



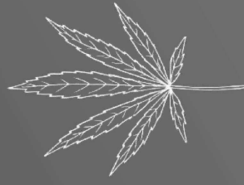
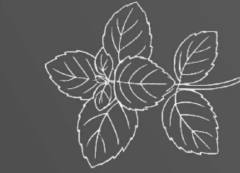
Friday, 19th September 2025.

PORTABLE DRYERS AND PROCESSING EQUIPMENT FOR MEDICINAL HERBS

Speakers:

*Veron Hrvojić, Design Engineer
Ana Ščuka, Sales Representative
Company: Herbas d.o.o., Croatia*

From harvest to quality – drying
and processing made simple





AGENDA

- About us
- Portable container dryer MPD - 40
- Floor container dryer HKS-12/60
- Harvesters
- Five exemplary processing lines for herbs
- Grape pomace processing line
- Oil production equipment
- Contact



MADE IN EU



ABOUT US

Herbas d.o.o. is a Croatian company designing and manufacturing machines for drying and processing of medicinal herbs, spices, grape pomace, sweet corn, hemp, tobacco etc.

25+

years
of experience

40+

countries
equipment
installed
worldwide

2000+

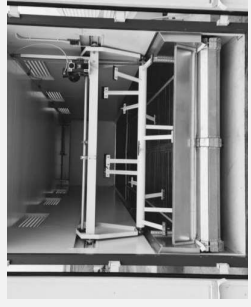
machines
delivered to
customers

PORTABLE CONTAINER DRYER MPD-40

UNIVERSAL - herbs, hay, granular materials, vegetables, pet food
MODERN SOLUTION - movable floor, mixer, remote control

Key features:

- Solid and stable construction,
- Plug & Play - portable, requires minimal installation
- Insulation: sandwich panels with PUR filling 50 mm thick,
- The front double-winged door



PORTABLE CONTAINER DRYER MPD-40

Static floor / Moving floor

- Made of galvanized / INOX 304 perforated segments, 1.5 mm with perforations of 3.2 mm
- The moving floor driven by a chain, operable from both sides

Advantages of the moving floor for granular materials:

- Easy loading with a precise and uniform layer
- Eliminates the risk of contamination

Without mixer / Paddle mixer / Screw mixer

- Paddle mixer suitable for mixing thinner layers (up to 25 cm) of grains and pumpkin seeds, ensuring uniform drying
- Screw mixer is particularly suitable for higher layers, up to 90 cm
- **Remote control** - adjustment and monitoring of **via mobile phone, tablet, or computer** with Windows or Android operating system.



FLOOR CONTAINER DRYER HKS-12/60

- Galvanized steel frame, insulated panels (50 mm PU), minimal heat loss.
- **Floor:** perforated galvanized (1.5 mm, Ø 3.2 mm), static or movable.
- **Effective sizes:** 24 / 32 / 40 m²
(L: 6 / 8 / 10 m; W: 4 m; H: 2.8 m).
- **Mixers optional** – prevent uneven drying.
- For herbs (**chamomile, mint, lemon balm**), **hemp, rosehip, pumpkin seeds, barley, corn, grain, buckwheat** etc.



THERMAL GENERATORS HT

- Used in HKS and MPD dryers or as standalone heating unit
- radial fan 14,000 to 30,000 m³/h
- single-stage burner (two stage optional), electronic thermostat with temperature and moisture probe and electrical control cabinet.

Thermal generators type HTG-160

- power of 50 – 160 kW
- spiral or PE distribution pipe
- **Fuel:** natural gas, electricity and fuel oil

Thermal generator type HT-AD 95 (biomass version)

- wood chips G20 or wood pellets.
- Standard hopper - 1 m³
- Maximal heat output: 150 kW, Programmable heat output: 10 - 150 kW, Automatic ash removal for easy cleaning
- COMBI version - possibility of swapping for gas or fuel oil burner



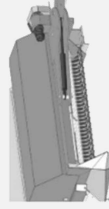
OVERHEAD THERMAL GENERATOR TGH -100

- Great solution for industry and agriculture
- Air distribution systems - for greenhouses, farms, etc.
- High – performance axial fan: 14000 m³/h
- **Fuel options:** natural gas or fuel oil
- programmable - automatic start according to preset temperature or day in the week



