

Seed Drills, which are most in demand on the market and are competitors



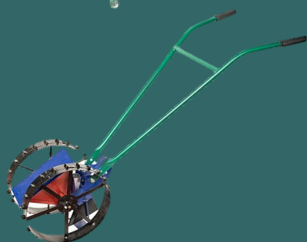
Manual seed drill

«STV-1 YARULO»



Manual seed drill

«NADIA - M»



Manual seed drill

«VINNYTSIA»

Technological and economic indicators of seeders

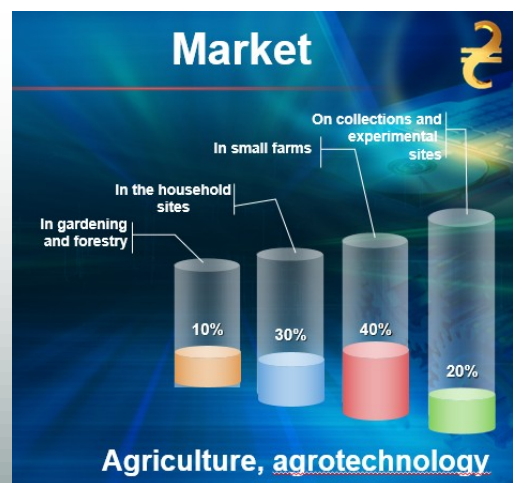
| № | Seeder models | Productivity (0,01 ha/h) | Application of mineral fertilizers | Cost 1/ (UAH) |
|---|--|--------------------------|------------------------------------|---------------|
| 1 | The seeder manual vegetable production "Vinnytsia" | 15-20 | - | 650 |
| 2 | The seeder manual universal "Nadia - M" | 15-20 | + | 1700 |
| 3 | The seeder manual "STV-1 Yarylo" | 15-20 | + | 3650 |
| 4 | The seeder manual modernized "Chernyatska" | 15-20 | + | 800 |

Technical characteristics of the shertered cornsalk "ZHMERINCHANKA"

| № | Indexes | Parameters |
|----|---|-----------------|
| 1. | Productivity at peeling of cobs of corn for crops | 40-45 kg/h |
| 2. | Productivity at peeling of cobs of corn on grain | 50-55 kg/h |
| 3. | Rotation speed of the peeling device | 1000-2000 rpm |
| 4. | Mass | 19,5 kg |
| 5. | Dimensions | 1000x650x370 mm |

Manual seed drill "CHERNYATINSKA"

| № | Indexes | Parameters |
|----|-------------------------------------|----------------------|
| 1. | Productivity | 15-20 ha/h |
| 2. | The volume of the seed hopper | 0,9-1dm ³ |
| 3. | The volume of the fertilizer hopper | 0,6 dm ³ |
| 4. | Dimensions | 1300x900x50mm |
| 5. | Mass | 10 kg |



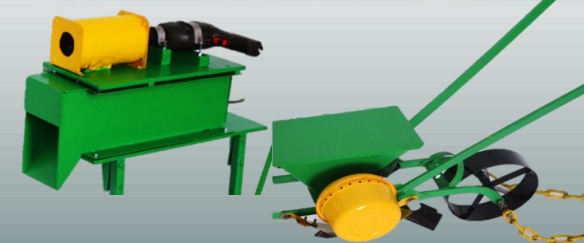
Ukraine, Vinnytsia region,
Zhmerynka district, Chernyatyn,
str. Grafa Lvova, 28
email: chernyatin@ukr.net



Separate Structural Subdivision
«Chernyatyn Professional College
of Vinnytsia National Agrarian University»



Technology of sowing corn and other row crops on small plots



*Human progress and development
are of immense importance for
mankind and depends heavily on
inventions*

Nicola Tesla

DEVELOPERS



SERHII VOLKOTRUB -
lecturer of mechanization
and equipment for processing
livestock products,
founder of the project



BOHDAN SHOPIAK -
lecturer of technical
mechanics, responsible
executer



ARTEM OVSIANYI -
Stud. Agroengineering

CONCEPT OF OUR STURTUP:

This project was created to sow corn seeds, which we get by peeling the cobs with a homestead corn peeler, which was designed and manufactured as a primary element of this project.

At this stage, the homestead corn peeler "Zhmerynchanka" and the manual modernized seeder "Chernyatynska" make up one set of machines for sowing corn and other row crops in small plots.

The idea of the project is to improve the manual seeder designed for sowing seeds of agricultural crops.

Researchers have designed devices for applying mineral fertilizers and leveling the soil surface after sowing and equipped them with the manual seeder designed for sowing row crops in small areas.

The task is solved by the fact that a device for sowing mineral fertilizers is installed on the shaft of the sowing machine, and a loop-wrapper moves behind the rolling wheel.

INNOVATION OF OUR PROJECT

The proposed project has the advantage that, simultaneously with the sowing of peeled corn seeds and other crops, mineral fertilizers can be applied to the row area, wrapping them in the soil while leveling the surface, which reduces manual labor costs and increases the efficiency of fertilizers.



Definition of the problem

This project was created with the purpose of improving the seeding process of irradiated corn seeds with the simultaneous introduction of mineral fertilizers on small farms and farms, collections and experimental sites.

Unique solution of our project



SHELTERED CORNSRALK "ZHMERINCHANKA"

- 1 - frame
- 2 - peeling apparatus
- 3 - electric drill
- 4 - guide tray



MANUAL SEED DRILL "CHERNYATINSKA"

- 1 - frame
- 2 - bunker
- 3 - opener
- 4 - wrapper
- 5 - handles
- 6 - support wheel
- 7 - olling wheel
- 8 - loop-wrapper
- 9 - evice for applying mineral fertilizers
- 10 - guide plate



Business model

