

# DUCAT

COMPACT DISC HARROWS

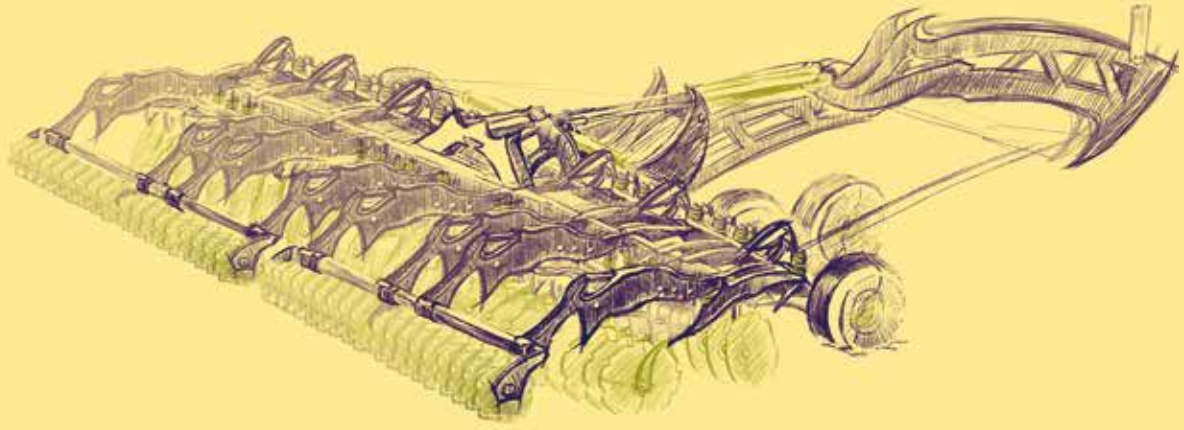
**10** DUCAT  
YEARS



 **LOZOVA  
MACHINERY**

***MONEY WORKS!***





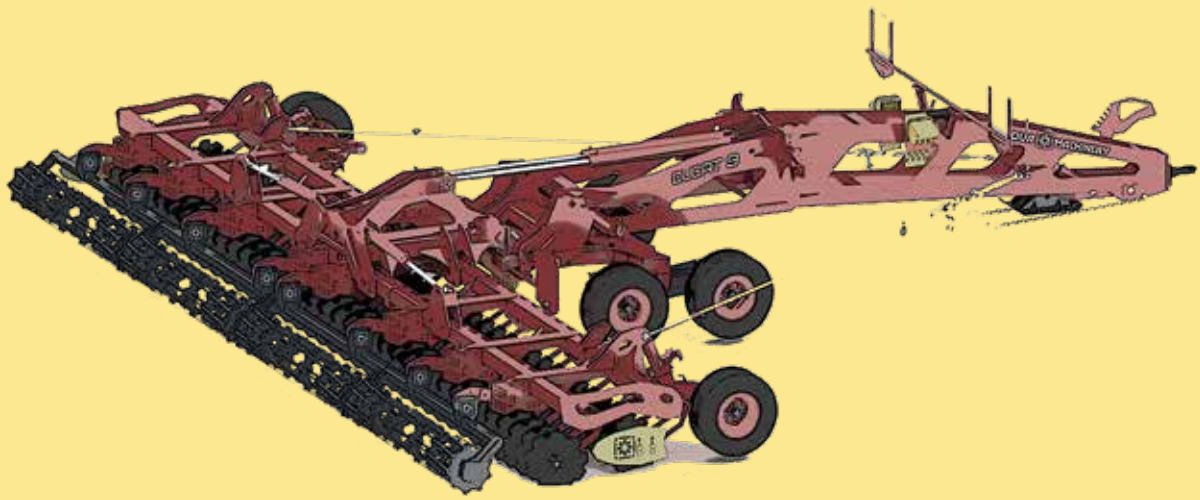
**10** DUCAT  
YEARS



DUCAT  
RESULT IN ONE PASS



TRADITIONAL  
and ORGANIC



## EFFECTIVE MACHINERY FOR EFFECTIVE FARMING

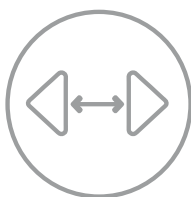
In 2019 LOZOVA MACHINERY celebrates its 10th anniversary since production of the very first compact disc harrow DUCAT, which was in summer 2009.

Over ten years the DUCAT range has been expanded to a dozen of harrows with working width from 2,5 to 16,75 meters.

Today, the harrow has not only robust design, but fresh and modern look.