HARVESTERS

- **Combing fingers system** - chamomile flower, high flower to stem ratio
- Optional removable **cutter-bar system** - low chamomile, Mentha, Melissa, Urtica, etc.
- Ideal for small to medium producers.
- 3 - point hitch connection to CAT II, or adapted
- Hydraulically driven - 4 ports required



OPTIONAL MOWING SYSTEM



KVH-2000EH

KVH-2000EH and KVH-2000EHT harvesters			
drive type:	traction – tractor	traction - tractor	
capacity:	0.25 – 0.35 ha / h	0.7 – 1 ha/h	
harvesting width:	1850 mm	1850 mm	
bunker capacity:	2.7 m ³	-	
required tractor power for traction and drive:	30 kW	30 kW	
reel drive:	hydraulic motor	hydraulic motor	
bunker tipping drive:	hydraulic cylinder	hydraulic motor	
weight:	1600 kg	2000 kg	



KVH-2000EHT

HARVESTER K VH-2000EH

- High quality harvest
- Adjustable working height 15 - 85 cm via three-point hitch.
- Optimised chassis - strong and light
- Operation from the cab
- Easy switch between harvest and transport mode
- Deploy time < min



HARVESTER K VH-2000EHT

- Rotatable and telescopic conveyor
- Transports harvested material directly to trailer
- Achieving high quality harvest with favorable ratio of flower head and stem
- Deploy time < 2 min



HARVESTING MODE



TRANSPORT MODE



PROCESSING LINES **FOR HERBS**

Default or custom designed solutions for:

- tea industry,
- extraction industry,
- agriculture,
- sweet corn industry,
- grape industry, etc.

including:

- tea-bag cut (finecut) lines
- leaf from stem separation
- seed separation
- complete chamomile processing
- rose-hip processing



TBC PROCESSING LINE FOR SQUARE BALES

What it does

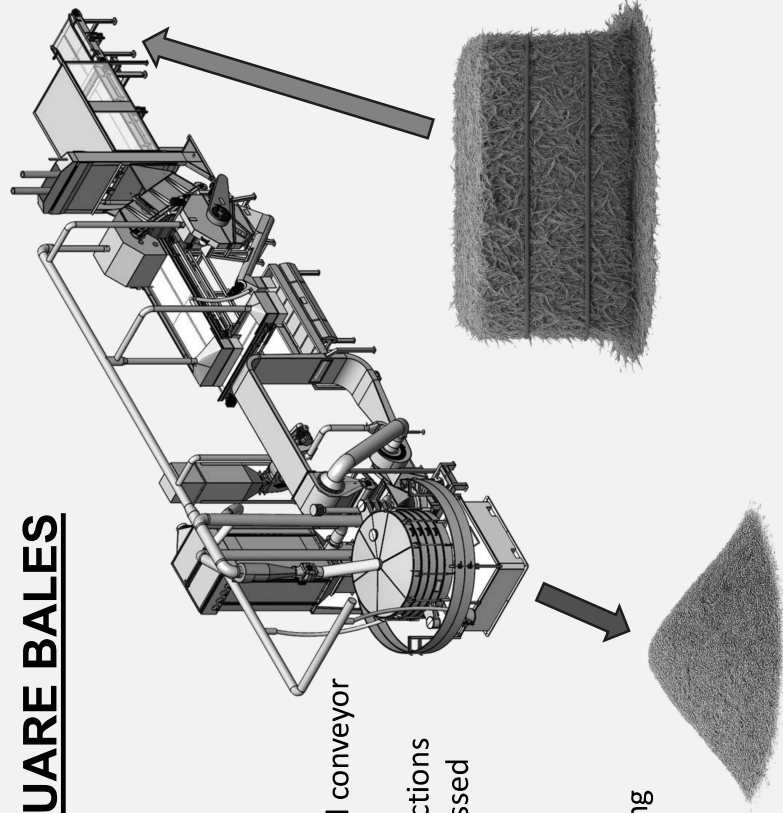
- Processes dried herbal material (baled or bulk)
- Cuts, separates, and sieves into precise fractions
- Removes dust → clean and safe environment

