

# IRON BALTIC

## DISC CULTIVATOR

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USER MANUAL



[code.ironbaltic.com/u/cCuXr7RZ](https://code.ironbaltic.com/u/cCuXr7RZ)

Code 51.1000

Version 15012024



**Keep this manual for future reference!**

If you need any spare parts, please send this packaging data to your local dealer or to Iron Baltic  
[sales@ironbaltic.com](mailto:sales@ironbaltic.com)



# CONTENTS

EC DECLARATION OF CONFORMITY .....	5
INTRODUCTION.....	6
SAFETY INSTRUCTIONS.....	7
SAFETY LABELS.....	8
PRODUCT DESCRIPTION .....	9
USER GUIDE .....	9
MAINTENANCE .....	10
FITTING INSTRUCTIONS.....	11
SPECIFICATION .....	14



Iron Baltic OÜ



# EC DECLARATION OF CONFORMITY

Manufactured by: Iron Baltic OÜ  
Address: Põldmäe tee 1, Vatsla 76915  
Product: **Disc Cultivator**  
Type: **Flip over**  
Model: **51.1000**

Hereby we confirm that this product is in conformity with the requirements of Directive **2006/42/EC**, applicable to the safety and functionality of machinery, regarding the replaceable equipment and it is in compliance with the standard **EN12100** Safety of machinery – General principles for design – Risk assessment and risk reduction.

In witness whereof CE marking is attached to the product.

Place and date of issue of the declaration: 01.08.2019

A handwritten signature in black ink, appearing to be "Tiit Norak".

.....  
Tiit Norak  
Member of the Board

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# INTRODUCTION

Thank you for choosing Iron Baltic product. This manual contains the technical details of the flip over disc cultivator and instructions how to assemble, operate and maintain the product safely. Unnecessary use of the product can result economic damage and personal injury, so it is very important that the person who using the product read and use this manual in accordance with the requirements. Any misuse of the product will release the manufacturer from liability for any damage or expense incurred.

**NOTE:** Photos and drawings in this manual may not necessarily depict the actual models of products or their accessories. They are merely given as a frame of reference and are based on the latest available information at the time of publication.



**This symbol is used throughout the manual and on warning signs in order to warn users of the potential for serious injury. Before using the vehicle and disc cultivator, carefully read the safety instructions and make sure that you have understood them. Follow all instructions and ensure that everyone who uses the equipment follows them!**

**Keep this manual for future reference.**

**Based on the specifications for your model, please check that you have received all of the parts for your particular set**

# SAFETY INSTRUCTIONS

Most accidents occur due to negligence or carelessness. Avoid unnecessary accidents and follow the safety instructions given below.

## TRAINING

1. Read thoroughly the safety instructions and terms of use.
2. Never allow children to operate the vehicle or disc cultivator. Never allow adult persons to operate the vehicle or the product if they have not received the proper training
3. Neither the vehicle nor the disc cultivator can be used while drunk or under the influence of drugs that affect perception or reaction.
4. Do not allow bystanders, children or animals into the work zone.



## PROHIBITED ACTIONS

- Never operate the disc cultivator on overly steep slopes.
- Never operate the disc cultivator without all the protective parts properly installed.
- Do not operate the disc cultivator before you have carefully read the whole operation manual.
- Never drive faster than 10km/h, or what the vehicle manufacturer recommends (the lower speed must be observed).
- Never carry any passenger on the disc cultivator.

## MANDATORY ACTIONS

- Follow all the instructions of the ATV manufacturer.
- Always use proper protective equipment (helmet etc.) when using the vehicle.
- Make sure that bystanders are moved to a safe distance when operating the device.
- Make sure that all of the safety stickers are in good condition. Replace damaged stickers as required.
- Reduce the speed of the ATV when working on a hillside or uneven terrain.
- Be careful when braking.
- The safe road-steadiness of the vehicle must always be ensured by using the correct accessories for the task in hand (chains, counterbalances, etc).
- Always check that all components are properly installed.
- Always remain clear of moving parts and joints.
- Check and tighten the bolts after the first working hour and then after every ten working hours.
- Apply grease through grease nipple on the disc shaft after every 25 working hours or 4 times a year.