*“We have improved technical features by providing DUCAT-9 with principally new folding system and hydraulic mechanism, and, in addition, implemented new design which embodies new ideology of LOZOVA MACHINERY. This is a brand new interpretation of our implements realized both in the colors and shape: effective machinery for effective farming”.*

Roman Girshfeld, President of LOZOVA MACHINERY



2,5 - 16,75 m



from 80 hp



up to 20 ha/h





Advantages of 3D spring tine

The DUCAT 3D spring tine provides the following advantages:

- 20% reduce of the implement draught and fuel consumption;
- 3D-protection of the bearing unit when hitting any obstacles, which prevents damage of discs, bearings, tines and frame;
- 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.

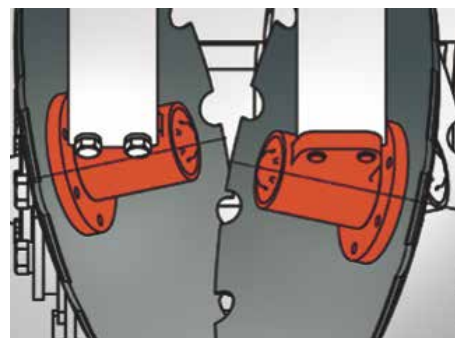
Working tools attack angle is  $20^{\circ}$ .  
Entry angle is  $12^{\circ}$ .



Premium class discs

Discs with diameter of 566 mm are made of high-quality hardened boron steel (Bellota, OFAS) and have almost in two times longer service life than discs made of steel 65 Mn (65G – GOST).

Discs spacing of 125 mm and low-frequency lateral tine vibrations provide cultivated seedbed, even by depth and without deep furrows.

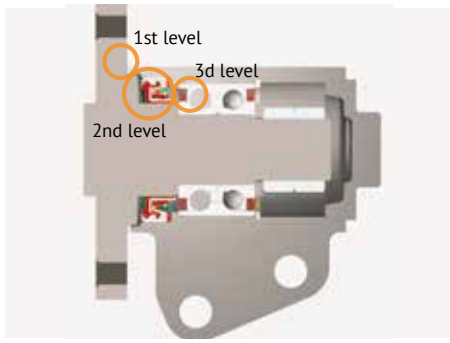


Furrow problem is solved

Due to mounting of the bearing unit on the other side of the tine, the problem of furrow after the outer disc is solved (additional parts are not necessary).







**Superreliable three-level bearing protection**

DUCAT disc harrows are equipped with original superreliable bearing units. HARP AGRO UNIT is a maintenance-free bearing unit, optimized for application in agricultural machinery.

HARP AGRO UNIT has three-level protection (labyrinth cutter; high-quality cassette sealing; integrated reinforced lip-type sealing).



**Maintenance-free bearings**

Fully sealed bearing with high-quality Chevron grease, which does not require additional lubrication for the entire life cycle.

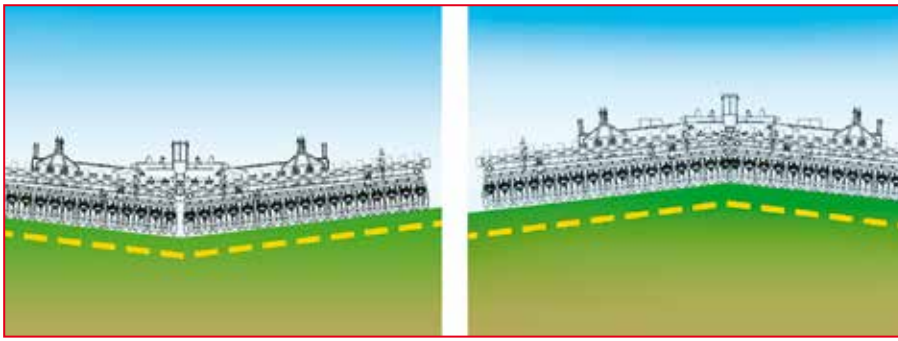


**High strength bearing unit**

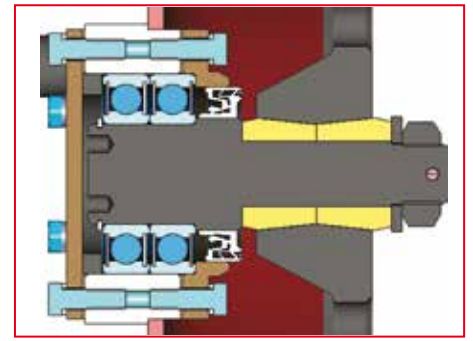
Massive forged housing provides high durability and reliability of the unit, as well as maximum stability under all operating conditions.

