

# DUCAT

COMPACT DISC HARROWS

# DUCAT GOLD

HEAVY DISC HARROW



**LOZOVA  
MACHINERY**

***MAKE YOUR MONEY WORK!***



**DUCAT**  
RESULT IN ONE PASS



Over ten years the DUCAT range has been expanded to a dozen of harrows with working width from 2,5 to 12 meters (from 8' to 40').

DUCAT disc harrow is the most suitable for stubble cultivation. It provides intensive mixing of the soil and vegetation at a depth up to 14 cm (5.5").

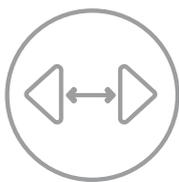
They are applied for:

- stubble cultivation;
- mulching;
- shallow and surface basic cultivation;
- seedbed preparation.

The design of the working bodies provides high-quality seedbed preparation. This, in turn, significantly expands the scope of the short disc harrow in agriculture and increases its annual load and economic efficiency.



TRADITIONAL  
and ORGANIC



2,5 - 12 m  
8' - 40' ft



min 80 hp



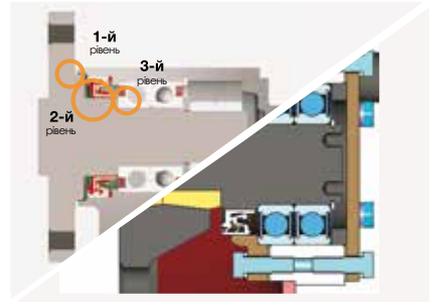
min 20 ha/h  
up to 50 acre/h



3D spring tine



Premium class discs



"ZERO MAINTENANCE"

3D spring tine provides:

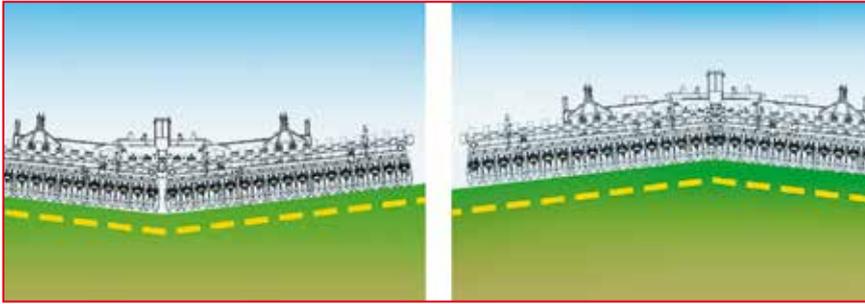
- reducing of the implement draught and fuel consumption by over 20%;
- uniform cultivation depth as the harrow doesn't raise when one of the discs hits an obstacle;
- disc self-cleaning which ensures efficient operation on the wet soil.

- Discs are made of high-quality hardened boron steel and have longer service life (work two times longer than analogues).
- Discs spacing of 125 mm and low frequency lateral tine vibrations provide a seedbed even by depth and without deep furrows.
- Working tools attack angle is 20°.
- Soil entry angle is 12°.

A distinctive feature of LOZOVA MACHINERY equipment is the principle "ZERO MAINTENANCE", which means that the equipment does not need lubrication / re-lubrication and other types of standard maintenance throughout its entire life cycle.

Ducat is equipped with ultra-reliable HARP AGRO UNIT bearing units with three-level bearing protection. These units are installed both on the disc stands and on the roller.





High-quality contours following for perfect cultivation



Roller maintenance-free bearing unit

Application of the different following systems with uniform distribution of loads on the working elements allows for the efficient operation on fields with complex contours.

Design of the DUCAT provides precise depth control and good levelling.

Bearing unit of the roller is maintenance-free for entire service life due to high-quality cassette sealings and HARP-AGRO fully sealed bearings. Roller axles are mounted on the cage by the rubber buffers, which additionally reduce absorbed loads of the bearing unit.



## MODULES FOR APPLYING GRANULAR FERTILIZERS AND OVERSEEDING



DUCAT disc harrow can be equipped with an additional module that allows you to apply granular fertilizers, as well as use it for overseeding (for example, green manure) in one pass with the main processing.

- powerful fan with 12V drive
- infinitely variable compressor
- tanks of various capacities (120, 240, 500 l)

