

# Operator's Manual

Original Manual

## Snow Blowers

**MODEL:**

**BP-120**

**BP-150**

**BP-180**

***BP-210***



# DK•TEC

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Read these instructions before installing and using this implement

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Safe operation warning instructions

## Meaning of warning labels



Note! Read the instruction manual carefully before using the machine. Otherwise, it may cause injury.



Warning! Keep away from the cutting area of the running machine. Otherwise, injury accident may occur



Warning! Keep a safe distance while the tractor is driving. Otherwise, injury accident may occur



If the following precautions are not observed, death or injury may occur!



Please read the machine and tractor manual carefully before use, and start using it after you fully understand it.



Danger! Failure to follow this warning may cause serious accidents such as death or serious injury.



Warning! If someone don't follow this warning, it will occur injury accident.



Notice! If don't follow this warning may cause injury

## Preparation before operation



Notice!

- ★ If you do not fully understand the safety precautions and use essentials described in the instruction manual, unexpected accidents may occur. Before operation, please fully understand the warning signs affixed to the product, the safety precautions and the essentials in the instruction manual before proceeding.



Notice!

- ★ If you don't know how to operate the machine, because the instruction manual is not put around the product, if you want to seal with it as your own opinion, unexpected accidents may occur and cause injuries. Make sure that the instruction manual is kept around the product, and you can read it at any time when you don't know how to use it.



Warning!

- ★ Unexpected accidents may occur when you are uncomfortable or unfamiliar with machine operations.
  - Please do not operate under the following conditions
    - When you are too tired, sick, under the influence of drugs, or other reasons that make it impossible to concentrate on your work
    - After drinking
    - Persons who are not skilled in mechanical operation
    - Pregnant women and minors



Warning!

- ★ If you wear inappropriate clothing to operate the machine, a part of the clothing will be involved in the machine and cause injury. In severe cases, a major fatal accident may occur.
  - Please follow the instructions below to operate
    - Don't wear oversized tops and trousers
    - The sleeves and hem should not be too fat
    - Wear a helmet
    - Do not wear banded or flocculent items such as turbans or towels on the head and waist.



#### Warning!

- ★ When lending the machine to others to use, it is necessary to clearly inform the relevant safety warnings and detailed operating instructions recorded in the manual, and deliver the manual and instruct it to read carefully when using it.



#### Notice!

- ★ If you modify the machine yourself or install other devices or components which those specified by our company for operation, it will cause damage to the machine and cause injury. Please do not modify the machine. Please use the configuration parts specified by our company. When replacing parts, you can select the model according to the atlas.



#### Warning!

- ★ Ensure that the machine is accurately connected and mounted on the tractor's three-point suspension/front loading quick change.
- ★ When starting the tractor engine, make sure that the tractor is in neutral. If it is in the gear, it may cause the tractor to lose control and cause unexpected accidents. .
- ★ Be sure to cut off the PTO to start the engine. If you do not cut off the PTO and start the engine, the machine will be driven suddenly, which may cause injury to people around.
- ★ Starting the tractor in high gear may cause the front wheels of the tractor to warp, the operator may be thrown off, and the surrounding people will be involved, and unexpected injuries may occur. After confirming that the surrounding conditions are safe, start at a low gear and move forward
- ★ When starting indoors, the exhausted gas may cause a poisoning accident. Please be sure to open the doors and windows to fully ventilate.



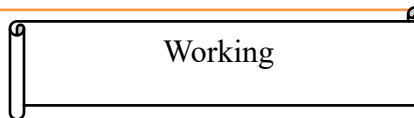
#### Warning!

- ★ When moving the tractor, if there is a person between the working machine and the tractor, an accident of being pinched will occur. Do not approach between the tractor and the work machine.
- ★ When the tractor is loading the working machine, such as on a slope, uneven ground or soft ground, the sudden movement of the tractor may cause unexpected accidents. Please carry out stowage work on a flat, level and hard ground.
- ★ Due to the different models of the loaded tractors, if the front wheel load is too light, the tractor will be unstable and cause accidents. Please install a suitable counterweight in front of the stowage working machine to keep the overall center of gravity of the tractor and the working machine balanced.



