

LOZOVA  **MACHINERY**

SHILLING

Stubble Cultivators



Money works!



The stubble cultivators SHILLING are used in full force and effect in mulch cropping system. The SHILLING disc-share stubble cultivators also have a widespread application in traditional tillage systems for fallow maintenance and seedbed preparation.

During the first stage the seeds of drops, weeds and organic mass are covered by the topsoil at shallow depth by means of special-shaped vaned shares. This provokes their fast germination and causes water capillary destruction, thereby soil keeps moisture, absorbs and keeps precipitations.

The second stage is carried out approximately within two weeks. Soil is cultivated at the depth of 10-15 cm, sprouts are cut off over the whole surface and removed with roots. At the same time SHILLING uniformly distributes organic mass over the whole cultivation depth and mixes it with the soil.

The SHILLING multipurpose cultivator also can be applied for the efficient sowing of intercrops, with optimal mixing of herbage with the soil for its quick decomposition (working elements ensure blockage-free operation).

This cultivator performs the following operations in one pass:

- soil loosening and crumbling
- weeds undercutting
- chopping and placement of plant residues, fertilizers and mulching of the soil level
- smoothing and packing of the soil level
- preparation of the seedbed with stable depth

● Wide vaned coulters are adjusted downward under special angle, thereby it is possible to perform undercutting of soil seam over the whole surface and optimal mixing even at small depths. The working width of the edge of long side faces of coulters remains intact within the whole service life.



● The possibility to remount a safety bolt allows to adjust the slope angle of the legs and provides perfect penetration of the SHILLING even into dry and hard soil.



● Parallel roller and concave discs are manufactured as a combined unit. Therefore, there is no need to make supplementary disc setting while the adjustment of cultivation depth. For adjustment of necessary roller and concave discs depth there was provided a control mechanism.



SHILLING



Basic technical characteristics	SHILLING-2,0	SHILLING-3,0	SHILLING-4,0	SHILLING-6,0	THALER + 2pcs. of SHILLING - 4,0
Working width, m	2.24	3.14	4.0	6.0	8.0
Operating depth, cm	5-22	5-22	5-22	5-22	5-22
Operating speed, km/h	max. 15	max. 15	max. 15	max. 15	max. 15
Efficiency, ha/h	max. 3.36	max. 4.71	max. 6.0	max. 9.0	max. 12
Legs quantity, pcs.	5	7	9	13	18
Rollers quantity, pcs.	1	2	2	2	4
Total weight, kg	748	1310	1483	3080	5100
Tractor required power, hp	80	130-170	160-200	250-300	350-450
Ridgeness of field surface, cm	max. 2	max. 2	max. 2	max. 2	max. 2
Undercutting of weeds roots, %	> 99	> 99	> 99	> 99	> 99

● Optimal position of the centre of gravity is achieved by simple rearrangement of axis for depth limiter and by forward displacement of concave discs assembly with ribbed roller for unit transportation purposes.



● Special design of doubled roller provides intensive soil crumbling and its optimal reverse packing, thereby the best germination of seeds fall and weeds is provided.

● In-built contour following system ensures high quality of tillage even on fields with rugged relief.



● The cultivator construction is adapted to almost all working elements, both of import and home manufacture, thereby it is significantly facilitate their replacement when required.

● Stubble cultivators have vivid advantages over the disc implements with a rigid tine: better tillage quality on average- and light-textured soils with small crushed plant residues as well as no soil packing by working elements.



AGRICULTURAL MACHINERY



LIRA
Hydraulic Spring-Tooth Wide Level Harrows



REAL
Units for Spreading of Plant Protecting Agents and Liquid Mineral Fertilizers



DUCAT
Compact Disc Harrows



SHILLING
Stubble Cultivators



THALER
System Carriers



CROWN
No-Till Units



POUND
Land Rollers



CHERVONETS
Seedbed Cultivators



ZLATNIK
No-Till Seed Drills

SPARE PARTS FOR AGRICULTURAL MACHINERY

A wide range of spare parts for the whole product line of machinery manufactured by LKMZ is always available in stock:

- spring teeth
- bearing units
- discs and working elements
- rubber components for the Real sprayer
- tines and coulters
- and other consumables

BEARINGS FOR AGRICULTURAL MACHINERY

Bearings and bearing units manufactured by the Kharkov Bearing Plant (HARP)

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