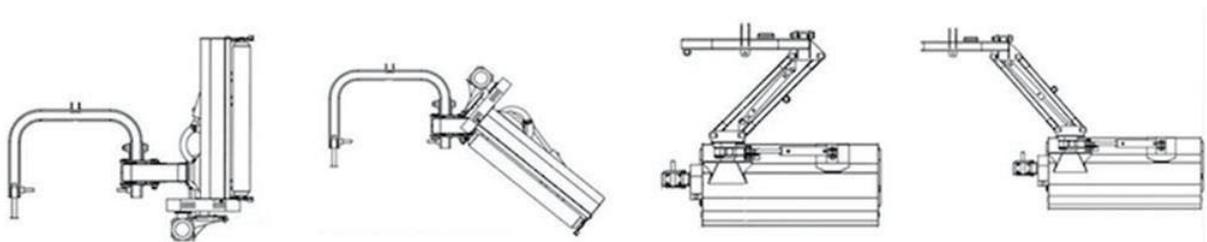


# Flail Mower

# User Manual

Original manual  
Model BCRI



**Model BCRI**

ALWAYS READ INSTRUCTIONS BEFORE USING THE MACHINE

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## Important safety information

### Safety at all times

Read and understand the instructions in this manual before operating the machine. See "Safety Labels" and read all instructions on this.

Do not allow anyone to operate this machine who has not fully read and understood this manual and who has not been properly trained in the safe operation of the machine.

- The operator should be familiar with all functions of the flail mower.
- Only operate the flail mower from the driver's seat.
- Make sure all guards and shields are in place and secured before operating the flail mower.
- Do not leave the tractor and flail mower unattended when the engine is running.
- Disengaging the flail mower while the tractor is running can cause serious injury or death.
- You must not stand between the tractor and the flail mower during coupling.
- Keep hands, feet and clothing away from motorized parts.
- Wear close-fitting clothing that cannot get caught in moving parts.
- Watch out for wires, trees, etc. when the flail mower is raised. Ensure that all persons are clear of the work area.
- If you are driving a tractor that is too light, make sure that the tractor cannot tip, which could cause damage.

### Look out for the warning triangle

The warning triangle indicates that there is a potential danger to personal safety and extra safety precautions must be taken. When you see this symbol, pay attention and carefully read the message that follows it. In addition to equipment design and configuration, risk management and accident prevention, one relies on the awareness, concern, caution and proper training of personnel involved in the operation, transport, maintenance and storage of the flail mower.

### be observant

A signal word denotes a degree or level of a risk. The signal words are:



**DANGER**, Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury. This signal word is limited to the most extreme situations, typically for machine components that are not protected.



**WARNING**, Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury and includes hazards exposed when guards are removed. It is also used to warn against unsafe practices.



**CAUTION** Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate personal injury. It is also used to warn against unsafe practices.

**For your protection:**

- Read and understand the "Safety labels" section. Read all the instructions given on them.

**Shutdown and storage:**

- Lower the flail mower to the ground, set the tractor's parking brake, turn off the engine and take the ignition key.
- Place the machine in an area where children do not normally stay. Secure the machine by using various covers and supports.

**Use safety lights:**

- Slow tractors, self-propelled machines and towed implements can create danger when driving on public roads. They are difficult to see, especially at night.
- Flashing lights are recommended when driving on public roads. Use lights and parts supplied with the flail mower

**Safe transport:**

- Comply with state and local laws.
- Maximum transport speed for the flail mower is 20 km/h. Do not exceed this speed. Uneven terrain requires a lower speed.
- Sudden braking can cause a towed unit to spin. Reduce speed if the towed unit is not equipped with brakes.
- Follow the following maximum speed:

20 km/h when the load is less than or equal to the weight of the tractor. 10

km/h when the load is twice the weight of the tractor.

IMPORTANT: Do not tow a unit that is more than twice the weight of the tractor.

**Do not have passengers on the flail mower:**

- Passengers obstruct the operator's view. Passengers may be thrown from the flail mower.
- Never let children operate the flail mower.

**Safe maintenance:**

- Understand the procedure before doing the work. Use suitable tools and equipment. See operating instructions for further information.
- Work in a clean and dry area.
- Lower the machine to the ground, set the tractor's parking brake, turn off the engine, and remove the key before performing maintenance.
- Allow machine to cool completely before maintenance.
- Do not lubricate the machine with grease or oil while the machine is running.
- Inspect all parts. Make sure all parts are in good condition and properly installed.
- Remove excess grease, oil or dirt.
- Remove all tools and unused parts from the machine before operation.

**Preparing for emergencies:**

- Be prepared if a fire occurs.
- Have a first aid kit and fire extinguisher readily available.
- Have phone numbers for a doctor, ambulance, hospital and fire department nearby.

**Wear protective equipment:**

- Protective clothing must be worn.
- Wear clothes and equipment that are suitable for the job. Avoid loose clothing.
- Prolonged exposure to loud noise can cause hearing impairment or hearing loss.

