

Dry Diamond Blades

Pg 1 - About Dry Blades
Pg 2 - How to Use
Pg 2 & 3 - Common Questions
Pg 3 & 4 - Helpful Hints

Alpha offers three types of dry blades and four styles of wet blades. Generally, dry blades are for portable tools like saws and angle grinders while wet blades are intended for tile saws and other water fed equipment.

Dry blades can be used to cut a wide range of building materials: granite, limestone, travertine, brick, concrete, slate, fiberglass, cement board, marble, pvc pipe, masonry, stone, ceramic tile, terra cotta, reinforced, concrete aggregate panels.

Choose the right blade for each job. You'll be glad you did !

Alpha Dry Blades

PLUS



Our most popular blade is the Alpha Plus. Generally speaking, this is the most versatile product in the line and should be used for almost all dry applications. It comes in a wide range of sizes.

PART NO.	SIZE	MAXIMUM RPM	ARBOR(S)
DA04A+	4"	13,700	20mm, 5/8"
DA05A+	4 1/2"	13,300	7/8", 20mm, 5/8"
DA05S	5"	12,200	7/8", 20mm, 5/8"
DA06A+	6"	10,200	◁▷, 5/8", 1/2"
DA07A+	7"	8,500	◁▷, 5/8"
DA08A+	8"	6,800	◁▷, 5/8"
DA09A+	9"	6,500	7/8", 5/8"
DA10A+	10"	6,100	1", 5/8"
DA11A+	10"	6,100	5/8"
DA12A+	12"	6,300	1", 20mm
DA13A+	12"	6,300	20mm

QUAD



As an option the Plus comes drilled in a special version called Quad Drive. This permits mounting on angle grinders when you would like to cut "flush". The Quad adapter eliminates the need for the lock nut which would normally prevent you from flat cutting operations. Great for tight spots.

PART NO.	SIZE	MAXIMUM RPM	ARBOR(S)
DA04AH	4"	13,700	20mm Quad Drive
DA05SH	5"	13,300	20mm Quad Drive
DA06AH	6"	10,200	20mm Quad Drive
DA07AH	7"	8,500	20mm Quad Drive
DA08AH	8"	6,800	20mm Flange with 8 holes
DA09AH	9"	6,500	20mm Flange with 8 holes
DA11AH	10"	6,100	20mm Flange with 8 holes
BAH-5/8	Adapter	13,700	5/8"-11 Thread / Quad Drive
BAH-M10Q	Adapter	13,700	4" Makita Thread / Quad Drive
BAH-M14	Adapter	13,700	M14-2 Thread / Quad Drive

ECLIPSE



This is a lower cost version of the original Plus blade and should make an excellent choice where a contractor is only cutting concrete or masonry materials. It features high quality diamonds and a very good grade steel core.

PART NO.	SIZE	MAXIMUM RPM	ARBOR(S)
DE04AL	4"	13,700	20mm, 5/8"
DE05AL	4 1/2"	13,300	7/8", 20mm, 5/8"
DE07AL	7"	8,500	◆, 5/8"
DE08AL	8"	6,800	◆, 5/8"
DB14AL	14"	5,400	1", 20mm

LIBERO



A special purpose blade which permits cutting of soft stone which would normally crack and chip. Reduces finishing time and saves material. This is the ultimate blade for marble-which is medium to soft.

PART NO.	SIZE	MAXIMUM RPM	ARBOR(S)
DL04A+	4"	13,700	20mm, 5/8"
DL05A+	4 1/2"	13,300	20mm, 7/8", 5/8"
DL07A+	7"	8,500	◆, 5/8"

How to use

Alpha blades with the code letters DA-PLUS and DE-Eclipse are intended for dry cutting but may be used wet. These blades should be used on hard materials such as granite, slate, marble and many types of concrete, ceramic tile and cement products.

Do not use on green concrete, concrete with soft aggregate, soft cinder block, asphalt, wood, soft brick, clay tile or brick pavers which do not cut easily. Do not use these blades for tuck pointing work.

Do not use on worm drive saws which are under RPM. The lower RPM causes faster wear.

Best results will be attained if the blade is run at high speed, but use caution never to exceed the safe operating RPM. Do not use on low speed tools such as battery powered tools or polishing tools. They do not run fast enough to stay cool. If you are using these blades on tile or tray saws which are normally run with water, then continue to supply the water.

