

# Dust Director® Electric Dustless Hot Rod Saws



6" Dustless Crack Chasing Saw Cutting (not dustless)



6" Hybrid — Dustless Crack Chasing & Sawing



9" Hybrid — Dustless Crack Chasing & Sawing



12" Dustless Saw Cutting

## Assembly, Operation, Safety / Warning Instructions

Please visit our **Dust Director** web site for more & exciting new products for concrete & masonry restoration: [www.DustDirector.com](http://www.DustDirector.com)

Many thanks for the confidence you have shown in us with the purchase of our DUST DIRECTOR HOT ROD SAW. Many years of working with contractors on their construction sites: Understanding their needs, requirements and health concerns went into the design of this product. When used with a Dust Director Vacuum - specific for vacuuming silica dust - the complete DUST DIRECTOR SYSTEM will provide you with a cleaner, healthier and more productive work site.

**OPERATING / SAFETY INSTRUCTIONS.** Buyer acknowledges receipt of these Operating & Safety / Warning Instructions for Use of the Product and agrees to strictly comply with such instructions.

**PRODUCT USE / DESIGN APPLICATION.** Cutting through masonry, concrete and stone material where containment of airborne dust is critical. Product is only for use by a licensed contractor who understands these instructions, as well as being thoroughly trained and experienced in the use and operation of electric angle grinders when cutting through the stated materials. Buyer acknowledges receipt of these Operating & Safety / Warning Instructions for Use of the Product and agrees to strictly comply with such instructions. Buyer is responsible for determining whether the product is fit for a particular purpose and suitable for user's method of application.

**LIMITED WARRANTY / LIABILITY.** Distributed by Industrial Contractors Supplies. As per Buyer's request, Seller (and hereby including all parties associated with the naming rights, manufacturing and marketing of the Dust Director™ including Industrial Contractors Supplies), has provided the Dust Director™ for use with an angle grinder for Buyer's personal use and application. Upon the Buyer's personal installation and/or attachment of the Dust Director™ to the angle grinder, Buyer acknowledges that Buyer has requested and performed a modification to the angle grinder product. Upon that modification, Buyer is hereby informed that both Seller and manufacturer of the angle grinder do not provide any warranties whatsoever and Buyer agrees to use the modified user-assembled product at Buyer's own risk.

Seller warrants it has title to the product delivered and may properly sell the same to Buyer and that such product will conform for use as intended and as described. SELLER MAKES NO OTHER WARRANTY OR REPRESENTATION, EXPRESSED OR IMPLIED, CONCERNING THE PRODUCT OR ITS MERCHANTABILITY, FITNESS THEREOF FOR ANY PURPOSE, OR ITS NON-INFRINGEMENTS. Seller shall not be liable for special, indirect, consequential or punitive damages of any kind under this Agreement or otherwise, whether or not caused by its negligence, and assumes no risk whatsoever as to the result of the use of Product either singly or in combination with other material. Buyer represents that it is familiar with the characteristics of Product and assumes all responsibility and liability for and will indemnify and hold Seller harmless from any and all loss or injury to persons or property arising out of handling, use or possession of Product delivered to it including any Negligence and/or Gross Negligence - Intentional Conduct allegations. IN THE EVENT THAT THIS DISCLAIMER OF LIABILITY IS HELD BY A COURT OF COMPETENT JURISDICTION NOT TO APPLY TO BUYER, SELLER'S MAXIMUM LIABILITY TO BUYER ON ANY CLAIM IN ANY WAY CONNECTED WITH THE SALE OR USE OF ANY OF THE PRODUCTS, WHETHER LIABILITY ARISES IN CONTRACT, FROM BREACH OF WARRANTY, IN TORT OR OTHERWISE, SHALL BE LIMITED TO THE PRODUCT'S INVOICE PRICE.

**CLAIMS.** Any claims by Buyer must be received by Seller in writing within 20 days of the date of delivery or non-delivery. Failure to deliver notice of claim to Seller within such 20 day period will constitute a waiver Buyer of all claims in respect of such delivery or non-delivery.

