

**OPERATING, INSTALLATION, SAFETY / WARNING
 INSTRUCTIONS, WARRANTY**

Please visit the **Dust Director®** Web Site for More and Exciting Products for
 Concrete & Masonry Restoration: Web Site: www.DustDirector.com



Dear Customer: Many thanks for the confidence you've shown in us by purchasing the *Dust Director®*. Many years of working with contractors in understanding their needs, requirements and health concerns have gone into the design of our dustless cutting angle grinder tool. When used with a wet/dry vacuum cleaner - equipped with specific filtration for vacuuming dry powder - the Dust Director will provide a clean, healthy and more productive working environment for everyone.

NOTE: Just because a vacuum cleaner may include a HEPA Filter does NOT mean it can handle the *volume* of dry powder that the Dust Director will quickly *direct* into it. Vacuum cleaners inadequately equipped without the proper filtration to handle "volumes" of dry powder will quickly lose suction as the powder will accumulate on the filter's surface and cause reduce suction performance.

All Dust Director® Vacuum Cleaners include AIRFlow HEPA Filtration to prevent filter blinding which causes suction loss. Models are available with 1 and 3-Motor Power Heads. For detailed information and pricing, please call ICS Company or see our web site at: www.DustDirector.com.

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. Product is for installation onto 4-1/2", 5" and 6" electric angle grinders. 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.

SAFE USE WARNING - BUYER ALTERATION to MANUFACTURER ANGLE GRINDER. The Dust Director™ is a suitable and safe alteration for use on an angle grinder product within the blade capacities of the angle grinder. However, upon the Buyer or User's installation and/or attachment of the Dust Director™ to the angle grinder, notification is hereby given that such a modification may void the manufacturer's warranty on the angle grinder. Additionally, the Buyer and/or User are also notified that while using the modified user-assembled product they will be doing so at their own risk and that Seller (and all parties associated with the Dust Director™ including but not limited to the inventor or manufacturers) and the manufacturer of the angle grinder shall not be liable for any injury, loss or damage, direct or consequential, arising from the use of, or inability to use the user-assembled product. For additional information on this safety notification, please see the **LIMITED WARRANTY / LIABILITY** section below.

MAXIMUM BLADE DIAMETER. The *Dust Director* has a maximum blade diameter of 6". NOTE: Blade diameter depends on the angle grinder's rated blade diameter, not the *Dust Director's* blade capacity. For example: if an angle grinder is rated at 4 1/2", do not mount a 5" or 6" diameter blade on the angle grinder just because the *Dust Director* can accommodate a 6" blade. This is also a safety issue: 4 1/2" angle grinders are shorter in body length than are 6" angle grinders. Hence, using a 6" diamond blade on a 4 1/2" (short) angle grinder places your hand dangerously too close to the cutting blade.

MAXIMUM BLADE CUTTING DEPTH	Front Edge	Side Edge (Inside Corners)
<u>Blade Diameter</u>	<u>Depth of Cut</u>	<u>(Depth of Cut)</u>
4"	5/8"	5/8"
4 1/2"	7/8"	7/8"
5"	1"	1"
6"	1-5/8"	1-5/8"

LIMITED WARRANTY / LIABILITY. Distributed by Industrial Contractors Supplies. **Made In USA.** 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 more fully in these attached Operating and Safety Instructions and Warnings for use of the Product. 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. 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

1. The *Dust Director* Dustless Guard accommodates the following diamond blade diameters: 4", 4 1/2", 5" and 6". Blade diameter depends on your angle grinder's maximum blade diameter rating, not the *Dust Director's* "blade capacity".
2. USE THE PROPER BLADE DIAMETER WITH THE CORRECT SIZE ANGLE GRINDER. The blade's diameter also corresponds to the length of the angle grinder's body. The difference in length between a 4 1/2" and 6" Angle Grinder is 2". Using a 6" diameter blade on a 4 1/2" angle grinder places your hand dangerously too close to the spinning blade.
3. FINGERS and HANDS MUST BE KEPT AWAY from BOTH CUTTING "EDGES" of the DIAMOND BLADE.
4. STAY ALERT, WATCH WHAT YOU ARE DOING, USE COMMON SENSE WHEN OPERATING THE *DUST DIRECTOR*. A moment of inattention while operating the *Dust Director* may result in serious personal injury.
5. **DO NOT TOUCH THE *DUST DIRECTOR'S* "HOUSING" or "EXTENSION COVER" while the blade is moving.**
6. **IMPORTANT: ALWAYS WEAR EYE AND HAND PROTECTION WHEN USING THE *DUST DIRECTOR*.**

CAUTION: Before any use, be sure 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 PRIOR TO EACH USE AND IN INSTRUCTING 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 one should attempt to operate the *Dust Director* without being trained in the operation of using an angle grinder. These instructions are not intended as a substitute for training and experience. Before using the *Dust Director*, you need to be thoroughly familiar with safety regulations and use of a portable grinder with diamond blades.