Inspect blades frequently for signs of excessive wear or possible dangerous conditions such as warping, overheating, cracks or glazing. If a blade appears to be wearing out rapidly, the material being cut is probably too soft or abrasive. Do not continue to use a rapidly wearing blade.

All dry blades are designed for light intermittent type cutting. They are not recommended for deep cuts or uninterrupted operations. When cutting material more than 1 inch thick, always use step cuts. Never force a blade. After every ten seconds of use, back off and run free to promote high speed air cooling.

ALWAYS WEAR EYE PROTECTION AND PROPER PERSONAL SAFETY EQUIPMENT WHEN USING THESE PRODUCTS.

Common Questions

Can a dry blade be used wet?

Yes, cutting wet will generally increase blade life, but be careful that harmful sludge does not wear away the sides of the blade. Use plenty of water, and make sure your tools are protected to prevent harmful electric shock.

What blade should I buy?

For most purposes we suggest ALPHA PLUS.

We have difficulty cutting marble due to chipping, the stone breaks away like sugar?

You should definitely use ALPHA LIBERO for any soft marble.

There are so many low priced blades out there, why should I buy Alpha ?

Quality blades allow you to cut a wide range of materials, they last longer and are safer and easier to use. The actual cost per cut will be much less with a better quality blade.

Which direction does the blade work in, I've been told they work both ways ?

For best results the proper direction is marked on the face with arrows.

How fast can we cut ?

The blade should always spin FREE within the highest Safe RPM as indicated on the package and face. Do not bog down or push hard; allow the diamonds to do the job, not your arm. After every 15 seconds, take pressure off the blade and allow it to run free at full speed to permit cool air to dissipate heat.

My blade is wearing out fast. What can I do?

If the saw you are using for your application is the type with a worm drive, the RPM is too low. If you are cutting thick material such as 2 cm and 3 cm, you should always step cut. During cutting it is best to back off periodically to allow the blade to spin freely. This serves two primary purposes. First and most importantly, it allows the blade to cool down. Second, it brings the blade up to full rpm for better cutting ability.

I've heard you need to CLEAN blades ?

If a blade appears to be "slowing down" back out of the cut and let it spin free to allow cooling by airflow. If the cutting action still slows, try cutting a soft material such as a sandstone or cinder block or dressing stick.

Helpful Hints

To get the best usefulness from our blades, always select the best blade for the task at hand. Don't try to cut dirty products such as asphalt, tar, larger pieces of metal, wood or Corian plastic.

Don't use our BLACK blades for tuck pointing on mortar joints, use a tuck pointing wheel for that application.

Always follow the Safety Recommendations on the blade and in the package.
Don't breath the dust-use an approved respirator.

Inspect blades frequently for signs of excessive wear or possible dangerous conditions such as warping, overheating, cracks or glazing.

If a blade appears to be wearing out rapidly, the material being cut is probably too soft or abrasive. Do not continue using a blade which is wearing rapidly.

All dry blades are designed for light intermittent type cutting. They are not recommended for deep or uninterrupted operations. Always use step cutting when possible. Back off frequently and allow cool air to keep the blade from getting hot.

Clamp down all workpieces to prevent movement. Avoid vibration and shifting material. Keep your hands clear and away from the spinning blade. Keep guards in safe and useful condition. Don't touch a moving blade or try to stop it with your hand. Build a cradle or holder for repetitive cuts, and use a straightedge for better results.

Always disconnect tools from power source before making adjustments or changing blades. Always use the wrenches provided by the tool's manufacturer.

Use flanges and adapters which are specifically made for your tool. Do not use curved adapters or depressed center adapters with a blade, bending will result.

Do not guess or modify adapters. Don't try to fit in loose fitting blades with tape, plastic or home made parts. Use mounting flanges or equal size, never one larger than the other. Never attempt to modify a blade or change the size of the arbor hole.

For FLUSH cutting try out our PLUS blade with the QUAD DRIVE SYSTEM.

This specially designed blade and adapter permits cutting in tight and cramped situations. It might just be what you need for special situations.

Take care to ensure that your saw is properly maintained. Improper maintenance will cause to saw to run at poor performance levels, which can cause the blade to wear out prematurely. It can also cause binding, chipping, warping or some other problems associated with running at below normal speeds. We also recommend that you remove the blade from your saw every night to clean and WD-40 the metal flanges and bearings.