

# **PRODUCT OPERATION MANUAL**

**Product Name: Snow Blade**



**THE TNN DEVELOPMENT LIMITED**

# Catalogue

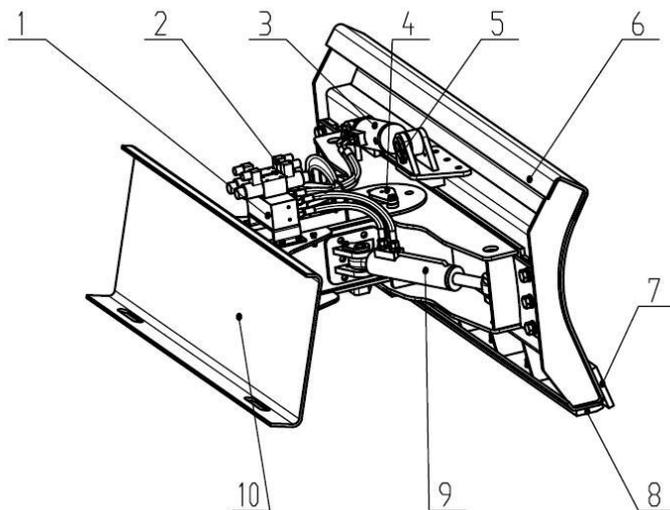
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# I. Safety Instructions

1. Please read this instruction manual carefully before using this equipment, so as not to cause personal injury.
2. Before using this equipment you should know it's production and working ability, size and operation Steps.
3. Under high pressure, hydraulic oil may occur leakage, it will cause harm to the staff and even death, so operator should farm away from oil pipe joint where leakage may occur.
4. Don't modify equipment, lest cause performance, safety and reliability.
5. Operator should ensure that no one around the equipment when operating.
6. Equipment under the condition of the operation, the operator shall not leave.
7. Operator should not operating machine under drunk, otherwise it will reduce his judgment of danger signals.
8. When operator leaves the host, he should put the attachment fell to the ground, then close the host engine, and pull out the key.
9. Check all fasteners, and ensure that no loose phenomenon. Have damaged parts to change in time, check whether all the warning label to recognize brand clean and clear, if there is damage to timely replacement.
10. Look carefully around the presence of obstacles, such as tree stumps, edge of pavement, etc. If so, please drive slowly. Because when the blade plate hit the immovable object, may damage the blade plate or cylinder, and even lead to injuries.

# II. Product Instructions

## 1. Product structure:



- |                      |                   |                        |                 |
|----------------------|-------------------|------------------------|-----------------|
| 1. Manifold block    | 2. Solenoid valve | 3. Deflection cylinder | 4. Kingpin      |
| 5. Cylinder pin      | 6. Push shovel    | 7. Cutting blade       | 8. Bottom blade |
| 9. Steering cylinder | 10. Hitch Frame   |                        |                 |

## 2. Product specifications:

Item	Unit	72''	84''
Operating width	mm	1830	2134
Operating height	mm	687	687
Operating length	mm	935	935
Weight	kg	400	450
Swing angle (left and right )	Deg.	±30	±30
Swing angle (up and down )	Deg.	±10	±10
Operating pressure	MPa	16	16

## III. Operation Instructions

1. Know this dozer blade's loading capacity , working pressure of host should be  $\leq 20$ MPa;
2. Start host, connect attachment hitch frame with host frame, pressed the positioning lock pin handle.
3. Lifting host working arm。 Before working, please in situ operation lever control dozer blade for all kinds of actions, in order to familiar with the operation of dozer blade, and check dozer blade's all origin parts in normal condition.

## IV. Maintenance Instructions

Regular maintenance is the key to keep machine work long life and safety, the following description of maintenance is more important.

1. Check whether there is loose phenomenon, tighten loose parts immediately.
2. Check attachment hydraulic system to see whether there is a leaking phenomenon, it should change leaking tuber connectors or tubers in time.
3. Check equipment parts for damage and solder joint for cracks, repair it when necessary。
4. During maintenance, be sure to close the attachment engine, Hang up "maintenance" warning sign on obvious position of attachment, to prevent others closing.
5. For replacement parts, user can only choose manufacturer approved parts for replacement.

## V. Storage Instructions

1. After working, remove all piece, dirt and grease on attachment.
2. Attachment should be stored in a dry and non-corrosive environment , in order to avoid attachment surface from rust.
3. When stock dozer blade, it need fix-frame, it will easy to connect host with attachment during next operation.