**IF SOMETHING HAPPENS DURING THE WORK THAT COULD DAMAGE THE PRODUCT, AN INSPECTION OF THE DEVICE MUST BE CARRIED OUT TO IDENTIFY POSSIBLE DAMAGE. DAMAGE (CRACKS IN CONSTRUCTION OR WELDS, DEFORMED PARTS) CAN ENDANGER PROPERTY AND HUMAN HEALTH. THE DEVICE MUST NOT BE USED BEFORE THE DAMAGE IS REMOVED.**



**MAKE SURE THAT THE DISC CULTIVATOR IS IN PERFECT WORKING CONDITION AND THAT THE TOWING COUPLING HEAD IS PROPERLY ATTACHED TO THE ATV HITCH BALL.**

# SAFETY LABELS

The safety labels shall be present on your disc cultivator. If any of those labels is absent or gets damaged, contact your dealer in order to install new labels in place of the absent ones before operating the machine.

## Meaning of safety labels

	Read the manual before use!
	Maximum permitted speed 10 km / h!
	It is forbidden to drive slopes over 10°!
	Make sure that all bystanders are at a safe distance while working with the disc cultivator!  Risk of collision!
	Avoid getting your hands and feet between moving parts!
	Make sure that all bystanders are at a safe distance while working with the disc cultivator!  Risk of flying objects!

# PRODUCT DESCRIPTION

The Iron Baltic flip over disc cultivator is a simple, durable and easy to use agricultural device designed to use with ATVs and UTVs but can also be towed with a small tractor or any other vehicle equipped with a 50 mm / 2" hitch ball.

The flip over disc cultivator is capable enough for small and medium scale farming and is recommended for commercial food plot farms, large gardens, row cultivation, and yard prep work. Due to its light weight and small size it also well suited for wet or boggy ground and for tighter spaces, where larger equipment might struggle.

The flip over disc is equipped with notched discs that can cut through hard patches of soil, turf, and furrows. In this way, the soil is loosened, grass and weeds are crushed and previous harvest residues are mixed with the soil to prepare the ground for new sowing or planting. Ballast weight can be added to a frame for greater digging depth.

The flip over disc's simple design means it can be easily changed from the transport position to working position by simply flipping it over.

## Standard equipment :

- Flip over disc cultivator

Product	Flip over disc cultivator
Model	51.1000
Dimensions	1600 mm x 1500 mm x 530 mm
Working width	1500 mm
Working depth	150 – 180 mm
Disc diameter	460 mm
Cutting angle	20°
Weight	186 kg
Tires	4,8 / 4,0 - 8

Table 1: Flip over disc cultivator technical data

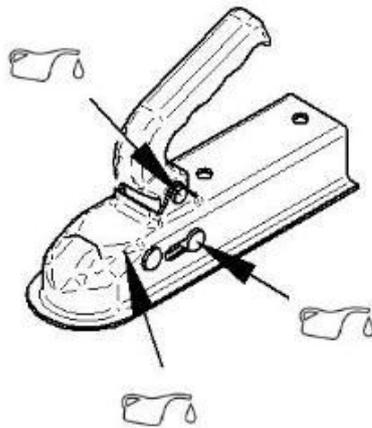
# USER GUIDE

- Read the safety instructions before driving!
- Check tow coupling connection to the tow beam before ride.
- Before ride, check is the towing coupling securely connected with tow ball (check the indicator on tow coupling)
- Before ride, check tire condition and pressure (the exact tire pressure is marked on the side of the tire). If needed change the tires. Use only tires specified by the manufacturer.
- The highest speed is 10km/h, or what the vehicle manufacturer recommends (the lower speed must be observed).
- To adjust the disc cultivator to working position, turn it over, remove tow beam pin, turn the tow beam and secure with pin.