Wear suitable hearing protection or earplugs.

- The flail mower must have your full attention without the controls. Avoid listening to the radio with headphones while driving.

**Avoid high-pressure fluids:**

- Escaping liquid under pressure can penetrate the skin and cause serious injury.
- Avoid this by relieving pressure before disconnecting hydraulic hoses.
- Use a piece of paper or cardboard, not body parts, to check for leaks. Wear protective gloves and safety glasses when working with hydraulic systems.
- If an accident occurs, seek medical attention immediately. Any liquid injected into the skin must be treated within a few hours or it may cause gangrene.

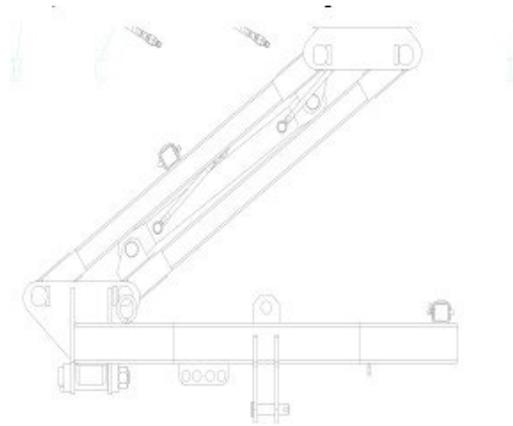
## Safety Labels

Your flail mower is equipped with safety labels. They are designed to help you operate your flail mower safely. Read and follow these instructions:

1. Keep all safety labels clean and legible.
2. Replace any damaged or missing labels. If you want to order new labels, go to your nearest dealer.
3. New parts installed during repair require new safety labels to be affixed as on the replaced parts.
4. Refer to this section for correct label placement.

### New labels on the flail mower:

- a. Clean the area where the label is to be placed.
- b. Spray soapy water on the surface where the label will be placed.
- c. Affix the label to the surface.
- d. Press out air bubbles.



**A**

**B**



C



D



E



## Introduction

This flail mower is designed with care and built by skilled workers using quality materials. Correct installation, maintenance and safe operating practices will give you many years of satisfactory use of the machine.

### **Specification:**

The flail mower is designed for category 1 - 3 point suspension or Quick-Hitch System. The flail mower is ideal for grass cutting on, outdoor arenas, construction sites and maintenance on farm and ranch tracks or roads.

### **Using this manual:**

- This manual is designed to familiarize you with safety, assembly, operation, adjustments, troubleshooting and maintenance. Read this guide and follow the recommendations to ensure efficient operation.
- The information in this guide was current at the time of printing. Some parts may change slightly to ensure you the best performance.
- If you want a new and updated manual, contact your dealer.

### **Definition :**

"Right" or "left", as used in this manual, is determined by turning in the direction the machine will work.

### **Definitions:**

**Note:** says something about you having to pay attention to something before continuing the work.

**Important:** Says something to the effect that you must pay particular attention before continuing the work.

### **Serial number plate:**

For fast service, always use the serial number and model number when ordering parts from the dealer.

## Section 1: Operating Instructions

NOTE: Always disengage PTO before raising flail mower in transport position.

1. When raising the flail mower to transport position, ensure that the PTO shaft does not come into contact with the tractor or flail mower. Adjust and set the tractor's 3-point suspension lift height so that the axle does not come into contact with the mower in the raised position.
2. Be sure to reduce the tractor's speed when turning, leave enough space so that the flail mower does not come into contact with obstacles such as buildings, trees or fences.
3. Maintain a safe driving speed when transporting. When driving on roads, make sure that faster moving vehicles can pass safely.
4. When driving over uneven or hilly terrain, shift the tractor to a lower gear.



CAUTION When driving on public roads, whether night or day, use lights and adequate warning to other vehicles. Comply with all federal, state and local laws.

### Cutting instructions:

1. Remove objects that may come into contact with the flail mower's blades.
2. Grass is best cut when it is dry. Cutting wet grass can cause clogging, resulting in clumps of grass behind the flail mower.
3. Grass must be cut often.
4. When mowing extremely tall grass, it is best to raise the mowing height and then mow it an extra time at a lower mowing height.

### Operating instructions:

Proper maintenance and adjustments are the key to a long machine life. With careful and systematic inspection of the flail mower, expensive maintenance, time and repairs can be avoided.

Before you start mowing, the following inspections must be carried out:

1. Check the oil level in the gearbox.
2. Check that all connectors in the gearbox have been replaced and tightened correctly.
3. Check that all flail mower blades, bolts and nuts are tight.
4. Be sure all guards and shields are in place and secure.
5. Lubricate the PTO shaft and all other grease nipples.
6. Clear the area to be mowed of stones, branches and other foreign materials.
7. Lower the flail mower to the ground. Set tractor throttle at approx. 1/4 open. Engage the PTO so the blades rotate.
8. Operate with 540 rpm PTO tractor.
9. When you first start mowing, do so at a slow driving speed and slowly increase gears until the desired speed is reached - Max. 540 PTO revolutions.
10. The flail mower blades will cut better with a faster blade speed than at reduced throttle.