How it works

- Input conveyor → cutter (20–50 mm) → vibrational conveyor
- Pneumatic separator:
heavy fractions (stems, stones, metals) vs. light fractions
- Planetary sieve: up to 3 fractions, oversize reprocessed
- Final product bagged via screw conveyor
- Pulse-jet filter: self-cleaning, dust-free operation

Results

- Consistent fraction sizes for further use or packaging
- High efficiency with minimal labor
- Clean, dust-free workspace
- Reliable, continuous processing



FINECUT PELLETIZATION LINE

What it does

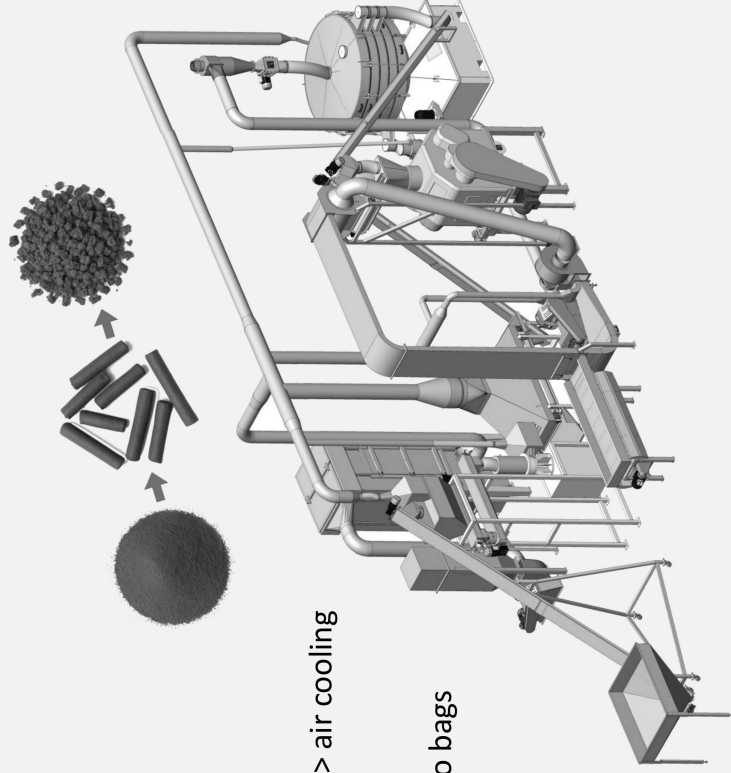
- Transforms powder into pellets & fractions
- Increases density → faster, more efficient packaging
- Reuses dust → minimal waste

How it works

- **Pelletizing + Cooling:** screw conveyor → pelletizing → air cooling
- **Grinding:** special mill, adjustable fractions
- **Sieving:** RS planetary sieve, up to 5 levels
- **Return flow:** oversized back to mill, good fractions to bags
- **Filtration:** pulse-jet filter, clean air & dust reuse

Results

- Faster packaging of filter bags
- Precise granulation & quality consistency
- Waste reduction & higher efficiency



ROUND BALE MILLING LINE

What it does

- Processes baled or bulk material into required fractions
- Compatible with cost-effective transport and storage approach
- High capacity: up to 3 t per 6–8h shift

