	220V±10% from the packaging machine
Installed power	2000W
Dosing range	In range 10-800gr. (on requirement)
Weighing precision	±0.1-1gr. according to the product



Fillers and dosing devices



auger fillers



ASD01-Servo



Application

Used for dosing of all kinds of powder products. Usually equipped with a VFFS machine.

Features

- **Independent agitator** in the feeding hopper.
- **Up to 15-30 doses per minute**, depending on the dosing range.
- **Touch Screen control** directly from the packaging machine.
- Interchangeable **dosing screws** for different dosing ranges.
- **Servo motor** for finer adjustment and smooth movement of the dosing screw, which leads to increased dosing accuracy.
- Light and reliable **elevating mechanism**, which makes the cleaning and screw changing fast and easy.
- Improved **safety system**.
- **Vibrational feeding channels** with no wearing parts.

Suitable products:

Ground spices



Chemicals



Supplements



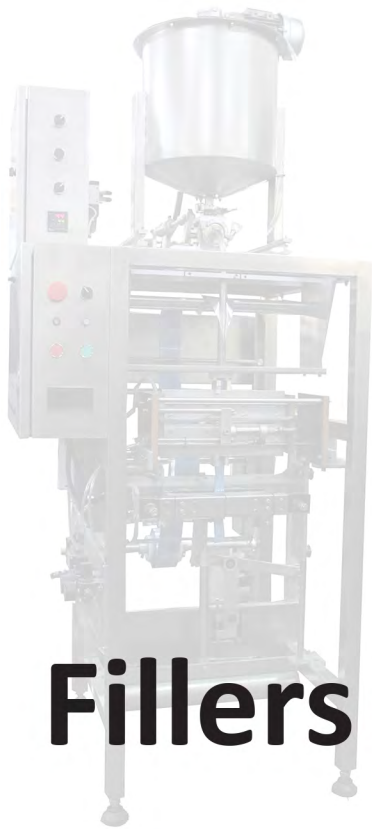
Ground coffee



And many others...

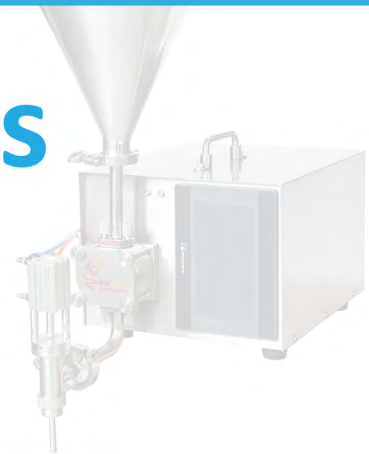
Technical specifications:

Construction	Stainless steel AISI 304
Productivity/hannels	Up to 15-30 doses per minute
Overall dimensions in mm(L*W*H)	820*830*1140
Weight	100kg
Control	Touch Screen (from the VFFS machine)
Drive	Servo motor
Electrical supply	220V±10% from the packaging machine
Installed power	750W
Dosing range	In range 1-2000gr. (on requirement)
Weighing precision	±1gr. according to the product



Fillers and dosing devices

**volumetric fillers
for liquids**



Piston filler ALD-M series for stick bags



Application

Used for the the dosing of liquid products with different viscosity. Usually equipped with a VFFS machine AM014, but could be also arranged as a semi-automatic filling station.

Features

- **Mechanical** volume adjustment.
- Up to **30 doses per minute** (per channel).
- **Pneumatically** driven.
- **Maximum channel** number- 2 channels.
- **Stainless steel**
- Intake hopper with a **water jacket** for product heating

Suitable products:

Honey



Ketchup



Jam



Technical specifications:

Construction	Stainless steel AISI 304
Productivity	Up to 0 doses per minute (per channel)
Overall dimensions in mm(L*W*H)	Depending on the required volume
Weight	60kg
Control	CPU
Drive	Pneumatics
Power supply	220V ± 10%
Installed power	2100W (if hopper is with heating)
Air consumption	20L per minute
Dosing range	In the range of 5-50ml

Gear pump filler UK-GEAR 100



Gear pump

Application

Used for the the dosing of liquid products with different viscosity. Could be equipped with automatic machine or work as a standalone filling station.