### IMPORTANT SAFETY NOTES:

- **FINGERS and HANDS MUST BE KEPT AWAY from BOTH CUTTING "EDGES" of the DIAMOND BLADE**
- **STAY ALERT, WATCH WHAT YOU ARE DOING, AND USE COMMON SENSE WHEN OPERATING THE DUST DIRECTOR™**
- **A moment of inattention while operating the may result in serious personal injury**
- **DO NOT TOUCH THE "HOUSING" OF THE DUST DIRECTOR™**
- Do not force the tool when cutting
- Use the right diamond blade for the application. For detailed information on using the right diamond blade with the Dust Director, see below: **USE THE CORRECT DIAMOND BLADE.**
- Please read and understand the information contained in these Operating Instructions.

**CAUTION.** Before any use, be sure that everyone using the Dust Director reads and understands all the Operating and Safety instructions and all other information contained in this manual. **SAVE THESE INSTRUCTIONS AND REVIEW THEM PRIOR TO EACH USE AND INSTRUCTION TO OTHERS.** Do not attempt to install, start or operate the Dust Director until all the instructions have been read and understood by the operator.

Failure to do so could result in personal injury and/or property damage. No person should attempt to operate the Dust Director without first being trained in the operation of industrial cutting tools. These instructions are not intended as a substitute for training and experience. Any user of the Dust Director should be thoroughly familiar with safety rules and regulations of portable grinders and diamond blades before use of this tool.

**There Is a Risk Assumed by Individuals Who Use the Dust Director. To Minimize Risk You must Follow These Rules:**

1. **INSPECT EQUIPMENT DAILY.** Tighten all loose connections and replace worn parts immediately. Failure to do so may result in serious injury.
2. When using the Dust Director, exercise care to avoid injury. Perform your "cutting" at a smooth, moderate pace: never perform jerky or uncoordinated movements that may cause injury.
3. **KEEP HANDS, FINGERS AND ALL BODY PARTS AWAY FROM BOTH CUTTING "EDGES". DO NOT TOUCH THE Dust Director's "HOUSING" while the BLADE IS MOVING.** The spinning blade is extremely dangerous. It is your responsibility to observe all safeguards when using the Dust Director. A moment of inattention while operating the Dust Director may result in serious personal injury.
4. **LEATHER WORK GLOVES REQUIRED.** Hands become "sweaty", leather work gloves help prevent your hands from accidental slippage into the spinning blade.
5. If unsure of the proper use of the Dust Director, call your local Dust Director distributor or **ICS, Inc.**

**The Operator must Observe Safeguards That Include but Are Not Limited to the Following:**

1. Under no circumstances may the Dust Director be modified from its original design, with out the permission of Dustless, Inc. in writing. Non-authorized modifications can lead to serious injury or death to yourself or others.
2. **CAUTION: KEEP YOUR HAND AND FINGERS AWAY FROM THE Dust Director's "HOUSING". SERIOUS BODILY INJURY WILL RESULT SHOULD THE EXPOSED BLADE CONTACT / CUT YOU.**
3. **BEFORE CUTTING,** always inspect areas for wires, cords, glass or other foreign objects which could come in contact with the blade.
4. **KEEP CHILDREN AWAY.** All visitors should be kept at a safe distance from work area.
5. Never use diamond blades that exceed the grinder's maximum blade diameter rating. Never use diamond blades marked less than 6,000 RPM.
6. Never service the Dust Director or change blades without first disconnecting the electrical power to the angle grinder.
7. Always inspect the installed blade for damage before use - Make sure the Dust Director and its blade are not damaged.
8. Always check to be sure that the Dust Director is fitted securely onto the angle grinder properly before each use.
9. Caution: Diamond Blade segments may break away from the blade itself
10. **ALWAYS WEAR SAFETY GLASSES, FULL-FACE SHIELDS, SAFETY SHOES, LEATHER WORK GLOVES, HEARING PROTECTION.**
11. **DRESS PROPERLY** - Do not wear loose clothing or jewelry. They can be caught in moving parts.
12. Select the proper blade for the material being cut. Be sure that the blade and equipment arrows are facing in the same "direction".
13. Be sure that the diamond blade is correctly mounted and turns without wobbling. Never cut material for which the blade is not designed.