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

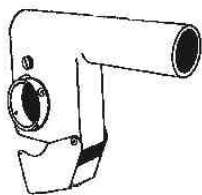
1. INSPECT EQUIPMENT DAILY. Tighten all loose connections and replace worn parts immediately. Failure to do so may result in injury.
2. When using the *Dust Director*, exercise care to avoid injury. Perform your "cutting" at a smooth, moderate pace: never perform jerky or uncoordinated movements that may cause injury.
3. KEEP HANDS, FINGERS AND ALL BODY PARTS AWAY FROM BOTH CUTTING "EDGES". DO NOT TOUCH THE *DUST DIRECTOR'S* "HOUSING" - or - The "EXTENSION COVER" 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. WORK GLOVES REQUIRED. Hands become sweaty, work gloves help prevent your hands from accidental slippage into a spinning blade.
5. If unsure of the proper use of the *Dust Director*, call your local *Dust Director* distributor or **Industrial Contractors Supplies, 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, including the removal of the EXTENSION COVER, 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" and "EXTENSION COVER".
3. SERIOUS BODILY INJURY WILL RESULT SHOULD THE EXPOSED BLADE CONTACT / CUT YOU.
4. BEFORE CUTTING, always inspect areas for wires, cords, glass or other foreign objects which could come in contact with the blade.
5. KEEP CHILDREN AWAY. All visitors should be kept at a safe distance from work area.
6. Never use diamond blades that exceed the grinder's maximum blade diameter rating or use diamond blades marked less than 12000 RPM.
7. Never service the *Dust Director* or change blades without first disconnecting the electrical power to the angle grinder.
8. Always inspect the installed blade for damage before use. Make sure the *Dust Director*, angle grinder and blade are undamaged.
9. Ensure that the *Dust Director* is fitted onto the angle grinder properly and securely before each use.
10. Caution: Diamond Blade segments may break away from the blade itself
11. ALWAYS WEAR SAFETY GLASSES, FULL-FACE SHIELDS, SAFETY SHOES, WORK GLOVES, HEARING PROTECTION.
12. DRESS PROPERLY - Do not wear loose clothing or jewelry. They can be caught in moving parts.
13. Select the proper blade for the material being cut. Be sure the blade and equipment arrows are facing in the same "direction".
14. Be sure the blade is correctly mounted and turns without wobbling - Never cut material for which the blade is not designed.

ATTACHING a DUST DIRECTOR to an ANGLE GRINDER

The "housing" of the *Dust Director* is universal (P/N: DDH-N). Individual "Collars" are used to fit specific angle grinders, the collars are interchangeable with the "housing". When ordering, order a "housing" (DDH-N) along with a "collar" to fit *your* angle grinder.

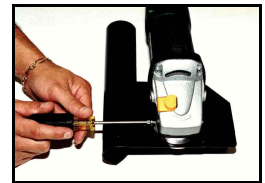


* Depending on the blade thickness, the angle grinder may require a thicker Inner Blade Nut (#449264) to be used; such as nut is included with the "*" marked collars.

MANUFACTURE	MANUFACTURE'S MODEL NO. or SERIES	COLLAR PART NUMBER
Bosch	1700, 1701, 1710, 1347A, 1375A, B9150, PWS5-115	BOS-1700N *
Bosch	1801, 1803, 1810, 1811, 1821, AG40, AG50, AG60	BOS-1800N
Fein	WSG & WSS 10 & 14 Models	FEIN-WSG14N
Hilti	DCG-450S	MAK-9550N
Hilti	DCG-500S	HILTI-500N *
Makita	Model: 9005B	MAK-9005B
Makita	9560 & GA6020 * SJS Series, Model GA4530 *	MAK-9560N
Makita	9520, 9554, 9557, GA Models	MAK-9550N
Milwaukee	Models 6177-33	MIL-6117N
Milwaukee	Models 6146-30, 6130-33	BOS-1700N
Metabo	W7, W10 Models	MET-W7N
Metabo	All "Spring-Lever" Models: W8, 9, 10, 11, 14	MET-W8N

DUST DIRECTOR – Installation. **2 Collar Types:**

Collar Type 1: FOR ANGLE GRINDERS: **Bosch, DeWalt, Hilti Model 450, Hitachi, Makita, Milwaukee, Metabo W7 Series.** Remove the angle grinder's standard blade guard, inner and outer blade clamps. Place the Dust Director's collar onto the grinder's bore (position the Dust Director's barrel as per the diagram to the right) and firmly push down on the collar to firmly seat the collar onto the grinder.





