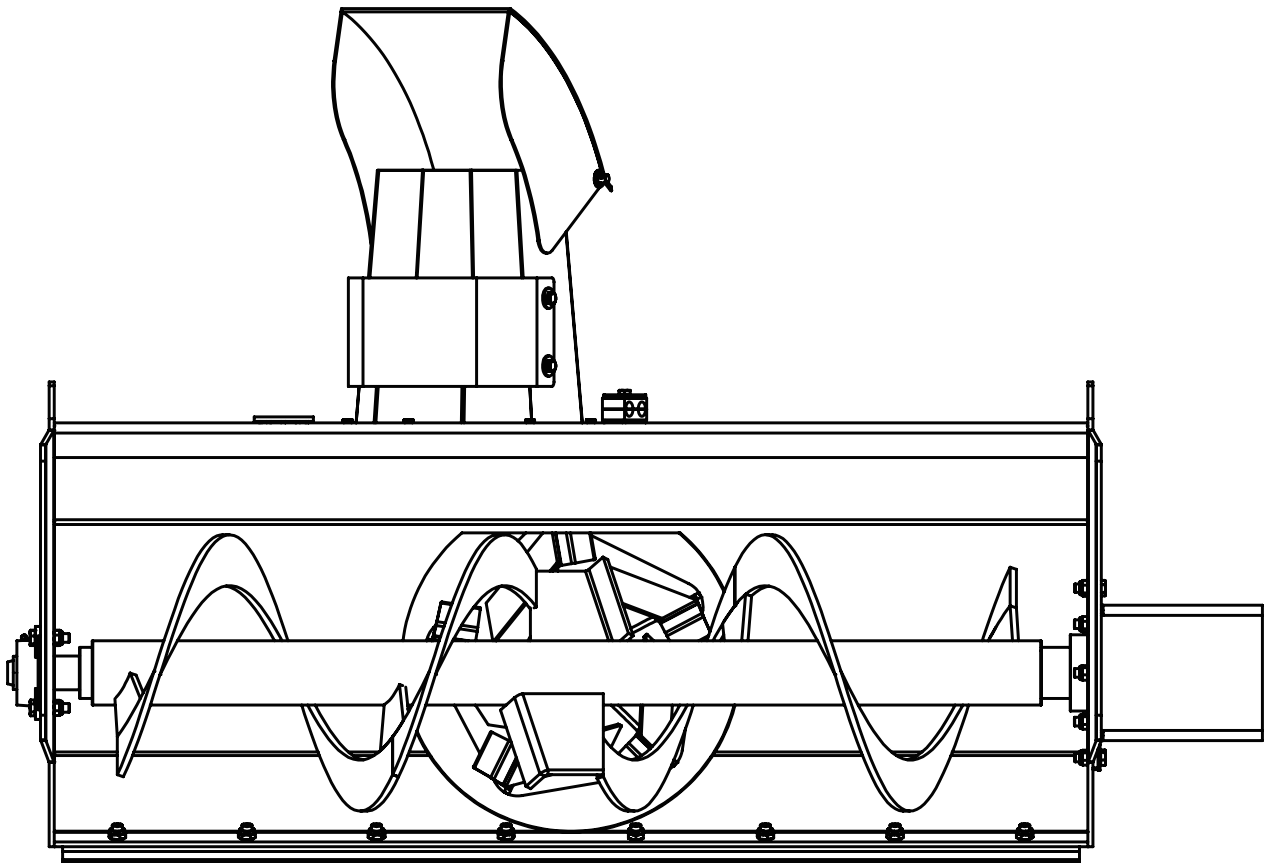


MSB48

SKID STEER HYDRAULIC SNOW BLOWER



Operator's Manual

CROBA

READ AND UNDERSTAND THE ENTIRE MANUAL BEFORE OPERATING MACHINE

SPECIFICATIONS

Model	MSB48
Cutting Width	48 in
Operating Pressure	16-21 Mpa
Snow Throwing Distance	315 in
Minimum Flow	30 L / min
Dimension	33*58*40 in
Packing Size (LxWxH)	63*36*28 in
Weight (N.W/G.W.)	463 / 529 lbs

SAFETY LABELS

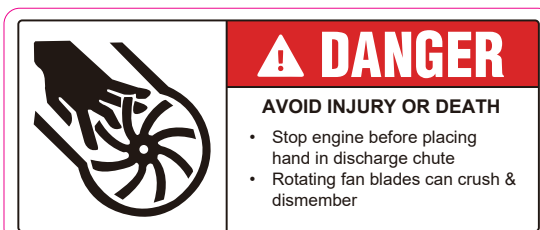
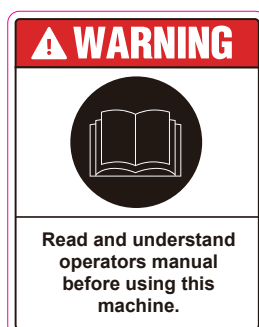
Safety sign locations on the equipment are shown in the illustrations that follow. Good safety requires that you familiarize yourself with the various safety signs, the type of warning and the area, or particular function related to that area, that requires your SAFETY AWARENESS.