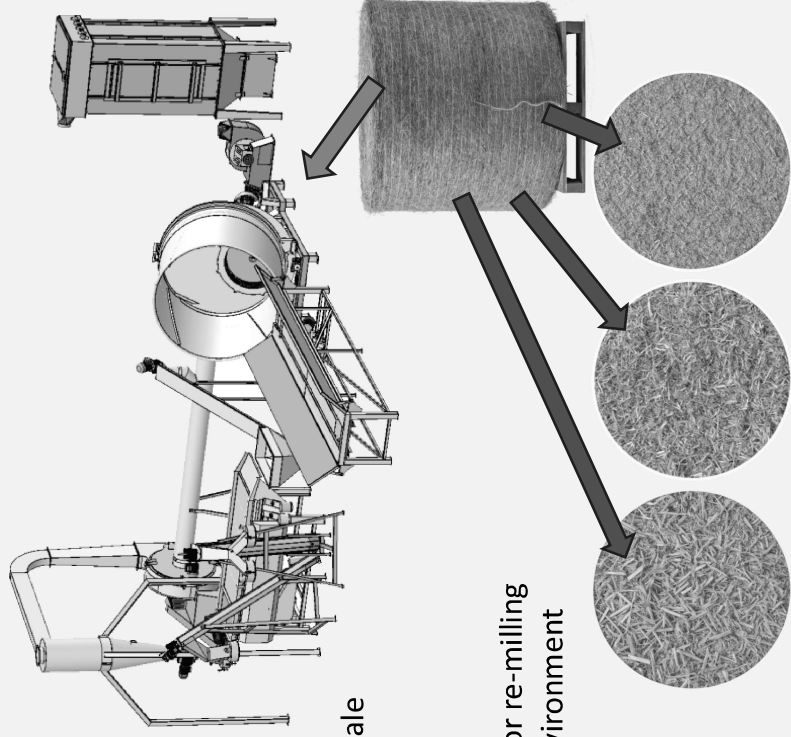
How it works

- Automatic lift with tilting function → chain conveyor → bale desintegrator mill
- Material milled, then pneumatically transported to second mill

Vibratory sieve separates fractions, oversized returned for re-milling
Filtration system removes fine dust → clean and safe environment

Results

- Efficient milling with minimal labor (only 2 operators)
- Consistent fraction sizes
- Reduced dust - improved workplace safety
- Reliable, continuous processing of large volumes



THRESHING, REBLING AND SEPARATION LINE

What it does

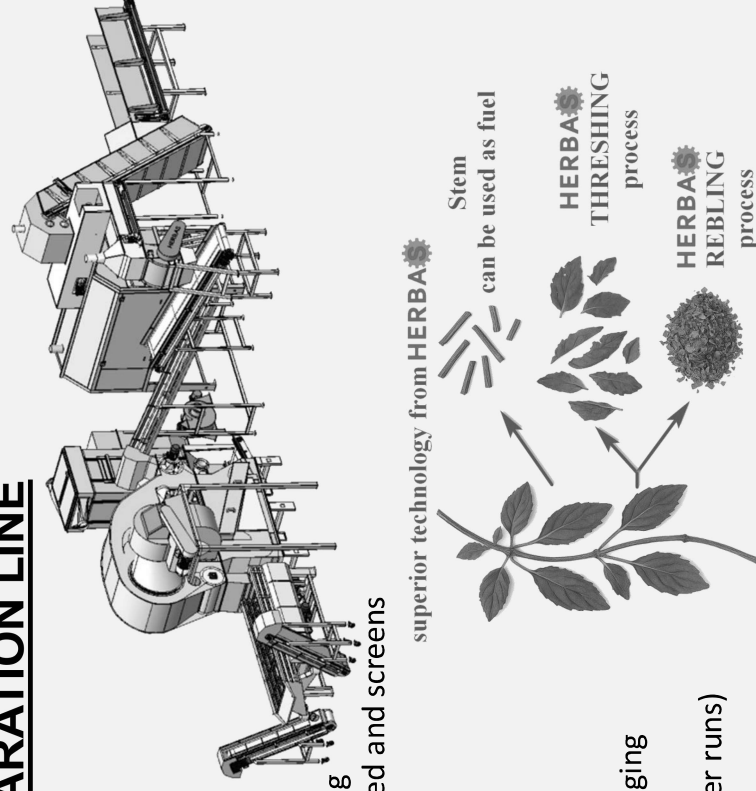
- Ideal for medicinal & aromatic plants (mint, sage, lemon balm, nettle, stevia, etc.)
- Separates leaf from stalk (threshing & rebling)
- Produces clean material with minimal dust

How it works

- Input buffer & feeder - consistent and uniform dosing
- **Threshing** - whole leaves -> adjustable through speed and screens
- **Rebling** - finer, specified size -> adjustable through screens and pressure
- Flexible: switch between processes anytime
- Pneumatic + vibrational sieve for final cleaning