### TECHNICAL DATA

	DUCAT-2,5	DUCAT-3	DUCAT-4	DUCAT-4M	DUCAT-5	DUCAT-6	DUCAT-8	DUCAT-9	DUCAT-12
Working width, m; ft	2,5/8'	3/9'	4/13'	4/13'	5,25/17'	6,25/20.5'	8,25/27'	9,25/30'	12,25/40'
Tractor power, hp	min 80	min 100	min 130	min 130	min 150	min 170	min 250	min 300	min 350
Coupling with tractor	mounted				semi-mounted		semi-trailed		
Basic weight, kg; lbs	1050	1400	1600	2300	3820	4572	8285	8859	10348
Number of discs	20	24	32	32	42	50	66	74	98
Disc diameter, mm; inch	566/22"								
Overload protection	3D-protection								
Operating depth, cm; inch	3–12/1.2"-5"				3–14/1.2"-5.5"				
Operating speed, km/h; mph	10–17/6-10								
Efficiency, ha/h	max 3,4	max 4,1	max 5,5	max 5,5	max 6,7	max 8	max 10,5	max 11,8	max 15,6
Fuel consumption, l/ha; gal/ac	321"x118"x157"4,5–5,5/0.5-0.6								
Transport dimensions (length x width x height), mm; inch	2456 x 2691 x 1450 96"x 106"x 58"	2456 x 3000 x 2000 96"x 118"x 79"	2456 x 4190 x 1550 96"x 165"x 61"	2839 x 3000 x 2371 111"x 118"x 93"	5832 x 3000 x 3205 229"x 118"x 126"	5832x 3000 x 3746 229"x 118"x 147"	6832 x 3000 x 3330 269"x 118"x 131"	7332 x 3000 x 3330 288"x 118"x 131"	8832x 3000 x 3330 347"x 118"x 131"

## WIDE VARIETY OF ROLLERS

For optimal packing, DUCAT can be equipped with rollers of various types:

Cage roller



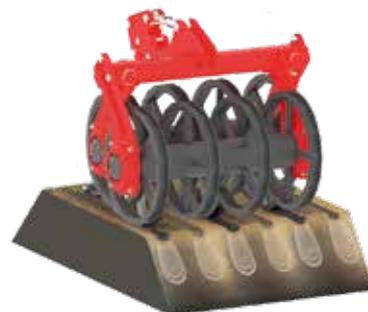
For all types of soil

Packing tooth roller



For dry soils of all types

Double U roller



For all types of soil with big amount of crop residues

Rubber roller



For seedbed preparation

Pack ring roller



For wet soils of all types





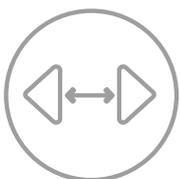
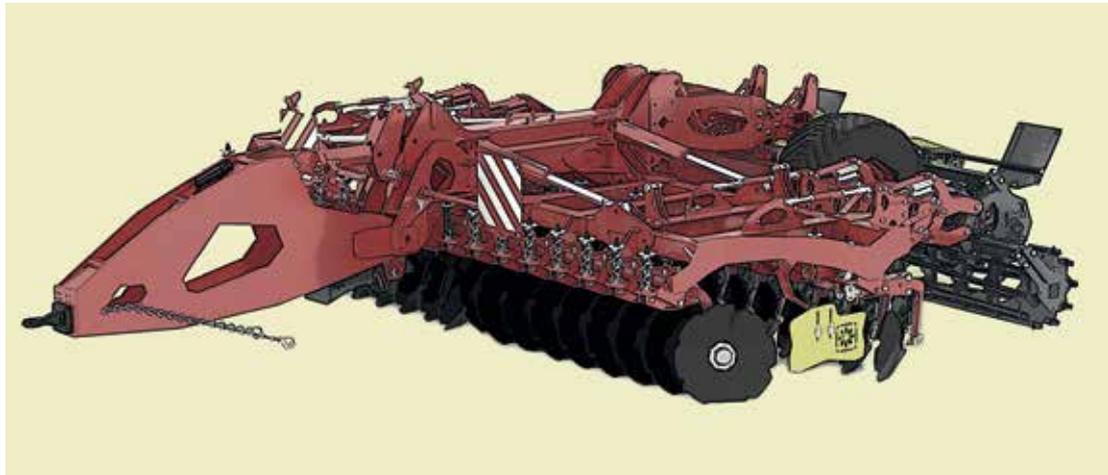
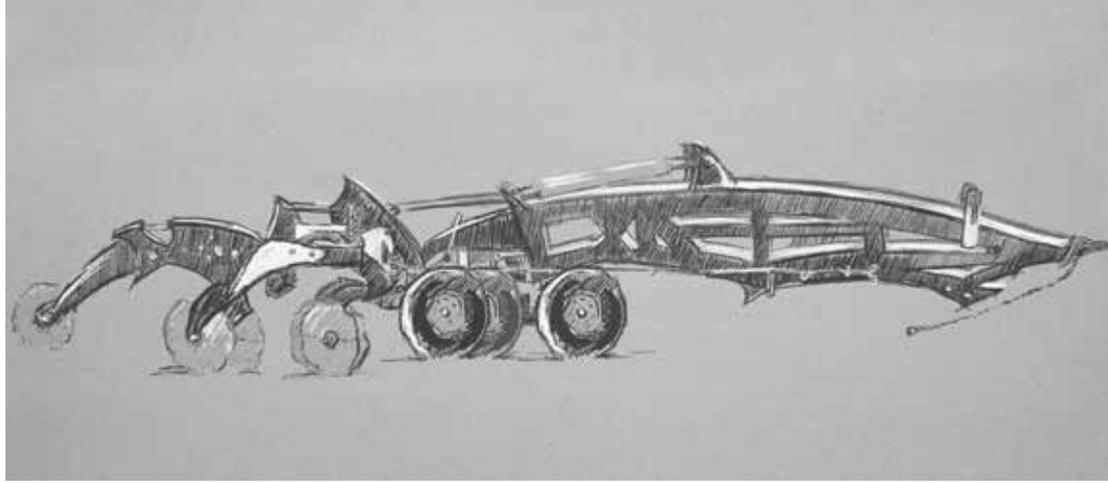
# DUCAT GOLD