Features

- **Digital** volume adjustment.
- High precision **gear pump**.
- Intuitive control via **Touch Screen**.
- Double speed feeding with **servo motor**.
- **Easy** cleaning and maintenance
- Intake hopper with a **water jacket** for product heating (option)

Suitable products:

Honey



Ketchup



Jam



And many others...

Technical specifications:

Construction	Stainless steel AISI 304
Productivity	Up to 15 doses per minute
Overall dimensions in mm(L*W*H)	310×480×310mm
Weight	20kg
Control	PLC and HMI
Drive	Servo motor
Power supply	220V ± 10%
Installed power	700W
Air consumption	5L per minute
Dosing range	In the range of 2-11000ml



Feeding conveyors



Feeding conveyor with PVC/PU belt

Application

Used to transport the product to the intake hopper of the dosing device and to keep a constant product level in the filler.

Features

- Level-regulating **sensor**
- **Intake hopper** with feeding system
- Highly resistant PVC **belt HABASIT**
- **Easy cleaning** and maintenance
- **Stainless steel construction**, according to the safety requirements for working with food products.
- **Transport-friendly** design



Intake feeding hopper



Highly resistant PVC belt

Suitable products:

All kinds of grain and granular products



Technical specifications:

Construction	Stainless steel AISI 304
Productivity	Around 30L/per minute
Working height	By requirement
Weight	200kg
Control	Electronic
Drive	AC motors
Electrical supply	380V ±10%
Installed power	900W
Intake hopper volume	150L
Intake hopper feeding	Vibrationally or belt feeding

Feeding conveyor with modular plastic belt



Application

Used to transport the product to the intake hopper of the dosing device and to keep a constant product level in the filler.

Features

- Level-regulating **sensor**
- **Intake hopper** with feeding system
- Wear and oil resistant **modular belt HABASIT**
- **Easy cleaning** and maintenance
- **Stainless steel construction**, according to the safety requirements for working with food products.
- **Transport-friendly** design



Intake feeding hopper



Highly resistant modular belt

Suitable products:

All kinds of grain and granular, frozen and sticky products



Technical specifications:

Construction	Stainless steel AISI 304
Productivity	Around 30L/per minute
Working height	By requirement
Weight	280kg
Control	Electronic
Drive	AC motors
Electrical supply	380V ±10%
Installed power	900W
Intake hopper volume	250L
Intake hopper feeding	Vibrationally or belt feeding

Feeding screw conveyor



Application

This type of conveyors can be used for the transportation of hard-to-break, small-grained and powder-like products, such as sugar, salt, starch, food supplements, ground spices, cacao, ground coffee, instant drinks and other.

Features

- Level-regulating **sensor**
- **Intake hopper** additional mixer
- **Mobile** construction
- **Easy cleaning** and maintenance
- **Stainless steel construction**, according to the safety requirements for working with food products.
- **Transport-friendly** design

Suitable products:

All kinds of crystalized and powder products



Technical specifications:

Construction	Stainless steel AISI 304
Productivity	Around 20-30kg/minute
Working height	By requirement
Weight	150kg
Control	Electronic
Drive	AC motors
Electrical supply	380V \pm 10%
Installed power	800W/1550W (when agitator is installed)
Intake hopper volume	200L
Additional agitator in the hopper	Optional

Feeding conveyor for salads



Application

Used to transport the product to the intake hopper of the dosing device and to keep a constant product level in the filler.

Features

- Level-regulating **sensor**.
- **Intake hopper** with belt feeding system.
- **Double belt** system for keeping the product from harm.
- **Product scraping module**.
- **Stainless steel construction**, according to the safety requirements for working with food products.
- **Transport-friendly** design.