Results

- Higher-value output for extraction & bulk tea packaging
- Minimal product loss & dust
- Efficient use of time (adjust one machine while other runs)
- Requires only 2 operators



STANDARD ROSEHIP SEPARATION LINE

What it does

- Dried rosehip fruits -> flesh, seeds, hairs
- Minimal destruction of fleshy parts
- Applicable for other dried fruits as well

How it works

- Screw conveyor → grinder/separator → pneumatic separator
- Airflow lifts hairs → closed container
- Heavy fractions (flesh) → conveyor → vibrational sieve
- Seeds separated as undersize; flesh as oversize
- Optional magnets remove ferromagnetic metals

Results

- Clean separation of seeds, flesh, and hair
- High-quality output with minimal contamination
- Flexible use for multiple fruit types

ROSEHIP SEPARATION LINE			
	COMPACT	STANDARD	ULTIMATE
CAPACITY	up to 300 kg/h	up to 500 kg/h	up to 1000 kg/h



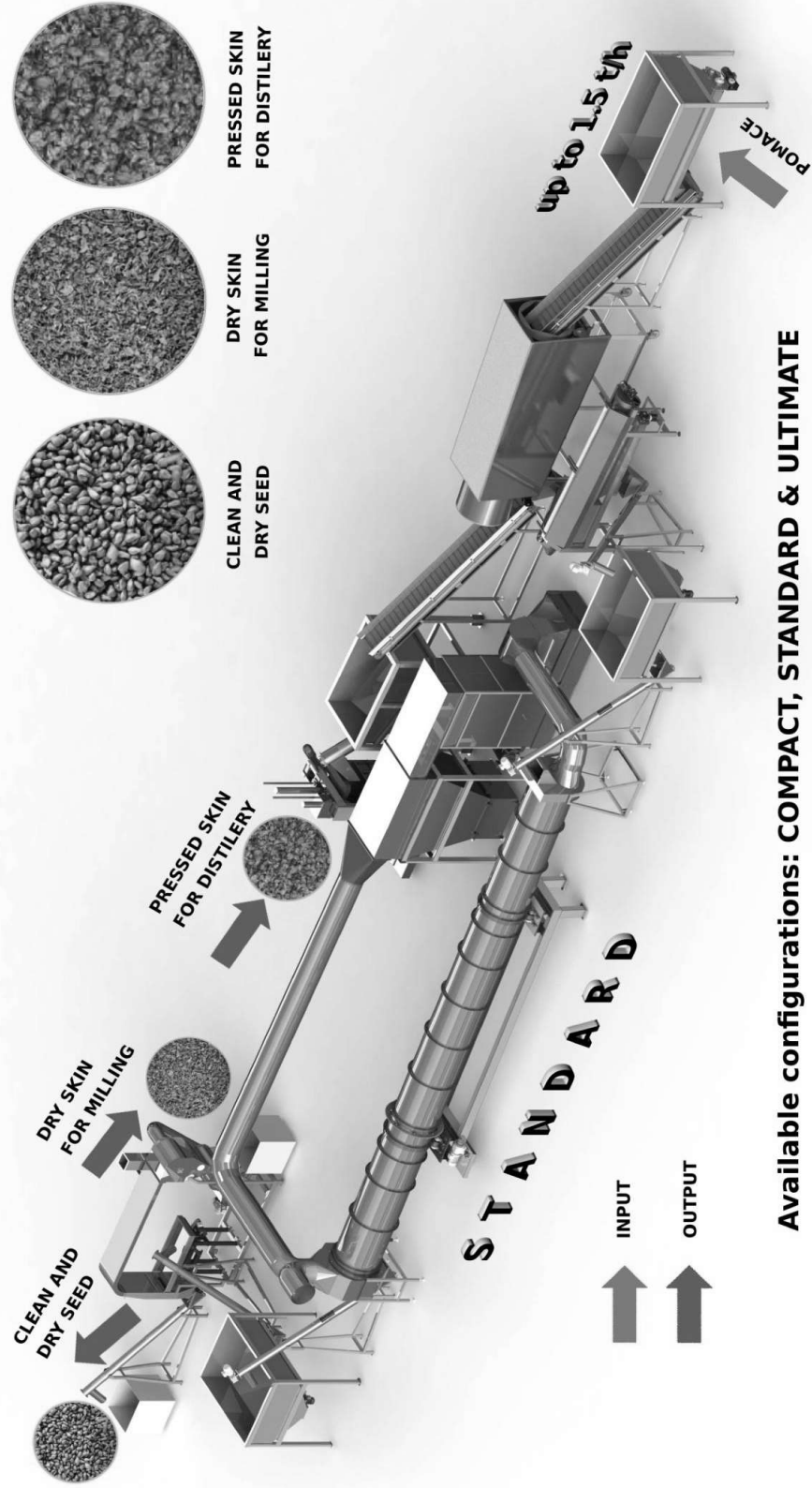
GRAPE POMACE PROCESSING LINE

- Turning grape pomace into valuable products - a new and innovative approach
- **clean seeds** - cold pressed oil using screw presses
- **dry skin-** powder for encapsulation or as natural additive to food products
- **wet skin-** distillation for alcohol production
- Byproducts make better raw materials composting



PROCESSING LINE
FOR GRAPE POMACE





Available configurations: COMPACT, STANDARD & ULTIMATE