Prior to tightening and securing the collar to the angle grinder, notice that the collar is equipped with four (4) threaded holes (see picture, right). To re-adjust or re-position the Dust Director on the angle grinder to a different cutting position, the four (4) threaded holes provide you with the versatility of positioning the Dust Director to the best angle or position that best suits a comfortable cutting position for your application while providing a secure attachment.



Once the collar is properly positioned on the bore of the angle grinder, select the two most appropriate threaded holes on the collar and insert and thread the two (2) machine screws (10-32) through the holes and into the grinder's bore - Tighten the set screw securely. The Dust Director is now securely fastened to the angle grinder.

For additional information on LOCK-IN CUTTING POSITIONS, see below for additional positioning positions.

Collar Type 2: FOR ANGLE GRINDERS: **Metabo W8, 9, 10, 11, 14, 15, 17 Series & Hilti DCG Model 500S.** The Dust Director installs onto these angle grinders without using any tools or set screws. Once installed, the Dust Director is position and is re-positioned by depressing the spring-loaded lever on the grinder to rotate into specific lock-in cutting positions – without using any tools or set screws.

STEPS	DESCRIPTION	PICTURE
1	Remove the angle grinder's standard blade guard and the inner and outer blade clamp / nut. Position the grinder as in Picture No. 1. Notice the notches on the bore of the angle grinder and how the angle grinder's <i>Spring Lever</i> can be depressed, Picture No. 2.	
2	Position the Dust Director so that the notches on its collar align with the notches on the bore of the angle grinder. Depress the spring-loaded adjustment lever, securely push down on the collar of the Dust Director to fit the collar securely on to the bore of the angle grinder, Picture No. 3. After the collar is firmly secure onto the bore of the grinder, release the adjustment lever & rotate Dust Director counter clockwise - Picture No. 4. See Additional Lock-In Cutting Positions, next.	

LOCK-IN CUTTING POSITIONS (4) - The Dust Director adjusts or can be positioned on the angle grinder to accommodate various types of cutting positions - Including the Circular Saw "Pull-Cut" Position, #4 (see below).

On certain Metabo angle grinders, the Spring-Lever can be depressed that will re-position the Dust Director on the angle grinder to any of the following four (4) positions. On all other models and brands, each Dust Director "collar" includes four (4) threaded screw holes and two (2) set screws (see picture above, right - Dust Director Collar). As described above, slide or swivel the collar and Dust Director to your particular cutting position (360° positioning capability), re-install and tighten the two (2) 10-32 set screws through the threaded holes of the collar and into the grinder's bore – Tighten the set screw securely. The Dust Director is now securely fastened to the angle grinder.

Once set, always cut *into* the material being cut (always cut *towards* the barrel of the Dust Director). As per the following pictures and the design of the Dust Director, as a diamond blade cuts it *directs* the dust up and into the barrel of the Dust Director.



◀ ◀ **Position 1: 45° Cutting Position.** Once installed, depress the spring lever on the angle grinder and rotate the Dust Director counter clockwise until it locks into Position 1.

▶ ▶ **Position 2: 0° Cutting Position .** Depress the spring lever on the angle grinder and rotate the Dust Director counter clockwise until it locks into Position 2.



◀ ◀ **Position 3: 70° Cutting Position.** Depress the spring lever on the angle grinder and rotate the Dust Director clockwise until it locks into Position 3.

▶ ▶ **Position 4: 70° Circular Saw Cutting Position.** Depress the spring lever on the angle grinder and rotate the Dust Director clockwise until it locks into Position 4. The 4th Position enables pull-cutting, which is recommend when following cracks on floors (pull cutting) or pull-cutting on floors and walls. ▶ ▶



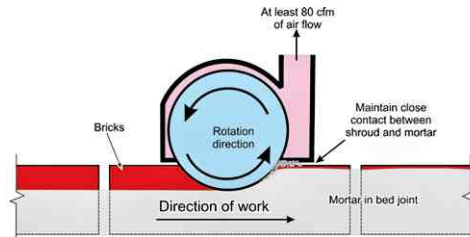
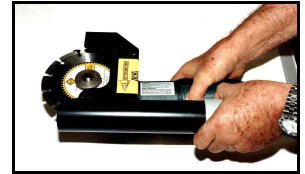
Re-positioned the Dust Director on a Metabo or Hilti Angle Grinder is easy, simply by depressing the grinder's spring-loaded lever and rotating the Dust Director into a Lock-In Position.

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 manufacturers directions for installing and changing blades.

