



**AGROSERVIS  
PROIZVODNJA**  
d.o.o. • VIROVITICA

20 godina kvalitete



20 yrs of quality

# HEMP HARVESTING HEADER



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# PURPOSE

Facilitation and acceleration of hemp flower harvesting speed



Agroservis – proizvodnja company has developed this machine to simplify hemp flower harvesting process. Our developing team has constructed machine which has possibility to quickly attach or deattach on front tractor loader, reducing delays in overall tractor performances and as well eliminates need for additional agricultural machinery because this machine is easily connected on existing mechanisation farmer possesses. By that all additional costs, one of purchasing of new (specialised) equipment, are eliminated.

# ADVANTAGES AND PROPERTIES

quick and easy attachment



saves time

avoids complications of harvesting



reduces costs

compact dimensions



saves space



One of main advantages, this machine of our has, is that it is designed for simplicity and quick attachment on tractor, allowing machine to be quickly attached on existing front tractor loader which results with possibility of immediate usage of machine. By completion of its task, machine is easily disconnected and disposed, and tractor (on which machine was previously connected) is ready to perform other tasks. By that this machine can be described as multifunctional machine that **saves time**. Because of hemp characteristics, many manufacturers of self-propelled (combine) harvesters distances themselves (and their machines) from hemp harvesting with their products. This machine avoids complications resulted by wrapping of hemp fibres around machine parts. Because of that, and because of high costs of purchasing of self-propelled (combine) harvesters this machine is excellent solution for farmers because it **reduces costs** of hemp harvesting. One of characteristics of this machine are also his compact dimensions, especially compared to combine harvesters. That dimensions are especially important during time when machine is not used, when machine is stored, so we can say that this machine **saves space**.

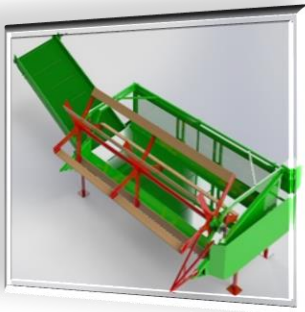


# DEVELOPMENT OF THE MACHINE



**Year 2016.** – adaptation of wheat header into machine that can harvest hemp

- ☞ this machine harvested approx. 20 ha of hemp in 2016.



**Year 2017.** – development of new machine that can harvest hemp

- ☞ machine was completely developed and produced by Agroservis-proizvodnja d.o.o. company.



**Year 2018.** – field testing of machine

- ☞ prototype harvested more than 70 ha of hemp without any problem occurred.



**Year 2019.** – start of commercialisation – expected sales was max 5 machines

- ☞ we sold 29 machines in 14 European countries
- ☞ one of our customers harvested 250 ha of hemp



**Year 2020.** – widening the range

- ☞ upgrading the machine
- ☞ additional cutting widths
- ☞ development of additional equipment

# COMPONENTS OF THE MACHINE

## FRONT ELEMENTS

attaching on front tractor loader

- Front harvesting head
  - Reel
  - Cutting bar
  - Header conveyor
- Side conveyor



## OTHER ELEMENTS

- Hydraulic hoses
- Cardan shaft



## BACK ELEMENTS

attaching on back tractor hydraulics

- Counterweight
  - Hydraulic oil tank
  - Hydraulic pumps
- Hydraulic installation elements



# WORKING PRINCIPLE



This machine is consisted of 2 units which are mounted on tractor: front unit, header for hemp harvest together with side (loading) conveyor belt and back unit, counterweight with hydraulic installations. Side loading conveyor belt is continuing on front header allows setting up height where hemp is exiting machine and being loaded up into collecting vehicle. Adjustment of loading height of side conveyor belt is hydraulically regulated. Harvest height is limited by maximal lifting height tractor loader can reach, as machine itself is just being mounted on it, so this machine doesn't have any limitation of harvesting regarding height of plant it harvests. We need to emphasize that complete harvesting process is being performed simply by cutting the top of the plant and transferring it to the collecting vehicle, so it can be said that harvest process is being gentle to the plant preserving top of the plant being harvested. Complete harvesting process is being hydro motor propelled enabling easy regulation of all of harvesting aspects, independently to tractor speed.

**HARVESTING HEIGHT IS LIMITED BY MAXIMAL LIFTING HEIGHT LOADER CAN REACH**



**INCLINATION OF SIDE CONVEYOR REGULATE HEIGHT OF LOADING ONTO COLLECTING VEHICLE**



Counterweight is mounted on back tractor hydraulics and with its mass of 2000 kg is countering the weight of elements mounted on front tractor loader. Counterweight itself consists of parts and pieces of hydraulics installations namely hydraulic oil tank and hydraulic pumps. As it is previously mentioned, this machine is characterised with high adaptability in different working conditions and it can by control units regulate reel rotating speed, header conveyor speed, side conveyor speed and front cutter bar cutting speed.

**CABIN CONTROL UNIT**

allows regulation of harvesting process from tractor cabin





# TECHNICAL INFORMATIONS

## GENERAL INFORMATIONS

Type of machine:	carried
Propulsion:	hydro motors
Working speed (km/h):	2-7
Harvesting height (mm):	300<
Possibility of regulation:	reel rotating speed reel position header conveyor speed side conveyor speed inclination of side conveyor cutter bar cutting speed



# MODELS

## HHH 3,5

## HHH 3,5+

### FRONT UNIT OF THE MACHINE

Working width (mm):	3500	
Demanded power (min KS):	150	
Side conveyor length (mm):	3000	4000
Side conveyor inclination:	20° - 50°	
Mass (kg):	1350	1500

### BACK UNIT OF THE MACHINE

Mass (kg):	1300
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## HHH 5

## HHH 5+

### FRONT UNIT OF THE MACHINE

Working width (mm):	5000	
Demanded power (min KS):	200< (with dual wheel system)	
Side conveyor length (mm):	3000	4000
Side conveyor inclination:	20° - 50°	
Mass (kg):	1500	1650

### BACK UNIT OF THE MACHINE

Mass (kg):	1500
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# OTHER FEATURES OF 2020. MACHINE

## REEL HEIGHT REGULATION

reel working height regulated by dual cylinder system



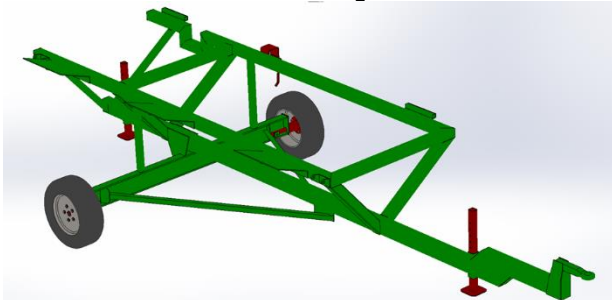
## POWERFUL HYDROMOTORS

allows more constant harvesting quality



## TRANSPORT TRAILER\*

intended for road transport of the machine



## 2 REEL VERSIONS\*

reel with metal paddles



reel with metal teeth



\*optional

- Manufactured in Croatia
- Machine is of European origin



Click or scan to see

This machine is produced in Croatia, and it is of Croatian and European origin and it comply with wide range of sale and post-sale criteria and obligations that are we, as manufacturer (and also as seller) willing and obligated to comply. Care of product quality is basic postulate of ours, and most definite proof of that quality are implemented marks of product marking (CE mark) and implemented quality management system compliant with EN ISO 9001:2015.

# CONTACTS



If you have any interest of purchasing this machine of ours, be free to contact us.

Sincerely yours Agroservis - proizvodnja d.o.o. team

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