### Dangerous!

- ★ When the stowage machine is moving and walking, make sure to connect the left and right brake pedals before using it.
- ★ If someone other than the driver on the tractor falls from the tractor, which hinders the driving operation and cannot respond to emergency situations, not only the passengers but also the surrounding people and the driver themselves will cause injury. .
- ★ In case of emergency braking or a sharp turn, the driver may be thrown off, which will implicate people around and cause unexpected accidents. Please do not make a sudden braking or sharp turn.
- ★ When turning, due to the enlarged turning radius of the stowage operation machine, it will come into contact with people or objects around it. Please keep a relatively safe distance from surrounding people, objects, and obstacles before turning.
- ★ In the case of slopes, uneven ground, and fast turning speeds, it will cause rollover or crash accidents. Please walk at low speed in the above light type.
- ★ When walking on terrain with a large drop, it may cause the vehicle to tip over, roll over, and damage the working machine. Please use suitable pads
- ★ If people or objects are loaded on the working machine, it will cause injury accidents after falling. Do not carry people or anything on the working machine.



### Dangerous

- ★ When the machine is running or rotating, if it touches the rotating chucking, an injury accident may occur. If you are close to the machine, high-speed rotation and stirring may scatter stones and cause injury. Keep people around you away when you work
- ★ If the machine is operated beyond the specified speed of the machine, the machine will be damaged, and an injury accident will occur due to the damage. Please follow the specified speed for work.
- ★ If people or objects are loaded on the working machine, it will cause injury accidents after falling. Do not carry people or anything on the working machine.
- ★ ★Walking on the slope at high speed may cause sideslip or rollover. Please downshift and slow down before entering the slope and cross the slope smoothly.
- ★ ★Be sure to concentrate and drive carefully when working.
- ★ If someone approaches when raising or lowering the header, an injury may occur. Please stay away
- ★ Working on an inclined surface may cause the tractor to slide or roll over. Please do not get too close to the inclined surface to reduce the walking and working speed.
- ★ When adjusting the machine and removing debris, be sure to cut off the PTO engine and stop the tractor. Otherwise, due to the carelessness of a third party, the work machine suddenly starts, which may cause unexpected things to happen.
- ★ When leaving the tractor, please park on a flat ground, cut off the engine after landing the working machine, and put the brake on to prevent the machine from losing control.

## After working



### Body cleaning

#### Notice!

- ★ When performing collective cleaning, be sure to cut off the PTO engine, stop the tractor engine, and make sure that the rotating parts are stopped before proceeding.



### Notice!

- ★ If you neglect to check after working, the adjustment of the machine and the damage are not found in time, and the next operation will cause malfunction and cause injury. After the operation is completed, please strictly perform the inspection in accordance with the instruction manual
- ★ When using the 3-point suspension to lift the working machine for inspection and adjustment, due to the carelessness of a third party, it may drop suddenly and cause an injury. Please attach the 3-point suspension of the tractor to the oil circuit before proceeding.



### Notice!

- ★ If the snow blower is stored upright, it may fall over and cause injury. To prevent it from tipping over, please put the machine flat and store it