PROPER CUTTING TECHNIQUE HOLDING THE ASSEMBLED UNIT

The angle grinder / guard "assembly" is to be held with the *Dust Director* on top. (The grinder, with its spindle bolt facing upwards, is beneath the *Dust Director*; hence, the angle is upside down). Look through the "face plate" (yellow sticker) of the *Dust Director*. Hold the angle grinder towards the "back-end" of the grinder's body with your right hand. Your left hand holds the *Dust Director's* barrel (See diagrams to right).



CUTTING WITH THE DUST DIRECTOR (5 Steps)

1. Turn angle grinder and vacuum "on". On a 45 degree angle, ease the *Dust Director* into the material being cut, with the shoe of the *Dust Director's* barrel touching the work surface. Always keep the barrel's shoe in "close" contact with the work surface (see left picture).

2. **USE THE CORRECT DIAMOND BLADE.** The "right" blade for the material being cut will enable you to completely "sink" the blade into the material. If you find yourself making multiple passes in order to obtain proper depth or width - **you are using**

the wrong blade! Fine dustless cutting is made with (1) pass of the blade. Contact Industrial Contractors Supplies (ICS) for help in selecting the right blade. 3/8" & 1/2" wide are available at ICS Company. Additionally, if you are experiencing a "bouncing" blade or insufficient blade life, contact ICS for help in selecting the right blade for the material being cut. Beware of blade "kickback". Allow the blade to cut freely, do not force the blade to cut - there is no need too.



EXTRA-WIDE JOINT CUTTING. When cutting joints over 1/2" wide, multiple passes will have to be made. Effective dust free cutting will be obtained when your second cut is 3/8" - 1/2" deeper than your first cut. For example (using a 5" diameter blade) your first pass will be 1/2" - 5/8" deep; your second pass will be 1" deep.



3. **IMPORTANT: CUT RIGHT-TO-LEFT "ONLY".** When the desired depth is achieved slowly move the angle grinder "forward" from right-to-left. Cut towards the *Dust Director's* barrel. Notice the directional "Arrow" on the Yellow Sticker. **Always cut into the mortar joint.** This is the only direction acceptable for dustless cutting. Cutting over an existing cut, widening a cut, or cutting away from the "barrel" will result in unsatisfactory dustless cutting.

4. Guide the *Dust Director* by observing progress through the open face-plate on the *Dust Director* - **Always Cutting Right to Left.**

5. **CUTTING A WALL'S INSIDE CORNER.** When the *Dust Director's* barrel touches an inside corner, turn the angle grinder "off", unsnap the EXTENSION COVER, move it backwards towards the barrel (See both Diagrams, right). Turn "on" the angle grinder and slowly continue to your cut into the inside corner.

Ease both the "front" and "side" edge of the diamond blade into the inside corner. Keep the "base" of the barrel tight against the adjoining wall. Continue "dual cutting" with both edges of the diamond blade until the "side edge" has completely cut into the previous "un-cutttable" inside corner and the "face plate" is now flush with the adjoining wall.



Proceed with forward cutting for 12", turn "off" the angle grinder, re-snap the EXTENSION COVER into place on the "housing" of the *Dust Director*, and continue to cut forward. **NOTE:** A 5" diamond blade will give you a 1/2" depth-of-cut when cutting the wall's inside-corner. Do not attempt to remove or operator the *Dust Director* with the Extension Cover "unsnapped", doing so may result in bodily injury from the exposed blade.



DUST DIRECTOR NOT WORKING - DUST ESCAPING FROM THE GUARD. This is your signal that either the vacuum's filter is clogged or the tank is full. The sole purchase of the *Dust Director* is to provide blade visibility while "directing" the dust into a vacuum hose. The purpose of the "vacuum" is to keep-up with the "powdered" dust that the *Dust Director* is directing into the vacuum.

Unsatisfactory dustless cutting is NOT because of the *Dust Director*. Instead, the operator is not using the *Dust Director* correctly, the vacuum's filter system is "caked" with fine powder dust or the vacuum's tank is full.

For the very best in filtration, *Dust Director* Vacuums are highly recommended - providing long operating times without filter blinding: Ultra fine dust will accumulate in the collection tank (to its inlet port) without incurring suction drop. Models are available with 1 and 3-Motor Power Heads along with 10, 12 and 24 gallon collection tanks.

ANOTHER OUTSTANDING DUST DIRECTOR® PRODUCT: Diamond Glitter Bits.

A diamond blade can only grind or cut so far. Glitter Bits are used to finish a cut without over cutting into existing bricks. Specifically design for the following applications: Grind vertical brick mortar joints, 90° cut-out around bricks, inside wall corners, window and door brick returns, individual brick removal, etc. Grinds soft to extremely hard mortar, even granite. Available in (3) Sizes: 1/8" x 3", 1/4 x 3-1/2", 1/4 x 4-5/8".