**DIAMOND BLADE INSTALLATION.** Before installing or changing a diamond blade, always remove the plug from the electrical supply outlet, check that the angle grinder is turned "off", and that the spindle has come to a halt. Follow angle grinder's manufacturing directions for installing and changing blades.

## 6" HYBRID SAW - Up Cut Saw for Straight & Radius Cutting, Joint Cleaning & Sealant Removal. Converts to Down Cutting for Crack Chasing.



**Fig. 1** Angle grinder position on the 6" Hybrid for Sawing.

The 6" Hybrid is shipped as an up cut saw (**Fig. 1**). In this position, as you face the saw the Makita angle grinder is attached to the right vertical bracket using the Saw Cutting Mounting Brackets - (**Fig 2**). To attach the Dust Director and Blade Pointer, proceed as follows:

- Assemble the Blade Pointer to the Dust Director - **Fig. 2**. There are two recessed bolt locations on the Blade Pointer, fully extended and retracted. Select an appropriate position and use the included fasteners. **NOTE:** The blade pointer must be secured using either bolt location.
- Install the Dust Director Assembly to the saw's left vertical bracket - **Fig. 3**, using the included fasteners. Adjust the clearance beneath the Dust Director so that it is less than and 1/4" from the ground to achieve optimum dust control. Tighten all fasteners securely.

- Inspect the angle grinder's 6" blade guard by looking down inside the vacuum port of the Dust Director. If necessary, rotate the blade guard backwards toward the rear of the saw so the dust has a clear path through the vacuum port on the Dust Director. Avoid rotating the guard too far backwards to avoid it from touching the floor. Once adjusted, tighten the guard securely.
- Complete the assembly by installing the Hot Rod Saw's T-handle using the enclosed fasteners. Wrap the grinder's cord around the T-handle's cord holder and insert the grinder's plug into the switch box on the T-handle.
- Wheel & Caster Adjustment - See **Figures 8 & 9**.



**Fig. 2** Dust Director, Blade Pointer & Saw Cutting Mounting Hardware Brackets.



**Fig. 3** Dust Director & Blade Pointer Assembled to the 6" Hot Rod Saw.



**Fig. 4** Angle grinder position on the 6" Hybrid for Crack Chasing.

**6" HYBRID SAW** - Convert the Up Cut Saw to a Dustless Down Cut Crack Chaser. Walk forward to route surface cracks with complete blade and crack visibility and dust control.

As a up cut saw for straight and radius cutting with dust control, the angle grinder is mounted on the saw's right vertical bracket (**Fig 1**). In this position, the blade spins upwards as you cut into the material. Using the curve of the cut, the dust is directed upwards into the vacuum port of the Dust Director.

To convert the saw for dustless crack chasing, the angle grinder needs to be flipped to the left side of the saw - **Fig. 4**. In this position, the blade on the angle grinder spins downwards to direct the dust into the saw's built-in Dust Director — located underneath the saw and behind the blade.

**TO CONVERT THE SAW FOR CRACK CHASING, PROCEED AS FOLLOWS:**

Reference the instructions on the previous page and remove the Dust Director and its side mount hardware brackets from both the saw and the angle grinder. **NOTE:** To re-install the Saw Cutting Brackets (**Fig 2**), proceed as follows: With the spindle of the angle grinder facing upwards (its power cord towards you), the "long" hardware bracket bolts to the left side of the angle grinder and the "short" bracket bolts to the right side of the angle grinder.



**Fig. 5** Crack Chasing Hardware Brackets.

**TO ATTACH THE CRACK CHASING MOUNTING BRACKETS TO THE ANGLE GRINDER(Fig 5)** proceed as follows: With the spindle of the angle grinder facing upwards (its power cord will be towards you), the "long hardware bracket bolts to the right side of the angle grinder and the "short" bracket bolts to the left side. At this point do not tighten the bolts securely to the grinder.

As you face the front of the saw, attach the angle grinder / mount bracket assembly to the left vertical bracket of the saw (**Fig. 6**) using the fasteners. Prior to tightening securely, realize the same nuts and bolts are used to adjust the blade's depth-of-cut.