# DUCAT GOLD

GOLD STANDARD OF DISC HARROWING



6 - 8 m  
20' - 26' ft



min 300 hp



min 10,2 ha/h  
min 2,47 acre/h



724 mm  
28" inch



New bigger discs

Diameter of discs is 724 mm. They cope with any stubble remains at depth up to 20 cm.



Tines with discs

Tines are made of high quality steel and endure high loads on dry soil. Attack angle of discs is  $20^{\circ}$ , while the angle to the movement direction is  $12^{\circ}$ .

This provides rapid discs penetration into the soil and uniform tillage, as well as an optimal combination of chopping and mixing of the soil with crop residues.



Protection of tines

Double spring creates an optimal pressure on the tine, which keeps working depth when destroying remains of rough crops, and protects it from overloads





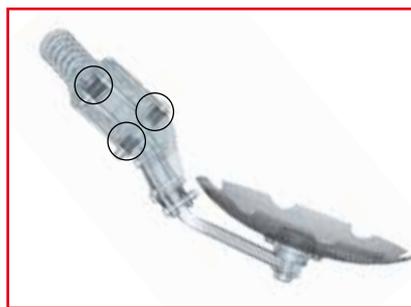
Hydraulic protection

DUCAT GOLD has a hydraulic lock for safe transportation of folded machine, which is activated by the tractor's hydraulic system.



Smooth run and thorough work

Heavy disc harrow is equipped with a balance drive system, which provides a smooth run during work and transportation on public roads and cross country.



"ZERO MAINTENANCE"

DUCAT GOLD is equipped with ultra-reliable HARPAGRO UNIT bearing units with three-level bearing protection. These units are installed both on the disc stands and on the roller.

Modern plain bearings (installed at three points) are used in the design of the stands. They are used to eliminate additional lubrication points and increase the interval of work without maintenance.

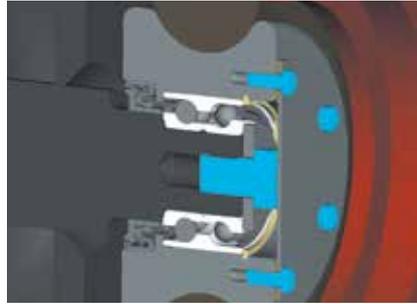




HARP AGRO UNIT

Special bearing units have been developed for DUCAT GOLD (from HARP AGRO UNIT series, which are widely used in agriculture machines and provide failure-free operation for a long term).

Bearing units have enhanced durability due to superreliable three-level protection of bearings, which, in turn, don't require additional lubrication.



Reliable bearings of roller

Roller is equipped with a special maintenance-free bearing unit HARP AGRO UNIT.

There is an addition rubber ring around the bearing which prevents axial misalignments and absorbs shock loads. The X-SHIELD sealing protects bearing from moisture and dirt.



Maintenance-free tines

Tines are equipped with plain bearings, so there is no additional lubrication points, and maintenance-free period is increased.

Plain bearings are durable and designed for medium and heavy loads at small speeds and high vibration level. Bearings are mounted on three points of the tine and distinguished with low friction rate, good wear resistance and shock absorbing.



## MODULES FOR APPLYING GRANULAR FERTILIZERS AND OVERSEEDING



The DUCAT GOLD heavy disc harrow can be equipped with an additional module that allows you to apply granular fertilizers, as well as use for overseeding (for example, green manure) in one pass with the main processing.

- powerful fan with 12V drive
- infinitely variable compressor
- tanks of various capacities (120, 240, 500 l)

### TECHNICAL DATA

	DUCAT GOLD-6	DUCAT GOLD-8
Working width, m; ft	6/20'	8/26'
Tractor power, hp	min 300	min 400
Coupling with tractor	semi-trailed	semi-trailed
Weight, kg; lbs	10 705/23.600	13 459/29.672
Number of discs, pcs.	38	50
Disc with big diameter, mm; inch	724/28"	724/28"
Load per disc, kg; lbs	280/617	270/595
Heavy tine	spring block	spring block
Operation depth, cm; inch	5-20/2'-8"	5 - 20/2'-8"
Operation speed, km/h; mph	10-17/6-10	10-17/6-10
Efficiency, ha/h; acre/h	max 7,65	max 10,2/2.47
Fuel consumption, l/ha; gal/ac	9/0.96	9/0.96
Transport dimensions (length x width x height), mm; inch	8151 x 3000 x 4000 321"x118"x157"	7500 x 3970 x 4000 321"x156"x157"