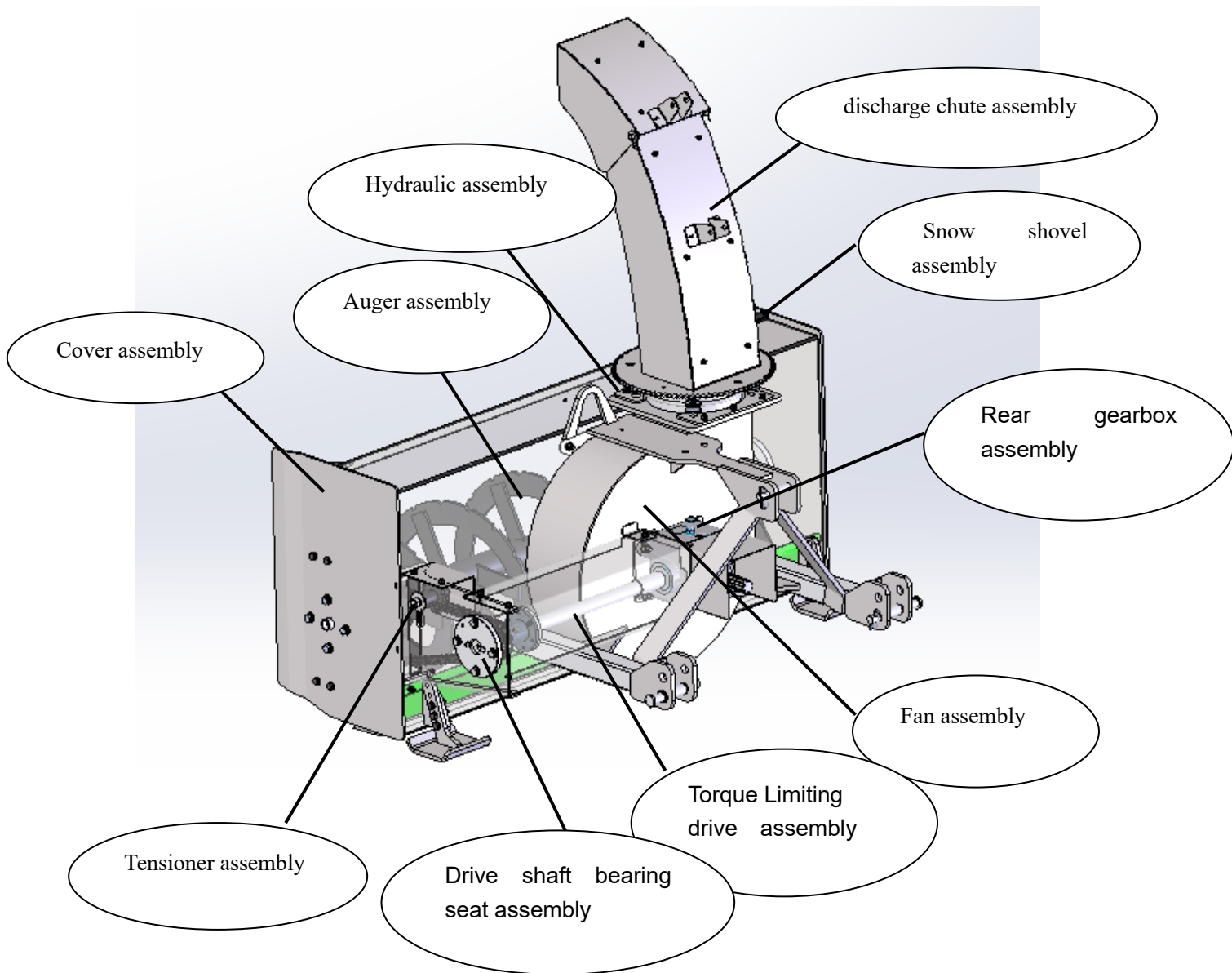


### Notice!

- ★ When the machine is abnormal, if you ignore it, it will cause damage or injury. Please follow the instruction manual for maintenance.
- ★ When the tractor is loading the working machine, such as on a slope, uneven ground or soft ground, the sudden movement of the tractor may cause unexpected accidents. Please carry out stowage work on a flat, level and hard ground.
- ★ When making machine adjustments and removing debris, be sure to cut off the PTO engine and stop the tractor. Otherwise, due to the carelessness of a third party, the operation machine suddenly starts, which may cause unexpected things to happen.
- ★ When lifting the working machine to drill into the lower part or raise the foot inside, the sudden drop of the machine will cause injury. Before drilling, be sure to prepare the bench and auxiliary support before proceeding.
- ★ If the hydraulic joints and hoses are loose or damaged, the high-pressure oil sprayed or the working machine drops rapidly will cause injuries. Please repair or replace parts in time. When replacing joints or oil pipes, be sure to perform under no pressure in the crude oil pipe
- ★ Remove protective parts such as enclosures for bad treatment, spot inspection and maintenance, and be sure to install them back to their original places after completion. Otherwise, you will be involved in the operation and cause injury.

Connect with tractor

1. Name and function of each part





The snow blower is connected to the tractor by a three-point suspension, and the PTO drive shaft of the tractor drives the gear box to work. Through the gear drive, on the one side, the chain drive is driven to Auger weldment and start to work. On the other side, the fan assembly works to suck the surrounding snow into the discharge port. So as to complete the snow removal operation.

## 1. Inspection before operation

For the inspection of each part of the tractor, please follow the tractor's instruction manual for inspection work.

### 2. Inspection of the connection part

- (1) The fixing of the three-point suspension connecting pin.
- (2) Whether the supporting feet are retracted.

### 1. Snow blower inspection

- (1) Whether each part of bolts and nuts are tightened.

Is the lubrication of all parts sufficient?

## 2. Inspection before engine start

### 1. Drive system inspection

New machines or machines that have not been used for a long time need to be run idling first.

(1) Start the tractor engine and keep running at low speed, and transmitted power to the PTO.

(1) Adjust the engine speed to 1000 rpm and idling for about 5 minutes.

