

CHEAP AND QUALITY DIFFERENCES FOR SUNFLOWER FRUIT.

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Article history:	Abstract:
Received: May 17 th 2021 Accepted: June, 20 th 2021 Published: July, 17 th 2021	Separation of sunflower from the basket consumed by our people, introduction of mechanized hand-made, cheap SSS 1991 K maral technology provides information about varieties of sunflower. This technology also serves to sort and clean the sunflower from dust. It quickly and efficiently separates all products from the sunflower plant, which does not allow the quality to change.
Keywords: Sunflower, pistachio, oil, basket, shopping, waste, technology, fruit, cheap.	

Paragraph 3.3 of the Decree of the President of the Republic of Uzbekistan dated February 7, 2017 PF-4947 "On the Strategy for further development of the Republic of Uzbekistan" Achieving high productivity in agricultural development and modernization, sustainable use of new techniques and technologies, local climate and environmental Tasks have been set to expand scientific research on the cultivation of adapted agricultural crops without destruction, the creation and introduction into production of new techniques and technologies.

The sunflower is a heat-loving plant, and if it is left in the rain when it is ripe, its yield (oil, animal feed) will decrease. If the sunflower is left in the rain, the oil that people consume loses its properties.



Sunflower seeds have long been popular among our people. Demand for sunflower in our country and around the world is growing day by day. The sunflower, which is consumed by our people, is grown by farmers.

In developed countries, when sunflowers are planted, they are separated from the basket in the harvesters, but in developing countries, the seeds are sold in beds, in which case the handicraft exceeds the norm. If you want to separate the sunflower seeds with the help of combine harvesters, first of all, if the price of combine harvesters is expensive, then sunflowers grown by farmers are planted in small quantities up to 0.10-2 ha.



Figure 1 Combines for harvesting hay and sunflower.

For this reason, the SSS 1991 K proposed by us would be suitable not only for farmers, but also for farms. Because the SSS 1991 K machine we offer is designed to quickly remove 1000-1200 kg of seeds per hour from the basket, no matter how much sunflower

is planted in the field, even if the body price is very low. This machine can be aggregated on tractors MTZ-80, MTZ-100, Belarus, T-28, or can be aggregated with all types of tractors used on farms.



Figure 2 Ripe sunflowers grown by farmers.

Ready-made sunflowers are bought by the people and the whole world in different ways. In the Republic of Uzbekistan they are sold by hand in handicrafts. The risk of damage to purchased seeds can also be greatly increased by the level of waste. In the machine we offer, it costs only 8-

10 g to buy 1000 kg of seeds, there are no pistachios left in the basket, the purchased pistachios are not damaged, and if they are planted next year, they will sprout. There is no damage to sunflower products (oil, animal feed).

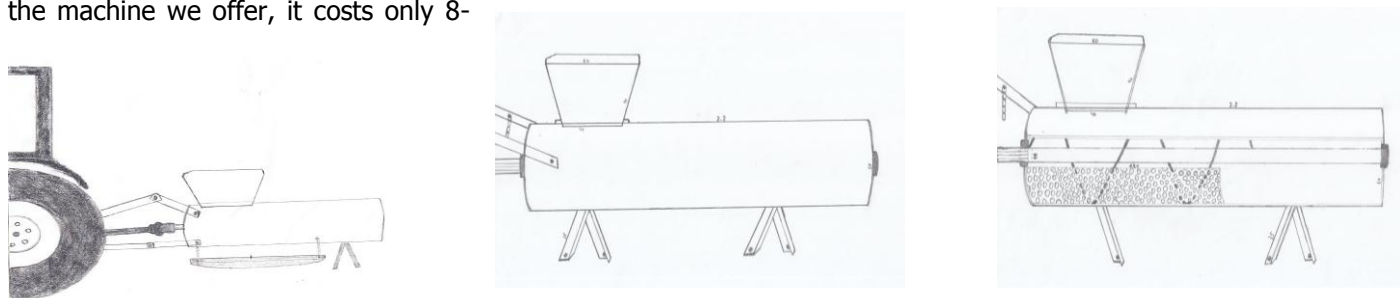


Figure 3 The proposed SSS1991K brand Sunflower Basket Separation Machine.

Placement of sunflower crops on grain-free areas across the provinces

Table 1

Provinces	Regions	The area planted with sunflowers 2018 year	The area planted with sunflowers 2019 year	The area planted with sunflowers 2020 year
Andijan	14	9151	8702	7760
Fergana	17	2700	13507	2802.1
Namangan	11	3770	5060	7266

The table shows that only in 3 districts of the Republic of Uzbekistan there is a need for sunflowers. In other regions and republics it is even more.

This technique can be made by farmers themselves or by entering the welding workshop on the farm. A 2.20-meter-diameter pipe with a diameter of 400 mm (Pipe) of the same length will require a 2.20-meter-diameter pipe with a diameter of 70 mm, a 32-meter-diameter armature, a 12-meter-diameter armature, a 1x3 sheet with 4 bearings [3], [4], [5]

The machine we offer not only separates the seed from the basket, but also separates the corn from the husk and sorts the separated seed. In addition, the fan blows sunflower clay and dust on the fan.

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