11. After mowing the first 50 meters, stop and check that the flail mower is adjusted correctly.
12. Do not make sharp turns while the mower is on the ground.
13. Do not engage the PTO with the mower in the raised position.

## Section 2: Adjustments

### Leveling the flail mower:

NOTE: Tractor and flail mower must be level.

Leveling can be adjusted on the tractor's 3-point arms and center link.

### Adjusting the cutting height:

The cutting height of the flail mower depends on the position of the rear roller.

1. Remove the bolts holding the roller on both sides.
2. Raise or lower both sides of the roll in equal measurements.
3. Replace bolts and tighten.

### 3-point suspension Adjustments:



CAUTION, Engage the parking brake, turn off the tractor, remove the key and engage the PTO before adjusting the height!



Belt tension. CAUTION, Belt drive system under spring tension; Use caution to avoid personal injury!

The belt tension must be checked after the first 20 hours of use. And then after every 40 hours of use.

1. Tension on the belt can be adjusted with the belt tension bolt. Turn the bolt until the desired tension is achieved. When the belt is at the correct tension, the gearbox should be adjusted so that the extension of the gearbox runs straight (parallel) with the flail mower. Loosen the bolts at the bottom of the gearbox and move the gearbox until the gearbox extension runs straight.
2. Excessive belt tension can lead to premature failure of the belt and drive components.



CAUTION Excessive belt tension can lead to premature failure of the drive components. Excessive belt tension can also lead to injury to the user or bystanders.

## Section 3: Maintenance and lubrication

Proper maintenance and adjustment is the key to longevity. With careful and systematic control, you can avoid expensive maintenance, time and repairs.



**CAUTION,** For safety reasons, each maintenance operation must be performed with the tractor PTO disengaged, the flail mower lowered completely to the ground and the tractor engine turned off with the ignition key removed.

- After using the flail mower, check all bolts to make sure they are tight and check drive belt tension.
- Replace worn, damaged or illegible warning labels. You can get new labels from your dealer.

### **Replacement of blades:**

**IMPORTANT:** Make sure the blade is the same length as the others on the flail mower. This will keep the rotor's rotation balanced.

1. Remove bolt and nut.
2. Remove old knife.
3. Install new blade and existing bolt.
4. Fasten with nut.

### **Belt Installation:**



**CAUTION,** Belt drive system is under spring tension; Use caution to avoid personal injury!

1. Remove the belt guard
2. Release belt tension by loosening the belt tension bolt until the belt can be removed.
3. With the tension relieved from the belt, remove the old belt from the pulleys.
4. Tighten the belt tension bolt.
5. Put the belt and belt shields back on.

### **Storage:**

At the end of the working season or when the flail mower is not to be used for an extended period, clean off any dirt or grease that may have accumulated on the flail mower and any of the moving parts.

1. Clean as needed.
2. Check blades for wear and replace if necessary.
3. Inspect flail mower for loose, damaged or worn parts and adjust or replace as necessary.
4. Store the flail mower inside if possible.
5. Renew parts where the paint is worn or scratched to prevent rust.
6. Replace any damaged or missing security labels.

**Lubrication:**

PTO shaft



Lubrication type: Multi-purpose Grease

Roller bearings (Both ends)



Lubrication type: Multi-purpose Grease

Flap cutter bearings (Both ends)



Lubrication type: Multi-purpose Grease

Gearbox



Lubrication type: SAE 90W Gear Lube

Check the oil level in the gearbox by removing the plug located on the right side. The oil must be level with the bottom of the level hole. Add oil if necessary by removing the top filler plug and side plug. Add oil until it flows from the level hole.

Do not overfill!

**IMPORTANT:** The flail mower must be in a level position when oil is added to the gearbox!

Driveline topics



Lubrication type: Multi-purpose Grease

## EC - DECLARATION OF CONFORMITY DK

### Fabrikant

CHANGZHOU MATENG MACHINERY CO. LTD. NO. 10 CH  
UANGSHENG ROAD, 1<sup>ST</sup> UOYANG INDUSTRIAL PARK, C  
HANGZHOU, CHINA



Erklærer hermed at følgende maskine:

**Betegnelse:** Slagleklipper

**Model:** DBCRI, BCRL, BCR

**Beskrivelse:** Slagleklippertilmontering på traktor til  
slåning af relevante arealer

### Erfremstillet i overensstemmelse med følgende EF-direktiv:

- Maskindirektivet 2006/42/EC

### Anvendte standarder:

- EN ISO 12100:2010,
- EN ISO 4254-12:2012



2021.04.29  
黄智平

GUOFANGMA/CIANGZHOU

underskrift

Always see the latest version of the manual, as well as the spare parts list / parts list for your item [www.dk-tec.dk](http://www.dk-tec.dk), under the machine itself.