**Fig. 6** Attachment of Angle Grinder & Brackets to Saw.

Adjust the angle grinder's 6" blade guard by rotating it forward (away from the saw's T-handle) so that it does NOT block the dust port underneath the saw (the dust is directed into the built-in Dust Director by the spinning blade). Simultaneously, adjust the dust plate on the saw so that it touches the angle grinder's blade guard. **Ref. Fig 6.**

Adjust the position of the angle grinder on the vertical bracket for cutting depth. Once positioned use the enclosed cable tie and secure the barrel of the angle grinder to the eye bolt (located on rear of saw) - **Ref. Fig 7**. At this point tighten the side mount nuts and bolts securely.



**Fig. 7** Grinder attachment bolts are also use for blade depth-of-cut. Rear eye-bolt with cable tie helps to secure the barrel of the angle grinder.

Notice the U-wheel locks, they are placed over the casters for straight cuts and when transporting the saw (**Ref. Fig 8**). When routing cracks, insert the U-wheel locks into the saw's storage slots (located behind the front wheels.) With the casters left to swivel freely you are able to follow random cracks and perform radius saw cuts.

To adjust the front wheels, loosen the nuts and slide the wheels up or down. For optimum dust control, maintain the frame clearance of less than 1/4". **Ref. Fig 9.**

Fully positioned and adjusted, tighten all nuts and bolts securely.

**Reference the following to two photos for both Crack Chasing & Saw Cutting.**



**Fig. 8** U-Shape Wheel Locks - Inserted over the casters for straight cuts and to transport the saw.



**Fig. 9** Insert the U-Shape Wheel Locks in the slots provided behind from the wheels to allow the casters to swivel freely while following cracks. Front wheels are adjustable by loosening the nuts - Maintain 1/4" clearance between the floor and the saw's frame.

# 9" HYBRID SAW - An Up Cut Saw for Straight Line, Radius Cutting, Joint Cleaning, Joint Sealant Removal, Crack Chasing.

## HANDLE INSTALLATION

- Install the handle and wrap the grinder's power cord around the cord holder. Insert the grinder's plug into the switch.
- Install the saw's Lift Arm into the rear of the pivot plate.

## BLADE INSTALLATION

- Reference the "blade rotation arrow decal" on the saw and install the blade to the grinder.

## DUST BOX ADJUSTMENT

- Insure that the dust box skirt is flush to the floor. Loosen bolts and adjust as needed.

## BLADE POINTER

- May need a final adjustment depending on the size of the blade being used.

## GRINDER OPERATION

- Reference the following guides for User Features and see the grinder manual for its set-up and operation.

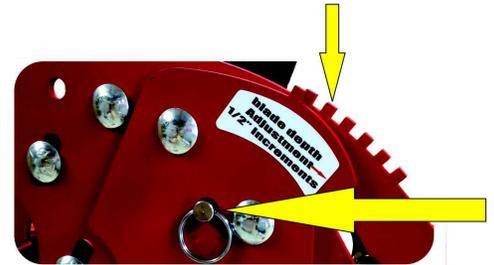
### ----- APPLICATION FEATURES -----

#### BLADE HEIGHT LOCKING NUT



#### LIFT ARM FEATURE -

##### Saw Storage / Transportation Position.



Pull the Lift Arm back and install the locking pin in the above position when the saw is not in use.

#### LIFT ARM FEATURE -

##### Saw Operation Position.

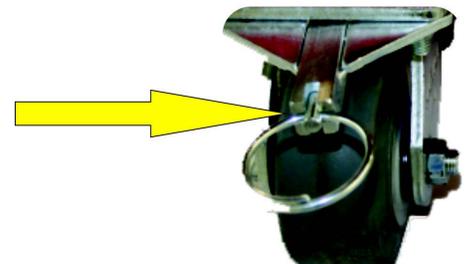


Pull Lift Arm back and install the locking pin in the above position when the saw is in operation.

#### REAR CASTER ADJUSTMENT -

##### Crack Chasing, Radius Sawing.

Pull the locking pin out and turn 90° to unlock the casters to its swivel position.



**Straight Line Sawing.** Pull the locking pin out and turn 90° to lock the casters for straight line sawing.