(2) If the above situation is normal, adjust the speed to 500-540 rpm mode, idling for about 5 minutes

If there is a problem with the drive system, please refer to the tractor manual for troubleshooting.

### 2. Tractor hydraulic system inspection

Operate the tractor's three-point suspension lifting handle and hydraulic output handle to ensure that there is no problem with the machine lifting and turning.

If you have any questions, please contact the tractor seller.

## Operational important point



### Danger

- ★ If it touches and churns during operation or rotation, an injury accident may occur.

Because of the high-speed rotation of the Auger, the bottom fines will fly out during the operation. Be careful not to approach people around during the operation



### Warning!

- ★ ★If it exceeds the specified auger speed of the snow blower, it will be damaged and cause personal injury. Please clean at the specified speed.
- ★ Pay attention to keeping low speed when working on inclined ground
- ★ Pay attention to the situation ahead and around when driving

## Precautions when using

1. At the beginning of the operation, the snow blower should be in the lifting state, and the Auger speed should be increased to the rated speed through the PTO drive, and then drop the snow blower to make the shovel gradually contact the ground.

2. During the operation, the speed should be as low as possible to ensure the quality of the operation. If there is an abnormal situation, the machine should be shut down for inspection immediately, and the cleaning operation can be continued after removal.

When turning on the road, cleaning is prohibited, the snow blower should be raised, off the ground, and the tractor throttle should be reduced.

After one shift, the snow blower should be maintained. Remove the mud and residual snow on the auger weldment, check the tightness of the connections, and add lubricating oil to the lubricating oil points.

#### 4. After operation

##### 1. Inspection of operation

(1) After the operation, the snow blower needs to be sorted and cleaned, remove the grass clippings, soil and residual snow remaining during the operation.

(2) After use, pay attention to check if some parts of the snow blower may be damaged. If you need to replace some parts, you must also cut off all the power and turn off the tractor before replacing the parts.

(3) For the most easily damaged parts in using, check carefully, and replacement should be done immediately after found damage to avoid affecting the next use.

##### 2. Separation from tractor

(1) Level the snow blower and separate the three-point suspension of the tractor from the three-point suspension pin of the snow blower

##### 3. save

When the machine is not used for a long time, be sure to do the inspection work first, fill the oiling parts with oil in time, and do dust prevention work.

#### Inspection and component adjustment

##### 1. Check list

| Check content               | TIME                         |
|-----------------------------|------------------------------|
| Auger                       | Before/After operation       |
| Oil lubrication             | 50 hours/time                |
| Looseness of bolts and nuts | 1 hour for using new product |
| Sprocket, chain             | Before/After operation       |

## SNOW BLOWERS / SNOW BLADES

### BP Snow Blower



- PTO driven snow blower, fan diameter offers 20", 22", 24" size for BP120PTO, BP150PTO, BP180PTO.
- Fan depth on all three size snow blower is 6.75" deep to allow for heavy snow removal without plugging.
- High density polyethylene chute liner to keep the snow moving and prevent snow from freezing on and plugging the discharge chute.
- Flexible chute rotator and handle design.





### DECLARATION OF CONFORMITY

EU - Machinery (MD) -  
No. CTB160629008S-ZS

**Applicant** : Changzhou Mateng Machinery Co.,Ltd.  
**Address** : 10# Chuangsheng Road, Luoyang Industrial Park, Wujin District, Changzhou City, Jiangsu Province, P.R. of China 213104  
**Manufacturer** : Changzhou Mateng Machinery Co.,Ltd.  
**Address** : 10# Chuangsheng Road, Luoyang Industrial Park, Wujin District, Changzhou City, Jiangsu Province, P.R. of China 213104  
**Product** : Road Machine  
**Trade Name** : MATENG  
**Model(s)** : R.BD/U, R.BD/M, BP, G.SA, SP, SD, G.SDA, F.HR, TR  
**Test Report No.** : CTB160629008S  
**Test Standards** : EN ISO 12100: 2010  
 EN ISO 13857: 2008  
 EN ISO 13849-1: 2008+ AC:2009

The tests that base on the above designated product Complies with the essential requirements of Council Directive 2006/42/EC relating to Electrical Equipment designed for use within certain voltage limits and machinery safety.

The test results apply only to the particular sample tested and to the specific tests carried out.

The CE markings as shown below can be affixed on the product after preparation of necessary technical documentation.

Other relevant Directives have to be observed.



Simon Bao (Chief engineer)  
July 09, 2016



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