Bearing is located along the pull line, which reduces its absorbed loads.





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 efficiently operating 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 means of rubber buffers, which additionally reduce absorbed loads of the bearing unit.

### TECHNICAL DATA

TECHNICAL DATA	DUCAT-2,5	DUCAT-3	DUCAT-4	DUCAT-5	DUCAT-6	THALER-8 + 2 pcs. of DUCAT-4	NEW			
							DUCAT-9	DUCAT-12	DUCAT-16	
Working width, m	2,5	3	4	5,25	6,25	8,25	9,25	12,25	16,75	
Tractor power, hp	min 80	min 100	min 130	min 150	min 170	min 250	min 320	min 350	min 450	
Coupling with tractor	mounted			semi-mounted			semi-trailed		trailed	
Basic weight, kg	1040	1330	1600	3613	4482	6006	9431	9910	13380	
Number of discs	20	24	32	42	50	66	74	98	134	
Disc diameter, mm	566									
Overload protection	3D-protection									
Operating depth, cm	3–12			3–14			3–12		3–14	
Operating speed, km/h	10–17						3–14			
Efficiency, ha/h	max 3,09	max 3,70	max 4,95	max 6,49	max 7,73	max 10,30	max 11,6	max 15,29	max 20,29	
Fuel consumption, l/ha	4,5–5,5									
Transport dimensions (length x width x height), mm	2456 x 2691 x 1450	2456 x 3000 x 2000	2456 x 4190 x 1550	5789 x 3000 x 3210	5780 x 3000 x 3751	5630 x 3086 x 3723	7368 x 3000 x 3334	8497 x 3000 x 3636	18944 x 3960 x 4095	

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

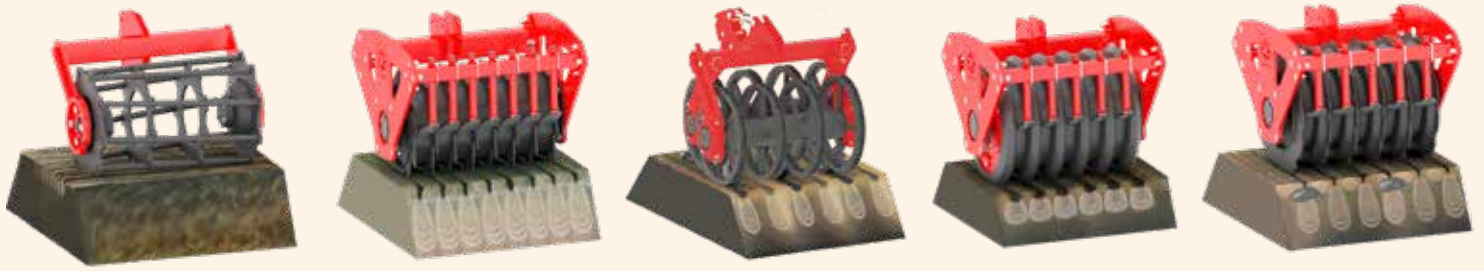
Cage roller

Packing tooth roller

Double U roller

Rubber roller

Pack ring roller



## CREATE OPTIMAL CONDITIONS FOR SOIL COMPACTING!

		Cage roller	Packing tooth roller	Double U roller	Rubber roller	Pack ring roller
LIGHT SOILS	Crumbling	+	++	+	+	++
	Reverse compacting	+	++	+	++	+++
	Soil bearing capacity	++	+++	+++	+++	+++
	Resistance to stones	+	+++	+++	++	+++
	Resistance to clogging	++	+++	+	++	+++
	Low level of clogging	++	+++	+++	+++	+++
HEAVY SOILS	Crumbling	++	++	++	++	++
	Reverse compacting	+	++	++	+++	+++
	Soil bearing capacity	+	+++	+++	+++	+++
	Resistance to stones	+	+++	+++	++	+++
	Resistance to clogging	++	+++	+++	++	+++
	Low level of clogging	++	+++	+++	+++	+++
MEDIUM SOILS	Crumbling	++	++	++	++	++
	Reverse compacting	+	++	++	+++	+++
	Soil bearing capacity	-	++	++	++	++
	Resistance to stones	+	+++	+++	++	+++
	Resistance to clogging	++	+++	+++	++	+++
	Low level of clogging	++	+++	+++	+++	+++

+++ perfectly suitable

++ optimally suitable

+ suitable

- not suitable