Intake feeding
belt hopper



Product distribution
comb

Suitable products:

All kinds of green and cut salads like:
gabbage, salad rocket, spinach, lettuce and etc.



Technical specifications:

Construction	Stainless steel AISI 304
Productivity	Around 30L/per minute
Working height	By requirement
Weight	400kg
Control	Electronic
Drive	AC motors
Electrical supply	380V \pm 10%
Installed power	1210W
Intake hopper volume	250L
Intake hopper feeding	Belt feeding



Semi-automatic filling machines



Filling machine for granules in range 20-2000g



Application

Used for dosing granules, cut herbs and low dusty ground spices. The filler is arranged as a standalone working station for filling of premade bags and containers

Features

- Additional **agitator** in the feeding hopper (optional).
- Up to **15-30 doses per minute**, depending on the dosing heads.
- Intuitive control via **Touch Screen**.
- Easy and **inexpensive maintenance**.
- **Stainless steel construction**, according to the safety requirements for working with food products.
- Option for creating **up to 20 preset programs** for the different products, which makes the product switching fast and easy.
- **Double speed vibrational feeding**- fast speed for maximum productivity switches to a slower speed- for maximum accuracy.
- **Vibrational feeding channels** with no wearing parts.

Suitable products:

Non-dusty ground spices

Salt and sugar

Dried nuts and seeds

Green cut herbs

*And many others...*

Technical specifications:

Construction	Stainless steel AISI 304
Productivity 2/4/6 channels	Up to 15/30 doses per minute
Overall dimensions in mm(L*W*H)	850*800*1800
Weight	150kg
Control	Touch Screen
Drive	AC/DC motors, vibrators
Electrical supply	220V±10%
Installed power	750W
Dosing range	In range 20-2000gr.
Weighing precision	±1gr. according to the product

Filling machine for granules in range 2-20kg



Application

Used for dosing granules, seeds, wood pellets and other similar products. The filler is arranged as a standalone working station for filling of premade bags.

Features

- **Pneumatic gripping system** for improved bag holding.
- Up to **4 bags per minute**, for 15kg bags.
- Intuitive control via **Touch Screen**.
- Easy and **inexpensive maintenance**.
- **Stainless steel construction**, according to the safety requirements for working with food products.
- Option for creating **up to 20 preset programs** for the different products, which makes the product switching fast and easy.
- **Double speed vibrational feeding**- fast speed for maximum productivity switches to a slower speed- for maximum accuracy.
- **Vibrational feeding channels** with no wearing parts.

Usually equipped with:



Impulse sealer



Transport belt



Feeding conveyor

Technical specifications:

Construction	Stainless steel AISI 304
Productivity	Up to 4 bags/min for 15kg dose
Overall dimensions in mm(L*W*H)	1030*750*2500
Weight	150kg
Control	Touch Screen
Drive	Vibrators, pneumatics
Electrical supply	220V±10%
Installed power	500W
Dosing range	In range 2-20kg
Air consumption	6L/min

Powder filling machine



Application

Used for dosing of finely ground, dusty products.
The machine is arranged as a standalone working station for filling of premade bags and containers

Features

- Additional **agitator** in the feeding hopper.
- Up to **10-15 doses per minute**, depending on the dosing range.
- Intuitive control via **Touch Screen**.
- Easy and **inexpensive maintenance**.
- **Stainless steel construction**, according to the safety requirements for working with food products.
- Option for creating **up to 20 preset programs** for the different products, which makes the product switching fast and easy.
- **Double speed auger feeding**- fast speed for maximum productivity switches to a slower speed- for maximum accuracy.
- Interchangeable **dosing augers** for different dosing ranges.