# MAINTENANCE

Maintenance activity:	Before and after work	Weekly	Monthly	Seasonally
Clean the disc cultivator	•	•	•	•
Tire pressure, wheel bolts, tow coupling connection check	•	•	•	•
Visual inspection of parts fastening	•	•	•	•
Checking the condition of all connecting parts		•	•	•
Inspection of safety labels		•	•	•
Lubricate the tow coupling			•	•
Checking the wear rate of metal parts			•	•

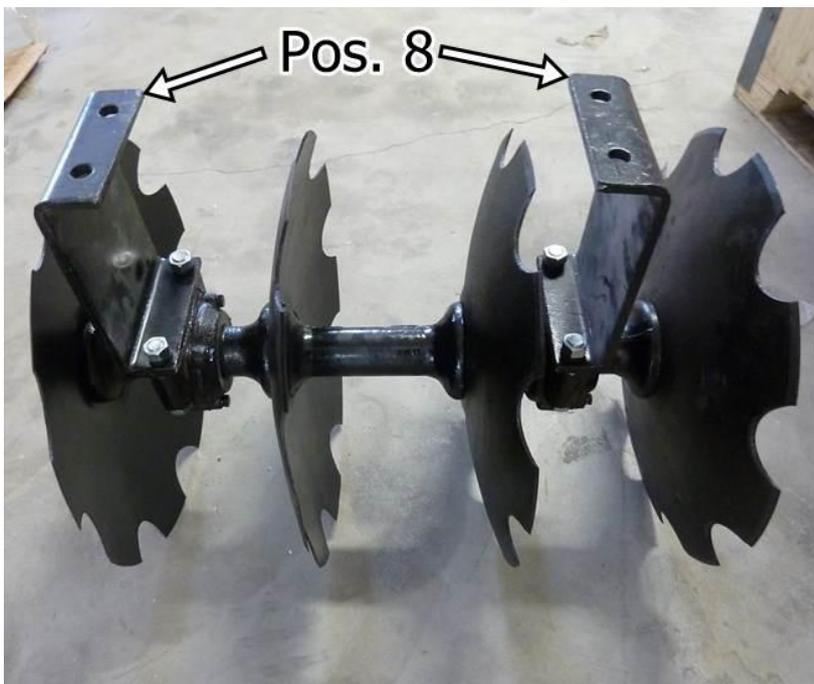
- Always wash the flip over disc cultivator after use.
- Only change disc cultivator tire or discs on flat and hard surface.
- If the tow coupling moves difficultly, add oil to places showde on the diagramm or contact manufacturer or licenced reseller.



# FITTING INSTRUCTIONS

## Step 1

Assemble disc cultivator discs.



