ADVANTAGES OF THE SWIFT DRAG HARROW

Drag harrows are perfect tools for early spring tillage after autumn ploughing. But is this piece of machinery really that perfect? Let's have a closer look.

12 - 18 m

from 135 HP

up to 15 km/h

WHAT FACTORS AFFECT PRODUCTIVITY OF LAND?

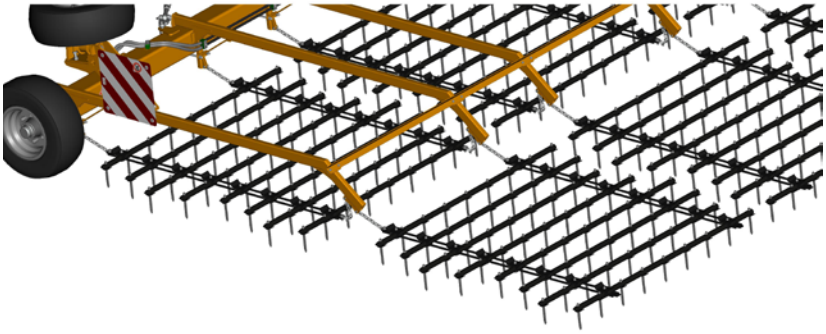
After the mouldboard ploughing, land "rests", absorbing moisture and oxygen during winter. In spring, after the snow cover has melted and the topsoil has dried and warmed up, it is time to sow spring and tilled crops.

However, it is impossible to sow when the soil is not prepared. The relief of the soil in this case is not levelled, and this will negatively affect the uniformity of the seeding depth, the vigour and uniformity of seedlings, and, ultimately, the crop yield. Furthermore, with the first spring warmth, the active development of weeds begins, and while the soil surface dries up, they go to the "white filament" phase. This is when they are the most fragile and defenceless against mechanical destruction.

Another factor that can negatively affect the yield of the sown crop at this point is the drying of the soil surface, accompanied by the formation of small cracks that eventually become more massive. Moisture accumulated by the soil during winter evaporates through such cracks. Moreover, the intensity of this process increases exponentially in time. The loss of moisture, therefore, undoubtedly leads to a decrease in yield.

WHAT MAIN OPERATIONS DOES SWIFT DRAG HARROW PERFORM IN A SINGLE PASS?

- Levelling the soil surface before sowing.
- Mechanically destroying weeds.
- Reducing the fractional composition of the soil surface prepared for sowing in order to keep moisture.



WHAT ARE THE FACTORS THAT ENSURE THE HIGH QUALITY OF WORK OF THE DRAG HARROW?

THE HIGH QUALITY OF WORK OF THE SWIFT DRAG HARROW IS ENSURED DUE TO

- small distance between the teeth of the drag in the frontal projection (“tooth field”), which is 57 mm
- the number of rows of teeth that follow each other (16 rows of the drag)
- high speed of tillage: up to 15 km/h.

IS IT POSSIBLE TO ADJUST THE TILLAGE DEPTH?

Two-position “rigid” adjustment of the tooth impact force on the soil surface allows you to adjust the tillage depth, depending on the state of the soil preparation.

IS THE DRAG HARROW SUITABLE FOR SURFACE TILLAGE OF «BLACK FALLOW» AFTER RAINFALL?

The drag harrow is a rather versatile piece of machinery. It is successfully used for surface tillage of "black fallow" after rainfall in spring and summer. In this case, the tillage with drags, which is carried out in order to preserve moisture by loosening and levelling the surface of the field, gives excellent results.

IS IT FEASIBLE TO USE THE DRAG HARROW FOLLOWING POST-HARVEST TREATMENT OF THE FIELD?

Drag harrows can be successfully used to optimize the soil structure following post-harvest treatment of the field (stubble disking or deep loosening). Moreover, crop residues are effectively redistributed over the field surface, which also favourably affects the quality of subsequent agricultural operations. In addition, drag harrows are successfully used for embedding mineral fertilizers after spreader-tractor units.

ARE THE DRAG HARROWS COMMONLY USED?

DRAG HARROWS HAVE A WIDE RANGE OF APPLICATIONS:

- pre-sowing preparation;
- destruction of the soil crust;
- moisture closure;
- levelling field surface after ploughing;
- destruction of weed seedlings;
- embedding mineral fertilizers, soil herbicides or green manure seeds;
- uniform distribution of crop residues with their partial embedding.

WHAT IS THE ADVANTAGE OF TILLAGE WITH THE DRAG HARROW WHEN COMPARED WITH PRE-SOWING CULTIVATION?

With a large working width, tillage with the drag harrow is less energy-intensive than pre-sowing cultivation.

	SWIFT-15 DRAG HARROW	STANDARD PRE-SOWING CULTIVATOR
Required tractor power, HP	160...200	160...200
Working width, m	14.26	8
Working speed, km/h	8...15	10...15
Capacity, ha per hour, not more than	17.5	11.4
Specific fuel consumption during the main operation, L/ha, not more than	3	7.5

That is, with a lower specific fuel consumption with the help of the drag harrow, farmers have the opportunity to complete early spring tillage more quickly in less time. The economic benefit is unambiguous and clear in this case.

ALL THIS, TOGETHER WITH HIGH PERFORMANCE, SIMPLICITY AND RELIABILITY, MAKES THE SWIFT DRAG HARROW A VERY USEFUL UNIT FOR YOUR FARM!

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