Suitable products:

Ground spices



Chemicals



Supplements



Ground coffee

*And many others...*

Technical specifications:

Construction	Stainless steel AISI 304
Productivity	Up to 8-15 doses per minute
Overall dimensions in mm(L*W*H)	920*900*2100
Weight	150kg
Control	Touch Screen
Drive	AC motors
Electrical supply	220V±10%
Installed power	750W
Dosing range	In range 20-3000gr.
Weighing precision	±1gr. according to the product

Filling machine for liquids



Gear pump



Application

Used for the the dosing of liquid products with different viscosity. Could be equipped with automatic machine or work as a standalone filling station.

Features

- **Digital** volume adjustment.
- High precision **gear pump**.
- Intuitive control via **Touch Screen**.
- Double speed feeding with **servo motor**.
- **Easy** cleaning and maintenance
- Intake hopper with a **water jacket** for product heating (option)

Suitable products:

Honey*Ketchup**Jam**And many others...*

Technical specifications:

Construction	Stainless steel AISI 304
Productivity	Up 11l per minute
Overall dimensions in mm(L*W*H)	920*900*2100
Weight	150kg
Control	Touch Screen
Drive	Servo motor
Electrical supply	220V±10%
Installed power	1500W
Dosing range	In range 20-1500ml.
Filling precision	±1% according to the product

Filling machine for fertilizers in bags up to 50kg

Application

Used for the dosing of powdered and granular fertilizers. The filler is arranged as a standalone working station for filling of premade bags.

Features

- **Pneumatic gripping system** for improved bag holding.
- Up to **2-4 bags per minute**, for 50kg bags.
- Intuitive control via **Touch Screen**.
- Interchangeable **dosing modules** for powder and granular products.
- **Double-cyclone** dust despending system.
- Option for creating **up to 20 preset programs** for the different products, which makes the product switching fast and easy.
- **Screw feeding conveyor** with 200mm screw diameter.
- **Twin-screw dosing system**.



Usually equipped with:



Impulse sealer



Transport belt



Feeding conveyor

Technical specifications:

Construction	Stainless steel AISI 304
Productivity	Up to 2-4 bags/min for 25kg dose
Overall dimensions in mm(L*W*H)	1540*660*2910
Weight	250kg
Control	Touch Screen
Drive	Vibrators, pneumatics
Electrical supply	380V±10%
Installed power	3000W
Dosing range	In range 10-50kg
Air consumption	10L/min



Mixers and blenders



Screw mixer for powders



Application

The screw mixer is used for mixing powder products. The passing of the product through the screws helps for its milling (if lumps are present). After that, by changing the rotary direction of the screw, the well-mixed product is directed from towards a container for the ready production.

Features

- Level-regulating **sensor**
- **Intake hopper** additional mixer
- **Mobile** construction
- **Easy cleaning** and maintenance
- **Stainless steel construction**, according to the safety requirements for working with food products.
- **Transport-friendly** design

Suitable products:

All kinds of crystalized and powder products



Technical specifications:

Construction	Stainless steel AISI 304
Mixing capacity	250L
Working height	On requirement
Weight	200kg
Control	Electronic
Drive	AC motors
Electrical supply	380V ±10%
Installed power	2550W
Screw reverse	Available
Additional agitator in the hopper	Available

Mixer for herb mixtures and tea

Application

The product is homogenised during the spinning of the mixer in one direction. When the direction of spinning is changed, the mixed product is unloaded via an internal elevator. The mixer is suitable for mixing a large variety of cut herbs, spices and tea.

Features

- Reinforced construction
- Option for spraying **liquid flavor**
- **Adjustable** speed and rotating direction
- **Easy cleaning** and maintenance
- **Stainless steel construction**, according to the safety requirements for working with food products.
- **Transport-friendly** design

Suitable products:

All kinds of herbs, cut spices and tea



Technical specifications:

Construction	Stainless steel AISI 304
Mixing capacity	560L
Working height	On requirement
Weight	200kg
Control	Electronic
Drive	AC motors
Electrical supply	220V ±10%
Installed power	900W
Direction reversing	Available
Supervision opening	Available

Rotary type blender



Application

Used for homogenising and mixing a wide variety of products.