Safety Sign Explanations



IMPORTANT!

If parts are replaced that have safety signs on them, new signs must be applied. Safety signs must always be replaced if they become damaged, are removed, or become illegible.



GENERAL SAFETY

For us, the long lifecycle and efficiency of your new equipment is a priority. To keep the hydraulic snow blower in top working condition, read this manual carefully before using the equipment.

Never let anyone operate or maintain the device without reading this manual carefully! Always make sure that safety precautions are observed in use and maintenance. Keep this manual for future reference and make sure to hand it over to a new owner.

The cornerstones of the product development of attachments are quality, durability and economy. The products are engineered to be high-performing, safe and durable in professional use. Any feedback on our products is welcome and contributes to the further development of our products.

PLEASE ATTENTION: Products Exchange or Refunds is not acceptable. If you have any questions about the use or maintenance of the Skid Steer Hydraulic Snow Blower, please contact us.

The manufacturer reserves the right for structural and technical changes without prior notice. Therefore, some pieces of information given in the manual may have changed after printing this manual.

READ BEFORE USE

Make sure you know your equipment before you start using it.

Equipment may be operated only by an individual who is thoroughly familiar with its use. All operators must be properly instructed before use and maintenance of the equipment. Use by individuals with insufficient instructions may pose serious risks to the operators themselves, to the environment and the equipment.

When coupling the attachment to the base machine, make sure:

- that all locking cotters are intact and in order
- there is no pressure in the hydraulic system
- that hydraulic hoses are intact - there is no skin contact to hydraulic oil when connecting hydraulic hoses
- not to pull by the hydraulic hoses, but only by the hydraulic fitting

During operation, pay attention to:

- safe, appropriate travel speed
- other traffic, people and animals
- danger zones and objects that block your view
- children

NEVER use the machine, if there is someone in the danger zone.

NEVER go under the attachment.

Check all bolts, nuts and hydraulic fittings for tightness after the first day of operation!

If the equipment is not likely to be used for a longer period of time, clean it thoroughly after use and lubricate as instructed.

PURPOSE OF USE

The hydraulic snow blower can quickly move a large amount of snow in the harshest environment, from mountain to municipal snow removal, it is the best choice for industrial and commercial snow removal. It can provide high flow and standard flow configuration.

SAFETY PRECAUTIONS

Make sure you know your equipment before you start using it. Equipment may be operated only by an individual who is thoroughly familiar with its use.

Before connecting hydraulics to the base machine, make sure that:

- there is no-one between the attachment and the base machine
- the base machine is turned off and the parking brake is on

When coupling the attachment to the base machine, make sure that:

- all locking cotters are intact and in order
- hydraulic hoses are intact
- there is no skin contact to hydraulic oil when connecting hydraulic hoses
- you do not to pull by the hydraulic hoses, but only by the hydraulic fitting.

During operation, pay attention to:

- safe, appropriate travel speed
- other traffic, people and animals
- danger zones and objects that block your view
- children
- use of turn signal when driving

NEVER use the machine, if there is someone in the danger zone

NEVER go under the attachment

During maintenance, the hydraulics of the base machine MUST be turned off. The base machine MUST also be turned off and the parking brake MUST be applied. The equipment must be properly supported, if maintenance can only be performed by going under the equipment. Never go under the equipment if it is not properly supported.

Daily maintenance:

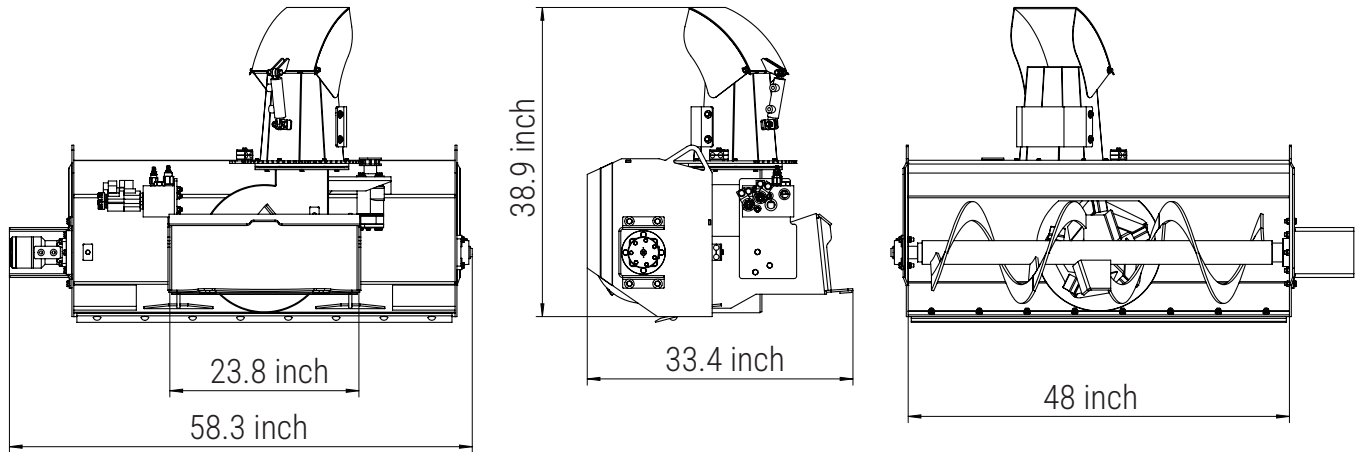
- check general condition of structures, make repairs if needed
- check the hydraulic hoses and fittings, and replace damaged parts

After every 50 hours of operation:

- lubricate points specified in later section of this manual
- check all bolts and nuts for tightness

WARNING! Pressurized hydraulic hoses and components!

PARTS OF THE SNOW BLOWER



USING THE SNOW BLOWER

When attaching the hydraulic snow blower for the first time, make sure it is compatible with the base machine by following the instructions below. Always check the compatibility when attaching the collecting sweeper to a new base machine.

4.1. Attaching the hydraulic snow blower to the base machine

The hydraulic snow blower is attached to the base machine by welded or bolted quick hitches. The machine is connected to a hydraulic system.

Before using the hydraulic snow blower, MAKE SURE all locking cotters are secured and intact. When coupling hydraulic snow blower to the base machine, please pay attention to the instructions on the use of the base machine.

1. Make sure that the attachment and the base machine are compatible in terms of mechanical solutions, hydraulics and electricity.
2. Apply parking brake. The hydraulic snow blower is attached to the coupler on the base machine. Attach the hydraulic snow blower to the base machine, and make sure the locking cotter are secured.
3. Turn off the base machine and make sure the parking brake is applied.
4. Make sure there is no pressure in the base machine hydraulic system. When connecting, always make sure the hydraulic connectors are clean and the hoses are intact.
5. Check carefully the attachment's, the base machine's and the fitting's trajectory for collision. Make sure that the needed space for hydraulic hoses and -attachments is adequate. Check that the brush roll rotates outwards from the. If not, switch hoses in the base machine.
6. During first hours of operating the attachment, bolts, nuts and connectors might loosen up. Retighten them after the first day of operating the attachment.

OPERATING THE SNOW BLOWER

Check following before using the hydraulic snow blower

- hydraulic snow blower is installed properly to the base machine
- All locking cotters are in place
- Hydraulic hoses are attached properly
- Hoses are intact - There are no oil leaks in attachment - All functions are in order
- Learn the functions of the hydraulic snow blower in an enclosed area before actual usage. - Observe all unusual activity and oil leaks when operating the snow blower.

5.1. Using the snow blower

1. Make sure that the attachment and the base machine are compatible in terms of mechanical solutions, hydraulics and electricity.
2. Apply parking brake. The hydraulic snow blower is attached to the coupler on the base machine. Attach the hydraulic snow blower to the base machine, and make sure the locking cotters are secured.
3. Turn off the base machine and make sure the parking brake is applied.
4. Make sure there is no pressure in the base machine hydraulic system. When connecting, always make sure the hydraulic connectors are clean and the hoses are intact.
5. Check carefully the attachment's, the base machine's and the fitting's trajectory for collision. Make sure that the needed space for hydraulic hoses and -attachments is adequate. Check that the brush roll rotates outwards from the. If not, switch hoses in the base machine.
6. Lift hydraulic snow blower front and back support legs. Lock them in upward position with locking cotters.
7. Keep the hydraulic snow blower in suitable distance from ground. The attachment could be damaged!
8. Stay alert for any abnormal behaviour and oil leaks also during driving.

5.2. Detaching the hydraulic snow blower from the base machine

1. Turn off the base machine, apply the parking brake and depressurize the system.
2. Detach the hydraulic hoses and protect hose ends with plugs.
3. Unlock the coupling mechanism and detach the device.
4. If the equipment is not likely to be used for a longer period of time, clean it thoroughly after operating and lubricate as instructed. Remove water from irrigation system's hoses. If possible, store the unit inside.

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