PUMPKIN SEED OIL - COMPLETE EQUIPMENT

- Ozkan Pumpkin harvesters (KHM-B3 Plus, KHM-B2, KHM-B1)
- Washing machine for pumpkin seeds **HPBK 50/270**
- **HKS** and **MPD** dryers
- Polishing machine for seeds **PSB-25**
- Mill for pumpkin seeds **HM-400P**
- Mixer/conditioner **KPU-100**
- Gas stove **AHK60-2**
- Hydraulic press **HP-300**



HARVESTER KHM-B2



WASHING MACHINE HPBK 50/270



MILL HM-400P



MIXER KPU-100



PRESS HP-300



GAS STOVE AHK60-2

HHP SCREW PRESS

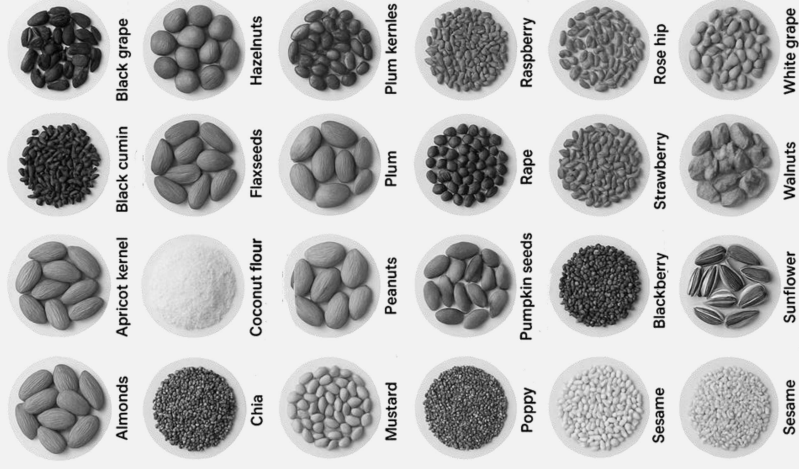


- Efficient pressing and high extraction rate, while retaining oil quality.
- The pressing temperature is regulated via digital thermostat.
- The S versions recommended for harder seeds (grape, rosehip...)

Name:	HHP 20	HHP 20 S	HHP 40	HHP 40 S
Capacity, up to (kg/h)*	20	20	40	40
Dimensions (mm)	878 x 559 x 796	877 x 559 x 806	1012 x 559 x 824	1124 x 559 x 844
Power (kW)	1,5	2,2	2,2	4
Heater power (kW)	600	600	800	800

*depending on the product and screw used

- Types of screws available according to product: shallow-grooved, standard, deep-grooved



Friday, 19th September 2025.

HERBAS

Thank you for joining us today.

For more information about our portable dryers and processing equipment, feel free to reach out to us.

Our team will be glad to provide details, technical support, and customized solutions for your needs.



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