**Step 2** Install wheels to the frame.



**Step 3** Install tow coupling to the tow beam.



**Step 4** Mount the tow beam to the frame and secure with pin. Turn the frame over onto wheels for installing the discs



## Step 5

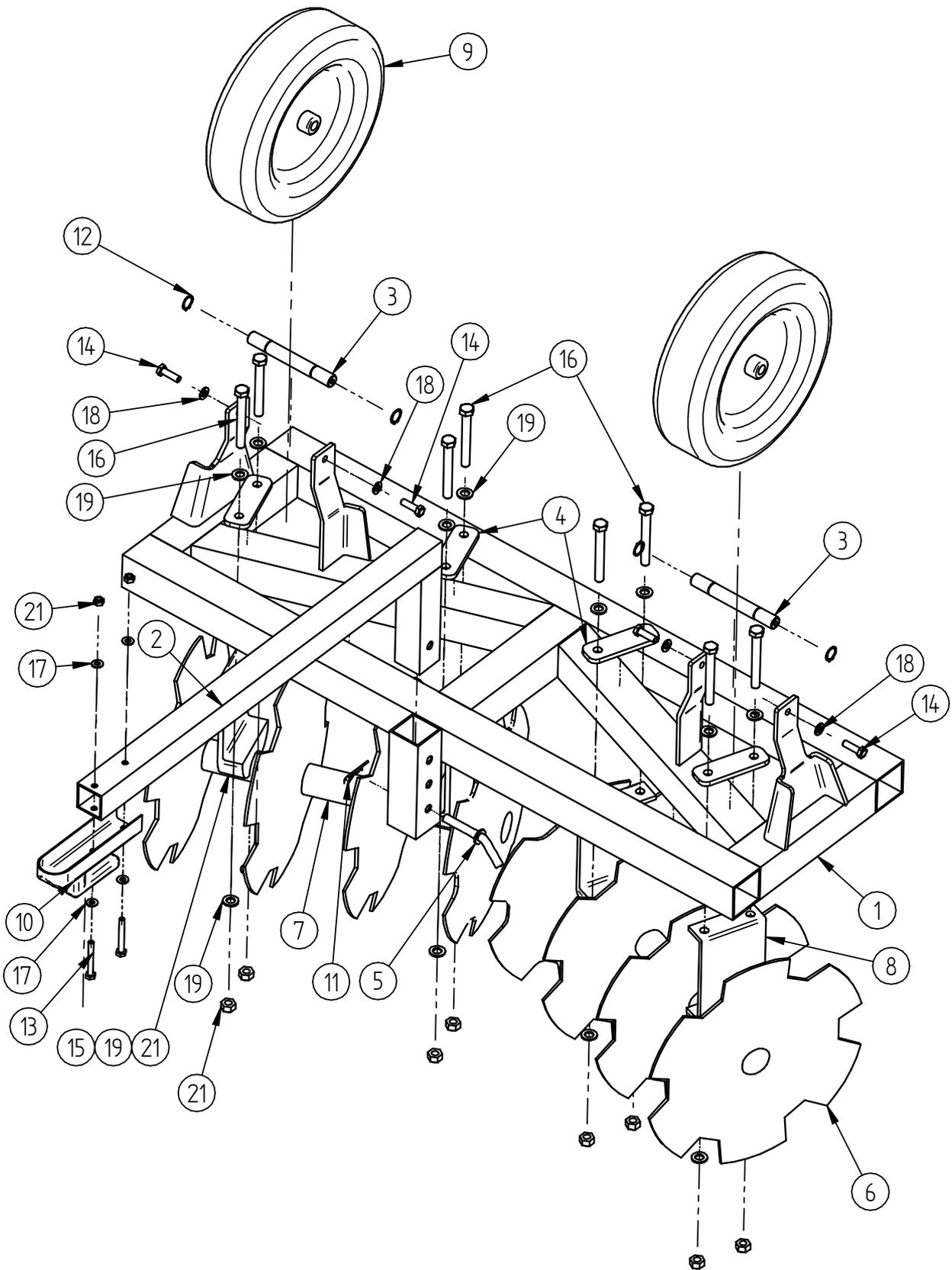
**NB! With this step it's recommended to proceed with two people, to prevent injuries to people and to the disc cultivator, because the assembled cultivator discs are very heavy.**

Lift the cultivator discs on the frame and secure with bolts/plates. Nut side of the disc assembly should face outside. Adjust the distance between two disc assemblies as close as possible.



# SPECIFICATION

Pos.	Description	Code	Amount
1	Cultivator frame	51.001K	1
2	Tow beam	51.005K	1
3	Wheel shaft	51.009	2
4	Fixing plate	51.010	4
5	Pin	15.1403	1
6	Cultivator discs	OT.26.00.010	8
7	Shaft for discs		2
8	Support plate	51.013	4
9	Wheel 4.80/4.00-8	OT.26.00.020	2
10	Tow coupling 60mm	OT.10.02.020	1
11	Cotterpin 3mm DIN11024	OT.07.01.020	1
12	Spring clip 25mm DIN471	OT.26.00.030	4
13	Bolt M10x80 DIN931	OT.02.01.048	2
14	Bolt M12x40 DIN933	OT.02.02.410	4
15	Bolt M16x100 DIN931	OT.02.01.150	8
16	Bolt M16x130 DIN931	OT.02.01.160	8
17	Washer M10 DIN125	OT.04.01.040	4
18	Washer M12 DIN125	OT.04.01.050	4
19	Washer M16 DIN125	OT.04.01.060	32
20	Nyloc nut M10 DIN985	OT.03.02.050	2
21	Nyloc nut M16 DIN985	OT.03.02.070	16



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