Features

- Reinforced construction
- Option for spraying **liquid flavor**
- **Adjustable** speed and rotating direction
- **Easy cleaning** and maintenance
- **Stainless steel construction**, according to the safety requirements for working with food products.
- **Transport-friendly** design

Suitable products:

Different kind of spices, grains, seeds and herbs



Technical specifications:

Construction	Stainless steel AISI 304
Mixing capacity	On requirement
Working height	On requirement
Weight	120kg
Control	Electronic
Drive	AC motors
Electrical supply	220V ±10%
Installed power	900W
Direction reversing	Available
Supervision opening	Available



Auxiliary equipment



Output transport belt

Application

The output conveyors are positioned on the exit of the vertical packaging machine, as their main function is the transportation of the ready package to a metal detector, check weigher or directly to a rotary table for stacking. Besides that, the belts preserve the still warm seals of the packages from damage when falling and maintain the good appearance of the final package.

Features

- Compact and **lightweight** construction
- **Adjustable slope** of the transport belt
- **Rugged surface (or flights)**, which prevents the sliding of packages
- **Easy cleaning** and maintenance
- **Stainless steel construction**, according to the safety requirements for working with food products
- **Transport-friendly** design



Technical specifications:

Construction	Stainless steel AISI 304
Belt speed	250 mm in a second
Working height	Adjustable
Weight	50kg
Drive	AC motors
Electrical supply	380V ±10%
Installed power	120W
Belt width	250mm
Belt length	1700mm

Rotary table ROBUST



Application

The function of the rotary tables is related to the collection and the distribution of ready packages. The rotation of the table prevents the accumulation of the packages at one location, which often leads to their damaging and deterioration of their appearance.

Features

- Compact and **lightweight** construction
- **Adjustable height** of the table
- **Adjustable** rotation speed (optional)
- **Easy cleaning** and maintenance
- **Stainless steel construction**, according to the safety requirements for working with food products
- **Transport-friendly** design

Technical specifications:

Construction	Stainless steel AISI 304
Speed	Up to 2.5 RPM
Working height	Adjustable
Weight	50kg
Drive	AC motors
Electrical supply	380V ±10%
Installed power	150W
Overall dimensions (L*W*Hmm)	1200*1200*900

Impulse sealing machine for ready bags



Application

The impulse sealers are used for PE bags sealing. The sealers are usually integrated with filling machines where the bags are first filled and after that are transported (usually through a belt) up to the impulse sealer. The operation is easy, the operator should just put the bag on the proper place and send signal to the sealer (through a pedal or a button) in order to start the sealing. The sealing pressure, sealing time, sealing head angle and height could be all adjusted for better matching the customer's requirements.

Features

- Compact and **lightweight** construction
- **Adjustable height** of the sealing elements
- **Adjustable** temperature and sealing time
- **Easy cleaning** and maintenance
- **Transport-friendly** design

Technical specifications:

Sealing power	500W
Seal length	600mm
Seal width	8-10mm
Weight	80kg
Drive	Pneumatics
Electrical supply	220V ±10%
Installed power	750W
Overall dimensions (L*W*Hmm)	720*560*1340
Packaging material thickness	<180 microns

Silent air compressor

Application

Used to deliver compressed air to the packaging machine's pneumatics. The silent work and compact construction make the device extremely suitable for small facilities with low compressed air consumption.



Features

- Compact and **lightweight** construction
- **Super Silent** only 52dB
- **Oil Free design**
- **Internally coated** for longevity

Technical specifications:

Tank capacity	22L
Air flow	4CFM (115 L/min)
Free air delivery	2.1CFM (59 L/min)
Noise level	52dB
Power	0.55Kw (3/4HP)
Max pressure	8 Bar (120psi)
Weight	24kg



The company has the right to modify the appearance and design of the products and the specifications may change without further notice, thanks for understanding.
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